Cincinnati Public Schools Mercantile Self Direct CUSTOM Applications – Part 3 of 4

Roselawn School Supporting Documentation

Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

indicate mercantile qualification:

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

a single Duke Energy Ohio account

Email this form along with <u>completed Mercantile Self Direct Prescriptive or Custom applications</u>, proof of payment, energy savings calculations and spec sheets to <u>SelfDirect@Duke-Energy.com</u>. You may also fax to 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please

Multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

Account Number	Annual Usage	Account Number	Annual Usage
7870-0683-01			
be evaluated using the Custon project(s). Apply for Self Direct Self Direct Prescriptive applica may be eligible for a Self Direct	ents dictate that certain project in process. Use the table on part it projects using the appropriat tions are listed, please refer to the Custom rebate. Self Direct (s that may be Prescriptive in natuage two as a guide to determine application forms in conjunction the measure list on that applica Custom applications, like Smart \$	ure under the Smart \$aver program must which Self Direct program fits your n with this cover sheet. Where Mercantile tion. If your measure is not listed, you saver Custom applications, should include cate which type of rebate applications are
included in the table provided	on page two.		
Please check each box to indicate	completion of the following prog	gram requirements:	
All sections of appropriate application(s) are completed	Proof of payment.*	☐ Manufacturer's Spec sho	eets Energy model/calculations and detailed inputs for Custom applications

^{*} If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
	MSD Custom Part 1	MSD Prescriptive Lighting	MSD Prescriptive Lighting
Lighting	Custom Lighting Worksheet	MSD Custom Part 1	MSD Custom Part 1 ⊠ Custom Lighting Worksheet □
Heating & Caaling	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Heating & Cooling
Heating & Cooling Window Films, Programmable Thermostats, & Guest Room Energy Management Systems Chillers & Thermal Storage Motors & Pumps VFDs Food Service Process Energy Management Systems Behavioral*** &	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ⊠ MSD Custom General Worksheet ⊠
Programmable Thermostats, & Guest Room Energy Management	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐	MSD Prescriptive Heating & Cooling	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐
Chillers & Thermal	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Chillers & Thermal Storage ☐
Storage	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 MSD Custom General Worksheet
Motore & Dumne	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Motors, Pumps & Drives □
Motors & Fumps	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1
TED.	No. Anglianti	MSD Prescriptive Motors, Pumps & Drives □	MSD Custom Part 1
VFDS	Not Applicable	MSD Custom Part 1 ☐ MSD Custom VFD Worksheet ☐	MSD Custom VFD Worksheet
	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Food Service
Food Service	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐
	MSD Custom Part 1	MSD Prescriptive Process	MSD Custom Part 1
Process	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom General Worksheet
Management	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐
		MSD Custom Part 1 MSD Custom General Worksheet	

^{**} Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

^{***} Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

**** Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your

application.



Proposed energy efficiency measures may be eligible for Self-Direct Custom rebates if they clearly reduce electrical consumption and/or demand as compared to the appropriate baseline.

Before you complete this application, please note the following important criteria:

- Submitting this application does not guarantee a rebate will be approved.
- Rebates are based on electricity conservation only.
- Electric demand and/or energy reductions must be well documented with auditable calculations.
- Incomplete applications cannot be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, beginning on page 6.

Notes on the Application Process

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact your Duke Energy Ohio, Inc account manager or the Duke Energy Smart \$aver® team at 1-866-380-9580.

Every application must include calculations of the baseline electrical usage and the electrical usage of the proposed high-efficiency equipment/system. Monthly calculations are best. You, the Duke Energy Ohio customer, or your equipment vendor / engineer should perform these calculations and submit them to Duke Energy for review. We strongly encourage the use of modeling software (such as eQuest or comparable) for complex projects.

Upon receipt of your application, an acknowledgement email will be sent to you with an estimated response time based on an initial assessment of your application. The application review may include some communication to resolve any questions about the project or to request additional information. Applications that are received complete without missing information have a faster review time.

There are two ways to submit your completed application.

Email your scanned form to: <u>SelfDirect@duke-energy.com</u>

Or, fax your form to 513-419-5572

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1. Contact Information (Required)

Duke Energy Customer Contact Information												
Company Name	Cincinnati Public	Cincinnati Public Schools										
Address	2651 Burnett Ave	2651 Burnett Ave										
Project Contact	Don Elbe	Don Elbe										
City	Cincinatti		State	ОН		Zip Code	45219					
Title	Utility Manageme	nt Coordinator										
Office Phone	614-580-3352	Mobile Phone Fax										
E-mail Address	elbedon@cpsboe.	elbedon@cpsboe.k12.oh.us										

Equipment Vend	Equipment Vendor / Contractor / Architect / Engineer Contact Information											
Company Name	Plug Smart											
Address	1275 Kinnear Roa	1275 Kinnear Road Suite 229										
City	Columbus	Columbus State OH Zip Code 43212										
Project Contact	Lucas Dixon											
Title	Operations Manag	ger										
Office Phone	614-580-3352	Mobile Phone			Fax	1-8	00-518-5576					
E-mail Address	lucas.dixon@plugsmart.com											
Describe Role	Ensures rebate is	correctly applied	l for									

Payment Information										
Payee Legal Company										
Name (as shown on	Cincinna	ti Public School	s							
Federal income tax return):										
Mailing Address	2651 Bu	rnett Ave								
City	Cincinatt	ti	State	ОН	Zip Code	45219				
Type of organization (check one) ☐ Individual/Sole Proprietor ☐ Corporation ☐ Partnership ☐ Unit of Government ☐ Non-Profit (non-corporation)										
Payee Federal Tax ID # of Le Company Name Above:	egal	31-6000758								
Who should receive incentive	e paymen	t? (select one)	⊠ Custo	mer	Vendor (Cu must sign b					
If the vendor is to receive pay I hereby authorize payment of										
Customer Signature			Date_	/	/ (mn	n/dd/yyyy)				

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2. Project Information (Required)

Α.	Please indicate project type: New Construction Expansion at an existing facility Replacing equipment due to equipment failure Replacing equipment that is estimated to have remaining useful life of 2 years or less Replacing equipment that is estimated to have remaining useful life of more than 2 years Behavioral, operational and/or procedural programs/projects
B.	Please describe your project, or attach a detailed project description that describes the project. Public K-8 school in the CPS District
C.	When did you start and complete implementation? Start date / (mm/yyyy) End date 08/2008 (mm/yyyy)
D.	Are you also applying for Self-Direct Prescriptive incentives and, if so, which one(s) ¹ ?
E.	Please indicate which worksheet(s) you are submitting for this application (check all that apply): Lighting Variable Frequency Drive (VFD) Compressed Air Energy Management System (EMS) General (for projects not easily submitted using one of the above worksheets)
F.	Please tell us if there is anything about your electrical energy projections (either for the baseline or the proposed project) that you are either unsure about or for which you have made significant assumptions. Attach additional sheets as needed.
the	quired: Attach a supplier or contractor invoice or other equivalent information documenting Implementation Cost for each project listed in your application. (Note: self-install costs not be included in the Implementation Cost)

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¹ If your project involves some equipment that is eligible for prescriptive incentives and some equipment that is likely eligible for custom incentives, and if it is feasible to separate the equipment for the energy analysis, then the equipment will be evaluated separately. If it is not feasible to separate the equipment for analysis, then the equipment will be evaluated together in the custom application.



3. Signature (Required – must be signed by Duke Energy customer)

Customer Consent to Release of Personal Information , do hereby consent to Duke Energy disclosing I. (insert name) Don Elbe my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number to its subcontractors solely for the purpose of administering Duke Energy Ohio's Mercantile Self-Direct Program. I understand that such subcontractors are contractually bound to otherwise maintain my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number in the strictest of confidence. I realize that under the rules and regulations of the public utilities commission, I may refuse to allow Duke Energy Ohio, Inc to release the information set forth above. By my signature, I freely give Duke Energy Ohio, Inc permission to release the information designated above. Application Signature I certify that I meet the eligibility requirements of the Duke Energy Ohio, Inc Mercantile Self Direct Custom Incentives Program and that all information provided within this application is correct to the best of my knowledge. I agree to the terms and conditions set forth for this program. I certify that the numbers, energy savings, and responses shown on this form are correct. Further, I certify that the taxpayer identification number is current and correct. I am not subject to backup withholding because: (a) I am exempt from backup withholding; or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends; or (c) the IRS has notified me that I am no longer subject to backup withholding. I am a U.S. citizen (includes a U.S. resident alien). Duke Energy Ohio, Inc Customer Signature Print Name Don Elbe Date 12/30/2011

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Checklist for completing the Application

INCOMPLETE APPLICATIONS WILL RESULT IN DELAYS IN DUKE ENERGY PROCESSING YOUR APPLICATION AND NOTIFYING YOU CONCERNING AY REBATES. Before submitting the application and the required supplementary information, use the following checklist to ensure that your application is complete and the information in the application is accurate. (Note: this checklist is <u>for your use only</u> – do not submit this checklist with your application)

Section No.	
& Title	Have You:
1. Contact	☐ Completed the contact information for the Duke Energy customer?
Information	Completed the contact information for the equipment vendor / project
	engineer that can answer questions about the technical aspects of the
	project, if that is a different person than above?
2. Project	Answered the questions A-E, including providing a description of your
Information	project.
	☐ Completed and attached the lighting, compressed air, VFD, EMS
	and/or General worksheet(s)?
3. Signature	☐ Signed your name?
	☐ Printed your name?
	☐ Entered the date?
Supplementary	Attached a supplier or contractor's invoice or other equivalent
information	information documenting the Implementation Cost for projects listed in
(Required)	your application? (Note: self-install costs cannot be included in the
	Implementation Cost)
	(If submitting the General Worksheet) attached calculations
	documenting the energy usage and energy savings for each project listed
	in your application?

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact:

- your Duke Energy account manager or,
- the Duke Energy Smart \$aver® team at 1-866-380-9580.

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Instructions/Terms/Conditions

Note: Please keep for your records- do not submit with the application

- Energy service companies or contractors may assist in preparing the application, but an authorized representative of the customer must sign this application to be eligible to participate in the Mercantile Self Direct Program. Completion of this application does not guarantee the approval of a Self Direct Custom Rebate.
- 2. Once all documentation requested in this application is received by *Duke Energy Ohio, Inc,* and any follow-up information requested by *Duke Energy* is received, the rebate amount for each Energy Conservation Measure (ECM) will be communicated to the customer. The rebate amount will be based on ECM energy savings and ECM incremental installation cost.
- 3. All rebates require approval by the Public Utilities Commission of Ohio. *Duke Energy Ohio, Inc* will submit an application for rebate on the customer's behalf upon customer attestation to program terms, conditions and requirements as outlined in the rebate offer letter and upon customer completion of attestation documents required by the Public Utilities Commission of Ohio.
- 4. Duke Energy Ohio, Inc will issue a Self Direct Custom Rebate check, based on the approved rebate amount for each ECM, upon receiving approval from the Public Utilities Commission of Ohio. Duke Energy Ohio, Inc does not guarantee PUCO approval.
- 5. With the application, the customer must provide a list of all sites where the ECMs were installed. Duke Energy Ohio, Inc requests that sites of similar size, hours of operation and energy consuming characteristics be grouped together in one application for the determination of the rebate amount. The application should identify the site where each unique ECM was installed.
- 6. Based on the information submitted with the application and the information gathered both before and after the initial installation of the ECM, *Duke Energy Ohio, Inc* will calculate the rebate amount for each ECM.
- 7. Duke Energy Ohio, Inc may conduct random site inspections of a sample of the locations where the ECMs are installed to verify installation and operability of the ECMs and to obtain information needed to calculate the Approved Incentive Amount.
- 8. Customers are encouraged to retain copies of all forms, invoices and supporting documentation for their records.
- 9. Approved rebates are valid for 6 months from the date communicated to the customer by *Duke Energy Ohio, Inc,* subject to the expiration of measure eligibility based on project completion dates and application submission deadlines as defined by PUCO. Customers are encouraged to execute their rebate offer contracts and PUCO-required affidavits promptly to ensure eligibility is not forfeited.
- 10. *Duke Energy Ohio, Inc* reserves the right to recover all unrecoverable costs associated with the project approval if the customer decides not to execute the rebate contract, after the project is approved by *Duke Energy Ohio, Inc.*
- 11. Projects financially supported by other funding sources will be evaluated on a case-by-case basis for potential partial funding from *Duke Energy Ohio*, *Inc*.
- 12. Participants must be *Duke Energy Ohio, Inc* nonresidential, mercantile customers with the project sites in the *Duke Energy Ohio, Inc* service territory.

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- 13. Customers or trade allies may not use any Duke Energy logo without prior written permission.
- 14. Only trade allies registered with *Duke Energy* are eligible to participate.
- 15. All equipment must be new. Used or rebuilt equipment is not eligible for incentives. All old existing equipment must be removed on retrofit projects.
- 16. Disclaimers: Duke Energy Ohio, Inc.
 - a. does not endorse any particular manufacturer, product or system design within the program;
 - b. will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives;
 - c. does not expressly or implicitly warrant the performance of installed equipment. (Contact your contractor for details regarding equipment warranties.);
 - d. is not responsible for the proper disposal/recycling of any waste generated or obsolete or old equipment as a result of this project;
 - e. is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment; and
 - f. reserves the right to change or discontinue this program at any time. The acceptance of program applications is determined solely by *Duke Energy Ohio, Inc.*

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The Lighting Worksheet is part 2 of the application. Do not submit this file without submitting a completed Part1 Custom Application document file, which can be found at www.duke-energy.com.

Before you complete this application, please note the following important criteria:

- · Incentive approval is required PRIOR to equipment purchase, or any other activity which would indicate that the Duke Energy customer has already decided to proceed.
- · Submitting this application does not guarantee an incentive will be approved.
- · Incentives are based on electricity conservation only.
- · Electric demand and/or energy reductions must be well documented with auditable calculations.
- · Simple payback without incentive must be greater than 1 year.
- · Incomplete applications will not be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, found in the Custom Application Part 1 document.

Please enter your information and data into the cells that are shaded. Cells in white are locked and cannot be written over.

Duke Energy Customer Contact Information (Match the information in Application Part 1):

Name Don Elbe

Company Cincinnati Public Schools

Equipment Vendor / Project Engineer Contact Information

Lucas Dixon Name Company Plug Smart

Before proceeding with the custom application, please verify that your project is not on the prescriptive incentive application.

The prescriptive incentive applications can be found at:

ΚY http://www.duke-energy.com/kentucky-business/energy-management/energy-efficiency-incentives.asp

Kentucky only: custom incentives only available to K-12 school facilities; prescriptive incentives available for those not on rate TT.

http://www.duke-energy.com/ohio-business/energy-management/energy-efficiency-incentives.asp ОН

NC http://www.duke-energy.com/north-carolina-business/energy-management/energy-efficiency-incentives.asp

http://www.duke-energy.com/south-carolina-business/energy-management/energy-efficiency-incentives.asp SC

Prescriptive incentives are already pre-approved and the application is submitted after project implementation.

Take note of the equipment eligibility on the prescriptive application before planning to utilize the prescriptive application.



Please enter your information and data into the cells that are shaded. Cells in white are locked and cannot be written over.

List of Sites (Required)

Project/ Site		Electric Account Number(s) (see		Area	Location within		Indoor or
(see note 1)	Site Name	note 2)	Site Address	(sq ft)	Facility	Location Type	Outdoor?
Example	Distribution Center	12345678 01	Example: 123 Main Street, Anywhere USA 12345	1000	Warehouse	Industrial	Indoor
1	Roselawn Condon School	7870-0683-01	1594 Summit Road, Cincinnati, OH 45237	######	Classroom	K-12	Indoor
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Ιf	vour application	n involves more tha	ın 20 lightine	g projects, p	lease check	here and	use mult	iple worksheets.

1 Project/Site

You can write over the default project/site number with a store #, building identifier, or other reference that distinguishes one project/location from another.

2 Electric Account Number(s)

If there are multiple meters at a site, only include the Duke Energy account numbers that pertain to the project.

Currently active account number(s) are required for an existing facility. For new construction, write in "new construction."



					Hours of Use	(see note 3)						Controls (see	e note 5)
								Weeks of Use		Exis	sting	Proposed	
Project/		Wee		Satu				in Year (see	Total Annual	Type of	Hours	Type of	
Site	24 x 7	Start Hour	End Hour	Start Hour	End Hour	Start Hour	End Hour	note 4)	Hours of Use	Control	Reduction	Control	Description
Example	No	8:00 AM	7:00 PM	10:00 AM	6:00 PM	1:00 PM	6:00 PM	52	3,536	None	0%	Occupancy	Applying for Prescriptive Incentive
1	No	7:00:00 AM	5:30:00 PM					45	1,913			Occupancy	Applying for Prescriptive Incentive
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

3 Hours of Use

For unoccupied times, leave applicable cells blank.

4 Weeks of Use in Year

If the lighting fixtures are not in use 52 weeks during the year (for example, during holiday or summer break), provide an explanation of when they are not expected to be in use and why:

The School is shut down for a combined 7 weeks a year due to holidays and the summer break.

5 Controls

Please attach more description of existing and/or proposed controls if more space is needed. If sufficient description is not provided, then controls portion of project will not be evaluated. Attach assumptions and calculations to support estimated reduction in hours that result from the controls.

New occupancy sensors should be applied for through the prescriptive application unless ineligible for prescriptive.

New or upgraded EMS/building controls require a separate application part 2. Without the separate application, EMS portion of the project will not be evaluated for an incentive.



_				Existing Fixture(s)				
Project/ Site	Existing Fixture Installation Year (see note 6)	Fixture Type	Fixture Manufacturer (see note 6)	Fixture Model Number (see note 6)	Lamps per Fixture	Fixture Size	Fixture Input Power (watts) (see note 7)	of	Total Demand (kW)
Example	1995	High Pressure Sodium	Manufacturer	Model #	1		190		
1	2008	Other (enter by typing	Com Check	Com Check	1		136,235	1	136
2									
3									
4									
5									
6	5								
7	'								
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

Application Total 1 136

6 Information on Existing Fixture(s)

Optional - please provide as much information as you can.

For new construction projects, provide information on the light fixture(s) that would meet the building code in your location.

7 Fixture Input Power (watts)

Provide actual input power (in watts), not nominal power rating. For example, a 400 watt (nominal) metal halide fixture has a typical input power of approximately 459 watts.



_				Proposed F	ixture(s)						P	rojected Sa	avings	
				Warranty of					Lumen					
		Fixture	Fixture Model	Proposed	Lamps	Fixture Input	Quantity	Total	Output			Annual	Other Annual	Incremental
Project/		Manufacturer	Number (see	Fixtures	per		of	Demand	per	Lumen/	Demand	Energy	Savings \$ (see	Project Cost
Site	Fixture Type	(see note 8)	note 8)	(years)	Fixture		Fixtures	(kW)	Fixture	Sq Ft	(kW)	(kWh)		\$ (see note 11)
Example	T8 Fluorescent	Manufacturer	Model #	5.0	1.0	78	225	18		0		55,515	\$1,265	\$29,215
1	Other (enter by typing	Com Check	Com Check		1.0	99,321	1	99		0	37	70,598		
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
Application	Total		-				1	99	7		37	70,598	\$0	\$0
Average Ele	ectric Rate \$/kWh													

8 Fixture Manufacturer and Model Number

Attach a scanned copy of a spec sheet for each fixture that includes the input power (watts), lumen output and other relevant information. For eligible LED fixtures, refer to the FAQs for Custom Incentives found at www.duke-energy.com and attach required documents if necessary.

9 Fixture Input Power (watts)

Provide actual input power (in watts), not nominal power rating. For example, a 400 watt (nominal) metal halide fixture has a typical input power of approximately 459 watts.

10 Other Annual Savings \$

Optional. Estimate other annual savings in addition to electric (for example operations/maintenance savings).

11 Incremental Project Cost \$

Attach a copy of a formal proposal with the projected project costs.

For new construction projects, a formal proposal is also required with the projected costs for the light fixture(s) that would meet the building code in your location.

12 Project Simple Electric Payback

If the simple payback on the project is less than 1 year, then the project is not eligible for a custom incentive. Please check that the electric rate is accurate based on history.



To whom it may concern:

This letter is to confirm that for the renovation to Cincinnati Public school Roselawn (1594 Summit Rd), for the custom rebate application, the lighting project was installed with a minimum unit cost listed below.

DESCRIPTION	QUANTITY	PRICE/FIXTURE	AMOUNT
L28 Columbia CS8-232-4E88RLH277	30	\$79.00	\$2,370.00
G21 - Alera CV-2T5-S-PM	188	\$431.00	\$81,028.00
A2 - Columbia ST824-232G	32	\$130.00	\$4,160.00
A32 - Columbia ST824-332G	132	\$135.00	\$17,820.00
A31 - Columbia ST824-332G	52	\$135.00	\$7,020.00
B28 - Alera CV-2T5-PERF	126	\$431.00	
C31 - Columbia P4D24-332G	7		\$54,306.00
S2 - Prescolite CFT632EB		\$115.00	\$805.00
C32 - Columbia P4D24-332G-	48	\$50.00	\$2,400.00
	7	\$115.00	\$805.00
V2 - Con Tech LA210-P	16	\$27.00	\$432.00
S1 - Prescolite CFT632EB-STF602	47	\$50.00	\$2,350.00
D4 - Columbia SM24-432-FSA12	16	\$152.00	\$2,432.00
D6 - Day-Brite AVW232-PMW	5	\$182.00	\$910.00
D6F - Day-Brite AVW232-PMW	. 7	\$182.00	\$1,274.00
L24 - Columbia CS4-232-EB8RLH277	5	\$58.00	\$290.00
G1 - Alera CV-2T5-S-PM	25	\$431.00	\$10,775.00
C3 - Columbia P4D24-332G	2	\$115.00	\$230.00
J3 - Columbia STR24-332-MPO	2	\$231.00	\$462,00
D2 - Luminaire VPF84-232-PRS	14	\$290.00	\$4,060.00
41 - Columbia ST814-232G	9	\$130.00	\$1,170.00
01 - Columbia C54-228-EB5277	14	\$182.00	\$2,548.00
65 - Con Tech RL20 CTR2002	6	\$32.00	\$192.00
64 - Columbia WT24-432G	1	\$242.00	\$242.00
14 - Columbia CS4-132-EB8RLH277	5	\$58.00	\$290.00

V1 - Con Tech CTL838P	12	\$43.00	\$516.00
X8P - Hubbell SWF842-A-SW	28	\$825.00	\$23,100.00

	TOTAL	\$221,987.00
ı		

This is also to confirm that for the renovation to **Roselawn (1594 Summit Rd)**, for the **prescriptive** rebate application, occupancy sensors and motors were installed with a minimum unit cost listed below.

DESCRIPTION	Model Number	QUANTITY	Nominal Size (Tons)	PRICE/FIXTURE	AMOUNT
Self Direct	DT-2000, DT-1000,	151	<u> </u>	\$117.89	\$18,980.29
Occupancy Sensor	DT-500] .		1	7.0,300.23
SelfDirect Motor	Baldor EM2518T	1	-	\$830.00	\$830.00
SelfDirect Motor	Baldor EM3313T	3	-	\$1,477.00	\$4,431.00
SelfDirect Motor	Baldor EM2535T	2		\$3,052.00	\$6,104.00
SelfDirect Motor	Baldor EM3311T	3	-	\$1,220.00	\$3,660.00

TOTAL \$34,005.29	
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Thank you for your attention to this matter,

Don Elbe

Utility Management Coordinator

You Elle

Turner As TYS Rebuilding Cincinnati Public Schools

December 4, 2009

Angie Tolle Cincinnati Public Schools 2315 Iowa Avenue Cincinnati, OH 45206

Dear Angie:

Attached is Pay Application for the Roselawn-Condon School, please process payment for the January 1, 2009 check distribution.

Contractor	Application #	Monthly Billing	Total Billing To Date	Contract Amount to Date
BP#7 Beacon Electric	#17	\$ 2,500.00	\$ 2,336,541.00	\$ 2,336,541.00

Please call if you have any questions.

ames J. De Lagelles

Sincerely,

TURNER/DAG/TYS

James T. DeLage Project Executive

/bcs

Attachments

cc:

John Kennedy – ATA/Beilharz Greg Rohr - Turner/DAG/TYS File 0025 – 10960PB

T:PROJECTS/Roselawn-Condon/00250 Pay Application/2009-12-04 beacon pay app.doc

C. S. Milar et and market of the army

Cincinnati Public Schools

2315 Iowa Avenue Cincinnati, Ohio 45206

Contractor's Name: Beacon Electrical Contractors Address: 7815 Redsky Drive, Cincinnati, OH 45249

Contractor Pay Application Summary

Project Name: CPS Roselawn-Condon School Bid Package No.: #7 Electrical/Technology

1	Original Contract Amount	\$	2,145,000.00
2	Net Changes to Date	\$	191,541.00
3	Current Contract Amount	\$	2,336,541.00
4	Labor Completed to Date	\$	841,041,00
5	Material Completed to Date	\$ \$,
6	Total Work Completed to Date		1,495,500.00
7	Store Material to Date	\$	2,336,541.00
8		• \$	0.00
_	Less Retained to Date	\$	0.00
9	Total Amount Due	\$	2,336,541,00
10	Less Previous Payments	\$	2,334,041.00
11	Less Amount Retained to Cover Lien	. \$	
12	Less Amount Retained for Liquidated Damages	•	0.00
13	Less Other Amounts Withheld	\$	0.00
. •		\$	0.00
	Current Due	\$	2,500.00
15	Balance to Complete	\$	0.00
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OSFC approval required for the following contr	act adjustments:	
 Assessment of liquidated damages Other amounts withheld 		
Ohio School Facilities Commission	Date	
Comments:		

00400-J

Contractor Pay Application

APPLICATION AND CERTIFICATE FOR PAYMENT

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- Address	NET CHANGES by Change Order	TOTALS	Total approved this month	Total Changes approved in Previous months by Owner	Change Order/Contract ADDITIONS	9. BALANCE TO FINISH, INCLUDING RETAINAGE\$	8. CURRENT PAYMENT DUE\$	6. TOTAL EARNED LESS RETAINAGE 7. LESS PREVIOUS CERTIFICATES FOR PAYMENTs	8% of Stored Material\$ tel Retainage	5. RETAINAGE a. 8-50% of Completed Labor	Net Change by Change Orders CONTRACT SUM TO DATE	ORIGINAL CONTRACT SUM	Application is made for payment as shown below, in connection with the Contract Continuation sheet is attached.	CONTRACTOR'S APPLICATION FOR PAYMENT	Comment on Lincolned (Building)	FROM CONTRACTOR: Beacon Electrical Contractors	TO OWNER: Cincinnati Public Schools
					DEDUCTIONS	0.00	2,500.00	2,336,541.00 2,334,041.00	0.00	2,336,541.00	191,541.00 2,336,541.00	2 145 000 00				VIA ARCHITECT ATA - Beilharz	PROJECT: R
		School District Treasurer		Approved:		Construction Manager		Arginect (Jan W	Based upon on-site observations, the firm affirms that the percentage of completeness indicated on the pay request.	CO E SE		discharge in full all of Co	The Contractor certified completed in accordance		「A - Beilharz	Roselawn-Condon School
-								Win .		ervations, the firm af		Men	ontractor's obligation rpay requests.	that the work covers		CONTRACTOALE	APPLICATION No: PERIOD TO: PROJECT NOS:
		Date				Date Date		Date		Based upon on-site observations, the firm affirms that the work has progressed to the percentage of completeness indicated on the pay request.	Date .	11-9-09	discharge in full all of Contractor's obligations incurred in connection with the work covered by all prior pay requests.	The Contractor certified that the work covered by this pay request has been completed in accordance with the Contract Documents and that all progress	July 6, 2010	MAURI Notary I My Co	o: 11/31/09 Bid Package #7

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| SUB TOTAL | | A/V & Security Wiring | Surrend and an annual surrend | Surface Raceway/Misses | Branch/Feeder Wiring | i | Branch/Feeder Conduit | Building Rough In/Wiring (Phase 2) |
 | Dimming System Equipment | | Network Equipment | | Telephone/Data Equipment
 | | AV & Security Equipment | Assistant Assistant | Generator Equipment | rie Klana System Equipment | Fig. Album Control Fr. January
 | Devices/Equipment | i. | Light Fixtures/Controls | | Switchgear/Disc/Starters Equipment | Building Equipment/Finishes (Phase 1) | Metwork adolphient withing
 | Total Facility of the Control of the | Telephone/Data Wiring | • | AV & Security Wining | Contace Naceway/wining | | Branch/Feeder Wiring | | Branch/Feeder Conduit | Building Bouch (p.Miring (Dhone 4) | Miodilization |
 | Temporary Power | | Demolition | | Allowances | Permits, Fees, etc. | | Bond, Insurance, etc. | DESCRIPTION OF WORK | |
| | MATERIAL | LABOR | MATERIAL | MATERIAL | LABOR | MATERIAL | LABOR | | MATERIAL
 | LABOR | MATERIAL | LABOR | MATERIAL | LABOR
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 | LABOR | MATERIAL | LABOR | MATERIAL | LABOR | MATERIAL | MAIRRAL | LABOR | MATERIAL | LABOR | | -
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 | 3,500,00 | 85,000,00 | 1,500.00 | 195,000,00 | 15,000.00
 | 435,000,00 | 15.000.00 | 5,000,00 | 8,750.00 | 3,500.00 | 2,625.00
 | 1,750,00 | 73,500,00 | 8.750.00 | 17,675,00 | 1 200 00 | 500.00 | 500,00
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	MATERIAL	MATERIAL	LABOR	MATERIAL	LABOR	LABOR	MATERIAL	MATERIAL	LABOR	LABOR	MATERIAL	MATERIAL	LABOR		LABOR	MATERIAL	MATERIAL	LABOR	LABOR	MATERIAL	MATERIAL LABOR	LABOR	MA INCAR	LABOR	MATERIAL	MATERIAL	LABOR	LABOR	MATERIAL	MATERIAL	LABOR	LABOR	5	LABOR	LABOR MATERIAL		
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414,750.00	8,500.00	2,500.00	7.500.00	0.00	500.00	5,000.00	5,000.00	0.00	1,500.00	750.00	3,750.00	0.00	1,800.00	500.00	500,00	3,000.00	2,250.00	3,750.00	1,500.00	26.250.00	30,750.00 22,500.00	29,950.00	0.00	500.00	5,000.00	0.00	16,250.00 5,000.00	5,000.00	3,750,00	136,500.00	12,500.00	6,000.00	500.00	500.00	10,000.00 7.500.00	APPS.	PREVIOUS
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0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORED	PRESENTLY
414,750.00		2,500.00 2,500.00		500.00		5.000.00	5,000.00	0.00	1,125.00	750.00		0.00	1 200 00	500.00	500,00	3,000.00	2,250.00	1,800.00 3 750 00	1,500.00	22,500.00	30,750.00	29 050 00	0.00	500.00	5,000.00	00.00	16,250.00	3,750.00 5,000.00	2,500.00	136,500.00	32,825.00	6,000.00	500.00	500.00	10,000.00	TO DATE	TOTAL COMPLETED
100.00%	100.00%	100.00%	0,000	100.00%	0.00%	0.00%	100.00%	0.00% %00.00%	100.00%	100.00%	100.00%	0.00%	100 00%	100.00%	100.00%	100.00%	100.00%	100,00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	100,00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		100.00%		%	
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o.so	5,526.00	1,695.00	0.00	306.00	1,814.00	0.00	5.570.00	1,214.00	00.00	0.00	3,460.00	1,114.00	3,679.00	0.00	00.0	14,123.00	0.00	4,667.00 0.00	00.0	0.00	9,550.00	8,737.00	11,241.00	0.00	0.00	0.00 6,960.00	7,694.00	21,666.00	0.00	19.702.00	15,397.00	7,342.00 0,00	0.00		SCHEDULED VALUE
0.00	5,526.00	1,695.00	0.00	0.00 306.00	1,814.00	0,00	5.570.00	1,214.00	9,659.00	0.00	3.460.00	1,114.00	3,679.00	0.00	0.00	2,500.00 14,123.00	0.00	4,667.00	2,598.00	0.00	0.00 9.550,00	8,737.00	11,241.00	00.00 00.00	0.00	0.00 6.960.00	7,694.00	21,666.00	0.00	0.00	15,397,00	7,342.00	(3,760.00		PREVIOUS APPS.
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		OUS THIS S. PERIOD
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0,016	PRESENTLY STORED
+		1,695.00	0.00			<u> </u>			9,659.00	3,4 <u>6</u> 0.00	0.00			7,758.00	0.00	2,500.00	00.0	4,667.00	2,598.00	0.00	0.00	0.00 8.737.00	11,241.00	18,150.00	0.00	0.00	7 694 00	21,666.00	19,702.00	0.00	15.397.00	7,342.00	(3,760.00	- COATE	TOTAL COMPLETED & STORED
0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%	0.00%	100.00%	%00.00r	0.00%	0.00%	100.00%	100.00%	0.00%	100.00%	0.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%			_		=				=	=	%	
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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RETAINAGE	
	SIR TOTAL 0.00 0.00 0.00 0.00% 0.00	Change Order #26 LABOR 5,526.00 5,526.00 0.00 0.00 0.00% 0.00 0.00 0.00 0.00	Change Order #26	Change Order #25 Change Order #25 Change Order #25 Change Order #26 MATERIAL 0.00	Change Order #24 LABOR Change Order #26 MATERIAL 0.00 Change Order #26 MATERIAL 0.00 MATERIAL 0.00	Change Order #23 Change Order #24 Change Order #24 Change Order #26 MATERIAL 0.00 MATERIAL 0.00	Change Order #23	Change Order #22 LABOR Change Order #23 Change Order #24 Change Order #24 Change Order #25 Change Order #25 Change Order #26 Change Order #26 Change Order #27 Change Order #27 Change Order #27 Change Order #28 MATERIAL O.00 Change Order #26 MATERIAL O.00 O.00	Change Order #21 LABOR 1,214,00 1,214,00 0.00 0.00 1,214,00 0.00 Change Order #22 LABOR 5,570,00 5,570,00 0.00 0.00 0.00 1,214,00 1,214,00 10,00 0.00	Change Order #21 Change Order #22 Change Order #22 Change Order #22 Change Order #23 Change Order #24 Change Order #25 Change Order #25 Change Order #26 Change Order #27 Change Order #27 Change Order #28 MATERIAL 0.00 0.	Change Order #20	Change Order #19 LABOR Change Order #20 Change Order #20 Change Order #21 Change Order #21 Change Order #22 Change Order #23 Change Order #24 Change Order #24 Change Order #25 Change Order #26 Change Order #27 Change Order #27 Change Order #27 Change Order #28 Change Order #28 Change Order #28 Change Order #29 Change Order #29 Change Order #29 Change Order #26 Change Order #26 Change Order #27 Change Order #27 Change Order #28 Change Order #28 Change Order #26 Change	Change Order #18	Change Order #17	Change Order #17 Change Order #17 Change Order #18 Change Order #18 Change Order #18 Change Order #19 Change Order #20 Change Order #21 Change Order #21 Change Order #21 Change Order #21 Change Order #22 Change Order #23 Change Order #24 Change Order #25 Change Order #26 Change Order #27 Change Order #27 Change Order #27 Change Order #28 Change Order #28 Change Order #28 Change Order #28 Change Order #29 Change Order #24 Change Order #27 Change Order #27 Change Order #27 Change Order #28 Change Order #27 Change Order #28 Change Order #27 Change Order #28 Change Order #28 Change Order #29 Change Order #20 Change Order #20 Change Order #21 Change Order #24 Change Order #24 Change Order #25 Change Order #26 Change Order #26 Change Order #27 Change Order #27 Change Order #27 Change Order #28 Change Order #28 Change Order #28 Change Order #29 Change Order #20 Change Order	Change Order #16 LABOR LABOR Change Order #17 Change Order #18 LABOR Change Order #22 LABOR Change Order #23 Change Order #23 Change Order #24 Change Order #25 Change Order #26 Change Order #27 Change Order #28 Change	Change Order #15 Change Order #16 Change Order #16 Change Order #17 Change Order #17 Change Order #17 Change Order #18 LABOR Change Order #18 Change Order #22 Change Order #22 Change Order #22 Change Order #22 Change Order #23 Change Order #23 Change Order #23 Change Order #24 Change Order #25 Change Order #26 Chang	Change Order #14 Change Order #17 Change Order #17 Change Order #17 Change Order #18 Change Order #22 Change Order #22 Change Order #23 Change Order #23 Change Order #24 Change Order #24 Change Order #25 Change Order #25 Change Order #25 Change Order #26 Change Order #27 Change Order #27 Change Order #28 Change Order #29 Change Order #29 Change Order #29 Change Order #20 Change Order	Change Order #19	Change Order #13	Change Order #12 LABOR 2,588.00	Change Order #11	Change Order #10 Change Crist #17 Change Crist #18 Change Crist	Change Order #9 LABOR 11,241,00 11,241,00 0.00	Change Order #10	Change Order #8	Change Order #7 Change Order #8 Change	Change Order #8	Change Order #8 LASPER 72,660.00 21,660.00 21,660.00 21,660.00 21,660.00 21,660.00 21,660.00 21,660.00 2	Change Order #5	Change Colore#4 LASCERNAL 10,70,000 10,0	Change Order #3	Change Order #15	Change Color #2 LASTERAL CHAPTERAL	Change Order #1

CONTINUATION SHEET

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		SUB TOTAL		Change Order#	Change Order#	Change Order #	Change Order#	Change Order#	Change Order#	Change Order#	Change Order#	Change Order#	Change Order#	Change Order#	Change Order#	Change Order#	Change Order #	Change Order#	Change Order#	Change Order #	Clarige Cross #	Change Order #	Change Order #30	Change Order #29	Change Order #28	Change Order #27	DESCRIPTION OF WORK				
-			MATERIAL	MATERIAL	LABOR	LABOR	LABOR	LABOR	MATERIAL	LABOR MATERIAL	LABOR MATERIAL	LABOR	LABOR	LABOR	LABOR	LABOR	LABOR	LABOR	LABOR	LABOR	MATERIAL	LABOR MATERIAL	LABOR MATERIAL	LABOR MATERIAL	MATERIAL	MATERIAL	MATERIAL	LABOR	LABOR	LABOR	ORK
	2,336,541.00	3,179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,500.00	0.00	0.00 4,043.00	(3,364.00)	0.00	SCHEDULED VALUE
	2,334,041.00	679.00	0.00	0.00	0.00	0.00	0.00	0.00	200	0.00	200	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 4.043.00	0.00 (3,364.00)	0.00	PREVIOUS APPS.
	2,500.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	2.0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,500.00 0.00	0.00	0.00	0.00	0.00	WORK COMPLETED THIS PERIOD
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00	MATERIALS PRESENTLY STORED
	2,336,541.00	3,179.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	. 0.00	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,500.00 0.00	0.00	0.00	0.00		TOTAL COMPLETED & STORED TO DATE
-	100.00%	100.00%		0.00%				0.00%		•					0.00%		-								0.00%	=	0.00 0.00%				* *
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			•		0.00				BALANCE TO FINISH
	0.00	0.00	0.00	0.00	0.00	•••	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00				RETAINAGE

LABOR

BEACON ELECTRIC	ollowing shows the names and COMPANY	addresses of every unpaid lab	orer in the employ of ²
is due, or to become due, for labor done	e to date hereof.	Digg lebtin lodel Stillieuron	contract, giving the amount, if any, which
NOTE-if the fact is that every laborer has be the amount due or to become due.	en pald in full, then recite: "Every labo	over has been paid in full." If not, then	give each unpaid laborer's name and address and
NAME	ADDRESS	HOURS	Amount Due or to Become Due for Labor Furnished to
			Date Hereof
EVERY LABORER H	AS BEEN PAID IN F	ULL	
	<u> </u>		
].		
Affiant further states that there is o	lue or to become due to BEA	CON ELECTRIC COMP	ANY
r work performed or machinery, materi		Roselawn-Condon S	chool to date
ereof under said contracts, the sum of	s 2,500.00	(Owner or Cor	ntractor)
That the amounts due or to become	no dina sa matal anda a antana i		
urnished to the data hereof, to 2 BE	ACON ELECTRIC COL	material men and laborers, for MPANY	work done or machinery, material or fuel
			r evidenced by certificates of every persor
mishing machinery, material or fuel, he	ereto attached, and made a par	t hereof.	e vidented by coranicates of every person
Affiant further says that 6	BEACON ELECTRIC	COMPANY	
•			ny person, firm or corporation, other thar
			nder said contracts, other than above se
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		A · W	
•	JOE	n. mellendamp, pre	esident
WORN TO BEFORE ME AND SUBSCE	 RIBED IN MY PRESENCE, at	CINCINNATI	Ohio
s 9th day		. 2009	
MAU MAU	REEN L MERKEL		7 / 2
Notar Ny	y Public, State of Oh ia / Commission Expirea / July 3, 2013	MULLON 977 NOTAR	Y PUBLIC
1. Sec'y., Treas., one of itm, or agent, as case m 2. Name and address. 3. "Owner," "part-owner," "lessee," or "authoriz see," or "original" or "principal contractor under a c	ed agent of the owner, part-owner or	altering, repairing or removing a house therein, or other building appurtenance	iring a boat, vessel or other watercraft," or "erecting a, mill, manufactory, or any fumace or fumace materix a, fixture, bridge or other structure," or "digging, drilling airing of any gas well, oil well or other well," or "altering
	e owner, part-owner or lessee," as the	repairing or constructing any oil dentice drainage of any lot or land.* 5. Accurate description of propert 6. Contractor or sub-contractor ex	

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anderson publishing co. cincinnesti, ohio 49	5202

	MELLENCAM	P	being firet dub.			DDDGG	Ohio	
of ²	BEACON EL	ECTRIC	_, being first duly sworn, COMPANY					······································
		-	the ³ G	ENERAL C	SOME A C	the (Sub C	^{)riginal)} Contractor h	aving a contra
			•				PI POMPTON	
³	AT A BUIL	DING		-24				
		County,	Ohio, viz:	·			The following	described pr
hereof ²								
							_ was the owner,	part owner or
					<u> </u>			
•		•	SUB-CON	TRACTORS			*	
	Affiant furti	her says that	the following shows the	names and a	ddresses (of every :	Sub-confractor in	iha amulau a
work done	SEACON ELE	CTRIC C	OMPANY giving the unished to date hereof	amount, if any	, which is c	due, or to	become due, to fi	nie empioy o
·	NOTE-This state	enal, or fuel (Ment must be a	furnished to date hereof,	under said co	ntracts.			
	NAME	1	ccompanied by a similar swor	n statement sign	ed by each of	the sub-co	intractors listed below	<i>.</i> .
			ADDRESS	.	TRADE		Amount Due or for Work and Mater	to Become Due
	ALL SUBCON	TRACTOR	S HAVE BEEN PA	TD TN DE	7			icto io Data Liele(
			MAYO DEEN PA	ID IN FU	بإبار			
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			·			- 1	•	
247	4		and the second second					
	3							
			MATERIAL					

Kind of Machinery.

Amount Due or to Become Due

Cincinnati Public Schools

2315 Iowa Avenue Cincinnati, Ohio 45206

Contractor's Name: Address:

Century Construction, Inc.

34 Kenton Lands Rd. - PO Box 18670

Erlanger, KY 41018

Contractor Pay Application Summary

Project Name Bid Package No.

Roselawn-Condon School 3-9

1	Original Contract Amount Net Changes to Date	\$	2,157,626.00
3	Current Contract Amount	\$	72,665.00
•	Our ent Contract Amount	- \$	2,230,291.00
4	Labor Completed to Date	r.	
5	Material Completed to Date	P	811,898.00
6	Total Work Completed to Date		1,418,393.00
7		\$	2,230,291.00
7	Store Material to Date	\$	_
8	Less Retained to Date	\$	
9	Total Amount Due	. ¥	0.000.004.55
10	Less Previous Payments	P	2,230,291.00
11		\$	2,228,760.00
	Less Amount Retained to Cover Lien	\$	
12	Less Amount Retained for Liquidated Damages	\$	_
13	Less Other Amounts Withheld	ę	
14	Current Due	Ψ ,	
15	Balance to Complete	Þ	1,531.00
	paramo to combiete	\$	_

OSFC approval required for the following con	tract adjustments:	
Assessment of liquidated damages Other amounts withheld		e.
Ohio School Facilities Commission	Date	٠
Comments:		

00400-J

Contractor Pay Application

APPLICATION AND CERTIFICATE FOR PAYMENT

NET CHANGES by Change Order	TOTALS	Total approved this month	Total Changes approved in Previous months by Owner	Change Order/Contract	9. BALANCE TO FINISH, INCLUDING RETAINAGE.	8. CURRENT PAYMENT DUE	6. TOTAL EARNED LESS RETAINAGE\$ 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT\$	Total Retainage	1. ORIGINAL CONTRACT SUM	Application is made for payment as shown below, in connection with the Contract Continuation sheet is attached.	CONTRACTOR'S APPLICATION FOR PAYMENT	CONTRACT FOR: HVAC	FROM CONTRACTOR: Century Construction 34 Kenton Lands Rd Eilanger, KY 41018	TO OWNER: Cincinnati Public Schools CPS Facilities Cincinnati, OH 45206
72665.00	72665.00	1531.00	71134.00	ADDITIONS	NAGE\$	G	AYMENT\$	€5	m	, in connection with the (MENT		Century Construction, Inc. 34 Kenton Lands Rd. Erlanger, KY 41018	<u></u>
				DEDUCTIONS		1,531.00	2,230,291.00 2,228,760.00	1	2,157,626.00 .72,665.00 2,230,291.00 2,230,291.00	Contract			VIA ARCHITECT:	PROJECT:
	School District Treasurer		Approved:		Construction Manager		Arginies 111/0		Contractor Name & North Notary My one Based upon on-site observations, the firm affirms that the percentage of completeness indicated on the pay request.	completed in accordance with the Conpayments previously paid by the State discharge in full all of Contractor's obli-work povered by all prior pay requests	The Contractor certified		Cincinnati Public Schools CPS Facilities Cincinnati, OH 45206	Roselawn-Condon School
							Vall		b, Notay M rvations, the firm affirms ess indicated on the pay	with the Contract Docur d by the State have been ntractor's obligations incu pay requests.	that the work covered by			APPLICATION No: PERIOD TO: PROJECT NOS: CONTRACT DATE:
	Date				Late Date		1.09 Date		Contractor Contractor Date Date Diamone of Contractor, Which the work has progressed to the percentage of completeness indicated on the pay request.	completed in accordance with the Contract Documents and that all progress payments previously paid by the State have been applied by the Contractor to discharge in full all of Contractor's obligations incurred in connection with the work govered by all prior pay requests.	The Contractor certified that the work covered by this pay request has been			16 3/25/2009 D 137 R 08/15/07

00400 J

Contractor Pay Application

containing Contractor's signed Certification, is attached. AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION DATE: APPLICATION NO.: 0016

PERIOD TO: 3/25/2009

ARCHITECT'S PROJECT NO.: 075521

1	N AND CERTIFICATE FOR PAYMENT • 1992 EDITION • AIA® • ©1992 • THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK	AIA DOCUMENT G703 APPLICATION AND CERTIFICATE FOR PAYMENT
	\$0.00	
	\$31,376.00	Phase I Penthouse Controls
100.0		Labor
\$0.00	•	Material
\$16,115.00	\$16,115.00 \$16,115.00	Phase Controls
\$0.00 \$10.744.00 100.000	\$10,	Material
0.00	\$0.00	Phase i Penthouse Insulation
\$17,903,00	\$26,854.00	Labor
\$0.00	\$17.903.00 \$17.903.00	Material
\$0.00 \$22,400.00 100.000	, 22¢	Phase I Insulation
\$33,600.00 100.00	\$33,600,00	Labor
	\$0.00	Material
\$84,000.00	\$84,000.00 \$84,0	Phase I Penthouse Duct Bo
\$89,600.00 100.00	\$89,600.00 \$89,600.00	Matenar
\$0.00	\$0.00	Phase I Duct Rough-In
		Labor
0.00 818 048 00 100 000	\$18.0	Material
\$10,00.00	\$0.00	Phase I Penthouse Piping
\$8,944.00	\$18,030,000 \$18,030,00	Labor
	98 044 00	Material
\$39.	\$39,420.00 \$39,	Phase Demo - Pine & Fortinment
\$0.00 \$0.00 0		lahor
		Motorial Engineering
\$89,066.00	\$89,066.00 \$89,066,00	Cabol Taking
\$61,827.00 100.00	\$61,827.00 \$61,827.00	Material
\$0.00		Phase I Piping
\$700.00		Labor
\$700.00 100.00	•	Material
\$0.00		Mobilization
\$0.00		Labor
\$27.164.00 100.00	\$27,	Material
\$0.00	\$0.00	Bond & Insurance
(NOT IN TO DATE (G+C)	VALUE APPLICATION (D+E)	, ,
	SC	ITEM DESCRIPTION OF WORK
	WORK COMPLETED	
G	CD	A B



containing Contractor's signed Certification, is attached. In tabulations below, amounts are stated to the nearest dollar. AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT,

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION DATE: APPLICATION NO.: 0016

PERIOD TO: 3/25/2009

ARCHITECT'S PROJECT NO.: 075521

	I	330	325	320	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200	195	190	185	180	175	170	165	Τ				T	٦
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AIA DOCUMENT G703+ APPLICATION AND CERTIFICATE FOR PAYMENT + 1992 EDITION + AIAGO + CHOO2 +		Material	Phase III Piping	Labor	Material	Phase II Balancing	Labor	Material	Phase II Penthouse Controls	Labor	Material	Phase II Controls	Labor	Material	Phase II Penthouse insulation	Labor	Material	Phase II Insulation	Labor	Material	Phase II Penthouse Duct Rough-In & Demo	Labor	Material	Phase If Ouct Rough-In	Labor	Material	Phase II Penthouse Piping	Labor	Material	Phase II Piping	Labor	Material	Phase I Balancing	Labor	Material			DESCRIPTION OF WORK		5	,
DR PAYMENT • 1992	\$6,/14.00{	\$0,00	\$0,00.00	90.00	\$0.00	90,01	\$0,010.00	\$13.516.00	\$0.00	\$13.517.00	\$20 273 00	00.00	\$21,484.00	\$14 323 00	#0.00	\$21 484 00	\$14.323.00	\$0.00	\$41,440.00	\$53 760 00	\$0.00	\$58.240.00	\$69,440.00	\$0.00	\$7.692.00	\$5.598.00	\$0.00	\$36,754.00	\$27.562.00	\$0.00	\$6.533.00	\$0.00	\$0.00	\$20,918.00	\$31,377.00		1200	VALUE		С	
EDITION . ALA@ . ©	\$6,714.00	\$0.00	\$6,533.00	\$0.00	\$0.00	99,071.00	\$10,010,00	#43 # 40.00	\$0.00	\$13.517.00	00.00	\$0.00 00.00	\$34,020.00	\$1.4 333 00.00	\$0.00 00.40+,12\$	\$21,020,00	\$14 323 00	\$0.00	\$41,440,00	00.00	00.00	\$58 240 00	\$69,440.00	\$0.00	\$7,600,00	\$5.598.00	\$0.00	\$36,754.00	\$27 582 00	\$0.00	\$6 533 00	\$0.00	\$0.00	\$20,918.00	\$31,377.00	(D+E)	APPLICATION	FROM PREVIOUS	WORK COMPLETED	D	
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	100.000	<u> </u>	100.000	<u> </u>	<u>0</u>	100.000	100.000	0	100.000	100.000	0	100.000	100.000	0	100.000	100.000	0	100,000	100.000	0	100.000	00.000	2	100.000	00.000	200	00.000	00.000		00.000		2 0		100.000	100.000		(G÷C)	%			
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AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification, is attached. In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION DATE: APPLICATION NO.: 0016

PERIOD TO: 3/25/2009

ARCHITECT'S PROJECT NO.: 075521

	5 0	1500	495	490	485	480	475	470	465	460	455	450	445	440	435	430	425	420	415	410	405	2 6	A 0	305	300	<u>بر</u>	380	375	370	ω	<u>ω</u>	ည	ų	دب	ω	ω	T-				Т
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MENT • 1997	-	\$2,000.00	\$13,440.00	\$0.00	\$1,080.00	\$5,600.00	\$0.00	\$3,880.00	\$251,000.00	\$0.00	\$50,000.00	\$265,440.00	\$0.00	\$3,000.00	\$27,000.00	\$0.00	\$0.00	\$19,040.00	\$0.00	\$0.00	\$33,600.00	\$0.00	\$6,534.00	\$0.00	\$0.00	\$5,632.00	\$8,449.00	# 40.00	00.00	\$21 484 00	\$14 323 00	00 U\$	\$15,680,00	\$22,400.00	\$0.00	\$9,515.00		VALUE	SCHEDULED		С
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AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification, is attached. In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION DATE: PERIOD TO: 3/25/2009

APPLICATION NO.: 0016

ARCHITECT'S PROJECT NO.: 075521

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AIA DOCUMENT G703+ APPLICATION AND CERTIFICATE FOR PAYMENT + 1992 EDITION • AIA® • 6,1092 • THE AMERICAN DECEMBERS		CO#8	CO#7	00 #5	CO #5	CO #4	CO#3	CO#2	CO #1	Allowance AA 6	Allowance AA 5	Allowance AA A	Allowance AA 2	Allowance AA 1	Remaining	Allowance	Labor	Material	Punch List/Commissioning & Start-Up	Labor	Material	Air Devices	Labor	Material	Louvers & Dampers	Labor	Material	Exhaust & Return Fans	Labor	Material	VFD's	Labor	Material	AC Units		DESCRIPTION OF WORK			=
OR PAYMENT • 199	\$1,854.00	\$386.00	\$7,933.00	\$2,864.00	\$4,282.00	\$4,968.00	\$1,123.00	\$10,455.00	\$49,652.00	\$870.00	\$970.00	\$484.00	\$509.00	\$4,595.00	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$0.00	\$33,600.00	\$16,800.00	\$0.00	\$33,600.00	\$35,840.00	\$0.00	\$17,920.00	\$28,000.00	\$0.00	\$2,000.00	\$26,880.00	\$0.00	\$1,000.00	\$7,000.00	\$0.00		VALUE	SCHEDIN ED	C)
2 EDITION • AIAm • 6	\$1,854.00	\$386.00	\$7,933.00	\$2,864.00	\$4,282.00	\$4,968.00	\$1,123.00	\$18,455.00	\$2,632.00	\$870.00	\$910.00	\$484.00	\$509.00	\$4,595.00	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$0.00	\$33,600.00	\$16,800.00	\$0.00	\$33,600.00	\$35,840.00	\$0.00	\$17,920.00	\$28,000.00	\$0.00	\$2,000.00	\$26,880.00	\$0.00	\$1,000.00	\$7,000.00	\$0.00	(D + E)	APPLICATION	WORK COMPLETED	D	-
oldawy altr. • 266kg	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,00	\$0.00	\$0.00		THE DESIGN	MPLETED	E	f
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1	69	\$386,00	\$7,933.00	\$2,864.00	\$4,282.00	\$4,968.00	\$1,123.00	\$18,455.00	\$2,632.00	\$870.00	\$910.00	\$484.00	\$509.00	\$4.595.00	\$0.00	\$0.00	\$1,000,00	\$1.000.00	\$0.00	\$33,600.00	\$16.800.00	\$0.00	\$33,600.00	\$35,840.00	\$0.00	\$17,920.00	\$28,000.00	\$0.00	\$2,000.00	\$26.880.00	\$0.00	\$1,000.00	\$7,000.00	\$0.00	TO DATE (D+E+F)	AND STORED	TOTAL [G	
	100 000	100.000	100.000	100.000	100,000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100,000	100,000	0 0	0.000	100 000	100,000	9	100.000	100,000	0	100.000	100.000	o_	100,000	100,000	0	100.000	100.000	0	100.000	100.000	0	(G÷C)	%			
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AIA DOCUMENT G703

PAGE 5 OF 5 PAGES

containing Contractor's signed Certification, is attached. AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT,

In tabulations below, amounts are stated to the nearest dollar.
Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION DATE: APPLICATION NO.: 0016 PERIOD TO: 3/25/2009

ARCHITECT'S PROJECT NO.: 075521

	00	750	740	730	720	710	7 90	800	0/0	665	NO.
	00 # 10	CO #10	CO #17	CO #15	CO#14	CO#13	CC # 15	CO #1-	CO#10	CO#9	B DESCRIPTION OF WORK
\$2,230,291.00	\$4,895,00	(30,304,00)	\$1,569.00	\$8,384,00	\$10,060.00	\$409.00	\$565.00	\$2,187.00	\$1,527.00	\$4,568.00	C SCHEDULED VALUE
\$2,228,760.00	\$0.00	\$0.00	\$1,569.00	\$8,384,00	\$10,060.00	\$409.00	\$565.00	\$2,187.00	\$1,527.00	\$4,568.00	WORK COMPLETED WORK COMPLETED FROM PREVIOUS APPLICATION (D+E) THIS PE
\$1,531.00	\$4,895.00	(\$3,364.00)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	E MPLETED THIS PERIOD
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	P MATERIALS PRESENTLY STORED (NOT IN D OR E)
\$2,230,291.00 100.00%	\$4,895.00	(\$3,364.00)	\$1,569.00	\$8,384.00	\$10,060.00	\$409.00	\$565.00	\$2,187.00	\$1,527.00	\$4,568.00	TOTAL COMPLETED AND STORED TO DATE (D+E+F)
100.00%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100,000	100.000	(G÷C)
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	H BALANCE TO FINISH (C-G)
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	RETAINAGE (IF VARIABLE) RATE



AIA DOCUMENT G703 • APPLICATION AND CERTIFICATE FOR PAYMENT • 1992 EDITION • AIA® • ©1992 • THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK
AVENUE, N.W., WASHINGTON, D.C. 20006-5292 • WARNING: Unlicensed photocopying violates U.S. copyright laws and will subject the violator to legal prosecution.
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Roselawn Condon School 7735 Greenland Place Cincinnati, Oh.

(Tab Section # 02)

Fixtures Beacon Electric Company

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		(



Committed to Quality, Service and Customer Satisfaction.

ARCHITECTS'S APPROVAL STAMP:

ENGINEER'S APPROVAL STAMP:

SUBMI	TTAL REVIEW					
THE CONTRACT DOCUMEN THE CONTRACTOR FROM C DOCUMENTS. THE CONTRA	OR GENERAL CONFORMANCE WITH NTS. COMMENTS DO NOT RELIEVE COMPLIANCE WITH THE CONTRACT ACTOR REMAINS RESPONSIBLE FOR B. DIMENSIONS, DETAILS AND CORNADES.					
🖄 NO EXCEPTIONS	EXCEPTIONS NOTED SUBMIT RECORD COPY					
EXCEPTIONS NOTED BY: And Johns	□ REVISE AND RESUBMIT □ Date: (U → S U − O 7					
KOHRS LONNEMA	KOHRS LONNEMANN HEIL ENGINEERS, PSC					

CONSTRUCTION MANAGER APPROVAL STAMP:

ELECTRICAL CONTRACTOR'S STAMP:

BEACON ELECTRIC CO.

Contractor hereby represents that he has reviewed this submittal and verified that this equipment is "APPROVED AS NOTED" with the specifications with regard to manufacturer, catalog numbers, and similar data relative to this submittal.

Project Name: ROSELAWN CONHDON

SCHOOL

Project No. 2071784

Spec. Section 27-05-13, 26-09-23

LUMINAIRES AND LIGHTING CONTROL

Submittal No. 2

Date: OCTOBER 24, 2007

By. Jim Newcomb

		(
		(
		(

Date: Oct 11, 2007



Transmittal

Leesman Sales 1663 Blue Rock Street Çincinnati OH 45223 Phone: (513) 681-2081 From: Dennis Leesman

Project

Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Location To

F D LAWRENCE 3450 BEEKMAN ST

CINCINNATI OH 45223 Contact: Marvin Schultz

ATTACHED WE AF	RE SENDING	YOU 1 COPIES OF THE FOLLOWING ITEMS: Specifications Information Submittals
THESE ARE TRAN Prior Approval Approval Approval as Su Approval as No	bmitted	DR: Resubmittal for Approval Corrections Sids due on: Other: Review and Comment
Type	MFG	Part
A1	Columbia	ST814-232G-FSA12.125-EB8RLH-277-
• • •	Ooldinbia	FO835
A2	Columbia	ST824-232G-FSA12.125-EB8RLH-277-
		. FO835
A3	Columbia	ST824-332G-FSA12.125-EB8RLH-277-
		FO835
A31	Columbia	ST824-332G-FSA12.125-3EB8RLH-
ACAOTO	~	277-F0835
A31GTD	Columbia	ST824-332G-FSA12.125-3EB8RLH-
		277-FO835-GTD BY LEESMAN
A32	Columbia	FACTORY INSTALLED ST824-332G-FSA12.125-24EB8RLH-
MUZ	Columbia	51824-332G-FSA12.125-24EB8RLH- 277-FO835-MS9
A32GTD	Columbia	ST824-332G-FSA12.125-24EB8RLH-
7102013	Oddinbia	277-F0835-MS9-GTD BY LEESMAN
		FACTORY INSTALLED
B28	Alera	CV-2T8-PERF-PIAUDAMEVEW
		NON-FEED-EB5277-MW-8-L/R
B28W	Alera	NON FEED EB5277-MW-8-L/R CHIETEORERACT BOCHMENTS, COMMENTS DO NOT RELIEVE
C3	Columbia	P4B243020AMARS PROMERS NET HANCE WITH THE CONTRACT
		FURSISMENTS. THE CONTRACTOR REMAINS RESPONSIBLE FOR
C31	Columbia	P402483200 MARONSTUS BRANCHEROMS, DETAILS AND COR-
220		FOR ASION WITH OTHER TRADES.
C32	Columbia	PA 24932GEMACHES-24EEBRLEXEFFIONS NOTED
D4	O I makin	FO835-MS9 SUBMIT CORD COPY
D1	Columbia	CSA-221CIPPIOPISANOTED REVISE AND RESUBMIT
D2	Luminaire	Versity 12 - 2012 - 10 total 14 7 8
		ROHRS LONNEMANN HEIL ENGINEERS, PSC

		(
		(<u>'</u>
		(,

Date: Oct 11, 2007



Transmittal

Leesman Sales 1663 Blue Rock Street Cincinnati OH 45223 Phone: (513) 681-2081 From: Dennis Leesman

_		From: Dennis
Type	MFG	Part
D4	Columbia	SM24-432-FSA12.125-4EB8RLH277- FO835
D6	Day-Brite Lighting	AVW232-PMW-UNV-1/2EB10R-DEK
D6F	Day-Brite Lighting	AVW232-PMW-UNV-1/2EB10R-AVWIJ- DEK
EX	Dual Lite	SESRWN
EXDF	Dual Lite	SEDRWN
EX1	Dual Lite	LN4XRW
G1	Alera	CV-2T5-S-PM 24" FEED/CM 18: NON FEED-EB5277-MW-4
G21	Alera	CV-2T5-S-PM 24" FEED / CM 24" NON FEED-EB5277-MW-8-L/R
G21GTD	Alera	CV-2T5-S-PM 24" FEED / CM 24" NON FEED-EB5277-MW-8-L/R-GTD SUPPLIED BY LEESMAN FACTORY INSTALLED
G21S	Alera	CV-2T5-S-WM-EB5277-MW-8
G4	Columbia	WT24-432G-FAA12.156INV- 4EB8RLH277-F0835
J3	Columbia	STR24-332G-MPO-3EB8RLH277- FO835
L14	Columbia	CS4-132-EB8RLH277-CSWG4
L24	Columbia	CS4-232-EB8RLH277-CSWG4
L28	Columbia	CS8-232-4EB8RLH277-(2)CSWG4
LSA2	Kim	1A/AR2/400MH277/PS-P/SQUARE POLE ARM
LSA3	Kim	1A/AR3/400MH277/PS-P/SQUARE POLE ARM
LSA3	Kim	1A/AR3/400MH277/PS-P/SQUARE POLE ARM-HS
LSA4	Kim	1A/AR4/400MH277/PS-P/SQUARE POLE ARM
PS1	Spaulding	HT2-CM-P15HL-DA-Q-WH-F4
PS1E	Spaulding	HT2-CM-P15-HL-DA-Q-WH-F4-QZ
PS2E	Luminaire	YOVH-13-1PLC26-277-OPAL-WHT- LAMP INCLUDED
PS4	Architectural Area Lighting	INDA-XX-150MHT6-277-MAL-LAMP 150
PS4	KW Industries	RSP12-4.0-11-BAL-BC
S1	Prescolite	CFT632EB-STF602-SS-B24
S2	Prescolite	CFT632EB-STF602-WW-SS-B24
S3	Prescolite	CFT632HEB-STF602H-SS-B24
S4	Prescolite	CFT632EB-STF602-DL-B24
S 5	Con Tech	RL20 / CTR2002-CLR-P
V1	Con Tech	CTL838P
V1	Con Tech	LT24-P
V1	Con Tech	LA210-P

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		(

Date: Oct 11, 2007



Transmittal

Leesman Sales 1663 Blue Rock Street Cincinnati OH 45223 Phone: (513) 681-2081 From: Dennis Leesman

Type	MFG	Part
V2	Con Tech	CTL838-P
V2	Con Tech	LT28-P
V2	Con Tech	LA210-P
X8P	Hubbell	SWF842-A-SW-WG LAMPS
PSS1	KW Industries	SSP15-4.0-11-DM10-KIM AR-KIM PS-P
PSS2	KW Industries	SSP20-4.0-11-DM2180-KIM AR-KIM PS-P
PSS3	KW Industries	SSP20-4.0-11-DM10-KIM AR KIM PS-P-CPL
GTD	Side-Lite	PSM FACTORY INSTALLED IN
		FIXTURES ABOVE
2000 SQ FT	Hubbell Building Automation	OMNI-DT2000-RP
1000 SQ FT	Hubbell Building Automation	OMNI-DT1000-RP
500 SQ ST	Hubbell Building Automation	OMNI-DT500-RP
POWER PACK	Hubbell Building Automation	MP277A

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		(



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

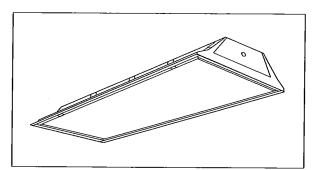
ST814-232G-FSA12.125-EB8RLH-277-FO835

Notes:

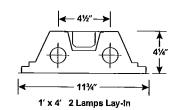
Type:

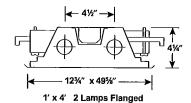
A1

LEE07-6119

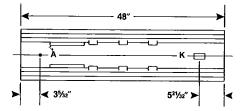


Cross Section





Flanged cut out dimensions for single unit only: 12" x 48\(^{1}\)\(^{1}\)



A - 1/8" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

Complete ordering information on back. Dimensions and specifications subject to change without notice.

ST814-232

SPECIFICATION GRADE T8 TROFFER 1' x 4', 2 T8 LAMPS

Туре:	 	 	_
Job Description:	 	 	

Features

- · Optical performance designed for T8 lamp technology.
- · Mechanical light seal.
- Attractive post-painted door frame with positive action latches.
- · Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time consuming loose parts.
- Snap-in ballast covers can be removed when lamps are installed.
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- Housing ends secured by unique corner interlock and screws.

Flanged Features

- · Four adjustable Uni-Lugs for quick easy installation.
- Optional plaster frames available for individual or row mounting,
- Fixture end flanges are removable for row mounting.
 Joiner channels are included.

Housing

Heavy gauge steel. Die formed for extra rigidity. Designed for installation in standard inverted tee grid ceilings.

Ballast

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, unless otherwise specified.

Finish

All metal parts are processed with a five phase phosphate bonding treatment. Grid units are pre-painted with high gloss baked white enamel, 86% reflective. Flanged units are painted after fabrication with a polyester powder coat, reflectance of 90%.

Shielding

100% acrylic prismatic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Labels

All fixtures carry the UL label. (CSA approval available. Use Suffix "CSA".)

T9.2



Catalog Number:

ST814-232G-FSA12.125-EB8RLH-277-FO835

Notes:

Type:

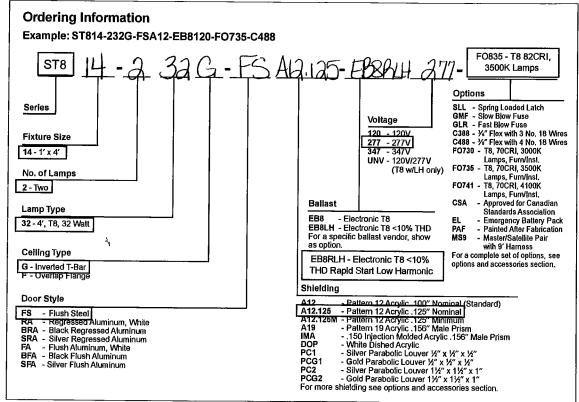
Α1

LEE07-6119

ST814-232 - 1' x 4', 2 T8 Lamps

SPECIFICATION GRADE TROFFER

CONTACT FACTORY



T9.2







Catalog Number:

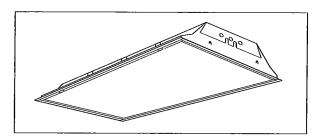
ST824-232G-FSA12.125-EB8RLH-277-FO835

Notes:

Type:

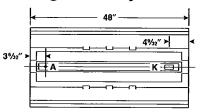
Α2

LEE07-6119



Cross Section 2' x 4' 2-Lamps Lay-In 243/4" x 495/4" 2' x 4' 2-Lamps Flanged

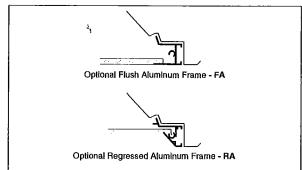
Flanged cut out dimensions for single unit only: 24" x 481%"



A - %" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.



Complete ordering information on back, Dimensions and specifications subject to change without notice,

ST824-232

SPECIFICATION GRADE T8 TROFFER 2' x 4', 2 T8 Lamps

Type:		 	-	
loh D	oscription:			

- Optical performance designed for T8 lamp technology.
- 21/4" minimum spacing from bottom of lamp to bottom of
- · Mechanical light seal.
- · Attractive, post-painted door frame with positive action latches.
- Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are installed.
- · Corner hinging for easy insertion and removal of door frame from either side.
- · Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- · Housing ends secured by unique corner interlock and

Housing

Heavy gauge steet. Die formed for extra rigidity. Grid housings are designed for installation in standard ½ "T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard cellings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

All fixtures carry the UL label. (CSA approval available. Use Suffix "CSA").



Catalog Number:

ST824-232G-FSA12.125-EB8RLH-277-FO835

Notes:

Type:

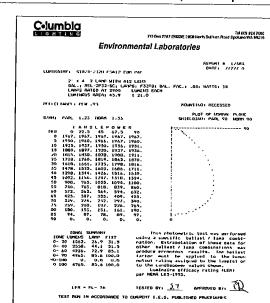
Α2

LEE07-6119

ST824-232

2' x 4', 2 T8 Lamps

SPECIFICATION GRADE TROFFER



ST824-232G-FSA12-EB8-PAF Report No: 12583 Efficiency: 85.6 S/MH: Parl 1.23 Norm 1.36

Zonal C	Zonal Cavity Method Floor Reflectance20												
RC	ĺ	8				7	70			50		0	1
RW	70	<u>50</u>	30	10	70	50	30	10	50	30	_10	0	J
1	94	91	88	85	92	89	86	83	85	83	81	75	1
2	87	81	76	72	85	79	75	71	76	73	69	65	l
3	80	73	66	61	78	71	66	61	69	64	60	57	L
4	74	65	58	53	72	64	58	53	62	56	52	49	
5	68	58	51	46	66	57	50	46	55	50	45	43	l
6	63	52	45	40	61	52	45	40	50	44	40	37	
7	58	47	40	35	57	47	40	35	45	39	35	33	
8	54	42	35	31	52	42	3 5	30	41	35	30	28	l
9	49	38	31	26	48	38	31	26	37	31	26	24	
10	46	35	28	23	45	34	28	23	33	27	23	22	

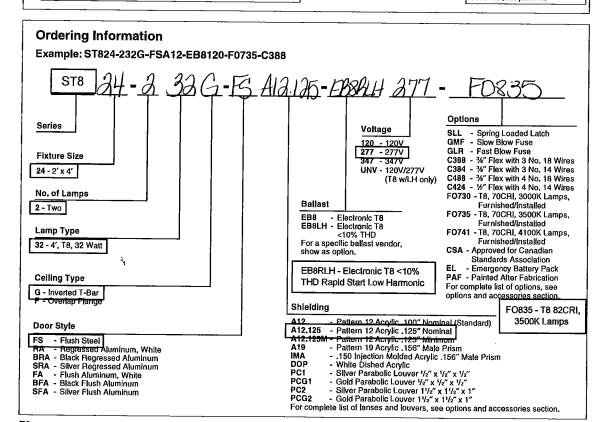
Zonal Summary

Zone	Lumens	Lamp	Fixt.
0-30	1562.	26,9	31.5
0-40	2558.	44.1	51.5
0-60	4226.	72,9	85,1
0-90	4965,	85.6	100,0
90-180	0.	0.0	0,0
0-180	4965,	85.6	100.0

Energy Data LER: FL-76 Energy Cost: \$3.16*

Input Watts: 58 BF: 88 The above energy calculations were conducted using a specific lamp/ ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.



T6

CO 06/02





For complete list of lenses and louvers, see options and accessories section.



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

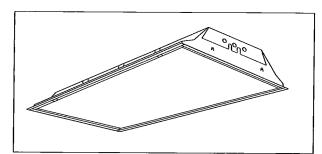
ST824-332G-FSA12.125-EB8RLH-277-FO835

Notes:

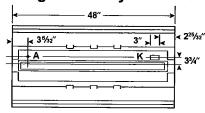
Type:

A3

LEE07-6119



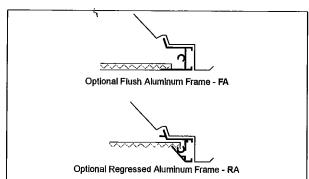
Flanged cut out dimensions for single unit only: 24" x 481/8"



A - %" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.



Complete ordering information on back. Dimensions and specifications subject to change without notice.

ST824-332 SPECIFICATION GRADE T8 TROFFER 2' x 4', 3 T8 Lamps

Туре:	 	
Job Description:		

Features

- · Optical performance designed for T8 lamp technology.
- 2½" minimum spacing from bottom of lamp to bottom of lens
- · Mechanical light seal.
- Attractive, post-painted door frame with positive action latches.
- · Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are installed.
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- Housing ends secured by unique corner interlock and screws.

Housing

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard '5/6' T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

Shielding

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Labels

All fixtures carry the UL label. (CSA approval available. Use Suffix "CSA").

C-lumbia



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

ST824-332G-FSA12.125-EB8RLH-277-F0835

ST824-332G-FSA12-3EB8-PAF

Notes:

Type:

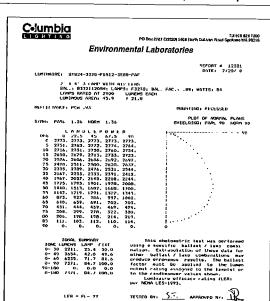
A3

LEE07-6119

ST824-332

2' x 4', 3 T8 Lamps

SPECIFICATION GRADE TROFFER



TEST RUN IN ACCORDANCE TO CURRENT 1.E.S. PURLISHED PROCEDURES

	Report No: 12581				Efficiency: 84.7 S/I					MH: Parl 1,26 Norm 1,36				
	Zonal Cavity Method Coefficients of Utilization Floor Reflectance20)
	RC	80				7	70	50				0	1	
	RW	70	50	30	10	70	50	30	10	50	30	10	Ō	l
	1	93	90	87	84	91	88	85	83	84	82	80	75	l
	2	86	80	75	71	84	78	74	70	75	72	68	64	l
	3	79	71	65	60	77	70	64	60	68	63	59	56	
	4	73	64	57	52	71	63	57	52	61	55	51	48	
	5	67	57	50	45	65	56	49	44	54	48	44	41	
	6	62	51	44	39	60	50	44	39	49	43	38	36	
ı	7	57	46	39	34	56	45	39	34	44	38	33	31	
	18 I	52	41	34	29	51	41	34	29	40	33	29	27	

9 | 48 37 30 25 | 47 36 30 25 | 35 29 25 |

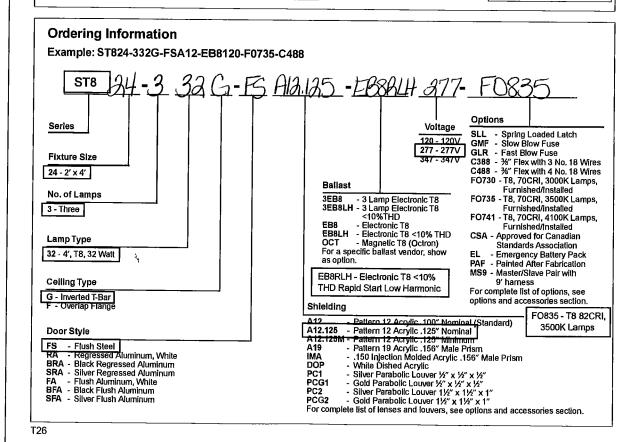
44 33 27 22 32 26

Zonal Summary										
Zone	Lumens	Lamp	Fixt.							
0-30	2211.	25.4	30.0							
0-40	3654.	42.0	49.6							
0-60	6235.	71.7	84.6							
0-90	7371.	84.7	100.0							
90-180	0.	0.0	0.0							
0-180	7371.	84.7	100.0							

45 34 27 22

10

Energy Data										
LER: FL-77 Energy Cost: \$3.12* Input Watts: 84 BF: .88										
The above energy calculations were conducted using a specific lamp/ ballast combination, Actual results may vary depending upon the lamp and ballast used, Lamp and ballast specifications are subject to change without notice, "Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.03 per KWH.										





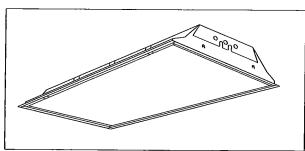
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: ST824-332G-FSA12.125-3EB8RLH-277-FO835

Notes:

Type:

A31

LEE07-6119



Cross Section

13¾"

2¼"

24"

24"

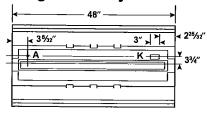
14½"

4¼"

24¾" × 49 5½"

Flanged cut out dimensions for single unit only: 24" x 481/8"

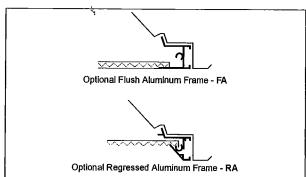
2' x 4' 3-Lamps Flanged



A - 3/8" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.



Complete ordering Information on back. Dimensions and specifications subject to change without notice.

ST824-332 SPECIFICATION GRADE T8 TROFFER 2' x 4', 3 T8 Lamps

Туре:		 	
Job Description:		 	

Features

- · Optical performance designed for T8 lamp technology.
- 2½" minimum spacing from bottom of lamp to bottom of lens.
- · Mechanical light seal.
- Attractive, post-painted door frame with positive action latches.
- · Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are installed.
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- Housing ends secured by unique corner interlock and screws.

Housing

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 15/6" T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pretreatment for maximum adhesion and rust resistance.

Shielding

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Labels

All fixtures carry the UL label. (CSA approval available. Use Suffix "CSA").

C-lumbia



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: ST824-332G-FSA12.125-3EB8RLH-277-FO835 Notes:

ST824-332G-FSA12-3EB8-PAF

Type:

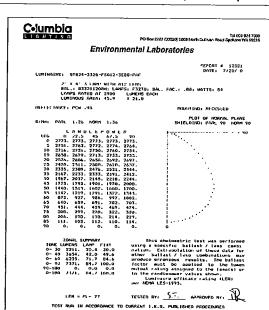
A31

LEE07-6119

ST824-332

2' x 4', 3 T8 Lamps

SPECIFICATION GRADE TROFFER

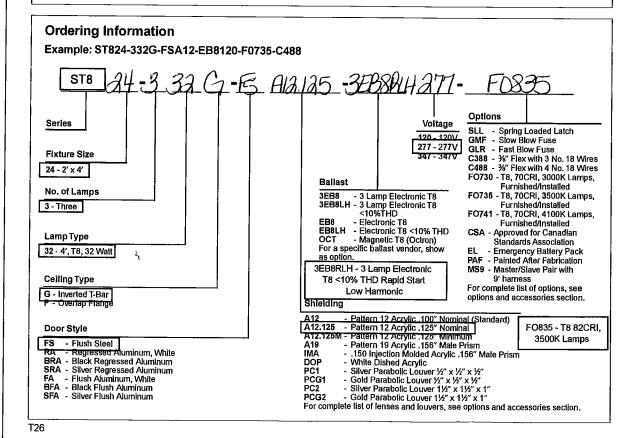


Report No. 12361				Efficiency: 84.7 S/N					MH: Pari 1,26 Norm 1.36				
	Coefficients of Utilization												
Zonal Cavity Method Floor Reflectance												лсе20)
RC	l	80	0		l	7	70			50		0	I
RW	70	50	30	10	70	50	30	10	50	30	10	0	l
1	93	90	87	84	91	88	85	83	84	82	80	75	1
2	86	80	75	71	84	78	74	70	75	72	68	64	ĺ
3	79	71	65	60	77	70	64	60	68	63	59	56	ı
4	73	64	57	52	71	63	57	52	61	55	51	48	ŀ
5	67	57	50	45	65	56	49	44	54	48	44	41	ı
6	62	51	44	39	60	50	44	39	49	43	38	36	ĺ
7	57	46	39	34	56	45	39	34	44	38	33	31	
8	52	41	34	29	51	41	34	29	40	33	29	27	
9	48	37	30	25	47	36	30	25	35	29	25	23	
10	45	34	27	22	44	33	27	22	32	26	22	21	
													,

Zonal Summary										
Zone	Lumens	Lamp	Fixt.							
0-30	2211.	25.4	30.0							
0-40	3654.	42.0	49.6							
0-60	6235.	71.7	84.6							
0-90	7371.	84.7	100.0							
90-180	0.	0.0	0.0							
0-180	7371.	84.7	100.0							

Energy Data
LER: FL-77 Energy Cost: \$3.12* Input Watts: 84 BF: ,88
The above energy calculations were conducted using a specific lamp/ ballast combination, Actual results may vary depending upon the lamp and ballast used, Lamp and ballast specifications are subject to change without actions.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0,08 per KWH.





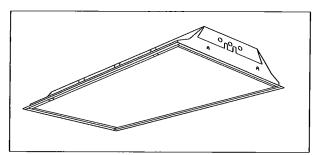


Catalog Number: ST824-332G-FSA12.125-3EB8RLH-277-FO835-GTD BY LEESMAN FACTORY INSTALLED

Notes:

Type: A31GTD

LEE07-6119



ST824-332 SPECIFICATION GRADE **T8 TROFFER** 2' x 4', 3 T8 Lamps

Job Description: _

- Optical performance designed for T8 lamp technology.
- . 21/6" minimum spacing from bottom of lamp to bottom of
- · Mechanical light seal.
- · Attractive, post-painted door frame with positive action
- · Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- · Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- · Housing ends secured by unique corner interlock and

Housing

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 15/16" T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

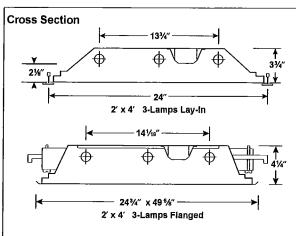
Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pretreatment for maximum adhesion and rust resistance.

Shielding

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

All fixtures carry the UL label. (CSA approval available, Use Suffix "CSA").



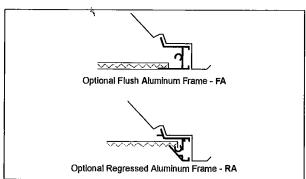
Flanged cut out dimensions for single unit only: 24" x 48\%"



A - 1/4" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.



Complete ordering information on back. Dimensions and specifications subject to change without notice



Catalog Number:

ST824-332G-FSA12.125-3EB8RLH-277-FO835-GTD BY LEESMAN FACTORY INSTALLED

ST824-332G-FSA12-3EB8-PAF

Notes:

Type:

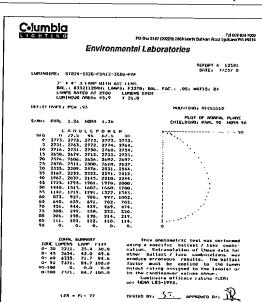
A31GTD

LEE07-6119

ST824-332

2' x 4', 3 T8 Lamps

SPECIFICATION GRADE TROFFER



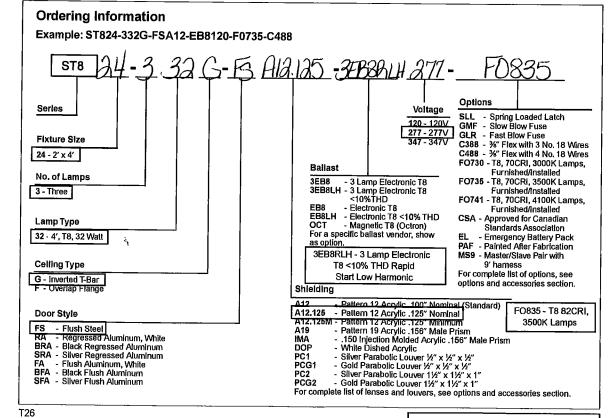
TEST RUN IN ACCORDANCE TO CURRENT I.E.S. PUBLISHED PROCEDURES

	Report No: 12581				Effic	Efficiency: 84.7 S/I					MH: Parl 1.26 Norm 1.36			
Zonal Cavity Method Coefficients of Utilization Floor Reflectance20)	
	RC		8	0			7	70		50			0	1
	RW	70	50	30	10	70	50	30	10	50	30	10	0	ı
	1	93	90	87	84	91	88	85	83	84	82	80	75	1
	2	86	80	75	71	84	78	74	70	75	72	68	64	ı
	3	79	71	65	60	77	70	64	60	68	63	59	56	l
	4	73	64	57	52	71	63	57	52	61	55	51	48	l
	5	67	57	50	45	65	56	49	44	54	48	44	41	
	6	62	51	44	39	60	50	44	39	49	43	38	36	ı
	7	57	46	39	34	56	45	39	34	44	38	33	31	
	8	52	41	34	29	51	41	34	29	40	33	29	27	
	9	48	37	30	25	47	36	30	25	35	29	25	23	ı
	10	45	34	27	22	44	33	27	22	32	26	22	21	

Zonal Summary										
Zone	Lumens	Lamp	Fixt.							
0-30	2211.	25.4	30.0							
0-40	3654.	42.0	49.6							
0-60	6235.	71.7	84.6							
0-90	7371.	84.7	100,0							
90-180	0.	0,0	0.0							
0-180	7371.	84.7	100.0							

Energy Data LER: FL-77 Energy Cost: \$3,12* Input Watts: 84 BF: ,88 The above energy calculations were conducted using a specific lamp/ ballast combination, Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change

without notice,
'Comparative annual lighting energy
cost per 1000 lumens based on 3000
hours and \$0.08 per KWH.



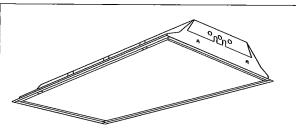
C-lumbia

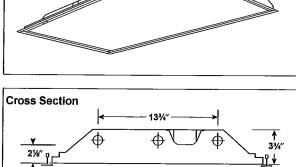
GTD BY LEESMAN FACTORY INSTALLED

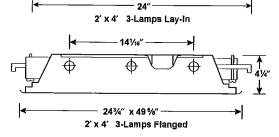


Catalog Number: ST824-332G-FSA12.125-24EB8RLH-277-FO835-MS9 Notes: Туре: **АЗ2**

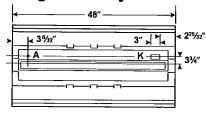
LEE07-6119







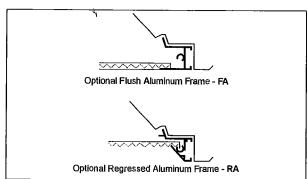
Flanged cut out dimensions for single unit only: 24" x 48%"



A - 3/8" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.



Complete ordering information on back. Dimensions and specifications subject to change without notice.

ST824-332 SPECIFICATION GRADE T8 TROFFER 2' x 4', 3 T8 Lamps

Туре:	
Job Description:	

Features

- · Optical performance designed for T8 lamp technology.
- 2½" minimum spacing from bottom of lamp to bottom of lens.
- · Mechanical light seal.
- Attractive, post-painted door frame with positive action latches.
- · Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are installed.
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- Housing ends secured by unique corner interlock and screws.

Housing

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard '5/6" T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

Shielding

100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Labels

All fixtures carry the UL label. (CSA approval available. Use Suffix "CSA").

C-lumbia



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: ST824-332G-FSA12.125-24EB8RLH-277-FO835-MS9 Notes:

Type:

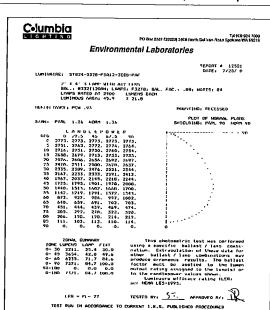
A32

LEE07-6119

ST824-332

2' x 4', 3 T8 Lamps

SPECIFICATION GRADE TROFFER



ST824-332G-FSA12-3EB8-PAFReport No: 12681 Efficiency: 84.7

Efficiency: 84.7 S/MH: Parl 1.26 Norm 1.36

Zonal C	Zonal Cavity Method Floor Reflectance20												
RC		- 8	0			7	70		50			0	1
RW	70	50	30	10	70	50	30	10	50	30	10	0	ı
1	93	90	87	84	91	88	85	83	84	82	80	75	1
2	86	80	75	71	84	78	74	70	75	72	68	64	ı
3	79	71	65	60	77	70	64	60	68	63	59	56	l
4	73	64	57	52	71	63	57	52	61	55	51	48	ı
5	67	57	50	45	65	56	49	44	54	48	44	41	l
6	62	51	44	39	60	50	44	39	49	43	38	36	
7	57	46	39	34	56	45	39	34	44	38	33	31	ı
8	52	41	34	29	51	41	34	29	40	33	29	27	ļ
9	48	37	30	25	47	36	30	25	35	29	25	23	ı
10	45	34	27	22	44	33	27	22	32	26	22	21	l

Zonal Summary

Zone	Lumens	Lamp	Fixt.
0-30	2211.	25.4	30.0
0-40	3654.	42.0	49,6
0-60	6235.	71.7	84.6
0-90	7371.	84.7	100.0
90-180	0.	0.0	0.0
0-180	7371.	84.7	100.0

Energy Data

LER: FL-77 Energy Cost: \$3,12*

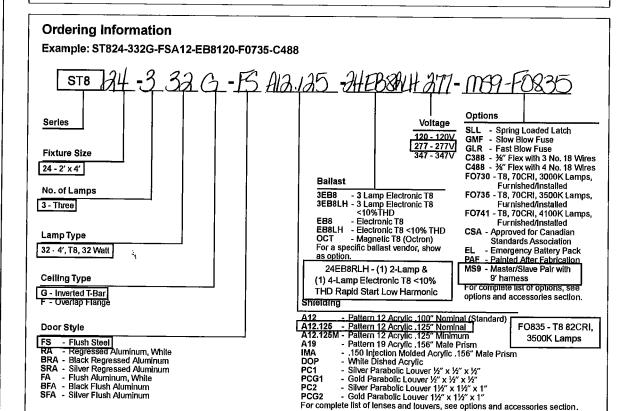
BF: ,88

Input Watts: 84

The above energy calculations were conducted using a specific lamp/ ballast combination, Actual results may vary depending upon the lamp and ballast used, Lamp and ballast specifications are subject to change without notice

without notice.

'Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.





Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: ST824-332G-FSA12.125-24EB8RLH-277-FO835-MS9-GTD BY LEESMAN FACTORY INSTALLED

Notes:

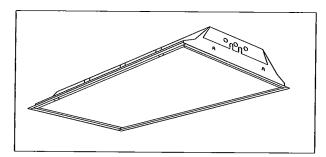
Type: A32GTD

LEE07-6119

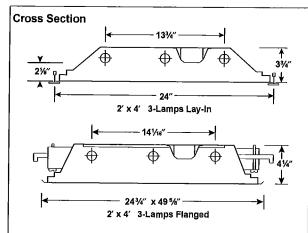
ST824-332

T8 TROFFER

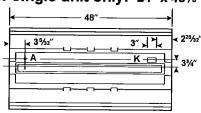
SPECIFICATION GRADE



2' x 4', 3 T8 Lamps Job Description: _



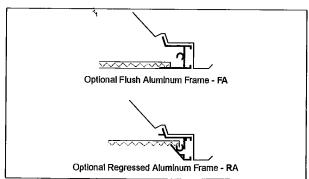
Flanged cut out dimensions for single unit only: 24" x 48%"



A - 1/3" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for ventication.



Complete ordering information on back. Dimensions and specifications subject to change without notice.

- Optical performance designed for T8 lamp technology.
- 2½" minimum spacing from bottom of lamp to bottom of lens.
- Mechanical light seal.
- · Attractive, post-painted door frame with positive action
- · Spring loaded latches optional.
- Rolled fixture edges reduce risk of injury during fixture handling and installation.
- Integral T-bar clips quickly secure fixture to grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are
- Corner hinging for easy insertion and removal of door frame from either side.
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches.
- · Housing ends secured by unique corner interlock and

Housing

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 15/16" T-bar ceilings. Integral T-bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, magnetic or electronic ballasts.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pretreatment for maximum adhesion and rust resistance.

Shielding
100% clear prismatic acrylic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

All fixtures carry the UL label. (CSA approval available, Use Suffix "CSA").

C•lumbia



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number:

ST824-332G-FSA12.125-24EB8RLH-277-FO835-MS9-GTD BY LEESMAN FACTORY INSTALLED

ST824-332G-FSA12-3EB8-PAF

Notes:

Type:

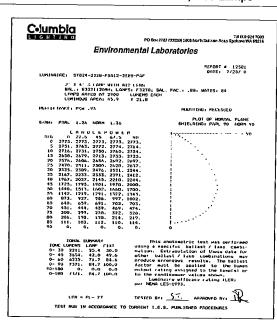
A32GTD

LEE07-6119

ST824-332

2' x 4', 3 T8 Lamps

SPECIFICATION GRADE TROFFER



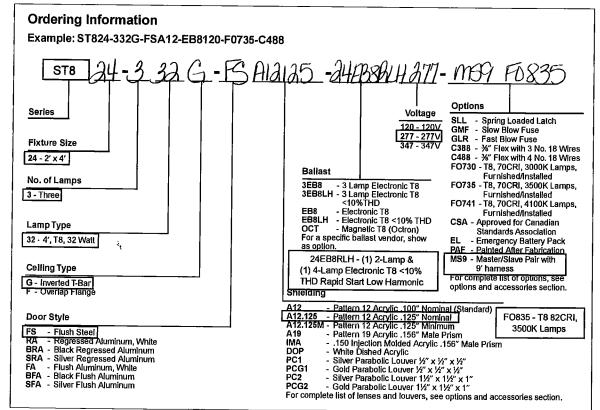
	Report No: 12581			Effic	ciency: 84.7 S/			MH: Parl 1,26 Norm 1,36						
	Zonal Cavity Melhod Coefficients of Utilizati									Floor R	eflecta	ince20)	
	RC	1	8	ם כ			7	70		I	50		0	Ì
	RW	70	50	30	10	70	50	30	10	50	30	10	Ō	l
	1	93	90	87	84	91	88	85	83	84	82	80	75	ĺ
	2	86	80	75	71	84	78	74	70	75	72	68	64	ı
	3	79	71	65	60	77	70	64	60	68	63	59	56	ı
	4	73	64	57	52	71	63	57	52	61	55	51	48	
	5	67	57	50	45	65	56	49	44	54	48	44	41	ł
ı	6	62	51	44	39	60	50	44	39	49	43	38	36	
	7	57	46	39	34	56	45	39	34	44	38	33	31	
	8	52	41	34	29	51	41	34	29	40	33	29	27	
-	9]	48	37	30	25	47	36	30	25	35	29	25	23	
Į	10	45	34	27	22	44	33	27	22	32	26	22	21	

Zonal Summary Zone Lumens Lamp Fixt. 2211. 3654. 0 - 3025.4 30,0 0-40 42.0 49.6 0-60 0-90 6235. 71.7 84.7 7371. 100.0 90-180 0.0 7371. 0-180 84.7 100.0

Energy Data LER: FL-77 Energy Cost: \$3.12* Input Watts: 84 BF: .88 The above energy calculations were conducted using a specific lamp/ ballast combination. Actual results may vary depending upon the lamp and ballast used, Lamp and ballast specifications are subject to change

without notice.

'Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH,



T26



GTD BY LEESMAN FACTORY INSTALLED

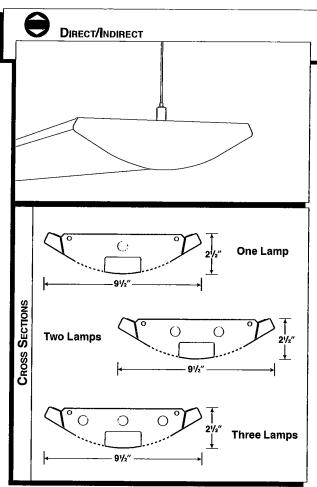


Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: CV-2T5-PERF-PM 18" FEED/CM 18" NON FEED-EB5277-MW-8-L/R

Notes:

Туре: **В28**

LEE07-6119



Project:

CONSTRUCTION

Location:

Cûrv

The Cûrv series is constructed of heavy 20-gauge perforated steel with a 9½" x 2½" profile. The perforations measure .0625" in diameter and provide a 23% opening per square inch (refer to the TID sheet for an illustration) and have a white acrylic diffuser overlay. Fixtures are available with up to three T5 or T5HO lamps. The exact shape of the housing is maintained by the use of an inner die cast plate at each fixture end. The housing is designed to wrap around the plate and secures on top with concealed screws to ensure housing tolerances are consistent. These die cast aluminum end caps and aligners provide zero tolerance alignment between fixtures, resulting in consistently straight rows with no snaking. The luminaire comes standard with a painted white steel reflector with specular inserts on the sides. A high efficiency reflector (HRF) option is constructed of high reflectance specular material and allows for wide distribution with maximum efficiency. An economical painted white reflector (WR) is available.

FINISH

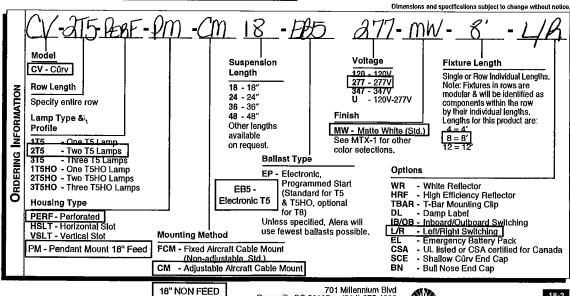
The housing and all painted parts are treated with a multi-stage phosphate bonding process before being finished. Parts are then finished with a white RAL powder coal finish for maximum consistent coverage and longevity.

MOUNTING

The Cûrv Is designed for ceiling suspension and is provided with an aircraft cable suspension mechanism. The fixed cable has a total vertical adjustment of 1½". End of cable barrel screws into a standard 20 both brought down from the ceiling. Cover plates are provided to shield the ceiling cutout. A straight or optional coil cord is available for feed locations. A feed canopy is provided for each feed location, Alf lixtures are suspended in modular increments and must be supported at each fixture-housing end. Refer to the Cûrv TID sheet for actual hangling points for specific row information.

LABELS AND ELECTRICAL

All fixtures bear appropriate UL or CSA labels. Fixtures are prewired with small case electronic T5 or T5HO ballasts and are available in 120, 277, or 347 volt. All fixtures are wired for single circuit operation, but additional circuits can be supplied as an option by designating IBOB or LR switching.



JBBELL Hubbell Lighting, Inc.

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Catalog Number: CV-2T5-PERF-PM 18" FEED/CM 18" NON FEED-EB5277-MW-8-L/R

Notes:

Type:

B28

LEE07-6119

PHOTOMETRICS

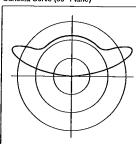
CV, Cûrv

STANDRAD REFLECTOR

AMP ONE

Cat. No.: CV-1T5HO-PERF-E Lamps: One FP54/835/HO Ballasts: QT1X54/120PHO Test No.: ITL51565 Efficiency: 98,9%

Candela Curve (90° Plane)



CAND	LEPOWE	R	
Deg.	Parl.	45·	Norm.
0	3	3	3
5	4	3	2
15	3	6	6
25	2	6	5
35	2	4	3
45	1	2	2
55	0	2	2
65	0	0	ō
75	0	0	Ō
85	0	Ó	Ō
90	0	Ó	ō
95	36	170	76
105	186	1074	1126
115	367	1036	1688
125	541	815	1274
135	700	867	1023
145	827	927	1021
155	929	976	1027
165	997	1010	1027
175	1031	1026	1027
180	1027	1027	1027
ENERG	Y DATA		

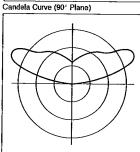
ENERGY DATA						
Energy Cost: \$2,86*	LER: 84					
Input Watts: 59.2	BF: 1,0					
*Comparative annual ligh	*Comparative annual lighting					
energy cost per 1000 lumens based						
on 3000 hours and \$0,08	per KWH.					

COE	FFICIE	NTS	of Ü	TILIZA	TION		Effective Floor Cavity Reflectance = 0.2				0.20	
RC		- 1	B0			7	70		1	50		10
RW	70	50	30	10	70	50	30	10	50	30	10	0
- 1	86	82	78	75	73	70	67	65	48	46	45	0
2	78	71	66	61	66	61	57	53	42	39	37	0
3	71	63	56	51	60	54	48	44	37	34	31	0
4	65	55	48	43	55	47	41	37	33	29	26	0
5	59	49	41	36	50	42	36	31	29	25	22	0
6	54	43	36	31	46	37	31	27	26	22	19	١.
7	50	39	32	27	42	33	27	23	23	19	16	0
8	46	35	28	23	39	30	24	20	21	17	14	0
9	43	32	25	20	36	27	22	18	19	15	13	0
10	40	29	22	18	34	25	19	16	17	14	11	0

ZONAL SUMMARY							
Zone	Lumens	Lamp	Fixture				
0-30	4	0,1	0.1				
0-40	6	0.1	0,1				
0-60	9	0.2	0,2				
0-90	10	0.2	0.2				
90-120	2070	41,4	41.8				
90-130	2853	57,1	57,7				
90-150	4102	82,0	82.9				
90-180	4936	98.7	99.8				
0-180	4946	98.9	100.0				

REFLECTOR LAMP HIGH EFFICIENCY

Cal. No.: CV-1T5HO-PERF-EP-HRF Lamps: One F54T5 Ballasts: QT1X54/120PHQ Test No.: 12987 Efficiency: 99.2



CANDLEPOWER							
Deg.	Parl.	45:	Norm,				
l o	3	3	3				
5	3	3	3				
15	3	3	3				
25	3	3	3				
35	3	3	3				
45	3 2	3	3				
55	2	2	2				
65	1	2	2				
75	1	ï	2				
85	1	1	1				
90	3	ż	i				
95	24	163	105				
105	89	1006	952				
115	173	1110	1634				
125	262	843	1504				
135	345	813	1079				
145	417	755	963				
155	472	684	816				
165	510	611	671				
175	530	544	552				
180	531	531	531				
ENERGY DATA							
E							

ENERGY DATA						
Energy Cost: \$3,38*	LER: 71					
Input Watts: 61	BF: 1,00					
	*Comparative annual lighting					
energy cost per 1000 lumens based						
on 3000 hours and \$0,08 per KWH,						

CANDLEPOWER

COE	COEFFICIENTS OF UTILIZATION							Effective Floor Cavity Reflectance = 0.2				0.20
RC		- 1	30				0		1	50		0
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	86	82	78	75	73	70	67	65	48	46	45	0
2	78	72	66	61	67	61	57	53	42	39	37	0
3	71	63	56	51	61	54	48	44	37	34	31	0
4	65	55	48	43	55	47	42	37	33	29	26	0
5	59	49	42	36	50	42	36	31	29	25	22	0
6	54	43	36	31	46	37	31	27	26	22	19	0
7	50	39	32	27	43	33	27	23	23	19	16	0
8	46	35	28	23	39	30	24	20	21	17	14	0
9	43	32	25	20	36	27	21	18	19	15	12	0
10	40	29	22	18	34	25	19	15	17	13	11	0

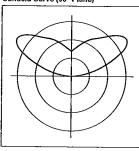
ZONAL SUMMARY							
Zone	Lumens	Lamp	Fixture				
0-30	3	0.1	0.1				
0-40	4	0.1	0.1				
0-60	8	0.2	0,2				
0-90	13	0.3	0,3				
90-120	1963	44.6	45,0				
90-130	2760	62,7	63.2				
90-150	3818	86.8	87.5				
90-180	4353	98,9	99.7				
0-180	4366	99,2	100.0				

REFLECTOR LAMP HIGH EFFICIENCY

ONE

Cat. No.: CV-2T5HO-PERF-EP-HRF Lamps: Two F54T5 Ballasts: QT2X54/120PHO Test No.: 12933 Efficiency: 97.9

Candela Curve (90 Plane)



Deg.	ParL	45°	Norm.
0	7	7	7
5		7	6
15	7 7	7	6
25	7	6	7
35	6	6	7 5
45	5	5	6
55	4		6 5
65	2	5 4 2	5
75	2	2	3
85	i	2	2
90	2	2	2
95	60	265	219
105	207	1300	1387
115	391	2207	2390
125	579	2106	3027
135	756	1837	2635
145	905	1694	2147
155	1022	1529	1816
165	1105	1355	1496
175	1148	1190	1216
180	1155	1155	1155
ENERG	Y DATA	1	

ENERGY DATA						
Energy Cost: \$3,38*	LER: 71 BF: 1.00					
Input Watts: 121	BF: 1,00					
*Comparative annual ligh						
energy cost per 1000 lumens based						
80.0\$ and \$0.08 on 3000 no	per KWH,					

RC I			10	TILIZAT	1		_	0410.10	or Cavity		aico =	-
RW	70	50	30	10	70	50	0 30	10	50	50 30	10	0
1	85	81	77	74	72	69	66	64	47	46	44	١,
2	77	71	65	61	66	60	56	52	42	39	37	0
3	70	62	55	50	60	53	48	44	36	33	31	0
4	64	54	47	42	54	47	41	37	32	29	26	0
5	59	48	41	36	50	41	35	31	29	25	22	lo
6	54	43	36	30	46	37	31	27	25	22	19	١,
7	49	38	31	26	42	33	27	23	23	19	16	۱ ۵
8	45	34	27	23	39	30	24	20	21	17	14	۱,
9	42	31	24	20	36	27	21	17	19	15	12	0
10	39	28	22	17	33	24	19	15	17	13	11	٥

ZONAL SUMMARY						
Zone	Lumens	Lamp	Fixture			
0-30	6	0.1	0,1			
0-40	9	0.1	0.1			
0-60	17	0,2	0.2			
0-90	25	0.3	0.3			
90-120	3236	36.8	37,6			
90-130	4989	56,7	57,9			
90-150	7405	84,2	86,0			
90-180	8587	97,6	99,7			
0-180	8612	97,9	100.0			

Two.∣



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Subject to change without notice,



HUBBELL Hubbell Lighting, Inc.

AL 09/07



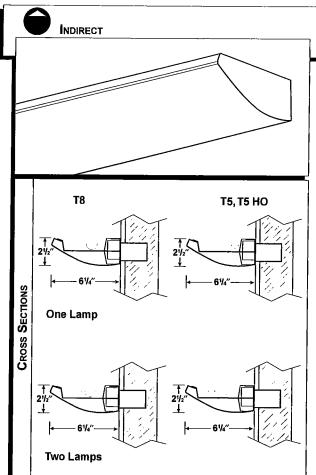
Catalog Number:

CV-2T5-PERF-WM-EB5277-MW-8

Notes:

Type: **B28W**

LEE07-6119



Cûrv WALL MOUNT

Project:

Location: Construction

The Cûrv is constructed of heavy 20-gauge perforated or solid steel with a 61/4" x 21/2" profile. Perforated sections include a hole pattern that measures .0625" in diameter, provides 23% opening per square inch (refer to the TID sheet for an illustration), and has a white acrylic diffuser overlay.

Fixtures are available with one or two T5, T5 HO, or T8 lamps. The housing is designed to wrap around the inner die cast plate and secure on top with concealed screws to ensure housing tolerances are consistent. Die cast aluminum endcaps and inner end plates have a tongue and groove connection eliminating the possibility of light leak and ensuring straight rows.

FINISH

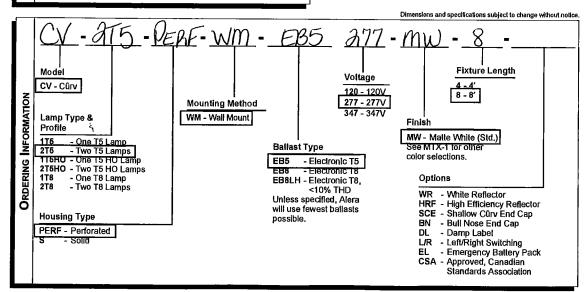
The housing and all painted parts are treated with a multi-stage phosphate bonding process before being finished, Parts are then finished with a white RAL powder coat finish for maximum consistent coverage and longevity.

MOUNTING

The Cûrv mounts directly to and is flush with the wall. A 1¾" x 3" cutout is provided in the unit to mount to a junction box. A cover plate is used to cover the exposed junction box. Keyhole slots on the back of the unit provide additional support. Consult the Installation Sheet for exact dimensions and location of holes and slots.

LABELS AND ELECTRICAL

All fixtures bear appropriate UL or CSA labels. Fixtures are prewired with electronic T5, T5 HO, or T8 ballasts and are available in 120, 277, or 347 volt. All fixtures are wired for single circuit operation, but left/ right circuits can be added as an option.









Catalog Number:

COEFFICIENTS OF UTILIZATION

CV-2T5-PERF-WM-EB5277-MW-8

Notes:

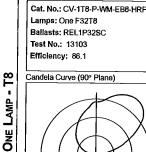
Type:

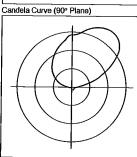
B28W

LEE07-6119

PHOTOMETRICS

CV, CûRV, WALL MOUNT





CANDL	EPOWER		
Deg.	Parl.	45°	Norm.
0	10	10	10
5	10	10	10
15	9	11	12
25	8	11	13
35	7	11	17
45	5	14	19
55	3	14	17
65	2	12	13
75	1	7	9
85	1	4	5
90	1	2	3
95	43	67	71
105	197	290	262
115	319	419	553
125 135	401	473	720
145	448 486	515	789
155	502	535 535	783
165	502	518	711 622
175	489	491	511
180	488	488	488
100	700	730	400

	35	448	515	789	∠ ONAL	. SUMMAF	₹Y	
	45 55	486 502	535 535	783 711	Zопе	Lumens	Lamp	Fixtur
	65 75	503 489	518 491	622 511	0-30	7	0.3	0,:
	80	488	488	488	0-40	13	0.4	0.
_	_			700	0-60	27	0.9	1,
	VERG	Y DATA	1		0-90	42	1.5	1.
En	ergy	Cost: \$3	.64" LE	ER: 66	90-120	788	27.2	31.
line	out W	atts: 38	В	F: 1.00	90-130	1235	42.6	49.
		ative annu			90-150	2002	69.0	80.3
		st per 10			90-180	2455	84.7	98.
		nours and			0-180	2497	86.1	100.0
							_	

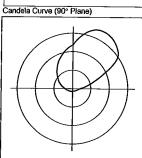
Zone Lumens Lamp

Lumens Lamp

0.2 0.3 0.4 1.0 27.0 39.1 59.3 71.9 72.9

64	61	59	57	42	41	39	1
58	53	50	46	37	35	33	1
53	47	42	38	32	30	27	1
48	41	36	32	29	25	23	1
44	37	31	27	25	22	19	0
40	33	27	23	23	19	17	0
37	29	24	20	20	17	14	0
34	26	21	17	18	15	12	0
32	24	19	15	17	13	11	0
29	21	17	13	15	12	10	0
	Lui	MINA	ICE SI	JMMAR	Y	Footlam	berts
ure	Deg	ree	Parl	. 4	5	Norm	_
0.3	5	5	34	14	18	178	
0.5	6	0	28	16	32	183	
1,1	6	5	25	16	37	184	
1.7	1 7	0	31	16	35	196	
					• 4		
	7	5	20	16	9	205	
9.5	8	0	20 20	16 20		205 224	
		0)3		

Cat. N	No.: CV-2T8-P-WM-EB8-HRF
Lamp	s: Two F32T8
Balla	sts: REL2P32SC
Test I	No.: 13104
Effici	ency: 81.9
EHICK	ency: 81.9
Candel	a Curve (90° Plane)



CANDL	EPOWER		
Deg.	Parl.	45°	Norm.
0	38	38	38
5	38	40	40
15	35	44	46
25	31	44	50
35	26	42	54
45	19	42	56
55	12	40	50
65	8	32	39
75	4	20	27
85	2	11	15
90		8	10
95	56	97	99
105	252	395	344
115	462	794	753
125	660	1104	1134
135	839	1272	1390
145	988	1326	1485
155	1104	1351	1443
165	1185	1305	1358
175	1227	1245	1236
180	1228	1228	1228
ENER	GY DAT	Α	
Energy	Cost: \$	2.96* L	ER: 81

165 1185 1305 1358 175 1227 1245 1236 180 1228 1228 1228	0-30 0-40	29 48
ENERGY DATA	0-60 0-90	90 132
Energy Cost: \$2.96* LER: 81 Aput Watts: 59 BF: 1.00 Comparative annual lighling nergy cost per 1000 lumens based n 3000 hours and \$0.08 per KWH.	90-120 90-130 90-150 90-180 0-180	1106 1930 3557 4619 4751

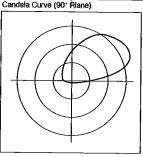
RC		_	30			7	0		1	50		
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	71	68	65	62	61	59	56	54	41	39	38	2
2	65	59	55	51	56	51	47	44	36	33	31	1
3	59	52	47	42	51	45	40	37	31	28	26	1
4	54	46	40	35	46	40	35	31	28	25	22	1 1
5	49	41	34	30	42	35	30	26	24	21	19	1
6	45	36	30	26	39	31	26	22	22	19	16	1 1
7	41	32	26	22	35	28	23	19	20	16	14	lι
8	38	29	23	19	33	25	20	17	18	14	12	ĺι
9	35	26	20	17	30	23	18	15	16	13	10	0
10	33	24	18	15	28	21	16	13	14	11	9	ا

┚	LUMINAN	Footlamberts		
<u>.</u>	Degree	Parl.	45-	Norm.
;	55	119	410	517
н	60	108	433	527
H	65	106	445	545
1	70	89	440	564
1	75	91	454	618
1	80	68	515	704
	85	135	756	1026

오	
- T5	
LAMP	
ONE O	

TWO LAMP

Cat. No.: CV-1T5HO-P-WM-EB5-W	R
Lamps: One F54T5	
Ballasts: ICN2S54SC	
Test No.: 13174	
Efficiency: 72.9	
Candela Curve (90° Rlane)	



CANDL	EPOWER			H	COE	FFICIE	NTS (OF
Deg.	Parl.	45°	Norm.	Ŋſ	RC			80
0	9	9	9	L	RW	70	50	3(
5	9	9	9	П	1	63	60	58
15	9 8 7	10	11	H	2	57	53	48
25 35	7 6	10 10	11	Ш	3	52	46	41
45			11	П	4	48	41	35
55	4 2	8 7	9	Н	5	44	36	30
65	1	5	16	Н	6	40	32	26
75	0	19	28	П	7	37	29	23
85 90	1	16 13	13 62	Н	a l	34	26	20
95	34	357	299	П	او	31	23	18
105	142	866	998	П	- 1			
115	254	997	1267	L	10	29	21	16
125	360	1019	1302	l٢	7			
135	454	1020	1252	ı	ZON.	AL SU	MMA	₹Y
145 155	532 592	985 915	1174 1052	ſ	Zon	e Lui	nens	L
165	633	821	894	h				
175	655	717	731	П	0-3		7	
180	658	658	658	1	0-4		11	

180 658 658 658	0-40
ENERGY DATA	0-90
Energy Cost: \$4.44* LER: 54	90-120
Input Watts: 60 BF: 1.00	90-130
*Comparative annual lighting	90-150
energy cost per 1000 lumens based	90-180
on 3000 hours and \$0,08 per KWH,	0-180

COE	FFICIE	NTS (of U	TILIZA	TION		Effective Floor Cavity Reflectance = 0,20						
RC			30			70				50			
RW	70	50	30	10	70	50	30	10	50	30	10	Ó	
1	63	60	58	55	54	52	50	48	36	34	33	1	
2	57	53	48	45	49	45	42	39	31	29	27	l٥	
3	52	46	41	37	45	40	36	32	27	25	23	10	
4	48	41	35	31	41	35	31	27	24	21	19	16	
5	44	36	30	26	37	31	26	23	21	19	16	١ò	
6	40	32	26	23	34	27	23	20	19	16	14	6	
7	37	29	23	19	31	25	20	17	17	14	12	١ŏ	
8	34	26	20	17	29	22	18	15	15	13	10	0	
9	31	23	18	15	27	20	16	13	14	11	9	0	
10	29	21	16	13	25	18	14	11	13	10	8	ō	

	LUMINAN	LUMINANCE SUMMARY								
Fixture	Degree	Parl.	45-	Norm.						
0.2	55	25	73	94						
0.3	60	25	67	91						
0,6	65	20	69	216						
1.4	70	12	109	413						
37.0	75	8	434	627						
53.7	80	0	886	742						
81.4 98.6	85	24	1097	859						
100.0										



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HUBBELL Hubbell Lighting, Inc.

AL 06/02

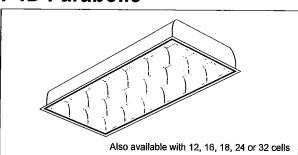


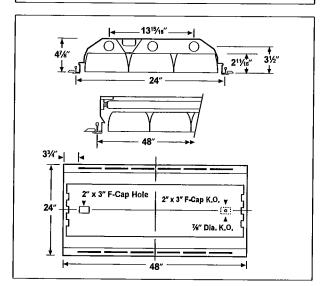
Catalog Number: P4D24-332G-MA36-S-EB8RLH277-FO835 Notes:

Type:

LEE07-6119

P4D Parabolic





Ceiling Compatibility Type G For lay-In installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed. For flange kit wires directly into concealed ceiling opening for a clean, finished appearance. FKCR For flange fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row, cannot be considered the content of fixtures in row configurations. Row cut out dimensions using FK24s & FKCR adapters: Wdth 24%*, Length [48"x(# in row)]+%*. Example: (48"x2)+%"=96%"

Flange kit cut out dimension for single unit only: 24\%" x 48\%" Complete ordering Information on back. Dimensions and specifications subject to change without notice.

P4D24-3

2' x 4' Parabolic 3 Lamp, 18 Cells

Type: _______
Job Description: ______

Features

- Nominal 3" deep parabolic louver provides excellent glare control and maintenance-free operation.
- Duratouver^m anodized aluminum louver resists dents and scratches, holds shape, and maintains precision performance over the life of the louver.
- Matte anodized low iridescent semi-specular aluminum (MA) louver finish (standard) virtually eliminates visibility of fingerprints and construction dust.
- Proper lamp position provides maximum efficiency with controlled widespread distribution.
- Shallow 4%" housing height allows installation in restricted ceiling areas.
- · Lightweight and contractor friendly, for ease of installation.
- Full black reveal provides floating louver appearance and full air handling capability.

Construction

Luminaire housing and end caps are die formed code gauge cold rolled steel. Louver is formed from DuraLouver™ anodized aluminum and secured in open or closed position by die formed steel hinges. Louver hinges from either side. Mechanical light trap prevents light leaks. Latches are finger-tip actuated, positive feed type, fabricated of spring steel, and completely concealed in the black reveal.

Finish

Parts are treated with a five stage phosphate bonding process and finished with a high temperature baked white enamel. For post painted housing, suffix catalog number with PAF. Regressed slots are flat black. Anodized aluminum DuraLouver standard finish is matte anodized low iridescent (MA). Also available in low-iridescent semi-specular natural anodized aluminum (LD) or low-iridescent specular aluminum (LS).

Air Handling

All supply/return and air extract functions are shown on the reverse side of this sheet and are available as a specified option. Directional control vanes and/or extract dampers must be specified. Air extract slots are located out of sight in end caps. Air removal data is on reverse side of sheet.

Installation

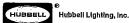
For fast wiring connections without the necessity of opening fixture or wireway, an adapter plate is furnished with each luminaire. A plastic dust cover which eliminates construction dust and protects the lamps is provided as standard.

Labels & Electrical

All luminaires are listed with UL and bear UL recessed fixture labels. Damp label is available. Completely wired with class "P" thermally protected, resetting, HPF, CBM, energy efficient ballast. Sound rated "A". All ballast leads extend a minimum of 6" through the access plate. Standard wiring is inboard/outboard.

Ceiling Compatibility

Luminaire is available to fit most standard ceiling types as shown at left. For information on compatibility with specific ceilings, contact your Columbia representative. Four integral T-bar clips are provided for static (-S), air supply/return (-A) and air supply/return with control vanes (-AV). Two non-integral T-bar clips are provided for use with all other air functions. Four non-integral T-bar clips are available as an option.







Cincinnali Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: P4D24-332G-MA36-S-EB8RLH277-FO835 Notes:

Type:

0

60

52 46

22 19

VCP

75

LEE07-6119

Floor Reflectance - .20

10

73 68

63 55 48

50

Luminaires

85

50 30

76

82 78 75

86

87 82 76 71 77

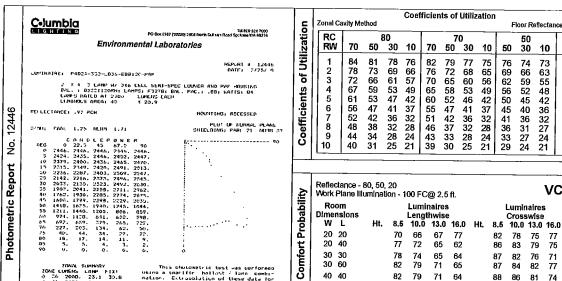
88 86 81 74

88 86 83 77

88 85 80 73

88 87 87 83

88



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I wainaire officer rating (LER) per MEMA LES-193.

LER = FP- 68 TEBTEO BY, S.T. APPROVED BY, TR TEST IN IN AFFORDANCE TO CURRENT L.E.S. PUBLISHED PROCEDURES

Visual

Extract Air

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Data

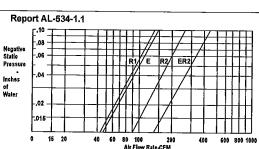
30 60

40 40

40 60

60 30

60 40



Coefficients of Utilization

50 30 10

10 70

Luminaires

71 65

74 67

76

70 66 67 77

77 72 65

82

83 81 74 67

79 76 80 71 69

82

74 79 65 64

79 71 64

82

Return R1 - Air Return thru One Side Passage

E - Heat Extract thru Lamp Compartment ER2 - Thru Both Sides and Lamp Compartment

LER: FP-68 Input Watts: 84

Data

Energy [

ONE TOWN SIRMARY

ONE TOWN SIRMARY

ONE TOWN SIRMARY

TO 70000 23.1 30.8

-40 7480. 40.0 53.2

-40 6719. 69.2 92.2

90 8527. 75.0 100.0

100 6527. 75.0 100.0 70NAL S 20NE LUMENS 0 76 2008. 1- 40 7480. 0- 60 6019. 0- 90 6527.

> Energy Cost: \$3.53* BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.

Ordering Information	Model P4D - P4D, Duralouver Parabolic Fixture Size 24 - 2' x 4' No. of Lamps 3 - 3 Lamps Lamp Type 32 - 4', 32 Watt, T8 40 - 4', 40 Watt, T12	No. Cells Lengthwise 6 - Six 8 - Eight No. Cells Crosswise 2 - Two 3 - Three 4 - Four Louver Finish No. Cells EB8 L - En EB8 L + Six 3EB8 - 3-1 24EB8 - (1) 24EB8LH - (1) 24EB8LH - (1)	Voltage 120 - 120V 277 - 277V 377 - 277V UNV - 120V/277V (T8 w/LH only) Lergy Saving Magnelic T12 setronic T8 setronic T8 < 10% THD .amp Electronic T8 < 10% THD .2-Lamp & (1) 4-Lamp setronic T8 (for MS9) 2-Lamp & (1) 4-Lamp setronic T8 (for MS9) 12-Lamp & (1) 4-Lamp setronic T8 (for MS9) 12-Lamp & (1) 4-Lamp setronic T8 (for MS9) 13-Lamp & (1) 4-Lamp setronic T8 (for MS9)	PUBLISH OF THE LAMB OF THE LAM
	Ceilling Type G - Inverted T-Bar (For hard ceilings use flange kit; see options)	Semi-Specular (Std.) LD - Low Indescence Semi-Specular LS - Low Indescence Specular Aluminum 'Fixtures supplied 'Fixtures supplied		CVD - Combination supply vames extract dampers ² H - Heat extract ² HD - Heat extract w/dampers ²
P36.	2			CO 06/02

C•lumbia LIGHTING

EB8RLH - Electronic T8 <10% THD Rapid Start Low Harmonic

3808 N Sullivan Rd, Bldg. 29 • Spokane, WA 99216 • (509) 924-7000 • www.columbialighting.com

FO835 - T8 82CRI, 3500K Lamps



Hubbell Lighting, Inc.



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

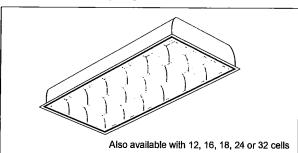
Catalog Number: P4D24-332G-MA36-S-3EB8RLH277-FO835 Notes:

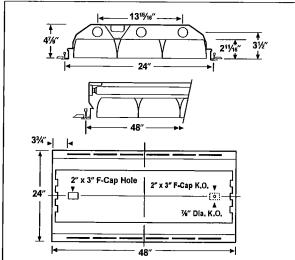
Type:

C31

LEE07-6119

P4D Parabolic





Ceiling Compatibility Type G FK24 Flange Kit

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and

for a clean, finished appearance For flanged fixtures in row configurations, the FKCR adapter bracket kil is required in addition to the FK24 kit, Order one less FKCR than the total number of total number of fixtures in row. (Example: Row of two, order (2) FK24 &

(1) FKCR)

For hard ceiling applications order FK24 flange kit. Flange kit wires directly into concealed ceiling opening



Row cut out dimensions using FK24s & FKCR adapters: Width 24%", Length [48"x(# in row)]+%". Example: (48"x2)+%"=96%

Flange kit cut out dimension for single unit only: 24%" x 48%"

Complete ordering information on back. Dimensions and specifications subject to change without notice

P4D24-3

2' x 4' Parabolic 3 Lamp, 18 Cells

Type: Job Description:

Features

- Nominal 3" deep parabolic louver provides excellent glare control and maintenance-free operation.
- DuraLouver anodized aluminum louver resists dents and scratches, holds shape, and maintains precision performance over the life of the louver.
- Matte anodized low iridescent semi-specular aluminum (MA) louver finish (standard) virtually eliminates visibility of fingerprints and construction dust.
- · Proper lamp position provides maximum efficiency with controlled widespread distribution.
- Shallow 41/8" housing height allows installation in restricted ceiling areas.
- · Lightweight and contractor friendly, for ease of installation.
- Full black reveal provides floating louver appearance and full air handling capability.

Construction

Luminaire housing and end caps are die formed code gauge cold rolled steel. Louver is formed from DuraLouver™ anodized aluminum and secured in open or closed position by die formed steel hinges. Louver hinges from either side. Mechanical light trap prevents light leaks. Latches are finger-tip actuated, positive feed type, fabricated of spring steel, and completely concealed in the black reveal.

Parts are treated with a five stage phosphate bonding process and finished with a high temperature baked white enamel. For post painted housing, suffix catalog number with PAF. Regressed slots are flat black. Anodized aluminum DuraLouver standard finish is matte anodized low iridescent (MA). Also available in low-iridescent semi-specular natural anodized aluminum (LD) or low-iridescent specular aluminum (LS).

Air Handling

All supply/return and air extract functions are shown on the reverse side of this sheet and are available as a specified option. Directional control vanes and/or extract dampers must be specified. Air extract slots are located out of sight in end caps. Air removal data is on reverse side of sheet.

Installation

For fast wiring connections without the necessity of opening fixture or wireway, an adapter plate is furnished with each luminaire. A plastic dust cover which eliminates construction dust and protects the lamps is provided as standard.

Labels & Electrical

All luminaires are listed with UL and bear UL recessed fixture labels. Damp label is available. Completely wired with class "P" thermally protected, resetting, HPF, CBM, energy efficient ballast. Sound rated "A". All ballast leads extend a minimum of 6" through the access plate. Standard wiring is labeled outbeard. inboard/outboard.

Ceiling Compatibility

Luminaire is available to fit most standard ceiling types as shown at left. For information on compatibility with specific ceillings, contact your Columbia representative. Four integral T-bar clips are provided for static (-S), air supply/return (-A) and air supply/return with control vanes (-AV). Two non-integral T-bar clips are provided for use with all other air functions. Four non-integral T-bar clips are available as an option.

P36.2







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Photometric Report

Data

Energy

Job Name:

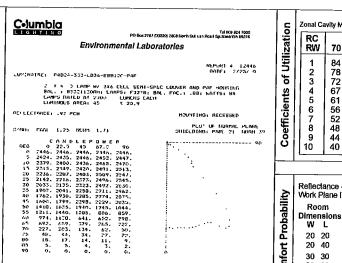
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: P4D24-332G-MA36-S-3EB8RLH277-F0835 Notes:

Type:

C31

LEE07-6119



ا ۾ ا	Zonal Cavity Method Coefficients of Utilization Floor Reflectance20												
Utilizatio	RC RW	70	50	80 30	1		7 50	0 30	10	50	50 50 30 10		
Coefficients of Util	1 2 3 4 5 6 7 8 9	84 78 72 67 61 56 52 48 44 40	81 73 66 59 53 47 42 38 34 31	78 69 61 53 47 41 36 32 28 25	76 66 57 49 42 37 32 28 24 21	82 76 70 65 60 55 51 46 43 39	79 72 65 58 52 47 42 37 33 30	77 68 60 53 46 41 36 32 28 25	75 65 56 49 42 37 32 28 24 21	76 69 62 56 50 45 41 36 33 29	74 66 59 52 45 40 36 31 27 24	73 63 55 48 42 36 32 27 24 21	68 60 52 46 40 35 30 26 22 19

<u>∓</u> .		ctance - 8 Plane Illu			00 FC	@ 2.5	ft.					VCP
Probability		om nsions L	Ht.	8.5	Lumir Lengt			114		Lumir Cross	wise	
2	20	20	m.					Ht.	8.5		13.0	
				70	66	67	77		82	78	75	77
ᅜ	20	40		77	72	65	62		86	83	79	75
≝	30	30		78	74	65	64		87	82	76	71
5	30	60		82	79	71	65		87	84	82	77
Visual Comfort	40	40		82	79	71	64		88	86	81	74
∣ੁਲੂ∣	40	60		83	81	74	67		88	86	83	77
ı z	60	30		79	76	71	69		88	85	80	73
څا	60	40		82	80	74	67		88	87	83	75
	60	60		83	82	76	70		88	87	85	78

LER: FP-68 Input Watts: 84

LER = FP- 68

70NAL S LUMENS 2009. 3480. 6019. 6527.

SIMMARY LAMP FIX1 23.1 30.8 40.0 52.2 49.2 92.2 75.0 100.0 0.0 0.0

Energy Cost: \$3.53* BF: .88

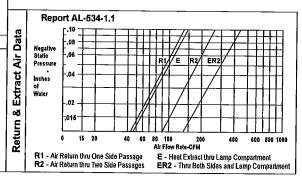
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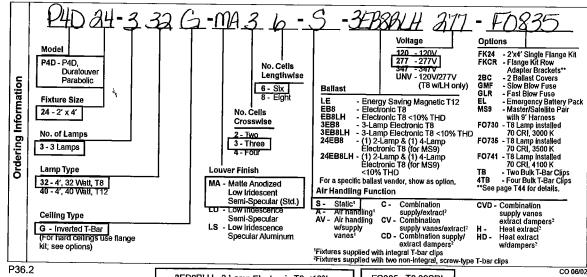
TESTED BY: \$7. APPROVED BY:

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

TEST N.N IN ACCORDANCE TO CURRENT L.E.S. PUBLISHED PROCEDURES

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.





C•lumbia LIGHTING 3EB8RLH - 3 Lamp Electronic T8 <10% THD Rapid Start Low Harmonic

FO835 - T8 82CRI, 3500K Lamps 3808 N Sullivan Rd, Bldg. 29 • Spokane, WA 99216 • (509) 924-7000 • www.columbialighting.com



Hubbell Lighting, Inc.



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: P4D24-332G-MA36-S-24EB8RLH277-F0835-MS9 Notes:

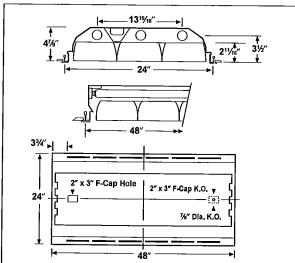
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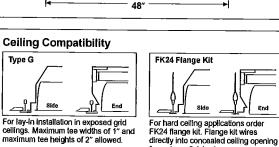
C32

LEE07-6119

P4D Parabolic

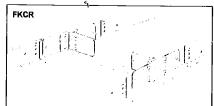






for a clean, finished appearance

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit Order on less FKCR than the total number of



fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR) Row cut out dimensions using FK24s & FKCR adapters: Width 24%", Length [48"x(# in row)]+%". Example: (48"x2)+%"=96%

Flange kit cut out dimension for single unit only: 24%" x 48%"

Complete ordering information on back, Dimensions and specifications subject to change without notice

P4D24-3

2' x 4' Parabolic 3 Lamp, 18 Cells

Type: Job Description:

Features

- Nominal 3" deep parabolic louver provides excellent glare control and maintenance-free operation.
- **DuraLouver**™ anodized aluminum louver resists dents and scratches, holds shape, and maintains precision performance over the life of the louver.
- Matte anodized low iridescent semi-specular aluminum (MA) louver finish (standard) virtually eliminates visibility of fingerprints and construction dust.
- Proper lamp position provides maximum efficiency with controlled widespread distribution.
- Shallow 4%" housing height allows installation in restricted ceiling areas.
- Lightweight and contractor friendly, for ease of installation.
- Full black reveal provides floating louver appearance and full air handling capability.

Construction

Luminaire housing and end caps are die formed code gauge cold rolled steel. Louver is formed from DuraLouver™ anodized aluminum and secured in open or closed position by die formed steel hinges. Louver hinges from either side. Mechanical light trap prevents light leaks. Latches are finger-tip actuated, positive feed type, fabricated of spring steel, and completely concealed in the black rowel. concealed in the black reveal.

Parts are treated with a five stage phosphate bonding process and finished with a high temperature baked white enamel. For post painted housing, suffix catalog number with PAF. Regressed slots are flat black. Anodized aluminum DuraLouver standard finish is matte anodized low iridescent (MA). Also available in low-iridescent semi-specular natural anodized aluminum (LD) or low-iridescent specular aluminum (LS).

Air Handling

All supply/return and air extract functions are shown on the reverse side of this sheet and are available as a specified option. Directional control vanes and/or extract dampers must be specified. Air extract slots are located out of sight in end caps. Air removal data is on reverse side of sheet.

Installation

For fast wiring connections without the necessity of opening fixture or wireway, an adapter plate is furnished with each luminaire. A plastic dust cover which eliminates construction dust and protects the lamps is provided as standard.

Labels & Electrical

Labeis & Electrical
All luminaires are listed with UL and bear UL recessed
fixture labels. Damp label is available. Completely wired with
class "P" thermally protected, resetting, HPF, CBM, energy
efficient ballast. Sound rated "A". All ballast leads extend a
minimum of 6" through the access plate. Standard wiring is inboard/outboard.

Ceiling Compatibility

Luminaire is available to fit most standard ceiling types as Luminaire is available to nit most standard ceiling types as shown at left. For information on compatibility with specific ceilings, contact your Columbia representative. Four integral T-bar clips are provided for static (-S), air supply/return (-A) and air supply/return with control vanes (-AV). Two non-integral T-bar clips are provided for use with all other air functions. Four non-integral T-bar clips are available as an option.

P36.2





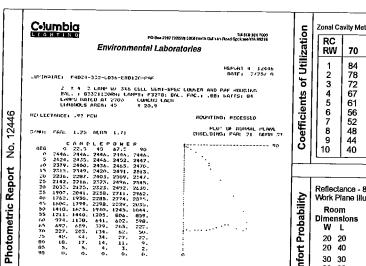


Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: P4D24-332G-MA36-S-24EB8RLH277-FO835-MS9 Notes:

Type:

C32

LEE07-6119



0	
obstometric test was derior ectific ballout / long con- tropolytics of these data last / lang combinations. Compose results. The ballous is to we apolied to the long assignment to the longing likewomer values shown, like bificary rating (LER) 55-1973.	bi- for mus ast mon

LER = FP - 68 TESTED BY: \$1. APPROVED BY: \$2. TEST II.N III ACTORMANCE TO CURRENT I.E.S. PUBLISHED PROCEDURES

5	Zonal Ca	avity Me	ethod		Coef	fficien	ts of	Utiliz	ation		 loor Ro	eflectar	nce20
Utilization	RC RW	70	_50	80 30	10	70	50	0 30	10	50	50 30	10	0
Coefficients of Util	1 2 3 4 5 6 7 8 9	84 78 72 67 61 56 52 48 44 40	81 73 66 59 53 47 42 38 34 31	78 69 61 53 47 41 3 6 32 28 25	76 66 57 49 42 37 32 28 24 21	82 76 70 65 60 55 51 46 43 39	79 72 65 58 52 47 42 37 33 30	77 68 60 53 46 41 36 32 28 25	75 65 56 49 42 37 32 28 24 21	76 69 62 56 50 45 41 36 33 29	74 66 59 52 45 40 36 31 27	73 63 55 48 42 36 32 27 24 21	68 60 52 46 40 35 30 26 22

ity		ctance - 8 Plane Illu			VCP								
Probability	Dime	om nslons		Luminaires Lengthwise					Luminaires Crosswise				
9	w	L	Ht.	8,5	10.0	13.0	16.0	Ht.	8.5	10.0	13.0	16.0	
₫	20	20		70	66	67	77		82	78	75	77	
t	20	40		77	72	65	62		86	83	79	75	
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ŭ	40	40		82	79	71	64		88	86	81	74	
a	40	60		83	81	74	67		88	86	83	77	
Visual Comfort	60	30		79	76	71	69		88	85	80	73	
5	60	40		82	80	74	67		88	87	83	75	
	60	60		83	82	76	70		88	87	85	78	

LER: FP-68 Input Watts: 84

Data

Energy

20000 (E LUMENS 36 2000 (40 3480 (60 6019 (70 5507 (

SUPHMAY

LAMP FIXT

23.1 30.8

40.0 53.2

69.2 92.2

75.0 100.0

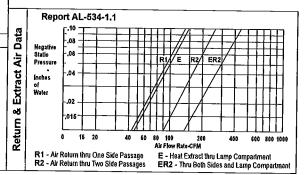
0.0 0.0

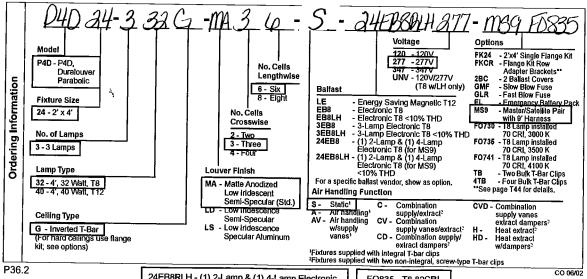
75.0 100.0

Energy Cost: \$3.53* BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.





C-lumbia

24EB8RLH - (1) 2-Lamp & (1) 4-Lamp Electronic T8 <10% THD Rapid Start Low Harmonic

FO835 - T8 82CRI, 3500K Lamps

HUBBELL

Hubbell Lighting, Inc.



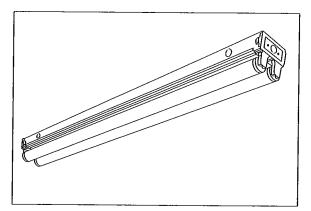
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: CS4-228-EB5277

Notes:

Type:

D1

LEE07-6119



CS2-2, CS3-2 CS4-2, CS8-2 STRAIGHTLINER CHANNEL TWO LAMP TS & RS

Туре:		 	
Job Description:		 _	

FEATURES:

- · Available 2', 3', 4' or 8'.
- · Heavy die formed steel channel.
- · Rotary lock lampholders for positive lamp contact.
- · Channel ends double as joiners.
- · Individual or row mounting. Surface or suspended.
- Ballast covers on 4' and 8' units are secured with 1/4-turn fasteners.

SPECIFICATIONS:

Ballasts

Energy efficient ballasts are thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, unless otherwise specified. 20 watt ballasts are trigger start, low power factor, Class P. All are U.L. listed.

Housing

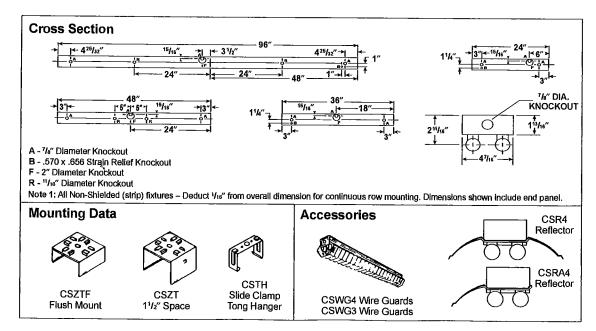
Die formed steel with heat sink embossments for cooler running ballasts. Socket saddles are factory installed.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pretreatment for maximum adhesion and rust resistance.

Labels

All fixtures carry the U.L. label. 2', 3' and 4' units are listed for use on combustible low density, cellulose fiberboard ceilings. (CSA approval available, Use Suffix "CSA").





Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

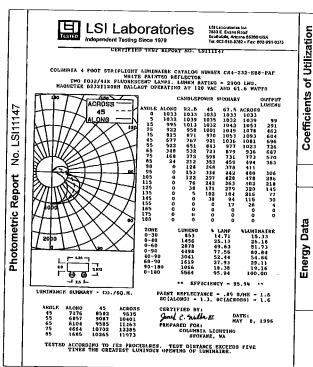
Catalog Number: CS4-228-EB5277

Notes:

Type:

D1

LEE07-6119



اڃ	Zonal Ca	avity Me	ethod		Coe	fficier	its of	Utiliz	ation		loor R	eflectar	rce20
ization	RC RW	70	50	30	10	70	7 50	0 30	10	50	50 30	10	0
Coefficients of Util	1 2 3 4 5 6 7 8 9	98 88 80 73 66 60 55 51 47	93 79 69 60 53 47 42 37 34 31	88 72 60 52 44 38 33 29 25 22	84 66 54 45 37 32 27 23 20 17	94 84 76 69 62 57 53 48 45 42	89 76 66 58 51 45 40 36 32 29	84 69 58 50 42 37 32 28 25 22	80 64 52 43 36 30 26 22 19	81 69 60 53 46 41 37 33 30 27	78 64 54 46 39 34 30 26 23 20	75 59 49 41 34 29 25 21 18	60 48 40 33 27 23 20 17 14

LER: FS-79 Input Watts: 62

Data

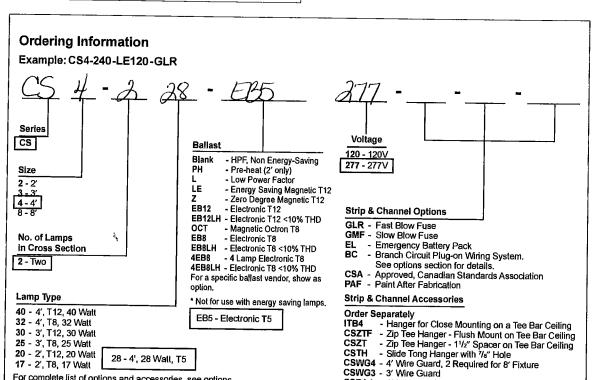
Energy Cost: \$3.04*

BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.

CSRA4 - 4' Asymmetric Reflector
CSR4 - 4' Symmetric Reflector



C2

and accessories section.

For complete list of options and accessories, see options



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

VPF84-232-PRS-277-OPAL-WHT

Notes:

Type:

D2

LEE07-6119



FIXTURE TYPE: ___

WALL/CEILING/PENDANT MOUNT 1, 2 or 3 F32T8

FLUORESCENT

VPF 84

SPECIFICATIONS

Housing

Marine grade heat treated extruded aluminum.

Chemically primed and finished with robotically

applied polyester powder coat.

Lens

Extruded UV stabilized polycarbonate with integral prisms, Maximum wall thickness .160". Secured to housing with die cast aluminum clamps and 6 stainless steel TORX® head

screws.

End Caps Die cast marine grade aluminum.

Provisions for surface conduit entry.

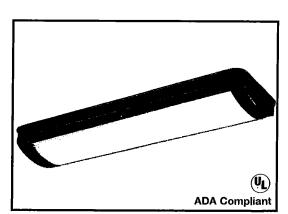
Ballast Electronic high frequency.

Sockets

Precision spring loaded snap type

for maximum impact damping.

UL Listing C.UL., wet optional.



OPTIONS

OPAL

Opal polycarbonate lens instead of clear

prismatic.

JB

Die cast joiner band for continuous row mount.

Consult factory for row information.

WET

Silicone and neoprene gasketing for

wet location.
277 volt ballast.

277 PC

Photoelectric switch.

GLR

Fuse and fuse holder.

ЕМВ

90 minute self contained emergency

battery pack.

EMB 50

Specification grade 90 minute self contained

emergency battery pack.

PRS

Program rapid start electronic ballast.

LH

Low harmonics (10% THD)

ST/SC

Slotted screws instead of TORX® head.

ACCESSORIES

COR

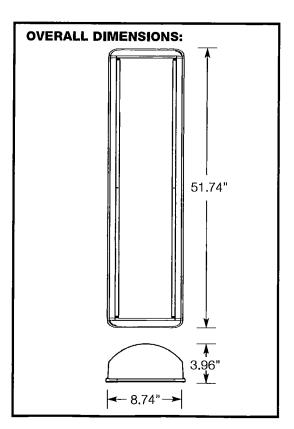
Corner mounted backbox, Constructed from 16 gauge cold rolled zinc coated steel.

Finished with white powder coat.

TX/SD

TORX® head bit.

Patent Pending



www.luminairelighting.com

7 Olsen Avenue ■ P.O. Box 2104 ■ Edison, New Jersey 08818 ■ Telephone (732) 549-0056 ■ FAX (732) 549-9737

Luminaire



Cincinnali Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number:

VPF84-232-PRS-277-OPAL-WHT

Notes:

Type:

D2

LEE07-6119

Accessories

TX/SD-TORX®

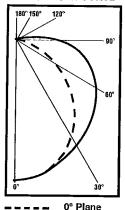
COR-Corner

head bit

backbox

PHOTOMETRIC DATA

CANDLEPOWER DISTRIBUTION CURVE



MODEL VPF 84 - 232

LTL #07080

Extruded aluminum housing, formed white enamel steel reflector, clear linear prismatic polycarbonate lens.

Ballast: One Advance REL-2P32-SC

Lamps: Two Philips F32T8-TL741 rated at 2850 lumens each,

Mounting: Surface

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0-30	940	16.5	22.9
0-40	1535	26.9	37,4
0-60	2764	48.5	67.3
0-90	3953	69.3	96.2
90-120	155	2.7	3.8
90-130	155	2.7	3.8
90-150	155	2.7	3,8
90-180	155	2.7	3.8
0-180	4107	72.1	100.0

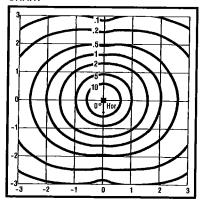
Voits

120

277

Total efficiency: 72.1% CIE type: Direct

ISOFOOTCANDLE CHART



ORDERING INFORMATION

90° Plane

VPF 84 Series

Lamps

٠.

Approved By:

(Not included) 132-(1) F32T8

232-(2) F32T8 332-(3) F32T8

distortion rapid start electronic

Ballast

ELECT-Electronic

ballast LH-Electronic ballast with less than 10% total harmonic

PRS-Program ballast

EXAMPLE: VPF 84 - 132 - ELECT - 120 - OP - BLK - EMB - COR

Lens Colors Clear BK-Black

Standard.

Prismatic WHT-White BRZ-Bronze OP-Opal **GRY-**Grey

CUST-Custom color, consult factory.

Options JB-Die cast joiner band WET-Silicone and neoprene

gasketing for wet location PC-Photoelectric switch

GLR-Fuse and fuse holder EMB-Emergency battery pack EMB 50-Specification grade emergency battery

pack ST/SC-Slotted screws

Catalog No.:		
Fixture Type:	Voltage:	
Job Name:	<u> </u>	

LIFETIME WARRANTY

Luminaire Vandal Resistant fixtures feature a lifetime warranty. Luminaire Lighting Corporation will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.

NOTES:

For complete photometric test reports and custom colors or finishes, please contact your local representative.

your local representative, Availability and specifications subject to change without notice,
All LUMINAIRE fixtures are provided with TORX® head screws, Please remember to order TORX® head bits.

Luminaire **Lighting Corporation** www.luminairelighting.com

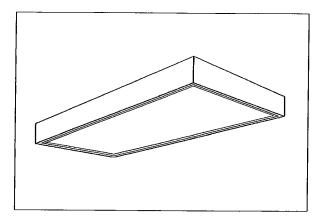
FL VPF 84 1/07



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: SM24-432-FSA12.125-4EB8RLH277-FO835 Notes Type:

D4

LEE07-6119



SM24-4 SKYLARK SURFACE MODULAR

2' x 4', 4 LAMPS RAPID START

Туре:	
Job Description:	

FEATURES:

- Only 3¹/₂" deep. Modular dimensions.
- · Clean mitered corners, no overlap.
- Heavy gauge flush steel shielding frame screw assembled for easy diffuser replacement.
- Optional flush or regressed aluminum shielding frames available with positive action corner slide latches.
- Aluminum frames are standard with spring loaded slide latches.
- · Rotary lock lampholders for positive lamp contact.
- Heat sink embossments behind ballasts for cooler operation, longer life.
- Door frame and corners are sealed with an open cell foam gasket.

SPECIFICATIONS:

Housing

Heavy gauge steel. Die formed for extra rigidity. Designed for surface mounting.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, unless otherwise specified.

Shielding

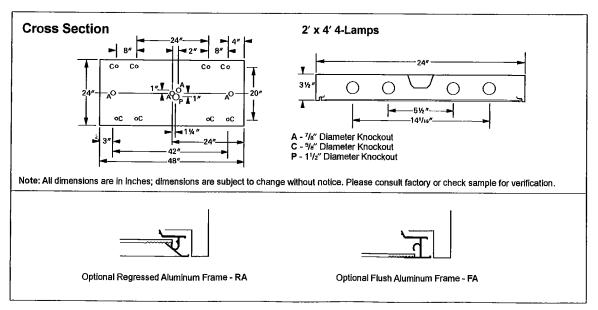
100% acrylic prismatic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

Labels

All fixtures carry the U.L. label. (CSA approval available. Use Suffix "CSA").





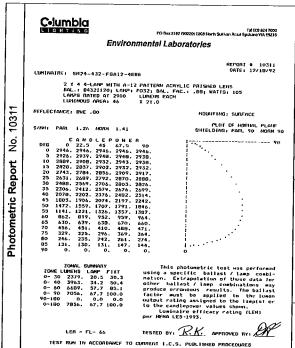
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: SM24-432-FSA12.125-4EB8RLH277-FO835 Notes:

Type:

D4

LEE07-6119



' I					Coef	fficier	ts of	Utiliz	ation				
동	Zonal Ca	avity Me	ethod							F	loor R	eflectar	ce20
₩.	RC		- 1	В0			7	0			50		0
ij	RW	70	50	30	10	70	50	30	10	50	30	10	ō
Utilization	1	75	72	69	67	73	70	68	66	67	66	64	60
۲١	2	69	64	60	57	67	63	59	56	60	57	55	51
6	3	64	57	52	48	62	56	52	48	54	50	47	45
छ।	4	59	51	46	42	57	50	45	42	49	44	41	39
E	5	54	46	40	36	52	45	40	36	44	39	35	33
-∺ [6	50	41	35	31	48	41	35	31	39	35	31	29
⊭∣	7	46	37	31	27	45	36	31	27	35	31	27	25
e l	8	42	33	28	24	41	33	27	24	32	27	24	22
Coefficients	9	39	30	24	20	38	29	24	20	29	24	20	19
91	10	36	27	22	18	35	27	22	18	26	21	18	17

LER: FL-66 Input Watts: 105

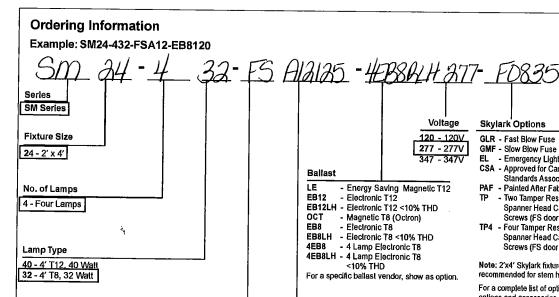
Data

Energy

Energy Cost: \$3.64* BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.



Voltage 120 - 120V 277 - 277V

347 - 347V

Ballast

LE - Energy Saving Magnetic T12

EB12 - Electronic T12 EB12LH - Electronic T12 <10% THD OCT - Magnetic T8 (Octron)

EB8 - Electronic T8 EB8LH - Electronic T8 <10% THD 4EB8 - 4 Lamp Electronic T8 4EB8LH - 4 Lamp Electronic T8

<10% THD For a specific ballast vendor, show as option. Skylark Options

GLR - Fast Blow Fuse GMF - Slow Blow Fuse EL - Emergency Light

CSA - Approved for Canadian Standards Association PAF - Painted After Fabrication

 Two Tamper Resistant Spanner Head Captive Screws (FS door only)

TP4 - Four Tamper Resistant Spanner Head Captive Screws (FS door only)

Note: 2'x4' Skylark fixtures are not recommended for stem hanging.

For a complete list of options, see options and accessories section.

> F0835 - T8 82CRI, 3500K Lamps

Diffuser Options

A12 - Acrylic, Pattern 12 A12.125 - Acrylic, Pattern 12.125 Nominal A12.125M - Acrylic, Pattern 12.125 Minimum

A19 - Acrylic, Pattern 19.156 Male Prism

PC1 - Polystyrene Silver Parabolic Louver 1/2" x 1/2" x 1/2" PC2 - Polystyrene Silver Parabolic Louver 11/2" x 11/2" x 1" IMA - .150" Injection Molded Acrylic

DOP - White Dished Acrylic

S31

For a complete list of lenses and louvers, see options and

4EB8RLH - 4-Lamp Electronic T8<10% THD Rapid Start Low Harmonic

FS · Flush Steel FA · Flush Aluminum

accessories section.

RA - Regressed Aluminum

Door



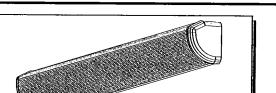
Cincinnali Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: AVW232-PMW-UNV-1/2EB10R-

DEK Notes: Type:

D6

LEE07-6119

Day-Brite® Lighting



APPLICATION

- Surface wall-mounted direct/indirect luminaire.
- · Suitable for individual or continuous row mounting.
- Continuous rows can be installed on the wall at the ceiling to provide an integral cove appearance.
- Also suitable for use lower on the wall as a sconce or in continuous rows.
- ADA approved for applications requiring lower mounting heights.

CONSTRUCTION/FINISH

- No visible hardware.
- · Swing down lamp cover for easy relamping,
- Multi-stage phosphate treated for maximum corrosion resistance and finish coat is baked matte white enamel.
- Easy ballast access through removable reflector.
- Die-cast decorative aluminum end caps are held on by magnets to provide secure retention and easy, toolless installation or removal.

ELECTRICAL

- UL listed for damp locations.
- Class P, HPF ballasts comply with @Federal Ballast Law (public law 100-357, 1988.)

Lyioso WALL

2', 3', or 4' 1 or 2 Lamp T8, T5, T5HO, or CFTT5

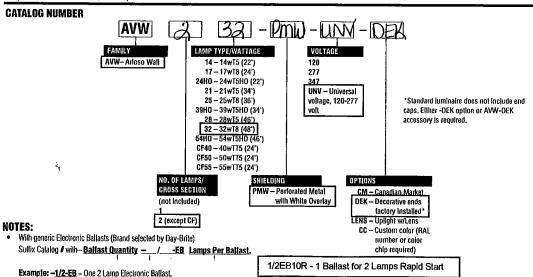
- Self-contained low-profile emergency power pack can be incorporated. UL listed for dry locations.
- Modular wiring may be incorporated for continuous row applications.
- · Electronic ballast standard for maximum efficiency.

ENCLOSURES

- Micro-perforated lamp shield provides soft awareness to lamp source.
- White overlay on inside of lamp cover conceals lamp image.
- · Solid top cover (no uplight) is standard.
- Uplight option w/lens available for lower mounting heights, not recommended for mounting near ceiling.
- End caps are required. They can be factory-installed (-DEK option) for individual mounting or shipped separately for row applications (cat. # AVW-DEK).*
- For continuous row applications, order one joiner (cat. # AVW-IJ) for each junction of two luminaires.

ACCESSORIES

- AVW-DEK end caps (pair)
- AVW-IJ in-line joiner





Catalog Number:

AVW232-PMW-UNV-1/2EB10R-

DEK Notes: Type:

D6

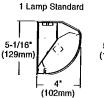
LEE07-6119



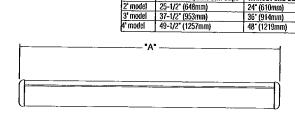
Day-Brite® Lighting

DIM "A" w/DEK end caps | without end caps

DIMENSIONS

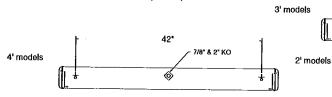


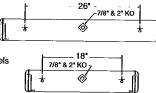




2' model

3' model





25-1/2" (648mm) 37-1/2" (953mm)

PHOTOMETRIC DATA

CATALOG # AVW232-PMW-1/2-EB TEST #24706 S/MH = 2,0

LAMPS = F32T8 INPUT WATTS = 56
BALLAST = ELECTRONIC BALLAST FACTOR = .88

LER = 31

FIXTURE EFFICIENCY= 34,7%

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$7.74 BASED ON 3000 HRS. AND \$.08 PER KWH.

CANDL	EPOWER		
Angle	End	45	Cross
0 5 15	493 486 ·	493 517 553	493 544 616
25	429	577	682
35	370	580	717
45	293	555	720
65	96	508	696
65	98	439	641
75	24	348	563
85	2	255	472
95	0	181	382
105	0	121	294
115	0	69	208
125		36	134
135		17	75

MAINTAIN	ED ILLUMINAT	TION TA	BLE- S	quare F	eet/Fi	kture*
• 11F=0	20 Reflectances 75 2850 Lumens idth divided by ro	Ams Da	very rie	an'	r1	
Fixture Size	e Size Room Width Approx. Area (sq. fl.) per Fixture					
& # of Lamps	Room Helght =	10 ft-c	30 ft-c	50 ft-c	70 ft-o	100 ft-c
4	5	145	48			-
2 Lamp	2	95	32	l - i	-	-
TR	1 1	69	I -			l _

AVERAGE L CD/S	I.	TYI		V.C.P.'s			
*Observe Fixture S/I	MH Requirements fo		Application	s	-		
78	ī	69	32		-]	
4" 2 Lamp	5	145 95	48 32	٠		-	

CD/SQ.M WITH 2850 LUMEN LAMPS							
ANGLE	END	45°	CROSS				
45	3868	1340	2973				
55	3837	926	2452				
65	3745	560	1664				
75	3616	305	665				
85	3482	659	165				

WN	CD,	/SQ.M LUMEN L		Room	Mo	unting	G.P.'S Heighi Crossy	ì
VOLE	END	45°	CROSS		8,5	10	8.5	10
45	3868	1340	2973	30x30	64	68	52	59
55	3837	926	2452	40x40	61	64	50	54
65	3745	560	1664	60x30	65	68	58	63
75	3616	305	665	60x60	59	61	46	49
85	3482	659	165	100x100	57	58	44	46

pic Bee	20			70			50
aw.	70	50	30		50	30	50 30
RCR	m						
0	40	40	40	39	39	39	35 35
t	35	34	32	34	33	30	29 28
2	32	28	26	30	28	26	26 23
3	28	25	22	28	23	22	23 20
4	27	22	19	25	20	17	20 17
5	23	20	16	23	19	16	17 14
_ 6	23	17	14	22	17	14	16 13
7	20	16	13	20	16	13	14 11
8	19	14	11	19	14	11	13 11
9	17	13	10	1/	13	10	11 10
10	17	11	8	16	11	8	11 8

LIGHT DISTRIBUTION							
DEGREES	LUMENS	% LAMP	% FIXTURE				
0-30	390	6.8	19.7				
0-40	647	11.3	32.7				
0-60	1185	20.8	59.9				
0-90	1719	30.2	87.0				
90-180	258	4.5	13.0				
0-180	1976	34.7	100,0				

FIXTURE EFFICIENCY= 51.4%

COEFFICIENT OF UTILIZATION

PHOTOMETRIC DATA

CATALOG # AVW232-PMW-1/2-EB-LENS LAMPS = F32T8 TEST #24704

LAMPS = F32T8 INPUT WATTS = 59
BALLAST = ELECTRONIC BALLAST FACTOR = .88

LER = 44

33 6 2

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$5.45 BASED ON 3000 HRS. AND \$.08 PER KWH CANDLEPOWER

Angle	End	45 2	Cross
0	387	387	387
6	380	404	424
15	363	431	475
25	333	148	523
35	285	453	555
45	222	446	560
65	149	412	558
65	68	365	539
76	15	318	523
85	1	291	487
95	2	303	476
105	27	374	511
115	73	442	602
125	152	489	709
135	239	506	725

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*							
80-50-20 Rellectances (Ceiling-Wall-Floor) LLF = 0.75 2850 Lumens/Lamp very clean Room width divided by room height = 5 or more, 2 or 1							
Fixture Size	Room Width			a (sq. fl.		ture	
& # of Lamps	Room Height =	10 ft-c	30 ft-c	50 ft-c	70 (t-c	100 ft-c	
4"	5		66	40	-		
2 Lamp	2	132	44		-	-	
T8 w/uplight	1	94	31	١.			

Observe Fixture S/MH Requirements for Specific Applications

0.	230216 1 1 KIU10	States tredones to	and the opening K
Wil	CD	LUMINAN /SQ.M LUMEN LA	
ANGLE	END	45°	CROSS
45	3009	1096	2253
55	3076	788	1864
65	3149	509	1155
75	3359	305	416
85	3593	412	82

TYPICAL V.C.P.'s									
Room Size		Mounting Reight Lengthwise Crosswise							
	8.5	10	8,5	10					
30x30	74	79	62	69					
40x40	69	73	56	62					
60x30	72	76	65	71					
60x60	64	67	51	55					
100x100	58	61	47	49					

RNULE	CNU	45"	CHOSS		8.5	_10	8,5	10	1 1	OUT DIE	******	1011
45	3009	1096	2253	30x30	74	79	62	69		OHI DIS	TRIBUT	tun
55	3076	788	1864	40x40	69	73	56	62	DEGREES	LUMENS	% LAMP	% FIXTURE
65	3149	509	1155	60x30	72	76	65	71	0-30	308	5.4	10,5
75	3359	305	416	60x60	64	67	51	55	0-40	510	8.9	17.4
85	3593	412	82	100x100	58	61	47	49	0-60	940	16,5	32.1
		HT LESS FACTOR							0-90 90-180	f438 f492	25,2 26,2	49,1 50,9
LLD = 0	91 2 40% RATE	DEALEPLIFE BE	= .68 ELECTRONIC BAL	last & t8 lahi=	(RELAXI)	AT 76%	LAUP LIFE)	0-180	2930	51,4	100,0

0485-AR

DAY-BRITE LIGHTING • www.daybritelighting.com 776 South Green Steer • Topelo, Missies/ppi 3880M • PH: (662) 842-7212 • FAX: (662) 841-5501 CANADIAN DIVISION

189 Bullock Drive • Markham, Onlario L3P 1994 • PH; (905) 294-9570 • FAX (905) 294-9811

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→ Day-Brite[®] Lighting a Genlyte company



Cincinnali Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

AVW232-PMW-UNV-1/2EB10R-AVWIJ-DEK

Notes:

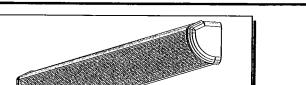
Type:

D6F

LEE07-6119

rioso° WALL





APPLICATION

- · Surface wall-mounted direct/indirect luminaire.
- · Suitable for individual or continuous row mounting.
- Continuous rows can be installed on the wall at the ceiling to provide an integral cove appearance.
- Also suitable for use lower on the wall as a sconce or in continuous rows.
- ADA approved for applications requiring lower mounting heights,

CONSTRUCTION/FINISH

- · No visible hardware.
- Swing down lamp cover for easy relamping.
- Multi-stage phosphate treated for maximum corrosion resistance and finish coat is baked matte white enamel.
- · Easy ballast access through removable reflector.
- Die-cast decorative aluminum end caps are held on by magnets to provide secure retention and easy, toolless installation or removal.

ELECTRICAL

- UL listed for damp locations.
- Class P, HPF ballasts comply with ©Federal Ballast Law (public law 100-357, 1988.)

2', 3', or 4' 1 or 2 Lamp

T8, T5, T5HO, or CFTT5

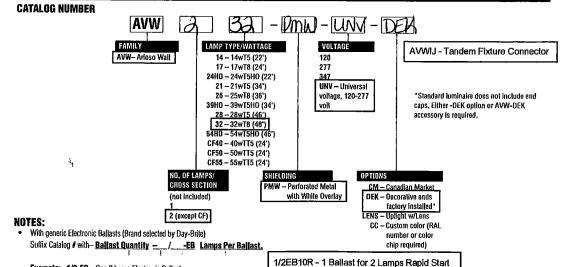
- Self-contained low-profile emergency power pack can be incorporated. UL listed for dry locations.
- Modular wiring may be incorporated for continuous row applications.
- · Electronic ballast standard for maximum efficiency.

ENCLOSURES

- Micro-perforated lamp shield provides soft awareness to lamp source.
- White overlay on inside of tamp cover conceals tamp image.
- · Solid top cover (no uplight) is standard.
- Uplight option w/lens available for lower mounting heights, not recommended for mounting near ceiling.
- End caps are required. They can be factory-installed (-DEK option) for individual mounting or shipped separately for row applications (cat. # AVW-DEK).*
- For continuous row applications, order one joiner (cat. # AVW-IJ) for each junction of two luminaires.

ACCESSORIES

- AVW-DEK end caps (pair)
- AVW-IJ in-line joiner



JOB INFORMATION

Example: -1/2-EB = One 2 Lamp Electronic Ballast.

0485-AR



Catalog Number:

AVW232-PMW-UNV-1/2EB10R-**AVWIJ-DEK**

Notes:

Type:

D6F

LEE07-6119





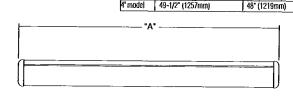
| DIM "A" w/DEK end caps | without end caps | 25-1/2" (648mm) | 24" (610mm)

24" (610mm) 36" (914mm)

DIMENSIONS

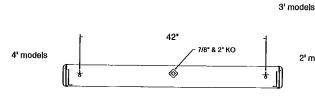


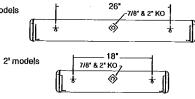




3' model 37-1/2" (953mm)

2' model





PHOTOMETRIC DATA

CATALOG # AVW232-PMW-1/2-EB TEST #24706 S/MH = 2.0

LAMPS = F32T8 INPUT WATTS = 56
BALLAST = ELECTRONIC BALLAST FACTOR = .88

LER = 31

<u>C</u>

<u>Comparative Yearly Lic</u>	GHTING ENERGY COST	PER 1000 LUMENS = \$7.74 BASED ON 3000 HRS, AND \$.08 PER KWH.

CANDLEPOWER								
Angle	End	45	Cross					
0	493	493	493					
5	483	517	544					
15	466	553	616					
25	#29	577	682					
35	\$70	680	717					
45	293	555	720					
55	196	508	696					
65	98	439	641					
76	24	346	563					
85	2	255	472					
95	0	181	382					
105	0	121	294					
115	0 0	69	208					
125		36	134					
135		17	75					
145 155 165 175	1 2 2 2 2	6 0 2 2	33 6 2 2					

 	7111101101	LD OIL C	000 1111	U, MIND	Ψ.00 I C	1407711.				
MAINTAINE	D ILLUMINAT	ION TA	BLE- S	quare F	eet/Fi	cture*				
80-50-20 Rellectances (Ceiling-Wall-Floor) LLF = 0.75 2850 Lumens/Lamp very clean Room width divided by room helght 5 or more, 2 or 1										
Fixture Size	Room Width	App	rox. Ar	a (sq. It.) per Fix	tiure				
&# of Lamps</th><th>Room Kelght =</th><th>10 ft-c</th><th>30 ft-c</th><th>50 ft-c</th><th>70 ft-c</th><th>100 ft-c</th></tr><tr><th>4</th><th>5</th><th>145</th><th>48</th><th>-</th><th>-</th><th></th></tr><tr><th>2 Lamp</th><th>2</th><th>95</th><th>32</th><th>- 1</th><th></th><th>- </th></tr><tr><td>T8</td><th>1</th><td>69</td><td>-</td><td>- </td><td></td><td>- </td></tr></tbody></table>										

*Observe Fixture SA	HH Requirements fo	Specific .	Application	is
AVERAGE I	HMINANCE		Г	

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS							
ANGLE	END	45°	CRÓSS				
45	3868	1340	2973				
55	3837	926	2452				
65	3745	560	1664				
75	3616	305	665				
85	3482	659	165				

Room	Mounting Keight							
Size	Length	wise	Crossy	rise				
	8,5	10	8.5	10				
30x30	64	68	52	59				
46x40	61	64	50	54				
60x30	65	68	58	63				
60x60	59	61	46	49				
100x100	57	58	44	46				

103		1007 100	01	- 50	44	40
LF≕LDOXL	LD X BF	LDO = YERY	CLEANO,	94 CLE	VH 0,90	
RELECTION	SC RAILA	CT 2 TR : AMD	PELAMO	AT 70M	LAMBIE	T)

COEFFICIENT OF UTILIZATION									
pic pcc pw	20 80 70	50	30	7 0 70	50	30	50 50 30		
RCR 0	40	40	40	39	39	39	35 35		
2	35 32 28	34 28 25	32 26 22	34 30 28	28 23	30 26 22	29 28 26 23 23 20		
4 5 6	27 23 23	22 20 17	19 16 14	25 23 22	20 19 17	17 16 14	20 17 17 14 16 13		
7 8 9	20 19	16 14 13	13 11 10	20 19	16 14 13	13 11 10	14 11 13 11 11 10		
10	17	11	á	16	11	ě	11 8		

FIXTURE EFFICIENCY= 34,7%

LIGHT DISTRIBUTION								
DEGREES	LUMENS	% LAMP	% FIXTURE					
0-30	390	6.8	19.7					
0-40	647	11,3	32.7					
0-60	1185	20.8	59.9					
0-90	1719	30.2	87.0					
90-180	258	4.5	13.0					
0-180	1976	34,7	100,0					

FIXTURE EFFICIENCY= 51,4% COEFFICIENT OF UTILIZATION

PHOTOMETRIC DATA

CATALOG # AVW232-PMW-1/2-EB-LENS TEST #24704 S/MH = 2.0

LAMPS = F32T8

INPUT WATTS = 59 BALLAST = ELECTRONIC BALLAST FACTOR = .88

LER = 44

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$5.45 BASED ON 3000 HRS, AND \$.08 PER KWH.

CANDLEPOWER								
Angle	End	45 _{4,}	Cross					
9	387	387	387					
5	380	404	424					
15	363	431	475					
25	333	448	523					
35	285	453	555					
45	222	446	560					
55	149	412	558					
65	68	365	539					
75	15	318	523					
85	1	291	487					
95	2	303	476					
105	27	374	511					
115	73	442	602					
125	152	489	709					
135	239	506	725					

MAINTAIN	ED ILLUMINAT	ION TA	BLE- S	quare F	eet/Fix	kture*
• IIE=0	20 Rellectances 75 2850 Lumens idth divided by ro	/I amn	very rle	วกั	1	
Fixture Size	Room Width			ea (sq. ft.		cture
& # of Lamps	Room Height =	10 ft-c	30 ft-c	50 ft-c	70 (l-c	100 ft-c
4'	5	-	66	40		
2 Lamp	2	132	44	-	l . i	
T8 w/uplight	1	94	31	_	١. ١	-

*Observe Fixture S/MH Requirements for Specific Applications

U	Serve Livinie	symm nedmen	ents for Specific		
AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS					
ANGLE	END	45°	CROSS		
45	3009	1096	2253		
55	3076	788	1864		
65	3149	509	1155		
75	3359	305	416		
85	3593	412	82		

TYPICAL V.C.P.'s							
Room Size	Mounting Height Lengthwise Crosswise						
	8,5	10	8.5	10			
30x30	74	79	62	69			
40x40	69	73	56	62			
60x30	72	76	65	71			
60x60	64	67	51	55			
100x100	58	61	47	49			

	0000	1000	2200	1 20720	,,,	,,,	04	09	-			
55	3076	788	1864	40x40	69	73	56	62	DEGREES	LUMENS	% LAMP	% FIXTURE
65	3149	509	1155	60130	72	76	65	71	0-30	308	5.4	10.5
75	3359	305	416	60x60	64	67	51	55	0-40	510	8.9	17.4
85	3593	412	82	100x100	58	61	47	49	0-60	940	16,5	32.1
									0-90	1438	25,2	49.1
	.Մ.∍.75 ԱՐ∞ԱՇ								90-180	1492	26,2	50,9
ĿĐ	= 0,91 3 40% RATE	CAMPLIFE BF	= .68 ELECTRONIC BAL	LAST & TRILAMS	(RELAM	AT I'G.	LAMP (F	€)	0-180	2930	51.4	100,0

0485-AR

DAY-BRITE LIGHTING • www.daybritelighting.com 776 Sodih Gren Stree: • Tuçelo, Llissies ppi 38804 • PH. (662) &42-7212 • FAX: (662) 841-5501 CAMADIAN DIVISION 189 Bullock Driv: • Mairham Ontaro L3P 11Y4 • PH. (905) 294-9570 • FAX (905) 294-9811

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LIGHT DISTRIBUTION



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: SESRWN

Notes:

Type:

EX

LEE07-6119





Compact, low-profile exit signs featuring cast aluminum construction, easy installation and energy-saving, long-life LED lamps



Patent Pending



All signs available with natural brushed face finishes

LIFETIME WARRANTY ON ALL SPECTRON MODELS

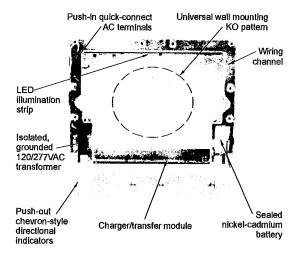
Features

All Models

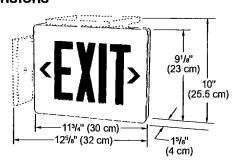
- High-strength cast aluminum construction
- Compact, low-profile style
- Easy to install
- Bright, even illumination
- Red and green letters
- Long-life LED lamps provide over 20 years of service
- Energy-saving operation
- Single and double face models
- White, white with brushed aluminum face, black and black with brushed aluminum face finishes offered
- Push-in wiring connectors provided
- End, ceiling or wall mounting
- Break-out cheyron directional arrows
- 120/277VAC, 60 Hz operation
- Temperature range: 20°C to 30°C (68°F to 86°F)

Emergency Models

- Fully automatic, solid-state charger
- All emergency components mount inside exit housing
- Maintenance-free, nickel-cadmium battery
- Operates for a minimum of 2 hours
- Automatic battery protection
- Test switch
- AC-On indicator
- Models available with Spectron self-testing/ self-diagnostic electronics
- UL 924 Listed



Dimensions





Hubbell Lighting, Inc.



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: SESRWN

Notes:

Type:

ΕX

LEE07-6119

Specifications

Sempra[™] Series Cast Aluminum LED Exit Signs

Construction

Sign: Housing, exit face(s) and matching canopy constructed of high-strength cast

Sign Finish: Textured white, white with brushed aluminum face, black or black with brushed aluminum face

Diffuser Finish: Frequency-matched silkscreened coaling provides optimized LEO light

Exit Face Design Letters: 6" letters, 3/4" stroke

Directional Arrows: Break-out chevron type

Illumination

All Models: 4 red or 4 green high-output LEDs Rated lamp life: In excess of 20 years Brightness Index: Exceeds UL requirements Illumination Uniformity: Exceeds UL requirements

Mounting: Sign mounts to 3½", 4" octagon, or 4" square outlet boxes and standard plaster rings.

Wall Installations: Exit housing provides a knockout pattern for mounting to outlet box. Wall installations: Exit housing provides a knockour patient for mounting to outlet dox.

Celling or End Installations: Mounting canopy provided with all models. Canopy mounts to outlet boxes by means of universal mounting plate supplied. Exit housing mounts to canopy bracket

Wiring: Pre-stripped AC Input piglail leads provided. Push-in wire connectors supplied for making AC connections. All wiring dresses into formed wireways in exit housing.

Electronics

Input: 120/277VAC, 60 Hz (all models)

Bullt-in Protection: Surge, transient and low-battery voltage Emergency Operation Module (Internally Mounted) Charger: Solid-state, constant current type

Transfer: Solid-state design
Battery Recharge Cycle: Per UL time standards
Test Means: Integral test switch

Indicators: AC-On LED indicator

Operating Temperature range: 20°C to 30°C (68°F to 86°F)

Product Selector (Single Face Models)

AC	Emergency	Spectron*		Colors	
Model	Model	Model	Exit		Stenoil
Numbers	Numbers	Numbers	Letters	Housing	Face(s)
SESRW	SESRWE	SESRWEI	Red	White	White
SESGW	SESGWE	SESGWEI	Green	White	White
SESRWN	SESRWNE	SESRWNEI	Red	White	Brushed
SESGWN	SESGWNE	SESGWNEI	Green	White	Brushed
SESRB	SESRBE	SESRBEI	Red	Black	Black
SESGB	SESGBE	SESGBEI	Green	Black	Black
SESRBN	SESRBNE	SESRBNEI	Red	Black	Brushed
SESGEN	SESGBNE	SESGBNEI	Green	Black	Brushed

Product Selector (Double Face Models)

AC	Emergency	Spectron*	Ť.	Colors	
Model Numbers	Model Numbers	Model Numbers	Exit Letters	Housing	Stencil Face(s)
SEDRW	SEDRWE	SEDRWEI	Red	White	White
SEDGW	SEDGWE	SEDGWEI	Green	White	White
SEDRWN	SEDRWNE	SEDRWNEI	Red	White	Brushed
SEDGWN	SEDGWNE	SEDGWNEI	Green	White	Brushed
SEDRB	SEDRBE	SEDRBEI	Red	Black	Black
SEDGB	SEDGBE	SEDGBEI	Green	Black	Black
SEDRBN	SEDRBNE	SEDRBNEI	Red	Black	Brushed
SEDGBN	SEDGBNE	SEDGBNE	Green	Black	Brushed

^{*} For complete information on the Spectron self-testing/self-diagnostic electronics system, refer to data sheet 0601471.

Battery Type: Maintenance-free nickel-cadmium

Power Consumption*

	120VAC	277VAC
Red AC Only Models:	2.6 walts	2.6 walls
Green AC Only Models:	2.1 walls	2.1 walts
Red Emergency Models:	3,8 walls	3.8 walts
Green Emergency Models:	3,5 walts	3.5 walls

^{*} Wattage figures include LED lamps, transformer and electronics power requirements.

LED lamp assemblies (red or green) consume less than 1 walt.

Power factor, average: .8 (lagging)

Compliances

UL 924 (exceeds brighlness and uniformity requirements and meets 2001 directional indicator specifications)

NFPA-101

EPA/DOE EnergyStar® compliant

Warranty

Spectron Self-Testing/Self Diagnostic Sempra Models Electronics and Battery: Lifelime All Other Sempra Models LED Illumination Strip: Lifetime Unit and Electronics: 5 years full Battery: 1 year full, 9 years pro-rata (10 years total)

This warranty only applies when the product is used as intended. Any abuse or misuse contrary to normal installation or operation shall void this warranty.

Suggested Specification

Exit sign construction will be high-strength cast aluminum in textured (white)(white with Exit sign construction will be high-strength cast aluminum in textured (white), white with brushed face) flinish. Exit face will provide 6' high letters with 3/4" stroke and break-out chevron type directional arrows. Exit sign design will allow universal 120/277/AC, 60 Hz operation. Normal fillumination will be provided by 4 red or green high-output LEDs consuming less than 1 walt. Normal LED lamp life will be in excess of 20 years. Exit letters will exceed the lumen output and litumination uniformity required by UL specifications. Exits will be (single face) (double face) and provided with all necessary components for wall, ceiling or end mounting applications. Mounting canoples will be provided with all models and will be of identical construction and color to match the will be provided with all models and will be of identical construction and color to match the exit frame. Exits will be designed to mount to 3½° or 4° octagon and 4° square electrical boxes or standard plaster rings. Emergency exit models will be achieved through a (factory)(field) installed fully automatic emergency operation module. All emergency module components will mount inside the exit housting and will include a solid-state, constant current type battery charger, a maintenance-free, nickel-cadmium battery, an AC-On indicator light; and a test switch. The unit charger will be capable of recharging the battery within acceptable U. time standards. The emergency operation module must be capable of providing a minimum of 2 hours of emergency operation. Exit signs must comply with all UL 924 and NFPA 101 Life Safety Code requirements. Optional equipment will include:

Dimensions to be 91/6" (23 cm) high x 113/4" (30 cm) wide by 15/6" (4 cm) deep.

Options and Accessory Items

Descriptions	Factory Equipped Add Suffix To Model	Field Conversion Kit Order Part Number
Emergency operation module (red models)		SER-E
Emergency operation module (green models)	(i)	SEG-E
Remote DC operation(24516)	-DC	
2-circuit operation(*24)	-2C	_
Fire alarm panel interface(1/46)	-FAP	_
2-circuit fire alarm panel interface 2x1751	-2CFAP	=
Flasher module(3,5)	-FM	
Audible/Flasher module ^(3/9)	-AF	_
220/240 VAC, 60 Hz. operation	-24K	
Special wording option ⁽⁷⁾	-SW	=
Pendant mounting kit (white)	_	PMCW
Pendant mounting kit (black)		PMCB
Wire guard (Wall mount)	-	WGLX
Wire guard (Ceiling mount)	_	WGLXC
Wire guard (End mount)		WGLXE

Special Wording Open Face Diffusers

Option No.	Description	Option No.	Description		
1	TO EXIT	12	AREA OF RESCUE ASSISTANCE		
2	NOT AN EXIT	13	AREA OF RESCUE ASSISTANCE		
3	IN USE	7	(w/wheelchair symbol)		
4	XRAY IN USE	14	ELEVATOR		
5	DARKROOM IN USE	15	RESTROOMS		
6	CAUTION	16	MEN		
7	DO NOT ENTER	17	MEN (w/symbol)		
8	TEST IN PROGRESS	18	WOMEN		
9	ON AIR	19	WOMEN (w/symbol)		
10	AREA OF REFUGE				
11	AREA OF REFUGE (w/wheelchair symbol)		Consult factory for additional special wording diffuser options		

For factory-equipped emergency models, see Product Selector above For use with AC models only. For use with AC models only. For use with the mayonary models only. Operates with 24 woll AC on DC fire alarm panels for emergency flumination of sign from remote 6-24 VDC power sources. FOC -2C-FAP -2CFAP -FM. AF options may not be specified together. For special wording diffusions see table above and add Option Number to Option Suffix in model number. Ex: SEDRWE-SW(10)

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Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: SEDRWN

Notes:

Type:

EXDF

LEE07-6119





Compact, low-profile exit signs featuring cast aluminum construction, easy installation and energy-saving, long-life LED lamps





All signs available with natural brushed face finishes

LIFETIME WARRANTY ON ALL SPECTRON MODELS

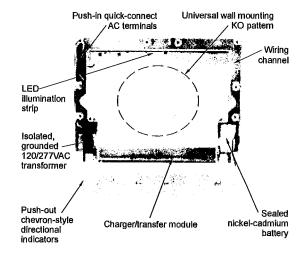
Features

All Models

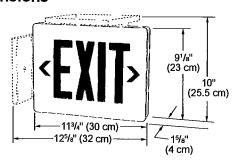
- High-strength cast aluminum construction
- Compact, low-profile style
- Easy to install
- Bright, even illumination
- Red and green letters
- Long-life LED lamps provide over 20 years of service
- Energy-saving operation
- Single and double face models
- White, white with brushed aluminum face, black and black with brushed aluminum face finishes offered
- Push-in wiring connectors provided
- End, ceiling or wall mounting
- Break-out cheyron directional arrows
- 120/277VAC, 60 Hz operation
- Temperature range: 20°C to 30°C (68°F to 86°F)

Emergency Models

- Fully automatic, solid-state charger
- All emergency components mount inside exit housing
- Maintenance-free, nickel-cadmium battery
- Operates for a minimum of 2 hours
- Automatic battery protection
- Test switch
- AC-On indicator
- Models available with Spectron self-testing/ self-diagnostic electronics
- UL 924 Listed



Dimensions





Hubbell Lighting, Inc.



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: SEDRWN

Notes:

Type:

EXDF

LEE07-6119

Specifications

Sempra[™] Series Cast Aluminum LED Exit Signs

Construction

Sign: Housing, exit face(s) and matching canopy constructed of high-strength cast

Sign Finish: Textured white, white with brushed aluminum face, black or black with brushed aluminum face

Diffuser Finish: Frequency-matched silkscreened coating provides optimized LEO light output

Exit Face Design

Letters: 6" letters, 3/4" stroke

Directional Arrows: Break-out chevron type

Illumination

All Models: 4 red or 4 green high-output LEDs Rated lamp life: In excess of 20 years Brightness Index: Exceeds UL requirements Illumination Uniformity: Exceeds UL requirements

Installation

Mounting: Sign mounts to 3½*, 4* octagon, or 4* square outlet boxes and standard plaster rings.

Wall Installations: Exit housing provides a knockout pattern for mounting to outlet box.

Celling or End Installations: Mounting canopy provided with all models. Canopy mounts to outlet boxes by means of universal mounting plate supplied. Exit housing mounts to canopy bracket

Wiring: Pre-stripped AC Input pigtail leads provided. Push-in wire connectors supplied for making AC connections. All wiring dresses into formed wireways in exit housing.

Electronics

Input: 120/277VAC, 60 Hz (all models)

Bulk-in Protection: Surge, transient and low-battery voltage Emergency Operation Module (Internally Mounted)

gency Operation Module (Internally Mounted)
Charger: Solid-state, constant current type
Transfer: Solid-state design
Battery Recharge Cycle: Per UL time standards
Test Means: Integral test switch

Indicators: AC-On LED indicato

Operating Temperature range: 20°C to 30°C (68°F to 86°F)

Product Selector (Single Face Models)

AC	Emergency	Spectron*		Colors	
Model	Model	Model	Exit	I	Stenoil
Numbers	Numbers	Numbers	Letters	Housing	Face(s)
SESRW	SESRWE	SESRWEI	Red	White	White
SESGW	SESGWE	SESGWEI	Green	White	White
SESRWN	SESRWNE	SESRWNEI	Red	White	Brushed
SESGWN	SESGWNE	SESGWNEI	Green	White	Brushed
SESRB	SESRBE	SESRBEI	Red	Black	Black
SESGB	SESGBE	SESGBE	Green	Black	Black
SESRBN	SESRBNE	SESRBNEI	Red	Black	Brushed
SESGEN	SESGENE	SESGBNEI	Green	Black	Brushed

Product Selector (Double Face Models)

-	AC	Emergency	Spectron*		Colors	
	Model Numbers	Model Numbers	Model Numbers	Exit Letters	Housing	Stencil Face(s)
ı	SEDRW	SEDRWE	SEDRWEI	Red	White	White
1	SEDGW	SEDGWE	SEDGWEI	Green	White	White
×	SEDRWN	SEDRWNE	SEDRWNEI	Red	White	Brushed
1	SEDGWN	SEDGWNE	SEDGWNE	Green	White	Brushed
ı	SEDRB	SEDŘBĚ	SEDRBEI	Red	Black	Black
ı	SEDGB	SEDGBE	SEDGBEI	Green	Black	Black
1	SEDRBN	SEDRBNE	SEDRONEI	Red	Black	Brushed
L	SEDGBN	SEDGBNE	SEDGENEI	Green	Black	Brushed

For complete information on the Spectron self-testing/self-diagnostic electronics system, refer to data sheet 0601471.

Battery Type: Maintenance-free nickel-cadmium

Power Consumption*

	120VAC	277VAC
Red AC Only Models:	2.6 walls	2.6 walts
Green AC Only Models:	2,1 walls	2.1 walls
Red Emergency Models:	3.8 walls	3.8 walls
Green Emergency Models:	3,5 walls	3,5 walls

Wattage figures include LED lamps, transformer and electronics power requirements.

LED lamp assemblies (red or green) consume less than 1 watt

Power factor, average: .8 (lagging)

Compliances

UL 924 (exceeds brighlness and uniformity requirements and meets 2001 directional Indicator specifications)

NFPA-101

EPA/DOE EnergyStar® compliant

Warranty

Spectron Self-Testing/Self Diagnostic Sempra Models Electronics and Battery: Lifelime

All Other Sempra Models

LED lilumination Strip: Lifetime
Unit and Electronics: 5 years full
Battery: 1 year full, 9 years pro-rata (10 years total)

This warranty only applies when the product is used as intended. Any abuse or misuse contrary to normal installation or operation shall void this warranty

Suggested Specification

Suggested Specification

Exit sign construction will be high-strength cast aluminum in textured (white) (white with brushed face) (black) (black) (black with brushed face) finlsh. Exit face will provide 6° high letters with 3/4° stroke and break-out chevron type directional arrows. Exit sign design will allow universal 120/277/AC, 60 Hz operation. Normal Illumination will be provided by 4 red or green high-output LEDs consuming less than 1 wait. Normal LED lamp fife will be in excess of 20 years. Exit letters will exceed the lumen output and illumination uniformity required by UL specifications. Exits will be (single face) (double face) and provided with all necessary components for wall, ceiling or end mounting applications. Mounting canoples will be provided with all models and will be of identical construction and color to match the exit frame. Exits will be designed to mount to 3½° or 4° octagon and 4° square electrical boxes or standard plaster rings. Emergency exit models will be achieved through a (factory)(field) installed fully automatic emergency operation module. All emergency module components will mount inside the exit housing and will include a solid-state, constant current type battery charger; a maintenance-free, nickel-cadmium battery; an ACconstant current type battery charger, a maintenance-free, nicket-cardmium battery; an AC-on indicator light; and a test switch. The unit charger will be capable of recharging the battery within acceptable UL time standards. The emergency operation module must be capable of providing a minimum of 2 hours of emergency operation. Exit signs must compty with all UL 924 and NFPA 101 Life Safety Code requirements. Optional equipment Dimensions to be 91/6" (23 cm) high x 113/4" (30 cm) wide by 15/6" (4 cm) deep.

Options and Accessory Items

Descriptions	Factory Equipped Add Suffix To Model	Field Conversion Kit Order Part Number
Emergency operation module (red models)	_(i)	SER-E
Emergency operation module (green models)	_0	SEG-E
Remote DC operation ^{(245),61}	-DC	
2-circuit operation(**x*)	-2C	· -
Fire alarm panel interface (4x4)	-FAP	
2-circuit fire alarm panel interface 2,474	-2CFAP	=
Flasher module ^(1)x6)	-FM	
Audible/Flasher module ^{13/31}	-AF	
220/240 VAC, 60 Hz. operation	-24K	
Special wording option(*)	-SW	
Pendant mounting kit (white)	_	PMCW
Pendant mounting kit (black)	_	PMCB
Wire guard (Wall mount)		WGLX
Wire guard (Ceiling mount)		WGLXC
Wire guard (End mount)		WGLXE

Special Wording Open Face Diffusers

Option No.	Description	Option No.	Description			
1	TO EXIT	12	AREA OF RESCUE ASSISTANCE			
2	NOT AN EXIT	13	AREA OF RESCUE ASSISTANCE			
3	IN USE		(w/wheelchair symbol)			
4	XRAY IN USE	14	ELEVATOR			
5	DARKROOM IN USE	15	RESTROOMS			
6	CAUTION	16	MEN			
7	DO NOT ENTER	17	MEN (w/symbol)			
8	TEST IN PROGRESS	18	WOMEN			
9	ON AIR	19	WOMEN (w/symbol)			
10	AREA OF REFUGE		· · · · · · · · · · · · · · · · · · ·			
11	AREA OF REFUGE	Consul	It factory for additional special			
	(w/wheelchair symbol)	wording diffuser options				

For factory-equipped emergency models, see Product Selector above.
For use with AC models only.
For use with mergency models only.
Opstates with 24-voit AC or DC fire alarm panels.
For emergency illumination of sign from remote 6-24 VDC power sources.
-DC, -2C, -FAP, -2CFAP, -F.M. -AF options may not be specified together.
For special working diffusers see table above and add Option Number to Option Suffix in model number. Ex SEDRIME-SW(10)

Dual-Lite • 60 Fieldstone Court • Cheshire, Connecticut 06410-1212 • Tel: (203) 699-2000 • Fax (203) 699-2059 • Web Site: www.dual-lite.com Copyright[®] Dual-Lite, a Hubbell Lighting Inc. brand - All Rights Reserved - Specifications subject to change without notice. Printed in U.S.A.



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number:

LN4XRW

Notes:

Type:

EX1

LEE07-6119



LN4X Series

Wet location UL 50 type 4X exit signs for indoor/outdoor use, featuring energy-saving, long-life LED lamp assemblies.



Application

Indoor/outdoor applications with wet or dusty environments requiring corrosion-resistant, UL 50 type 4X exit signs with energy-saving, long-life LED lamp assemblies.

Features

All Models

- UL 50 type 4X units for indoor/outdoor use
- Suitable for use in wet locations
- Oil-resistant gasket for watertight/dust-tight seal
- High-impact, corrosion-resistant polycarbonate housing
- LN4X Series utilizes NEMA 4X enclosures
- Easy installation
- Bright, even illumination
- Exceeds NFPA 101 illumination requirements
- Red and green letters
- Long-life LED lamps provide over 20 years of service
- Energy-saving operation
- EPA/DOE ENERGYSTAR® compliant
- Snap-in chevron type directional arrows
- Optional 2-circuit models available
- Listed to UL Standard 924
- Universal 120/277VAC operation
- Operating temperature range: AC models: 0°C to 40°C (32°F to 104°F) Emergency models: 10°C to 40°C (50°F to 104°F)

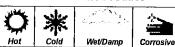
Emergency models with -XTR option: -20°C to 50°C (-4°F to 122°F)

Emergency Sign Features

- Completely self-contained
- Fully automatic, solid-state charger
- Maintenance-free, nickel-cadmium battery
- Operates for a minimum of 90 minutes
- Automatic battery protection
- Test switch
- AC On indicator
- UL 924 Listed
- UL Wet/Damp location listed



Severe Conditions Product



Product Selector

Standard Models

Fixture	Model		AC	Col	ors
Туре	Number	K	Voltage	Letters	Diffuser
	LN4XRW		120/277	Red	White
	LN4XGW		120/277	Green	White

Emergency Models

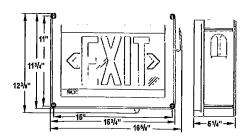
					
Fixture	Model	AC	Colors		
Туре	Number	Voitage	Letters	Diffuser	
	LN4XRWE	120/277	Red	White	
1	LN4XGWE	120/277	Green	White	

Options

Description	Factory Equipped Add Suffix To Model
Spectron self-testing/self-diagnostic electronics(1)(2)	I
Extreme temperature operation(2)(8)(9)	-XTR
2-circuit operation(3)(7)	-2C
Fire alarm panel Interface (4)(6)(7)	-FAP
Extreme temperature operation Fire alarm panel interface (2)(4)(6)(7)(8)(9)	-XTRFAP
Flasher module (2)(6)	-FM
Remote DC operation(3)(5)(6)	-DC
Tamper-proof screws (tool included)	-TR

- Add "I" option suffix immediately after model number. Example: LN4XWEI
 For use with emergency models only.
 For use with AC models only.
 Operates with 24 voit AC or DC fire atarm panels.
 For emergency illumination of sign from remote 6-24VDC power sources.
 FAR. -XTRFAP, -FM or -DC options may not be specified together.
 -2C and -FAP or -XTRFAP options may be specified together.
 Not available with self-testing/self-diagnostic Spectron models.
 Provides an operating temperature range of -20°C to 50°C (-4°F to 122°F)

Dimensions





Mabbel Lighting, Inc.

Submitted by Leesman Sales



Job Name:

Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: LN4XRW

Notes:

Type:

EX1

LEE07-6119

Specifications

LN4X Series

Wet Location LED Exit Signs

Description

LN4X Series LED exit signs meet UL 50 type 4X standards; units are watertight, raintight, corrosion-resistant, suitable for use in damp or dusty locations. LN4X Series LED exit signs utilize NEMA 4X enclosures constructed of neutral gray, high-impact-resistant, glass-filled polycarbonate with a clear polycarbonate cover. The cover is secured to the housing by means of four slotted polyamide screws. An oil-resistant gasket supplied with the cover provides a watertight and dust-tight seal. 1/4" mounting holes for securing the housing to wall surfaces are located under the four cover screws. Exit letters meet UL 924 requirements. A white trim plate installs under the housing cover. Letters are offered standard in a choice of red or green. Directional arrows are snap-in chevron type. Illumination is provided by long-life, energy-saving LED lamps. Standard operation is from 120 or 277VAC.

Emergency Models

LN4X LED Series emergency models are completely selfcontained. A waterproof housing vent is provided on all emergency models. The unit incorporates a solid-state. constant current type charger module. Operation is fully automatic. During normal operation, the charger module maintains the battery at full charge. A transfer circuit automatically switches to emergency battery operation upon loss of normal power. The battery will operate the unit's LED lamps for a minimum of 90 minutes during emergency operation. An automatic low-voltage disconnect circuit protects the battery from deep discharge damage during prolonged power failures. On restoration of utility power, the charger will begin a recharge cycle and bring the battery to full capacity within acceptable UL time standards. A test switch is provided for checking emergency operation. An "AC On" LED indicator is supplied for checking the presence of utility power. Standard operation is from 120 or 277VAC.

Battery

Type: Maintenance-free nickel-cadmium

Illumination

LN4X LED Series exit signs are supplied with energy-saving LED lamp assemblies that allow operation from 120 or 277VAC. All models meet UL 924 requirements for exit face illumination and color cohtrast ratio and exceed NFPA 101 illumination requirements.

LED lamp assemblies are arranged to provide a very evenly illuminated exit legend. Average useful life exceeds 20 years under normal operating conditions. LED lamp assemblies in emergency models provide illumination in AC and battery power modes.

Temperature Ranges

AC models: 0°C to 40°C (32°F to 104°F)
Emergency models: 10°C to 40°C (50°F to 104°F)
Emergency models with -XTR option: -20°C to 50°C (-4°F to 122°F)

Power Consumption

	120VAC	277VAC
Red AC Only Models	2.64 watts	2.70 watts
Green AC Only Models	2.24 watts	2.24 watts
Red Emergency Models	3.81 watts	3.80 watts
Green Emergency Models	3.50 watts	3.50 watts

Power Factor, Average: .8 (lagging)

Installation

LN4X LED Series exit signs are designed to mount to walls through four 1/4" integral mounting holes in the unit housing. Mounting hardware supplied by others. Units must be surface wired for utility power input. Housings are easily drilled or punched to accept sealed conduit hubs (supplied by others).

Options

Options include self-diagnostic operation (I), extreme temperature operation (-XTR), 2-circuit operation (-2C), fire alarm panel interface (-FAP), extreme temperature operation fire alarm panel interface (-XTRFAP), tamper-proof cover screws (-TR) remote DC operation (-DC) and flasher module (-FM).

Warranty

Unit and Electronics: 5 years full

Battery

Standard Models: 1 year full, 9 years pro-rata (10 years total) Spectron Models: 2 years full, 8 years pro-rata (10 years total)

Suggested Specifications

Exit signs shall be wet location listed UL 50 type 4X-rated for indoor/outdoor use. LN4X enclosures shall be corrosionresistant polycarbonate and feature watertight and dust-tight construction. Molded in mounting holes shall be provided under the unit cover screws for securing the housing to walls. A choice of red or green letters will be supplied. Directional arrows shall be snap-in chevron type. Normal AC and emergency illumination will be provided by long-life, energy-saving LED lamp assemblies. Emergency models shall be supplied with all emergency operation components installed internally. Emergency components shall include a solid-state, constant current charger, a nickel-cadmium battery, an "AC On" LED indicator and a test switch for checking emergency operation. The unit charger shall include an automatic low-voltage disconnect circuit and will be capable of recharging the battery within acceptable UL time standards. Must be capable of providing 90 minutes minimum of emergency operation.

Exit signs	will be	Dual-Lite	LN4X	LED	Series,
model(s)					•

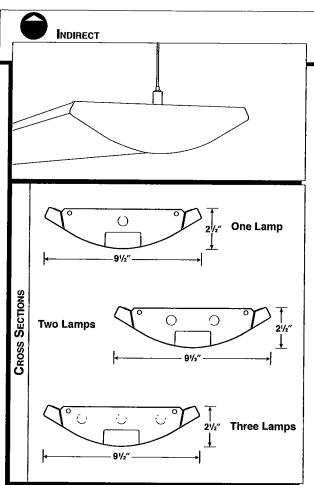


Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

CV-2T5-S-PM 24" FEED/CM 18: NON FEED-EB5277-MW-4 Notes: Type:

G1

LEE07-6119



Cûrv

Solid Housing, T5 or T5HO

TYPE

Project: ______

Location: _____

Construction

The Cûrv series is constructed of heavy 20-gauge steel with a 9½" x 2½" profile. Fixtures are available with up to three T5 or T5HO lamps. The exact shape of the housing is maintained by the use of an inner die cast plate at each fixture end. The housing is designed to wrap around the plate and secures on top with concealed screws to ensure housing tolerances are consistent. These die cast aluminum end caps and aligners provide zero tolerance alignment between fixtures, resulting in consistently stratight rows with no snaking. The luminaire comes standard with a painted white steel reflector with specular inserts on the sides. A high efficiency reflector (HRF) option is constructed of high reflectance specular material and allows for wide distribution with maximum efficiency. An economical painted white reflector (WR) is available.

FINISH

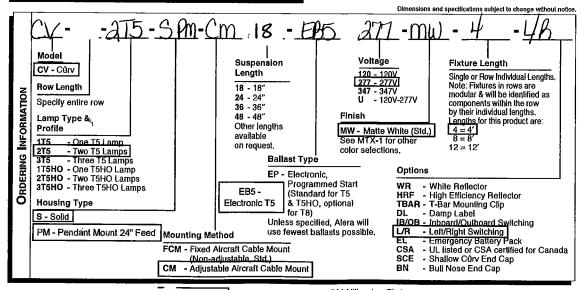
The housing and all painted parts are treated with a multi-stage phosphate bonding process before being finished. Parts are then finished with a white RAL powder coat finish for maximum consistent coverage and longevity.

MOUNTING

The Cûrv is designed for celling suspension and is provided with an aircraft cable suspension mechanism. The fixed cable has a total vertical adjustment of 1½". End of cable barrel screws into a standard ½ 20 bolt brought down from the celling. Cover plates are provided to shield the celling cutout. A straight or optional coil cord is available for feed locations. A feed canopy is provided for each feed location. All fixtures are suspended in modular increments and must be supported at each fixture-housing end. Refer to the Cûrv TID sheet for actual hanging points for specific row information.

LABELS AND ELECTRICAL

All fixtures bear appropriate UL or CSA labels. Fixtures are prewired with small case electronic T5 or T5HO ballasts and are available in 120, 277, or 347 volt. All fixtures are wired for single circuit operation, but additional circuits can be supplied as an option by designating IBOB or LR switching.





18 NON FEED

Subject to change without notice,

Greenville SC 29607

Www.

We are architectural

701 Millennlum Blvd Greenville SC 29607 · (864) 678-1000 www.aleralighting.com We are architectural fluorescent lighting







Catalog Number:

CV-2T5-S-PM 24" FEED/CM 18: NON FEED-EB5277-MW-4

Notes:

Type:

G1

LEE07-6119

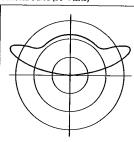
PHOTOMETRICS

CV, CÛRV

ONE LAMP STANDRAD REFLECTOR

Cat. No.: CV-1T5HO-PERF-EB8 Lamps: One FP54/835/HO Ballasts: QT1X54/120PHO Test No.: ITL51565 Efficiency: 98,9%

Candela Curve (90" Plane)



CAND	LEPOWE	R	
Deg.	Parl.	45.	Norm.
0	3	3	3
5	4	3	2
15	3	6	6
25	2	6	5
35	2	4	3
45	1	2	2
55	Ó	2	2
65	Ó	ō	ō
75	ō	ō	ŏ
85	Ó	Ó	ō
90	0	ŏ	ō
95	36	170	76
105	186	1074	1126
115	367	1036	1688
125	541	815	1274
135	700	867	1023
145	827	927	1021
155	929	976	1027
165	997	1010	1027
175	1031	1026	1027
180	1027	1027	1027
ENEDO	V DATA		

ENERGY DATA Energy Cost: \$2.86* LER: 84
Input Watts: 59.2 BF: 1,0
"Comparative annual lighting
energy cost per 1000 (umens based
on 3000 hours and \$0,08 per KWH,

COE	FFICIE	NTS	of U	TILIZA	TION		Effe	clive Flo	or Cavily	Reflec	lance =	0.20
RC			80				70		Т	50		Ιo
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	86	82	78	75	73	70	67	65	48	46	45	0
2	78	71	66	61	66	61	57	53	42	39	37	0
3	71	63	56	51	60	54	48	44	37	34	31	0
4	65	55	48	43	55	47	41	37	33	29	26	0
5	59	49	41	36	50	42	36	31	29	25	22	0
6	54	43	36	31	46	37	31	27	26	22	19	0
7	50	39	32	27	42	33	27	23	23	19	16	0
8	46	35	28	23	39	30	24	20	21	17	14	0
9	43	32	25	20	36	27	22	18	19	15	13	0
10	40	29	22	18	34	25	19	16	17	14	11	0

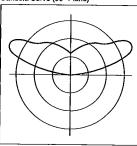
ZONAL SUMMARY							
Zone	Lumens	Lamp	Fixture				
0-30	4	0.1	0.1				
0-40	6	0,1	0.1				
0-60	9	0,2	0.2				
0-90	10	0.2	0.2				
90-120	2070	41.4	41.8				
90-130	2853	57,1	57.7				
90-150	4102	82,0	82.9				
90-180	4936	98,7	99.8				
0-180	4946	98.9	100,0				

REFLECTOR ONE LAMP HIGH EFFICIENCY

Cat. No.: CV-1T5HO-PERF-EB5-HRF Lamps: One F54T5 Ballasts: QT1X54/120PHO Test No.: 12987

Efficiency: 99,2

Candela Curve (90° Plane)



CANDL	EPOWE	R	
Deg.	Parl.	45°	Norm.
0	3	3	3
5	3	3	3
15	3	3	3
25	3	3	3
35	3	3	3
45	2	3	3
55	2	2	2
65	1	2	2
75	1	1	2
85	1	1	1
90	3	2	1
95	24	163	105
105	89	1006	952
115	173	1110	1634
125	262	843	1504
135	345	813	1079
145	417	755	963
155	472	684	816
165	510	611	671
175	530	544	552
180	531	531	531
ENERG	Y DATA		

Energy Cost: \$3,38* LER: 71 Input Watts: 61 BF: 1,00 *Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0,08 per KWH,

COE	FFICIE	NTS	of U	TILIZA	TION		Effe	clive Fic	or Cavity	Reflec	tance =	0,20
RC			30			7	0		I	50		0
RW	70	50	30	10	70	5 0	30	10	50	30	10	0
1	86	82	78	75	73	70	67	65	48	46	45	0
2	78	72	66	61	67	61	57	53	42	39	37	0
3	71	63	56	51	61	54	48	44	37	34	31	0
4	65	55	48	43	55	47	42	37	33	29	26	0
5	59	49	42	36	50	42	36	31	29	25	22	0
6	54	43	36	31	46	37	31	27	26	22	19	0
7	50	39	32	27	43	33	27	23	23	19	16	0
8	46	35	28	23	39	30	24	20	21	17	14	0
9	43	32	25	20	36	27	21	18	19	15	12	0
10	40	29	22	18	34	25	19	15	17	13	11	0

ZONAL SUMMARY							
Zone	Lumens	Lamp	Fixture				
0-30	3	0,1	0,1				
0-40	4	0.1	0.1				
0-60	8	0,2	0.2				
0.90	13	0,3	0.3				
90-120	1963	44,6	45,0				
90-130	2760	62,7	63,2				
90-150	3818	86,8	87.5				
90-180	4353	98,9	99.7				
0-180	4366	99.2	100.0				

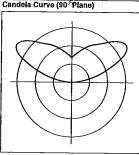
REFLECTOR EFFICIENCY

HGH

TWO LAMP

Cat. No.: CV-2T5HO-PERF-EB5-HRF Lamps: Two F54T5 Ballasts: QT2X54/120PHO Test No.: 12933 Efficiency: 97.9

Candela Curve (90° Plane)



CAND	LEPOWE	R	CANDLEPOWER										
Deg.	Parl.	45°	Norm,										
0	7	7	7										
5	7	7	6										
15	7	7	6										
25	7	6	7										
35	6	6	5										
45	5	5	6										
55	4	5	5										
65	2	4	5										
76	2	2	3										
85	1	2	2										
90	2	2	2										
95	60	265	219										
105	207	1300	1387										
115	391	2207	2390										
125	579	2106	3027										
135	756	1837	2635										
145	905	1694	2147										
155	1022	1529	1816										
165	1105	1355	1496										
175	1148	1190	1216										
180	1155	1155	1155										
FNERG	V DATA												

ENERGY DATA					
Energy Cost: \$3.38* LER: 71					
Input Watts: 121 BF: 1,00					
*Comparative annual lighting					
energy cost per 1000 lumens based					
on 3000 hours and \$0,08 per KWH,					

RC			30			7	0		1	50		10
RW	70	50	30	10	70	50	30	10	50	30	10	ő
1	85	81	77	74	72	69	68	64	47	46	44	0
2	77	71	65	61	66	60	56	52	42	39	37	10
3	70	62	55	50	60	53	48	44	36	33	31	0
4	64	54	47	42	54	47	41	37	32	29	26	0
5	59	48	41	36	50	41	35	31	29	25	22	l٥
6	54	43	36	30	46	37	31	27	25	22	19	0
7	49	38	31	26	42	33	27	23	23	19	16	0
8	45	34	27	23	39	30	24	20	21	17	14	0
9	42	31	24	20	36	27	21	17	19	15	12	0
10	39	28	22	17	33	24	19	15	17	13	11	0

ZONAL SUMMARY								
Zone	Lumens	Lamp	Fixture					
0-30	6	0.1	0,1					
0-40	9	0,1	0,1					
0-60	17	0.2	0,2					
0-90	25	0,3	0,3					
90-120	3236	36.8	37,6					
90-130	4989	56,7	57,9					
90-150	7405	84.2	86,0					
90-160	8587	97,6	99.7					
0-180	8612	97. 9	100.0					



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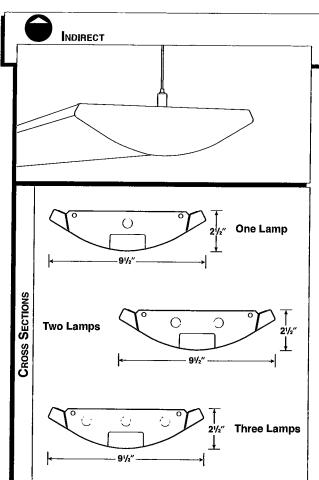
Hubbell Lighting, Inc.



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

CV-2T5-S-PM 24" FEED / CM 24" NON FEED-EB5277-MW-8-L/R Notes: Туре: **G21**

LEE07-6119



Cûrv
Solid Housing, T5 or T5HO

Project: ______

CONSTRUCTION

The Cūrv series is constructed of heavy 20-gauge steel with a 9½" x 2½" profile. Fixtures are available with up to three T5 or T5HO lamps. The exact shape of the housing is maintained by the use of an inner die cast plate at each fixture end. The housing is designed to wrap around the plate and secures on top with concealed screws to ensure housing tolerances are consistent. These die cast aluminum end caps and aligners provide zero tolerance alignment between fixtures, resulting in consistently straight rows with no snaking. The luminaire comes standard with a painted white steel reflector with specular inserts on the sides. A high efficiency reflector (HRF) option is constructed of high reflectance specular material and allows for wide distribution with maximum efficiency. An economical painted white reflector (WRF) is available.

Finish

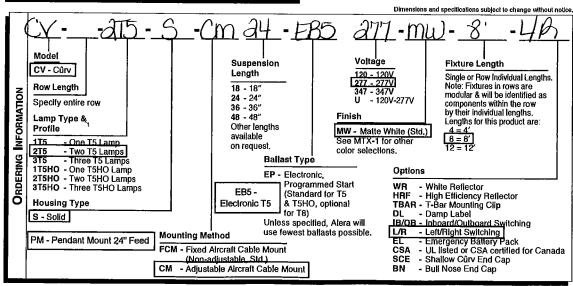
The housing and all painted parts are treated with a multi-stage phosphate bonding process before being finished. Parts are then finished with a white RAL powder coat finish for maximum consistent coverage and longevity.

Mounting

The Cûrv is designed for ceiling suspension and is provided with an alrcraft cable suspension mechanism. The fixed cable has a total vertical adjustment of 1½". End of cable barrel screws into a standard ½ 20 bolt brought down from the ceiling. Cover plates are provided to shield the ceiling cutout. A straight or optional coil cord is available for feed locations. A feed canopy is provided for each feed location, All fixtures are suspended in modular increments and must be supported at each fixture-housing end. Refer to the Cûrv TID sheet for actual hanging points for specific row information.

LABELS AND ELECTRICAL

All fixtures bear appropriate UL or CSA labels. Fixtures are prewired with small case electronic T5 or T5HO ballasts and are available in 120, 277, or 347 volt. All fixtures are wired for single circuit operation, but additional circuits can be supplied as an option by designating IBOB or LR switching.



24" NON FEED

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Catalog Number:

CV-2T5-S-PM 24" FEED / CM 24" NON FEED-EB5277-MW-8-L/R Notes:

Type:

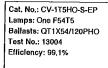
G21

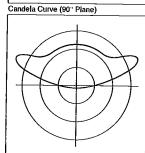
LEE07-6119

PHOTOMETRICS

CV, CûRV

ONE LAMP STANDRAD REFLECTOR





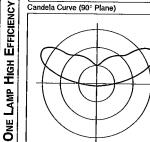
CANDLEPOWER									
Deg.	Parl.	45°	Norm,						
90	0	0	0						
95	40	187	138						
100	98	476	479						
105	169	847	781						
110	246	1025	1157						
115	324	1002	1363						
120	400	860	1373						
125	474	770	1192						
130	544	753	1012						
135	608	777	915						
140	668	801	892						
145	721	825	893						
150	768	845	895						
155	808	863	897						
160	842	879	897						
165	867	891	897						
170	886	899	897						
175	897	903	896						
180	900	900	900						

RC		-	80		T		70		$\overline{}$	50		0,20	
RW	70	50	30	10	70	60	30	10	50	30	10	0	
1	86	82	78	75	73	70	67	65	48	46	45	10	
2	78	71	66	61	66	61	57	53	42	39	37	10	
3	71	63	56	51	60	54	48	44	37	34	31	10	
4	65	55	48	43	55	47	41	37	33	29	26	10	
5	59	49	41	36	50	42	36	31	29	25	22	10	
6	54	43	36	31	46	37	31	27	26	22	19	١,	
7	50	39	32	26	42	33	27	23	23	19	16	0	
В	46	35	28	23	39	30	24	20	21	17	14	10	
9	43	31	25	20	36	27	21	17	19	15	12	0	
10	40	29	22	18	34	25	19	15	17	13	11	0	

			, , , ,						
ZONAL SUMMARY									
Zone	Lumens	Lainp	Fixture						
0-30	0	0	0						
0-40	0	0	0						
0-60	0	0	Ó						
0-90	0	0	0						
90-120	1777	40.4	40,8						
90-130	2513	57.1	57,6						
90-150	3626	82,4	83,2						
90-180	4359	99,1	100.0						
0-180	4359	99.1	100.0						

HIGH EFFICIENCY REFLECTOR

Cat. No.: CV-1T5HO-S-EP-HRF Lamps: One F54T5 Ballasts: QT1X54/120PHO Test No.: 13011 Efficiency: 99.7



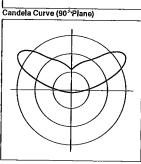
CANDL	EPOWER		
Deg.	Parl.	45°	Norm,
90	0	0	0
95	20	178	116
100	49	431	450
105	86	912	685
110	127	1134	1234
115	171	1222	1571
120	215	1152	1662
125	259	985	1676
130	301	846	1526
135	342	821	1239
140	379	794	1036
145	412	760	986
150	441	723	893
155	466	684	817
160	486	645	741
165	503	607	668
170	515	570	604
175	522	537	546
180	523	523	523

COE	FFICIE	NTS	of Ū	TILIZA'	TION		Etfe	ctive Flo	or Cavity	Reflec	tance =	0.20
RC		1	30			7	0		50			To
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	86	82	79	76	74	70	68	65	48	47	45	0
2	79	72	66	62	67	62	57	53	42	39	37	0
3	72	63	56	51	61	54	49	44	37	34	31	0
4	65	55	48	43	55	48	42	37	33	29	26	0
5	60	49	42	36	51	42	36	32	29	25	22	0
6	55	44	36	31	46	38	31	27	26	22	19	0
7	50	39	32	27	43	34	28	23	23	19	16	0
8	46	35	28	23	39	30	24	20	21	17	14	0
9	43	32	25	20	36	27	22	18	19	15	12	
10	40	29	22	18	34	25	19	15	17	14	11	0
Zon	AL SU	MMA	RY	-	\Box		-	_				

ZONAL SUMMARY								
Zone	Lumens	Lamp	Fixture					
0-30	0	0	0					
0-40	0	0	0					
0-60	0	0	Ö					
0-90	0	0	0					
90-120	1874	42.6	42,7					
90-130	2762	62,8	63.0					
90-150	3856	87,6	87,9					
90-180	4387	99,7	100,0					
0-180	4387	99,7	100.0					

EFFICIENCY REFLECTOR TWO LAMP HIGH

HRF
0



Deg.	Parl,	45-	Norm.
90	0	0	0
95	43	248	184
100	110	779	639
105	193	1288	1279
110	285	1913	1752
115	382	2322	2391
120	478	2341	3062
125	574	2191	3252
130	667	1999	3126
135	755	1812	2847
140	836	1698	2498
145	907	1634	2159
150	970	1562	1945
155	1025	1489	1784
160	1072	1412	1627
165	1108	1334	1475
170	1134	1256	1336
175	1149	1188	1211
180	1158	1158	1158
	90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170	90 0 95 43 100 110 105 193 110 285 115 382 120 478 130 667 135 755 140 836 145 907 150 970 155 1025 160 1072 165 1108 170 1134 175 1149	90 0 0 0 95 43 248 100 110 779 105 193 1288 110 285 1913 115 382 2342 120 478 2341 125 574 2191 130 667 1999 135 755 1812 140 836 1898 145 907 1634 150 970 1565 155 1025 1489 160 1072 1412 165 1108 1334 1256 175 1149 1188

CANDLEPOWER

COE	FFICIE	NTS	of U	TILIZA:	TION		Effe	ctive Flo	or Cavily	Refec	tance =	0.20
RC	80				1	70			T	50		
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	85	81	78	74	73	69	67	64	47	46	44	0
2	77	71	65	61	66	61	56	53	42	39	37	0
3	70	62	56	50	60	53	48	44	37	33	31	10
4	64	55	48	42	55	47	41	37	32	29	26	١٥
5	59	48	41	36	50	42	36	31	29	25	22	0
6	54	43	36	31	46	37	31	27	25	22	19	0
7	49	38	31	26	42	33	27	23	23	19	16	6
8	46	35	28	23	39	30	24	20	21	17	14	0
9	42	31	24	20	36	27	21	17	19	15	12	ŏ
10	39	28	22	17	33	24	19	15	17	13	11	0

ZONAL	ZONAL SUMMARY										
Zone	Lumens	Lamp	Fixture								
0-30	21	0,2	0.3								
0-40	34	0.4	0.5								
0-60	61	0.7	0.8								
0-90	91	1.0	1.3								
90-120	3237	36.8	37,4								
90-130	5057	57.5	58,5								
90-150	7483	85.0	86,5								
90-180	8645	98,2	100,0								
0-180	8645	98.2	100.0								



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HUBBELL Hubbell Lighting, Inc.

AL 06/02



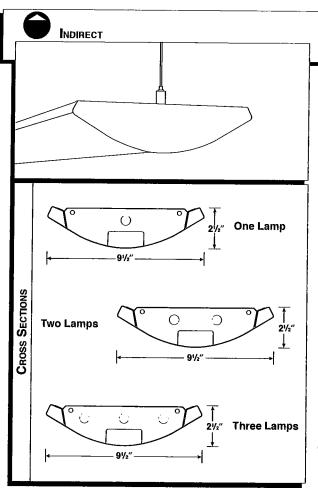
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: CV-2T5-S-PM 24" FEED / CM 24" NON FEED-EB5277-MW-8-L/R-GTD SUPPLIED BY LEESMAN FACTORY INSTALLED

Notes:

Type: G21GTD

LEE07-6119



Cûrv

Solid Housing, T5 or T5HO

Project: Location:

CONSTRUCTION

The Cûrv series is constructed of heavy 20-gauge steel with a $9½" \times 2½"$ profile. Fixtures are available with up to three T5 or T5HO lamps. The exact shape of the housing is maintained by the use of an inner die cast plate at each lixture end. The housing is designed to wrap around the plate and secures on top with concealed screws to ensure housing tolerances are consistent. These die cast aluminum end caps and aligners provide zero tolerance alignment between fixtures, resulting in consistently straight rows with no snaking. The luminaire comes standard with a painted white steel reflector with specular inserts on the sides. A high efficiency reflector (HRF) option is constructed of high reflectance specular material and allows for wide distribution with maximum efficiency. An economical painted white reflector (WR) is available.

The housing and all painted parts are treated with a multi-stage phosphate bonding process before being finished. Parts are then finished with a white RAL powder coat finish for maximum consistent coverage and longevily.

The Curv is designed for celling suspension and is provided with an aircraft cable suspension mechanism. The fixed cable has a total vertical adjustment of 11/4". End of cable barrel screws into a standard 1/4 20 bolt brought down from the celling. Cover plates are provided to shield the ceiling cutout, A straight or optional coil cord is available for feed locations, A feed canopy is provided for each feed location. All fixtures are suspended in modular increments and must be supported at each fixture-housing end. Refer to the Cûrv TID sheet for actual hanging points for specific row information.

LABELS AND ELECTRICAL

All fixtures bear appropriate UL or CSA labels. Fixtures are prewired with small case electronic T5 or T5HO ballasts and are available in 120, 277, or 347 volt. All fixtures are wired for single circuit operation, but additional circuits can be supplied as an option by designating IBOB or LR switching.

Dimensions and specifications subject to change without notice <u>-215 - Son CM 24 - FB5</u> 27 Model Voltage Suspension Fixture Length CV - Cûrv Length 120 - 120V Single or Row Individual Lengths. **Row** Length **18 -** 18" Note: Fixtures in rows are modular & will be identified as 24 - 24" - 120V-277V Specify entire row U components within the row by their individual lengths. 36 - 36 Finish 48 - 48 Lamp Type & Lengths for this product are: Other lengths Profile MW - Matte White (Std.) See MTX-1 for other available 1T5 -One T5 Lamp on request. 2T5 - Two T5 Lamps 3T5 - Three T5 Lamps 1T5HO - One T5HO Lamp color selections Ballast Type **Options** EP - Electronic, 2T5HO - Two T5HO Lamps 3T5HO - Three T5HO Lamps WR - White Reflector
HRF - High Efficiency Reflector
TBAR - T-Bar Mounting Clip Programmed Start EB5 (Standard for T5 **Housing Type** Electronic T5 & T5HO, optional for T8) - Damp Label S - Solid - Damp Label

IB/OB - Inboard/Outboard Switching

LR - Left/Right Switching

EL - Emergency Battery Pack

CSA - UL listed or CSA certified for Canada Unless specified, Alera will use fewest ballasts possible. Mounting Method PM - Pendant Mount 24" Feed CM - Fixed Aircraft Cable Mount (Non-adjustable Std.)
- Adjustable Aircraft Cable Mount SCF - Shallow Cûrv End Cap - Bull Nose End Cap

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Hubbell Lighting, Inc.

Subject to change without notice,

24" NON FEED

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Catalog Number: CV-2T5-S-PM 24" FEED / CM 24" NON FEED-EB5277-MW-8-L/R-GTD SUPPLIED BY LEESMAN FACTORY INSTALLED Notes:

Type: **G21GTD**

LEE07-6119

PHOTOMETRICS

CV, CÛRV

ONE LAMP STANDRAD REFLECTOR

Cat. No.: CV-1T5HO-S-EP Lamps: One F54T5 Ballasts: QT1X54/120PHO Test No.: 13004 Efficiency: 99,1%

Candela Curve (90" Plane)

CANDL	EPOWER	_	
Deg.	Parl.	45°	Norm.
90	0	0	0
95	40	187	138
100	98	476	479
105	169	847	781
110	246	1025	1157
115	324	1002	1363
120	400	860	1373
125	474	770	1192
130	544	753	1012
135	608	777	915
140	668	801	892
145	721	825	893
150	768	845	895
155	808	863	897
160	842	879	897
165	867	891	897
170	886	899	897
175	897	903	896
180	900	900	900

				TILIZA'					or Cavily	_		0,2
RC			30			7	0		l	50		0
RW	70	50	30	10	70	50	30	10	60	30	10	Į
1	86	82	78	75	73	70	67	65	48	46	45	To
2	78	71	66	61	66	61	57	53	42	39	37	0
3	71	63	56	51	60	54	48	44	37	34	31	0
4	65	55	48	43	55	47	41	37	33	29	26	0
5	59	49	41	36	50	42	36	31	29	25	22	0
6	54	43	36	31	46	37	31	27	26	22	19	10
7	50	39	32	26	42	33	27	23	23	19	16	0
8	46	35	28	23	39	30	24	20	21	17	14	0
9	43	31	25	20	36	27	21	17	19	15	12	0
10	40	29	22	18	34	25	19	15	17	13	11	10

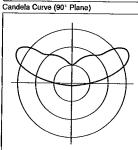
ZONAL	SUMMAR	ìΥ	
Zone	Lumens	Lamp	Fixture
0-30	- 0	0	0
0-40	0	0	ó
0-60	0	0	0
0-90	0	0	0
90-120	1777	40.4	40,8
90-130	2513	57,1	57.6
90-150	3626	82,4	83,2
90-180	4359	99,1	100.0
0-180	4359	99.1	100.0

EFFICIENCY REFLECTOR

HIGH

ONE LAMP

Cat. No.: CV-1T5HO-S-EP-HRF Lamps: One F54T5 Ballasts: QT1X54/120PHO Test No.: 13011 Efficiency: 99,7



Ľ	JANDL	EPOWER		
L	Deg.	Parl.	45°	Norm.
ļ	90	0	0	0
ı	95	20	178	116
L	100	49	431	450
L	105	86	912	685
ļ	110	127	1134	1234
Ĺ	115	171	1222	1571
ı	120	215	1152	1662
L	125	259	985	1676
ì	130	301	846	1526
i.	135	342	821	1239
Į	140	379	794	1036
L	145	412	760	966
1	150	441	723	893
ı	155	466	684	817
l	160	486	645	741
ı	165	503	607	668
ı	170	515	570	604
ĺ	175	522	537	546
L	180	523	523	523

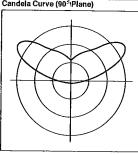
RC		-	30		$\overline{}$	-	0		or Cavily	50		l a
RW	70	50	30	10	70	50	30	10	50	30	10	6
1	86	82	79	76	74	70	68	65	48	47	45	0
2	79	72	66	62	67	62	57	53	42	39	37	0
3	72	63	56	51	61	54	49	44	37	34	31	0
4	65	55	48	43	55	48	42	37	33	29	26	0
5	60	49	42	36	51	42	36	32	29	25	22	0
6	55	44	36	31	46	38	31	27	26	22	19	10
7	50	39	32	27	43	34	28	23	23	19	16	0
8	46	35	28	23	39	30	24	20	21	17	14	0
9	43	32	25	20	36	27	22	18	19	15	12	0
10	40	29	22	18	34	25	19	15	17	14	11	١٥

ZONAL	SUMMAR	RY	
Zone	Lumene	Lamp	Fixture
0-30	0	0	0
0-40	0	0	0
0-60	0	0	0
0-90	0	0	0
90-120	1874	42.6	42,7
90-130	2762	62.8	63.0
90-150	3856	87.6	87,9
90-180	4387	99.7	100,0
0-180	4387	99,7	100,0

EFFICIENCY TWO LAMP HIGH

Cat. No.: CV-2T5HO-S-EP-HRF Lamps: Two F54T5 Ballasts: QT2X54/120PHO Test No.: 13007 Efficiency: 98,2

Candela Curve (90 Plane)



	Deg.	Parl.	45-	Norm.
	90	0	0	0
	95	43	248	184
	100	110	779	639
	105	193	1288	1279
	110	285	1913	1752
ı	115	382	2322	2391
	120	478	2341	3062
	125	574	2191	3252
	130	667	1999	3126
	135	755	1812	2847
	140	836	1698	2498
1	145	907	1634	2159
	150	970	1562	1945
	155	1025	1469	1784
Į	160	1072	1412	1627
ı	165	1108	1334	1475
ı	170	1134	1256	1336
I	175	1149	1188	1211
I	180	1158	1158	1158

CANDLEPOWER

RC	BO				70			T	60			
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	85	81	78	74	73	69	67	64	47	46	44	0
2	77	71	65	61	66	61	56	53	42	39	37	0
3	70	62	56	50	60	53	48	44	37	33	31	0
4	64	55	48	42	55	47	41	37	32	29	26	0
5	59	48	41	36	50	42	36	31	29	25	22	0
6	54	43	36	31	46	37	31	27	25	22	19	10
7	49	38	31	26	42	33	27	23	23	19	16	١,
8	46	35	28	23	39	30	24	20	21	17	14	0
9	42	31	24	20	36	27	21	17	19	15	12	0
10	39	28	22	17	33	24	19	15	17	13	11	0

ZONAL SUMMARY										
Zone	Lumens	Lamp	Fixture							
0-30	21	0.2	0.3							
0-40	34	0.4	0,5							
0-60	61	0,7	0.8							
0-90	91	1,0	1.3							
90-120	3237	36,8	37,4							
90-130	5057	57,5	58.5							
90-150	7483	85.0	86.5							
90-180	8645	98.2	100.0							
0-180	8645	98.2	100.0							



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HUBBELL

e Hubbell Lighting, Inc.

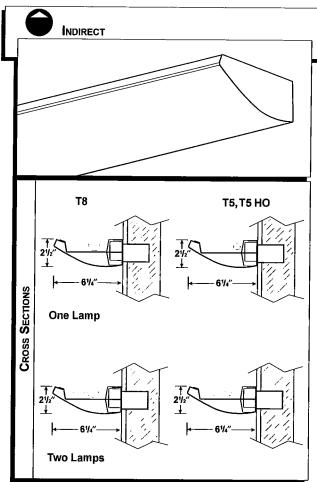


Catalog Number: CV-2T5-S-WM-EB5277-MW-8

Notes:

Туре: **G21S**

LEE07-6119



WALL MOUNT Project:

Location: _____

Cûrv

The Cûrv is constructed of heavy 20-gauge perforated or solid steel with a $6\frac{1}{4}$ " x $2\frac{1}{2}$ " profile. Perforated sections include a hole pattern that measures .0625" in diameter, provides 23% opening per square inch (refer to the TID sheet for an illustration), and has a white acrylic diffuser overlay.

Fixtures are available with one or two T5, T5 HO, or T8 lamps. The housing is designed to wrap around the Inner die cast plate and secure on top with concealed screws to ensure housing tolerances are consistent. Die cast aluminum endcaps and inner end plates have a tongue and groove connection eliminating the possibility of light leak and ensuring straight rows.

FINISH

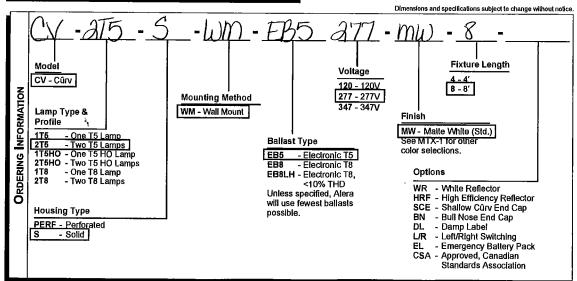
The housing and all painted parts are treated with a multi-stage phosphate bonding process before being finished. Parts are then finished with a white RAL powder coat finish for maximum consistent coverage and longevity.

MOUNTING

The Cûrv mounts directly to and is flush with the wall. A 1¾" x 3" cutout is provided in the unit to mount to a junction box. A cover plate is used to cover the exposed junction box. Keyhole slots on the back of the unit provide additional support. Consult the Installation Sheet for exact dimensions and location of holes and slots.

LABELS AND ELECTRICAL

All fixtures bear appropriate UL or CSA labels. Fixtures are prewired with electronic T5, T5 HO, or T8 ballasts and are available in 120, 277, or 347 volt. All fixtures are wired for single circuit operation, but left/right circuits can be added as an option.









Catalog Number: CV-2T5-S-WM-EB5277-MW-8

Notes:

Type:

G21S

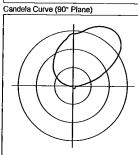
LEE07-6119

PHOTOMETRICS

CV, CûRV, WALL MOUNT

Cat. No.: CV-1T8-P-WM-EB8-HRF Lamps: One F32T8 Ballasts: REL1P32SC Test No.: 13103 Efficiency: 86.1

ONE LAMP



CANDL	CANDLEPOWER							
Deg.	Parl.	45^	Norm.					
0	10	10	10					
5	10	10	10					
15	9	11	12					
25	8	11	13					
35	7	11	17					
45	5	14	19					
55	7 5 3 2 1	14	17					
65	2	12	13					
75		7	9					
85	1	4	5					
90	1	2	3					
95	43	67	71					
105	197	290	262					
115	319	419	553					
125	401	473	720					
135	448	515	789					
145	486	535	783					
155	502	535	711					
165	503	518	622					
175	489	491	511					
180	488	488	488					
ENERG	V DATA							

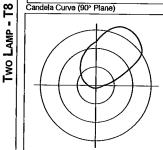
ENERGY DATA				
Energy Cost: \$3.64*	LER: 66			
Input Watts: 38	BF: 1,00			
*Comparative annual ligh				
energy cost per 1000 lumens based				
on 3000 hours and \$0.08	per KWH,			

RC			30		1		0		1	50		Τo
RW	70	50	30	10	70	50	30	10	50	30	10	ō
1	75	71	68	65	64	61	59	57	42	41	39	1
2	68	62	57	53	58	53	50	46	37	35	33	1
3	62	55	49	44	53	47	42	38	32	30	27	l١
4	57	48	42	37	48	41	36	32	29	25	23	1
5	52	42	36	31	44	37	31	27	25	22	19	10
6	47	38	31	27	40	33	27	23	23	19	17	١٥
7	43	34	27	23	37	29	24	20	20	17	14	0
8	40	30	24	20	34	26	21	17	18	15	12	0
9	37	27	21	17	32	24	19	15	17	13	11	١,
10	34	25	19	15	29	21	17	13	15	12	10	0

ZONAL SUMMARY								
Zone	Lumens	Lamp	Fixture					
0-30	7	0.3	0.3					
0-40	13	0.4	0.5					
0-60	27	0.9	1.1					
0-90	42	1.5	1.7					
90-120	788	27.2	31.5					
90-130	1235	42.6	49.5					
90-150	2002	69.0	80.2					
90-180	2455	84.7	98.3					
0-180	2497	86.1	100.0					

LUMINAN	ICE SUM	MARY	Footlamber
Degree	Parl.	45	Norm.
55	34	148	178
60	28	162	183
65	25	167	184
70	31	165	196
75	20	164	205
80	20	203	224
85	40	283	324

Cat. No.: CV-2T8-P-WM-EB8-HRF Lamps: Two F32T8 Ballasts: REL2P32SC Test No.: 13104 Efficiency: 81.9



Cat. No.: CV-1T5HO-P-WM-EB5-WR

Lamps: One F54T5 Ballasts: ICN2S54SC Test No.: 13174

CANDLEPOWER							
Deg.	Parl.	45°	Norm,				
0	38	38	38				
5	38	40	40				
15	35	44	46				
25	31	44	50				
35	26	42	54				
45	19	42	56				
55	12	40	50				
65	8	32	39				
75	4	20	27				
85	2	11	15				
90	2	8	10				
95	56	97	99				
105	252	395	344				
115	462	794	753				
125	660	1104	1134				
135	839	1272	1390				
145	988	1326	1485				
155	1104	1351	1443				
165	1185	1305	1358				
175	1227	1245	1236				
180	1228	1228	_1228				
ENER	GY DAT	Α					
Energy Cost: \$2.96* FR: 81							

ENERGY DATA				
Energy Cost: \$2,96*	LER: 81			
Input Watts: 59	BF: 1.00			
*Comparative annual lig				
energy cost per 1000 lumens based				
on 3000 hours and \$0.08	per KWH,			

COE	OEFFICIENTS OF UTILIZATION						Effective Floor Cavity Reflectance = 0,2					0,20
RC			30		!	7	0		50			0
RW	70	50	30	10	70	60	30	10	50	30	10	0
1	71	68	65	62	61	59	56	54	41	39	38	2
2	65	59	55	51	56	51	47	44	36	33	31	1 1
3	59	52	47	42	51	45	40	37	31	28	26	ı
4	54	46	40	35	46	40	35	31	28	25	22	1
5	49	41	34	30	42	35	30	26	24	21	19	Ιì
6	45	36	30	26	39	31	26	22	22	19	16	Ιì
7	41	32	26	22	35	28	23	19	20	16	14	Ιi
8	38	29	23	19	33	25	20	17	18	14	12	Ιi
9	35	26	20	17	30	23	18	15	16	13	10	١.
10	33	24	18	15	28	21	16	13	14	11	9	١٠

ZONAL SUMMARY							
Zone	Lumens	Lamp	Fixture				
0-30	29	0.5	0.6				
0-40	48	8.0	1.0				
0-60	90	1.6	1.9				
0-90	132	2.3	2.8				
90-120	1106	19.1	23,3				
90-130	1930	33.3	40.6				
90-150	3557	61.3	74.9				
90-180	4619	79.6	97.2				
0-180	4751	81.9	100.0				

LUMINAN	Footlambert		
Degree	Parl.	45°	Norm.
55	119	410	517
60	108	433	527
65	106	445	545
70	89	440	564
75	91	454	618
80	68	515	704
85	135	756	1026

Efficiency: 72.9					
Candela Curve (90° Rlane)					

CANDLEPOWER							
Deg.	Parl.	45~	Norm.				
0	9	9	9				
5	9	9	9				
15	8	10	11				
25	7	10	11				
35	6	10	11				
45	4	8	11				
55	2	7	9				
65		5	16				
75	0	19	28				
85	0	16	13				
90	1	13	62				
95	34	357	299				
105	142	866	998				
115	254	997	1267				
125	360	1019	1302				
135	454	1020	1252				
145	532	985	1174				
155	592	915	1052				
165	633	821	894				
175	655	717	731				
180	658	658	658				
ENERG	ENERGY DATA						

ENERGY DATA						
Energy Cost: \$4,44*	LER: 54					
Input Watts: 60	BF: 1.00					
*Comparative annual ligh						
energy cost per 1000 lumens based						
on 3000 hours and \$0.08	per KWH,					

COE	FFICIE	NTS	of U	TILIZA	TION	Effective Floor Cavity Reflectance = 0.2						
RC			30			7	0			50		To
RW	70	50	30	10	70	60	30	10	50	30	10	0
1	63	60	58	55	54	52	50	48	36	34	33	1
2	57	53	48	45	49	45	42	39	31	29	27	10
3	52	46	41	37	45	40	36	32	27	25	23	Ιò
4	48	41	35	31	41	35	31	27	24	21	19	0
5	44	36	30	26	37	31	26	23	21	19	16	١ō
6	40	32	26	23	34	27	23	20	19	16	14	0
7	37	29	23	19	31	25	20	17	17	14	12	0
8	34	26	20	17	29	22	18	15	15	13	10	١ō
9	31	23	18	15	27	20	16	13	14	11	9	0
10	29	21	16	13	25	18	14	11	13	10	8	٥١

ZONAL SUMMARY								
Zone	Lumens	Lamp	Fixture					
0-30	7	0.2	0.2					
0-40	11	0.3	0.3					
0-60	19	0.4	0.6					
0-90	45	1.0	1.4					
90-120	1188	27.0	37.0					
90-130	1721	39.1	53.7					
90-150	2609	59.3	81.4					
90-180	3162	71.9	98.6					
0-180	3207	72.9	100 0					

LUMINAN	LUMINANCE SUMMARY								
Degree	Pari.	45-	Norm.						
55	25	73	94						
60	25	67	91						
65	20	69	216						
70	12	109	413						
75	8	434	627						
80	0	886	742						
85	24	1097	859						



HUBBELL Hubbell Lighting, Inc.

AL 06/02



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

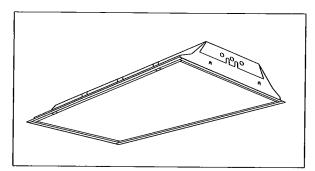
WT24-432G-FAA12.156INV-4EB8RLH277-F0835

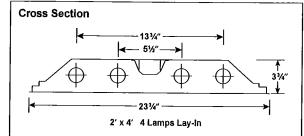
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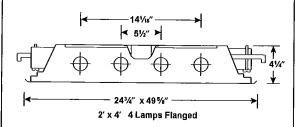
Type:

G4

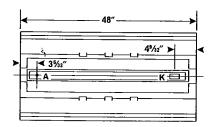
LEE07-6119







Flanged cut out dimensions for single unit only: 24" x 48\(^{1}\)/8"



A - 1/4" Diameter Knockout

K - 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

Complete ordering information on back. Dimensions and specifications subject to change without notice.

WT24-4 WET LOCATION "SHALLOW" TROFFER 2' x 4', 4 Lamps

Type: _____

Job Description: ____

Features

- · Wet label shallow housing troffer.
- Gasketed to provide additional seal between door, lens, and housing.
- · Mitered corners standard on door frame.
- · Rolled or hemmed housing edges.
- Mechanical light trap.
- All metal parts are white powder coat, painted after fabrication.
- · UL listed 1598 for wet location covered ceiling applications.
- Integral T-bar clips quickly secure fixture to the grid system without the need for time-consuming loose parts.
- Snap-in ballast covers can be removed when lamps are
- Corner hinging for easy insertion and removal of shielding frame.
- Flush steel shielding frame, screw assembled for easy diffuser replacement.
- Housing ends are secured by unique corner interlock and screws.
- Heat sink embossments behind ballasts for cooler operation and longer life.
- Metal to metal light leak protection on all four sides of shielding frame.

Flanged Features

- Four adjustable Uni-Lugs for quick easy installation.
- Optional plaster frames available for individual or row mounting.
- Fixture end flanges are removable for row mounting.
 Joiner channels are included.

Housing

Heavy gauge steel. Die formed for extra rigidity. Designed for installation in standard inverted tee grid ceilings.

Ballasts

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, unless otherwise specified.

Finish

All metal parts are processed with a 5 phase phosphate bonding treatment. Grid units are pre-painted with high gloss baked white enamel, 86% reflective. Flanged units are painted after fabrication with a polyester powder coat, reflectance of 90%.

Shielding

100% acrylic prismatic, extruded and roll-embossed, diagonally oriented female prisms, unless otherwise specified.

Labels

All fixtures carry the UL 1598 label. (CSA approval available. Use Suffix "CSA").

Flanged Unit Installation

Fixtures are installed from below the ceiling and have overlapping trim flanges. Adjustable Uni-Lugs secure the fixture to the ceiling structure. Plaster frames are available if required.







Catalog Number: WT24-432G-FAA12.156INV-4EB8RLH277-F0835

Туре: **G4**

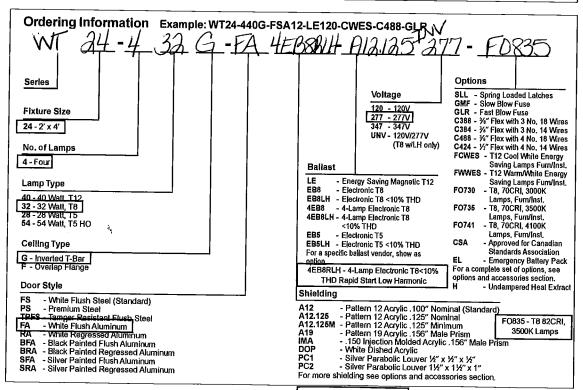
LEE07-6119

 $WT24-4 - 2' \times 4'$, 4 lamps

WET LOCATION "SHALLOW" TROFFER

Photometric Report

CONTACT FACTORY



T25



A12.156INV - Pattern 12 Acrylic .156" Thick Inverted

CO 12/04





Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

STR24-332G-MPO-3EB8RLH277-FO835

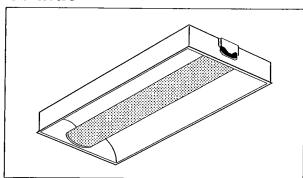
Notes:

Type:

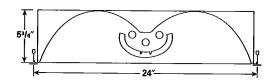
J3

LEE07-6119

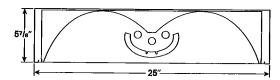
Stratus

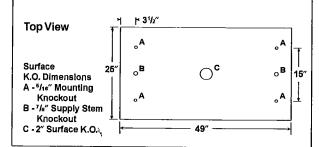


Cross Section - 2'x4', 3-lamp, lay-in Recessed



Surface

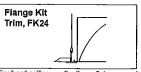




Ceiling Compatibility



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 11/2" allowed.



For hard ceilling applications, fixtures must be ordered with a flange kit that wires directly into the concealed ceilling opening for a clean finished appearance. T8 not available in rows. For T5 row configurations contact your local Columbia Representative.

Flange kit cut out dimension for single FK24 only: 243/8" x 483/8"

STR24-3

2'x 4', 3 Lamp, Linear Indirect Recessed Luminaire

Туре:	
Job Description:	

Features

- Precision optical system produces an efficient luminaire without sacrificing high visual comfort.
- Completely recessed, provides a clean ceiling while providing soft, uniform indirect illumination in rooms with ceilings as low as 8 feet.
- Available for use with T8, T5 or HO T5 linear fluorescent lamps.
- White powder coat finish, painted after fabrication.
- · Ease of installation and maintenance.
- UL listed 1570 and CUL approved.

Construction

Luminaire housing and endcaps are die formed code gauge cold rolled steel. The two piece aluminum reflector is profiled to a precision curve and finished with a matte white paint that provides soft, uniform, indirect illumination. Matte white perforated light basket snaps securely into place for ease of lamp replacement. Thermoplastic light traps snap into the housing at both ends of the light basket to prevent light leaks.

Einieh

Custom formulated soft non-glare white powder coat finish on the housing, light basket, and reflector is applied after fabrication.

Shielding

A perforated metal light basket (46% opening) with an opal acrylic overlay is standard.

inetallation

For fast wiring connections without the necessity of opening fixture or wireway, a flex connector adaptor plate is furnished with each luminaire.

Labels & Electrical

All luminaires are listed with U.L. and CUL and bear appropriate recessed fixture labels. Completely wired with class "P," thermally protected, resetting, HPF, CBM ballast. Sound rated A. All ballast leads extend a minimum of 6" through the access opening.

Recessed Ceiling Compatibility

The Stratus is available to fit NEMA type G (lay-in) and type F (overlapping flange) recessed ceiling systems. The type G unit fits into a standard grid ceiling. For type F applications, a type G fixture must be ordered along with a flange kit for the fixture to sit in. The flange kit is assembled in the field and is wired directly to the ceiling structure. The flange kit should be installed before the fixture is installed. For row mounting applications, contact factory.

Surface or Pendant Mount

Attractive surface mount units available to match performance and aesthetics of recessed models. See reverse side for ordering information.

O40.1





Catalog Number:

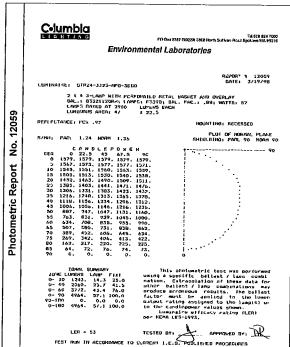
STR24-332G-MPO-3EB8RLH277-FO835

Notes:

Type:

J3

LEE07-6119



Data Energy

LER: 53 Input Watts: 82 Energy Cost: \$4.53*

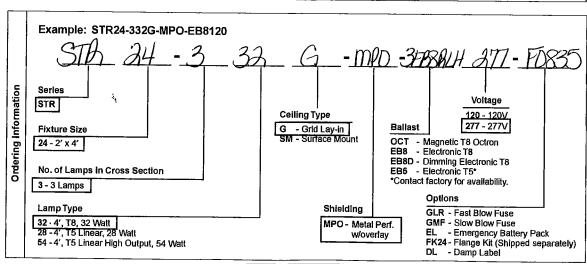
BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.

c i	Zonal Ca	Coefficients of Utilization Conal Cavity Method Floor Reflectance20												
of Utilization	RC			30		Γ	7	0			50		0	
<u>za</u>	RW	70	50	30	10	70	50	30	10	50	30	10	0	
Œ	1	62	60	57	55	61	58	56	54	56	54	52	49	
ニー	2	57	52	48	45	55	51	47	44	49	46	43	41	
ō	3	52	46	41	38	50	45	41	37	43	40	37	34	
\$	4	47	41	36	32	46	40	35	32	38	34	31	29	
E 1	5	43	36	30	27	42	35	30	26	34	29	26	24	
5	6	40	32	27	23	38	31	26	23	30	26	23	21	
₽!	7	36	28	23	20	35	28	23	20	27	23	20	18	
Coefficients	8	33	25	20	17	33	25	20	17	24	20	17	16	
ŭΙ	9	31	23	18	15	30	22	18	15	22	18	15	13	
- 1	10	29	21	16	13	28	20	16	13	20	16	13	12	

<u>=</u>			e - 80, 50, : e Illuminatio	VCP								
Probability		om om L	Ht.	8.5	Lumir Lengt 10.0		•	Ht.		Lumir Cross 10.0	wise	
	20	20		60	68	80	90		53	60	74	87
5	20	40		53	57	63	70		47	49	52	59
Ě	30	30		54	58	65	75		50	52	57	68
5	30	60		52	53	55	60		47	48	47	51
ပ	40	40		53	55	58	64		50	50	51	56
Visual Comfort	40	60		52	53	53	58		49	49	47	50
S	60	30		57	60	63	71		54	56	59	68
5	60	40		55	56	57	62		52	52	52	56
	60	60		53	53	52	56		51	50	48	50
	60	80		53	53	51	53		50	50	46	48



040.1

C-lumbia LIGHTING 3EB8RLH - 3 Lamp Electronic T8 <10% THD Rapid Start Low Harmonic

FO835 - T8 82CRI. 3500K Lamps



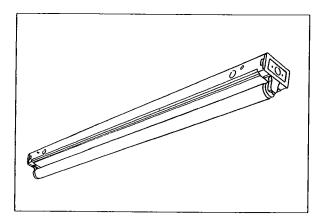
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: CS4-132-EB8RLH277-CSWG4

Notes:

Type:

L14

LEE07-6119



CS2-1, CS3-1 CS4-1, CS8-1 STRAIGHTLINER CHANNEL ONE LAMP TS & RS

Туре:	
Job Description:	

FEATURES:

- Available 2', 3', 4' or 8'.
- · Heavy die formed steel channel.
- · Rotary lock lampholders for positive lamp contact.
- · Channel ends double as joiners.
- · Individual or row mounting. Surface or suspended.
- Ballast covers on 4' and 8' units are secured with 1/4-turn fasteners.

SPECIFICATIONS:

Ballasts

Energy efficient ballasts are thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, unless otherwise specified. 20 watt ballasts are trigger start, low power factor, Class P. All are U.L. listed.

Housing

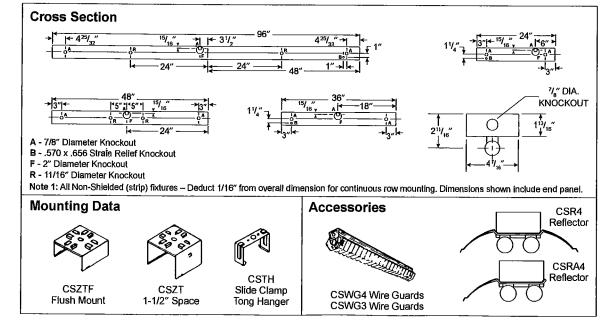
Die formed steel with heat sink embossments for cooler running ballasts. Socket saddles are factory installed.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over Iron phosphate pre-treatment for maximum adhesion and rust resistance.

Labels

All fixtures carry the U.L. label. 2', 3' and 4' units are listed for use on combustible low density, cellulose fiberboard ceilings. (CSA approval available. Use Suffix "CSA"). (HPF only).







Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

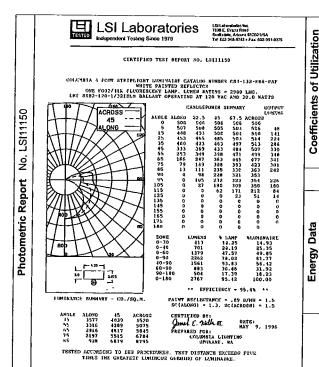
CS4-132-EB8RLH277-CSWG4

Notes:

Type:

L14

LEE07-6119

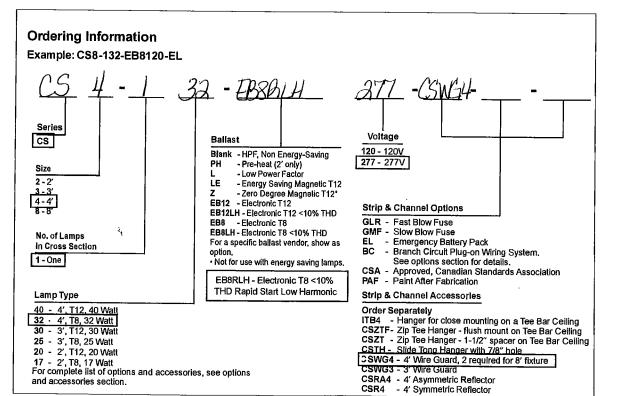


٦	Zonal Ca	wily Me	thod		Coef	fficier	its of	Utiliz	ation		loor Re	eflectan	ce20
Utilization	RC RW	70	50	30 30	10	70	7 50	0 30	10	50	50 30	10	0
Coefficients of Utili	1 2 3 4 5 6 7 8 9 10	97 87 78 71 65 59 55 50 46 43	91 78 67 59 52 46 41 37 33 30	86 70 59 50 42 37 32 28 25 22	81 64 52 43 36 30 26 22 19	92 83 75 68 61 56 52 48 44	87 74 64 57 49 44 39 35 32 29	83 67 57 48 41 35 31 27 24 21	78 61 50 42 35 29 25 22 19	80 68 59 52 45 40 36 32 29 27	76 62 53 45 38 33 29 25 22 20	73 57 47 39 33 28 24 20 18	59 47 38 32 26 22 19 16 14

LER: FS-85 Input Watts: 30 Energy Cost: \$2.82* BF: .92

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.



C1



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

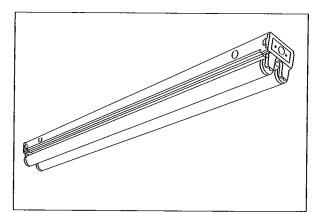
CS4-232-EB8RLH277-CSWG4

Notes:

Type:

L24

LEE07-6119



CS2-2, CS3-2 CS4-2, CS8-2 STRAIGHTLINER CHANNEL TWO LAMP TS & RS

Туре:	
Job Description:	

FEATURES:

- Available 2', 3', 4' or 8'.
- · Heavy die formed steel channel.
- · Rotary lock lampholders for positive lamp contact.
- · Channel ends double as joiners.
- · Individual or row mounting. Surface or suspended.
- Ballast covers on 4' and 8' units are secured with 1/4-turn fasteners.

SPECIFICATIONS:

Ballasts

Energy efficient ballasts are thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, unless otherwise specified. 20 watt ballasts are trigger start, low power factor, Class P. All are U.L. listed.

Housing

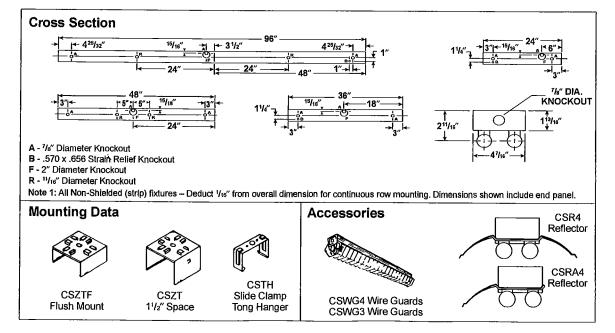
Die formed steel with heat sink embossments for cooler running ballasts. Socket saddles are factory installed.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

Labels

All fixtures carry the U.L. label. 2', 3' and 4' units are listed for use on combustible low density, cellulose fiberboard ceilings. (CSA approval available. Use Suffix "CSA").







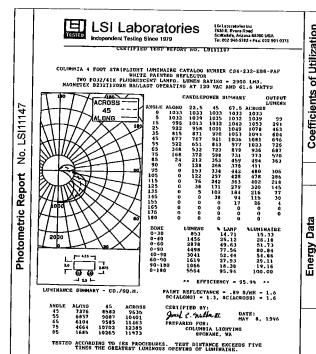
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: CS4-232-EB8RLH277-CSWG4

Notes:

Type:

L24

LEE07-6119

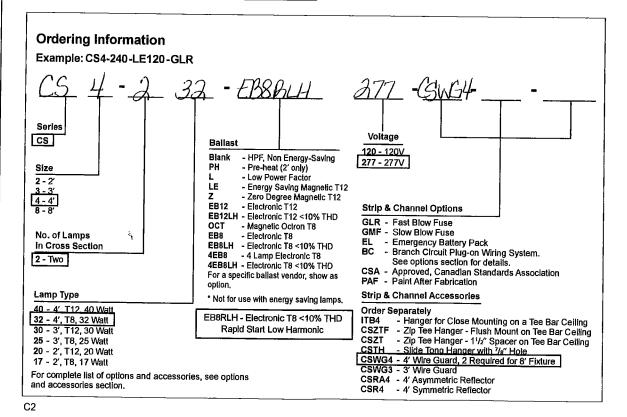


5	Zonal Ca	avity Me	Uhod	F	ioor R	eflectar	ice20						
izatio	RC RW	70	50	30 30	10	70	7 50	0 30	10	50	50 30	10	0
Coefficients of Utilization	1 2 3 4 5 6 7 8 9	98 88 80 73 66 60 55 51 47 44	93 79 69 60 53 47 42 37 34 31	88 72 60 52 44 38 33 29 25 22	84 66 54 45 37 32 27 23 20 17	94 84 76 69 62 57 53 48 45 42	89 76 66 58 51 45 40 36 32 29	84 69 58 50 42 37 32 28 25 22	80 64 52 43 36 30 26 22 19	81 69 60 53 46 41 37 33 30 27	78 64 54 46 39 34 30 26 23 20	75 59 49 41 34 29 25 21 18 16	60 48 40 33 27 23 20 17 14

LER: FS-79 Input Watts: 62 The above energy Energy Cost: \$3.04* BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.





Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

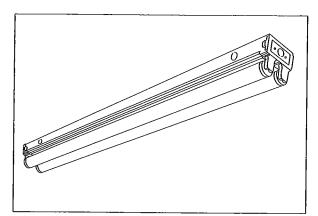
CS8-232-4EB8RLH277-(2)CSWG4

Notes:

Type:

L28

LEE07-6119



CS2-2, CS3-2 CS4-2, CS8-2 STRAIGHTLINER CHANNEL TWO LAMP TS & RS

Type:	 	
Job Description:	 	

FEATURES:

- · Available 2', 3', 4' or 8'.
- · Heavy die formed steel channel.
- · Rotary lock lampholders for positive lamp contact.
- · Channel ends double as joiners.
- · Individual or row mounting. Surface or suspended.
- Ballast covers on 4' and 8' units are secured with 1/4-turn fasteners.

SPECIFICATIONS:

Ballasts

Energy efficient ballasts are thermally protected, automatic resetting, Class P, high power factor, CBM, sound rated A, unless otherwise specified. 20 watt ballasts are trigger start, low power factor, Class P. All are U.L. listed.

Housing

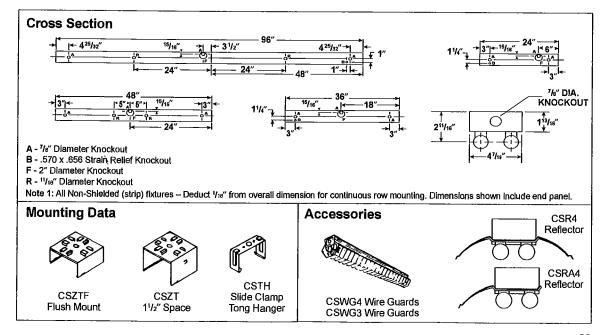
Die formed steel with heat sink embossments for cooler running ballasts. Socket saddles are factory installed.

Finish

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

Labels

All fixtures carry the U.L. label. 2', 3' and 4' units are listed for use on combustible low density, cellulose fiberboard ceilings. (CSA approval available. Use Suffix "CSA").







Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

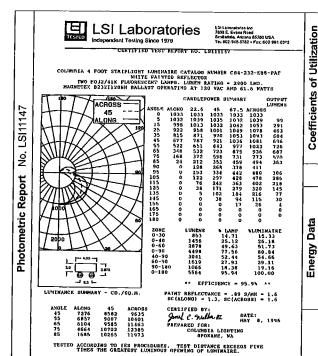
CS8-232-4EB8RLH277-(2)CSWG4

Notes:

Type:

L28

LEE07-6119



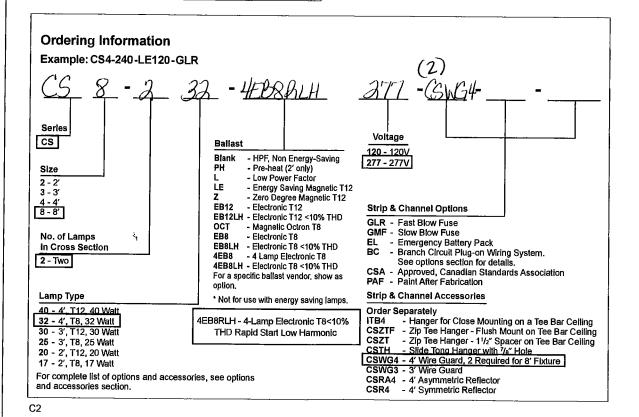
ڃ	Coefficients of Utilization Zonal Cavity Method										Floor Reflectance20			
Utilization	RC	80				70				50			0	
Ň.	RW	70	50	30	10	70	50	30	10	50	30	_10	0	
更	1 1	98	93	88	84	94	89	84	80	81	78	75	60	
<u>ا ت</u>	2	88	79	72	66	84	76	69	64	69	64	59	48	
6		80	69	60	54	76	66	58	52	60	54	49	40	
छ।	4	73	60	52	45	69	58	50	43	53	46	41	33	
Coefficients	5	66	53	44	37	62	51	42	36	46	39	34	27	
-∺	6	60	47	38	32	57	45	37	30	41	34	29	23	
ŭΙ	7	55	42	33	27	53	40	32	26	37	30	25	20	
e l	8	51	37	29	23	48	36	28	22	33	26	21	17	
였	9	47	34	25	20	45	32	25	19	30	23	18	14	
9	10	44	31	22	17	42	29	22	17	27	20	16	12	

LER: FS-79 Input Watts: 62 The above energy Energy Cost: \$3.04*

BF: .88

The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.







Catalog Number: 1A/AR2/400MH277/PS-P/ SQUARE POLE ARM Notes: Type: LSA2

LEE07-6119



AR

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Type:

Job:

Catalog number:

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Approvals:

Date: Page: 1 of 5

Housing One size laws

stainless steel or electro-zinc plated steel.

Housing: One piece low copper (less than .6%) die-cast aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is

Lens Frame: One piece low copper (less than .6%) die-cast aluminum alloy lens frame with 1° minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one piece extruded and vulcanized silicone gasket. Clear ¾6′ thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzak° optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base, MH sockets are porcelain mogul base, pin-oriented, with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

Support Arm: One piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

Optional Wall Mounting: Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture.

NOTE: Junction Box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16.

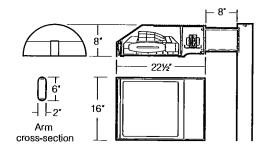
Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.

CAUTION: Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

Specifications

150 to 400 watt Mogul Base Lamps Maximum Fixture weight (400HPS) = 45 |b





Type:



Job Name: Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: 1A/AR2/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA2

LEE07-6119



AR

Page: 2 of 5

5600403076

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Job:

Standard Features

Mounting	Plan View:					A		Wall Moun		
3Y configuration is available for round poles only.		-		T.						
	EPA:	1.2	2.4	2.0	3.2	3.2	3.9	n/a		
	Cat. No.:	1 ∕1A	[]2B	[]2L	[] 3T	[] 3Y	[]4C	[]1W		
Fixture Cat. No. designates fixture and light distribution. See the Kim Site/Roadway	Flat Lens					(i)		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Optical Systems Catalog for detailed information on	Light Distribution:		Type II Full Cutoff		Type III	Type IV Forward Throw		Type V Square		
reflector design and application.	Cat. No.:		AR2		Full Cutofi	f Full Cu □ AF		Full Cutof		
Electrical Module	Cat. Nos. for Electrical Modules available:									
HPS = High Pressure Sodium MH = Metal Halide PMH = Pulse Start Metal Halide	Lamp	☐ 150I ☐ 150I ☐ 150I ☐ 150I		☐ 2501 ☐ 2501 ☐ 2501 ☐ 2501		☐ 400HPS120☐ 400HPS240☐ 400HPS277☐ 400HPS347☐ 400HPS480☐ E-18, Clear	BT-J	75MH120 75MH208 75MH240 75MH277 75MH347 75MH480 28 or 28, Clear		
Lamp Lamp Line	ANSI Ballast Type			S-50	base	S-51		gul Base Oriented 7		
Watts Typė Volts 400 HPS 277	,,		MH208 MH240 MH277 MH347			☐ 250PMH120 ☐ 250PMH208 ☐ 250PMH240 ☐ 250PMH277 ☐ 250PMH347 ☐ 250PMH347	3 □4) □4 ' □4	00PMH120 00PMH208 00PMH240 00PMH277 00PMH347 00PMH480		
	Lamp	BT-28 c ED-28,	Clear	ED-28,		ED-28, Clear		28, Clear		
	Socket ANSI Ballast Type	Mogul Pin-Ori M-58		Mogul I Pin-Orio M-59	Base ented	Mogul Base M-138	Mog M-1	gul Base 35		
Finish Super TGIC powder coat paint over a chromate conversion coating. 2003 KIM LIGHTING INC. • P.O. BOX	Cat. No.: Custom colo Consult repre	ors subje esentativ	e. Custom c	LC onal charg olor descr	ges, minimuription:	ım quantities an	WH-P	Custom Color CC-P d lead times.		



Catalog Number: 1A/AR2/400MH277/PS-P/ SQUARE POLE ARM Notes: Type: LSA2

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AR

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Type:

Job:

Page: 3 of 5



Optional Features

Wall Mounting Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment Cat. No. 1W Select from Mounting on bracket (WEB) is provided to accept draw bolts, and a page **2**. trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture. Wall mount using wall embedment bracket - J-box in wall (by others) Photocell Receptacle Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA base photocell (by others). For all multiple-fixture pole mountings with two or three fixtures, one fixture has a receptacle to ☐ No Option Receptacle operate the others. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles. Mounting (see page 2) *-Fixture with Photocell Receptacle S - slave unit(s) 2L 3T, 3Y 4C Allowable wattage per fixture: 150-400W 150-250W 400W Convex Glass Lens The 3/16" thick clear convex tempered glass lens replaces Cat. No.

CGL the standard flat glass lens. Provides increased lens presence and provides a subtle improvement in ☐ No Option uniformity where pole spacing is extreme. Increases effectiveness of houseside shielding. Convex Glass Lens Polycarbonate Lens Fixture supplied with a one piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt Cat. No. \square LS ☐ No Option maximum. May be used with 400HPS in outdoor

locations where ambient air temperature during fixture

CAUTION: Use only when vandalism is anticipated to

be high. Useful life is limited by UV discoloration from

operation will not exceed 85°F.

sunlight and metal halide lamps.

Polycarbonate Lens



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: 1A/AR2/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA2

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AR

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Type:

Job:

Page: 4 of 5



Optional Features

Houseside Shield (Types II, III, and IV only). Fixtures with the standard flat glass lens are available with stamped aluminum Cat. No. (See right) ☐ No Option louvers that pass streetside light and block houseside light, and a blackened panel added to the reflector to reduce houseside reflections. Fixtures with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to the reflector to reduce houseside reflections. Use with HS HSC for flat lens for convex lens or clear lamps only, as coated lamps reduce effectiveness. polycarbonate lens Cat. No. ☐ HS Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V light distributions. □ HSC For use with all fixtures with convex glass lens. Not for use with Type V light distributions. Tamper-Resistant Latch Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent Cat. No.

TL unauthorized opening. ☐ No Option NOTE: Required only for vandal protection in locations where fixtures can be reached by unauthorized persons. Tamper-Resistant Latch **Horizontal Slipfitter Mount** Replaces standard mounting arm with a slipfitter which Davit-arm with 2" pipe-size allows fixture to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2%" O.D.). Cat. No. HSF fixture mount (by others) No Option Cast aluminum clamp-type slipfitter with set screw anti-rotation lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Horizontal Slipfitter Finished to match fixture. Mount by Kim Special Options for Terminal Block: (For field wire connections.) Street Lighting 85AMP, 600V box clamp terminal block mounted to the housing inside the electrical compartment. Accepts Terminal Block Cat. No. (See right) #14-4 wire. Factory prewired to electrical module quick-disconnect plug. ☐ No Option Air Filter: Allows for ventilation through the optical chamber, filtering all air particles above 500 microns.

□ No Option

Multi-layer disc assembly mounted on solid wall

between optical compartment and latch cavity.

Air Filter



Catalog Number: 1A/AR2/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA₂

LEE07-6119



AR

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Type:

Job:

Page: 5 of 5



Optional Features

Vertical Slipfitter Mounts Cat. No. includes Mounting Cat. No. (See right) ☐ No Option

Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2%" O.D. x 4%" min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4° square or round die-cast aluminum with flush cap, secured by four % stainless steel set point allen screws, finished to match fixture and arm.

NOTE: 3Y only available on round slipfitter.



tenon (by others)

Slipfitter Mount by Kim

Cat. No.

VSF-1A

VSF-2B

VSF-2L

VSF-3T

VSF-3Y

□ VSF-4C

Round

Stainless steel set screws

Cat. No.

SVSF-1A
SVSF-2B
SVSF-2L ☐ SVSF-3T ☐ SVSF-4C Square

Mounting Configuration 1A - single arm mount **2B** - 2 at 180° 2L - 2 at 90°

3T - 3 at 90° **3Y** - 3 at 120° **4C** - 4 at 90°

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i,		



Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM Notes: Type: LSA3

LEE07-6119



AR

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Type:					Approvals:
Job:					
Catalog	g numbe	r:			
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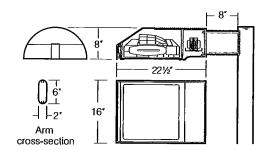
Mig. Fixture Electrical Module Finish Options Optional
See page 2 See page 3-4 Vertical
Shipfitter Mount
See page 5

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Date: Page: 1 of 5

Specifications

150 to 400 watt Mogul Base Lamps Maximum Fixture weight (400HPS) = 45 lb



Housing: One piece low copper (less than .6%) die-cast aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

Lens Frame: One piece low copper (less than .6%) die-cast aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one piece extruded and vulcanized silicone gasket. Clear ¾c thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzak² optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base, MH sockets are porcelain mogul base, pin-oriented, with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

Support Arm: One piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

Optional Wall Mounting: Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture.

NOTE: Junction Box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.

CAUTION: Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.





Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA3

LEE07-6119



AR

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Type: Job:

Page: 2 of 5



Standard Features

Mounting	Plan View:				_			Wall Mount
3Y configuration is available for round poles only.		■-		1				■-
	EPA:	1.2	2.4	2.0	3.2	3.2	3.9	n/a
	Cat. No.:	11A	1 2B	2L	[.] 3T	(3Y	[]4C	[11W
Fixture Cat. No. designates fixture and light distribution. See the Kim Site/Roadway	Flat Lens					(i)		
Optical Systems Catalog for detailed information on	Light Distrib	ution:	Type II Full Cuto	ff	Type III Full Cutoff	Type IV Forward Ti Full Cut	hrow	Type V Square Full Cutoff
reflector design and application.	Cat. No.:		□ AR2		AR3			
Electrical Module	Cat. Nos. for	Electrica			(2711.0			
HPS = High Pressure Sodium MH = Metal Halide PMH = Pulse Start Metal Halide		150 150 150 150 150 150	HPS120 HPS208 HPS240 HPS277 HPS347 HPS480	☐ 250H ☐ 250H ☐ 250H ☐ 250H ☐ 250H	HPS120 HPS208 HPS240 HPS277 HPS347 HPS480	400HPS120 400HPS208 400HPS240 400HPS277 400HPS347 400HPS480	1 0 1 0 1 0 1	75MH120 75MH208 75MH240 75MH277 75MH347 75MH480
Lamp Lamp Line	Lamp Socket ANSI Ballast			E-18, C Mogul		E-18, Clear Mogul Base S-51	ED- Mos	28 or 28, Clear gul Base Oriented 7
Watts Type Volts 400 HPS 277	Туре		ЛН208 ЛН240 ЛН277 ЛН347	400N 400N 400N 400N 400N	ЛН208 ЛН240 ЛН277 ЛН347 ЛН480	☐ J 250PMH120 ☐ 250PMH208 ☐ 250PMH240 ☐ 250PMH277 ☐ 250PMH347 ☐ 250PMH480	∐4 □4 □4	00PMH120 00PMH208 00PMH240 00PMH277 00PMH347 00PMH480
	Lamp	BT-28 c ED-28,	Clear	ED-28,		ED-28, Clear	ED-:	28, Clear
	Socket	Mogul I Pin-Ori		Mogul I Pin-Orio		Mogul Base	Mog	gul Base
	ANSI Ballast Type			M-59	crico	M-138	M-1	35
Finish Super TGIC powder coat paint over a chromate conversion coating.	Cat. No.:	BL-P ors subje	Dark Bronz DB-P ct to additions. Custom of	□ LG onal charg	ges, minimu	inum Silver Wh	VH-P	Custom Color ¹ CC-P d lead times.



Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM Notes: Type: LSA3

LEE07-6119



AR

The Archetype® revision 3/17/03 • ar.pdf

Type:

Job:

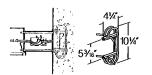
Page: 3 of 5



Optional Features

Wall Mounting
Cat. No. 1W
Select from Mounting on page 2.

Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket (WEB) is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture.



Wall mount using wall embedment bracket - J-box in wall (by others)

 Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA base photocell (by others). For all multiple-fixture pole mountings with two or three fixtures, one fixture has a receptacle to operate the others. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles.



Receptacle

Mounting (see page 2)

*-Fixture with Photocell Receptacle S - slave unit(s)

1A, 1W 2B s 1 s 2L 3T, 3Y





Allowable wattage per fixture:

150-400W

150-250W

400W

Convex Glass Lens Cat. No.

CGL

☐ CGL ☐ No Option

The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens. Provides increased lens presence and provides a subtle improvement in uniformity where pole spacing is extreme. Increases effectiveness of houseside shielding.



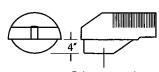
Polycarbonate Lens Cat. No.

LS

☐ No Option

Fixture supplied with a one piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt maximum. May be used with 400HPS in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and metal halide lamps.



Polycarbonate Lens



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA3

LEE07-6119



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Type:

Job:

Page: 4 of 5



Optional Features

Houseside Shield (Types II, III, and IV only). Fixtures with the standard Cat. No. (See right) flat glass lens are available with stamped aluminum louvers that pass streetside light and block houseside ☐ No Option light, and a blackened panel added to the reflector to reduce houseside reflections. Fixtures with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to HS HSC the reflector to reduce houseside reflections. Use with for flat lens for convex lens or clear lamps only, as coated lamps reduce effectiveness. polycarbonate lens Cat. No. Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V light distributions. ☐ HSC For use with all fixtures with convex glass lens. Not for use with Type V light distributions. Tamper-Resistant Latch Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent Cat. No.

TL unauthorized opening. ☐ No Option **NOTE:** Required only for vandal protection in locations where fixtures can be reached by unauthorized persons. Tamper-Resistant Latch Horizontal Slipfitter Mount Replaces standard mounting arm with a slipfitter which Davit-arm with 2" pipe-size allows fixture to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2%" O.D.). Cat. No. HSF fixture mount (by others) No Option Cast aluminum clamp-type slipfitter with set screw anti-rotation lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Horizontal Slipfitter Finished to match fixture. Mount by Kim Special Options for **Terminal Block:** (For field wire connections,) Street Lighting 85AMP, 600V box clamp terminal block mounted to Terminal Block the housing inside the electrical compartment. Accepts Cat. No. (See right) #14-4 wire. Factory prewired to electrical module quick-disconnect plug. □ No Option Air Filter: Allows for ventilation through the optical chamber, filtering all air particles above 500 microns. Multi-layer disc assembly mounted on solid wall

☐ No Option

between optical compartment and latch cavity.

Air Filter



Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA₃

LEE07-6119



AR

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Job:

Page: 5 of 5



Optional Features

Vertical Slipfitter Mounts Cat. No. includes Mounting Cat. No. (See right) ☐ No Option

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Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2%" O.D. x 4½" min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4" square or round die-cast aluminum with flush cap, secured by four 3% stainless steel set point allen screws, finished to match fixture and arm. finished to match fixture and arm.

Stainless

NOTE: 3Y only available on round slipfitter.



tenon (by others)

Slipfitter Mount by Kim

Cat. No. □ VSF-1A

□ VSF-2B □ VSF-2L □ VSF-3T □ VSF-4C

steel set screws

Round

Square

Cat. No.

SVSF-1A

SVSF-2B

SVSF-2L ☐ SVSF-3T

☐ SVSF-4C

Mounting Configuration 1A - single arm mount 2B - 2 at 180°

2L - 2 at 90° 3T - 3 at 90° 3Y - 3 at 120° 4C - 4 at 90°

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Job:



Job Name: Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM-HS Notes: Type: LSA3

LEE07-6119



Catalog number:

AR

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Approvals:

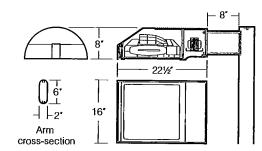
	_				
	1		1	1	1
Mig.	Fixture	Electrical Module	Finish	Options	Optional
1				See pages 3-4	Vertical
		-— See page 2 ——			Slipfitter Mount
					See nage 5

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Date: Page: 1 of 5

Specifications

150 to 400 watt Mogul Base Lamps Maximum Fixture weight (400HPS) = 45 lb



Housing: One piece low copper (less than .6%) die-cast aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

Lens Frame: One piece low copper (less than .6%) die-cast aluminum alloy lens frame with 1° minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one piece extruded and vulcanized silicone gasket. Clear ¾6′ thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzak² optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base, MH sockets are porcelain mogul base, pin-oriented, with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

Support Arm: One piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

Optional Wall Mounting: Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture.

NOTE: Junction Box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.

CAUTION: Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.





Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM-HS Notes: Type: LSA3

LEE07-6119



AR

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Type:

Job:

Page: 2 of 5



Standard Features

Mounting	Plan View:							Wali Mount
3Y configuration is available for round poles only.				T.				
	EPA:	1.2	2.4	2.0	3.2	3.2	3.9	n/a
	Cat. No.:	IZ1A	[]2B		[]3T	[] 3Y	[]4C	L J 1W
Fixture Cat. No. designates fixture and light distribution.	Flat Lens)		(in		
See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.	Light Distrib	ution:	Type II	<i>,</i> ,	Type III	Type Forward	Γhrow	Type V Square
	Cat. No.:	-	Full Cuto	it 	Full Cutoff AR3	Full Cu		Full Cutoff
Electrical Module HPS = High Pressure Sodium MH = Metal Halide PMH = Pulse Start Metal Halide Lamp Lamp Line Watts Type Volts 400 HPS 277	Lamp Socket ANSI Ballast Type	150h 150h 150h 150h 150h 150h E-231/k, Mogul I	IPS120 IPS208 IPS208 IPS240 IPS277 IPS347 IPS480 Clear Base IH120 IH208 IH240 IH277 IH347 IH480	vailable:	IPS208 IPS240 IPS277 IPS347 IPS480 lear 3ase IH120 IH208 IH240 IH277 IH347 IH480	400HPS120	1	75MH120 75MH208 75MH240 75MH277 75MH347 75MH480 .8 or 28, Clear yul Base Oriented 7 00PMH120 00PMH208 00PMH240 00PMH247 00PMH347 00PMH347
	Socket ANSI Ballast	ED-28, 6 Mogul E Pin-Orie M-58	Base	Mogul E Pin-Orie	Base	Mogul Base	Mog	ul Base
	Type	BC-IVI		M-59		M-138	M-1	35
Finish Super TGIC powder coat paint over a chromate conversion coating.	Cat. No.:	BL-P	Dark Bronze DB-P ct to addition. Custom co	□ LG nal charg	es, minimu		WH-P	Custom Color ¹ CC-P d lead times.



Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM-HS Notes: Type: LSA3

LEE07-6119



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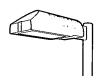
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revision 3/17/03 • ar.pdf

Type:

Job:

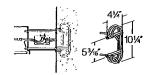
Page: 3 of 5



Optional Features

Wall Mounting
Cat. No. 1W
Select from Mounting on page 2.

Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket (WEB) is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture.



Wall mount using wall embedment bracket - J-box in wall (by others)

 Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA base photocell (by others). For all multiple-fixture pole mountings with two or three fixtures, one fixture has a receptacle to operate the others. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles.



Receptacle

Mounting (see page 2)

*-Fixture with Photoce

*—Fixture with Photocell Receptacle
S—slave unit(s)







Allowable wattage per fixture:

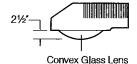
150-400W

2L

4C 4C 150-250W 400W

Convex Glass Lens
Cat. No. CGL
No Option

The $\frac{3}{16}$ thick clear convex tempered glass lens replaces the standard flat glass lens. Provides increased lens presence and provides a subtle improvement in uniformity where pole spacing is extreme. Increases effectiveness of houseside shielding.



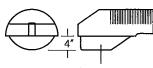
Polycarbonate Lens Cat. No.

LS

☐ No Option

Fixture supplied with a one piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt maximum. May be used with 400HPS in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and metal halide lamps.



Polycarbonate Lens



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM-HS Notes:

Type: LSA3

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AR

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Type:

Job:

Page: 4 of 5



Optional Features

Houseside Shield
Cat. No. (See right)
{ J No Option

(Types II, III, and IV only). Fixtures with the standard flat glass lens are available with stamped aluminum louvers that pass streetside light and block houseside light, and a blackened panel added to the reflector to reduce houseside reflections. Fixtures with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to the reflector to reduce houseside reflections. Use with clear lamps only, as coated lamps reduce effectiveness.



HS for flat lens



HSC for convex lens or polycarbonate lens



Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V light distributions.

For use with all fixtures with convex glass lens. Not for use with Type V light distributions.

Tamper-Resistant Latch

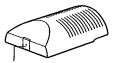
Cat. No.

TL

No Option

Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent unauthorized opening.

NOTE: Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

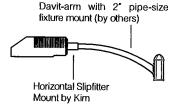


Tamper-Resistant Latch

Horizontal Slipfitter Mount Cat. No. HSF

No Option

Replaces standard mounting arm with a slipfitter which allows fixture to be mounted to a horizontal pole davit-arm with 2° pipe-size mounting end (23%° O.D.). Cast aluminum clamp-type slipfitter with set screw anti-rotation lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Finished to match fixture.



Special Options for Street Lighting

Cat. No. (See right)

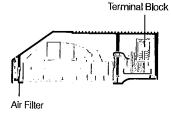
Terminal Block: (For field wire connections.)

85AMP, 600V box clamp terminal block mounted to the housing inside the electrical compartment. Accepts #14-4 wire. Factory prewired to electrical module quick-disconnect plug.

. □ТВ

☐ No Option

Air Filter: Allows for ventilation through the optical chamber, filtering all air particles above 500 microns. Multi-layer disc assembly mounted on solid wall between optical compartment and latch cavity.



□ AF□ No Option



Catalog Number: 1A/AR3/400MH277/PS-P/ SQUARE POLE ARM-HS Notes:

Type: LSA₃

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AR

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Job:

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Optional Features

Vertical Slipfitter Mounts Cat. No. includes Mounting Cat. No. (See right) ☐ No Option

Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2%" O.D. x 4½" min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4" square or round die-cast aluminum with flush cap, secured by four 3/6" stainless steel set point allen screws, finished to match fixture and arm.

NOTE: 3Y only available on round slipfitter.



tenon (by others)

by Kim

Cat. No.

VSF-1A

VSF-2B

VSF-2L

VSF-3T □ VSF-4C

Stainless steel set screws Round

Cat. No. Square

SVSF-2B ☐ SVSF-3T ☐ SVSF-4C

Mounting Configuration 1A - single arm mount 2B - 2 at 180° 2L - 2 at 90° 3T - 3 at 90°

3Y - 3 at 120° 4C - 4 at 90°

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Catalog Number: 1A/AR4/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA4

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Typ Jol Cat) :	number:				Approvals:	
	1	/	1	1	1		
Alto	Fivtura	Flactrical Modula	Emich	Outrous	Outuned		

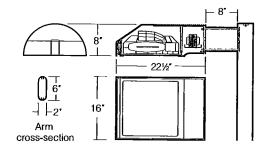
Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Date:

Page: 1 of 5

Specifications

150 to 400 watt Mogul Base Lamps Maximum Fixture weight (400HPS) = 45 lb



Housing: One piece low copper (less than .6%) die-cast aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

Vertical Shpfitter Mount

Lens Frame: One piece low copper (less than .6%) die-cast aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one piece extruded and vulcanized silicone gasket. Clear 3/16" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzak² optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base, MH sockets are porcelain mogul base, pin-oriented, with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

Support Arm: One piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

Optional Wall Mounting: Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture.

NOTE: Junction Box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating, 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.

CAUTION: Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury



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Catalog Number: 1A/AR4/400MH277/PS-P/ SQUARE POLE ARM Notes:

Type: LSA4

LEE07-6119



AR

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Type:
Job:

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Standard Features

11								
Mounting 3Y configuration is available for round poles only.	Plan View:	-		T-				Wall Mount
	EPA: Cat. No.:	1.2 1A	2.4 [] 2B	2.0	3.2	3.2 [] 3Y	3.9 [] 4C	n/a [] 1W
Fixture Cat. No. designates fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.	Flat Lens Light Distribut	\Box	Type II Full Cuto)	Type III Full Cutoff	Type IV Forward Th Full Cyto	row off	Type V Square Full Cutoff
Electrical Module HPS = High Pressure Sodium MH = Metal Halide PMH = Pulse Start Metal Halide	Cat. Nos. for	☐ 150H ☐ 150H ☐ 150H ☐ 150H ☐ 150H	l Modules a IPS120 IPS208 IPS240	☐ 250H ☐ 250H ☐ 250H ☐ 250H ☐ 250H	HPS120 HPS208 HPS240 HPS277 HPS347 HPS480	400HPS120 400HPS208 400HPS240 400HPS277 400HPS347 400HPS480		5MH120 5MH208 5MH240 5MH277 5MH347 5MH3480
	Lamp Socket	E-23½, Mogul I		E-18, C		E-18, Clear Mogul Base	Mogu	, Clear
Lamp Lamp Line Watts Type Volts 400 HPS 277	ANSI Ballast Type		1H208 1H240 1H277 1H347	S-50	ИН208 ИН240 ИН277 ИН347	S-51 1. 250PMH120 1. 250PMH208 1. 250PMH240 1. 250PMH277 1. 250PMH347 1. 250PMH480	□ 400 □ 400 □ 400 □ 400	PMH120 PMH208 PMH240 PMH277 PMH347 PMH380
	Lamp Socket	BT-28 o ED-28, Mogul E	Clear	ED-28,		ED-28, Clear Mogul Base	ED-28	, Clear Base
	ANSI Ballast Type	Pin-Orie		Pin-Orio M-59		M-138	M-135	
Finish Super TGIC powder coat paint over a chromate conversion coating.	Cat. No.:	BL-P ors subject	Dark Bronze DB-P t to addition Custom co	□ LG nal char	ges, minimu	inum Silver Whi S-P	/H-P □	stom Color ¹ CC-P lead times.



Catalog Number: 1A/AR4/400MH277/PS-P/ SQUARE POLE ARM Notes: Type: LSA4

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AR

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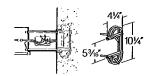
Page: 3 of 5



Optional Features

Wall Mounting
Cat. No. 1W
Select from Mounting on page 2.

Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket (WEB) is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture.



Wall mount using wall embedment bracket - J-box in wall (by others)

 Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA base photocell (by others). For all multiple-fixture pole mountings with two or three fixtures, one fixture has a receptacle to operate the others. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles.



Receptacle

Mounting (see page 2)

*-Fixture with Photocell Receptacle
S-slave unit(s)

2B 3T, 3Y





Allowable wattage per fixture:

150-400W

2L

150-250W

400W

Convex Glass Lens Cat. No.

CGL

☐ No Option

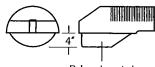
The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens. Provides increased lens presence and provides a subtle improvement in uniformity where pole spacing is extreme. Increases effectiveness of houseside shielding.



☐ No Option

Fixture supplied with a one piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt maximum. May be used with 400HPS in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and metal halide lamps.



Polycarbonate Lens



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: 1A/AR4/400MH277/PS-P/ SQUARE POLE ARM Notes: Type:

LSA4

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AR

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Job:

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Optional Features

Houseside Shield (Types II, III, and IV only). Fixtures with the standard Cat. No. (See right) flat glass lens are available with stamped aluminum louvers that pass streetside light and block houseside light, and a blackened panel added to the reflector to No Option reduce houseside reflections. Fixtures with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to HS HSC the reflector to reduce houseside reflections. Use with for flat lens for convex lens or clear lamps only, as coated lamps reduce effectiveness. polycarbonate lens Cat. No. ☐ HS Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V light distributions. ☐ HSC For use with all fixtures with convex glass lens. Not for use with Type V light distributions. Tamper-Resistant Latch Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent Cat. No. unauthorized opening. ☐ No Option **NOTE:** Required only for vandal protection in locations where fixtures can be reached by unauthorized persons. Tamper-Resistant Latch **Horizontal Slipfitter Mount** Replaces standard mounting arm with a slipfitter which Davit-arm with 2" pipe-size allows fixture to be mounted to a horizontal pole davit-arm with 2' pipe-size mounting end (2%' O.D.). Cat. No. HSF fixture mount (by others) No Option Cast aluminum clamp-type slipfitter with set screw anti-rotation lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Horizontal Slipfitter Finished to match fixture. Mount by Kim **Special Options for** Terminal Block: (For field wire connections.) Street Lighting 85AMP, 600V box clamp terminal block mounted to Terminal Block the housing inside the electrical compartment. Accepts Cat. No. (See right) #14-4 wire. Factory prewired to electrical module quick-disconnect plug. □ No Option Air Filter: Allows for ventilation through the optical chamber, filtering all air particles above 500 microns. Multi-layer disc assembly mounted on solid wall Air Filter between optical compartment and latch cavity.

☐ No Option



Catalog Number: 1A/AR4/400MH277/PS-P/ SQUARE POLE ARM

Type: LSA4

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Type: Job:

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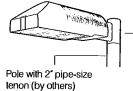


Optional Features

Vertical Slipfitter Mounts Cat. No. includes Mounting Cat. No. (See right) ☐ No Option

Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2%" O.D. x 4%" min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4" square or round die-cast aluminum with flush cap, secured by four 3/8" stainless steel set point allen screws, finished to match fixture and arm.

NOTE: 3Y only available on round slipfitter.



Vertical Slipfitter Mount by Kim

Cat. No.

VSF-1A

VSF-2B

VSF-2L

VSF-3T ☐ VSF-4C

Round

Stainless steel set screws

Cat. No. ☐ **SVSF-1A** Square

SVSF-2B SVSF-2L ☐ SVSF-3T ☐ SVSF-4C

Mounting Configuration

1A - single arm mount **2B** - 2 at 180°

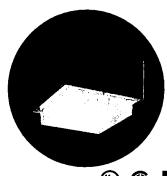
2L - 2 at 90° 3T - 3 at 90° **3Y** - 3 at 120° **4C** - 4 at 90°

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HUNTINGTON

Features

- Square, formed and welded aluminum housing.
- Extruded aluminum door fully gasketed to housing. Concealed hinge door secured with captive screw. Drop prismatic acrylic, drop prismatic polycarbonate, or flat CT73 patterned glass lens provide symmetric light pattern.
- Semi-specular, anodized aluminum reflector for horizontal lamp. HP, high performance optics, consists of specular, anodized aluminum reflector panels.
- Ceiling mount provided with bolt and wiring holes in housing top. Mogul porcelain socket, pulse rated, with spring loaded, nickel plated center contact and reinforced lamp grip screw shell. Medium base for ED-17 lamp.
- CWA type ballast, HPF, starting rated at -20°F (-40°F for HPS).
 UL and CSA listed for wet locations.



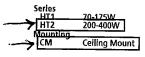


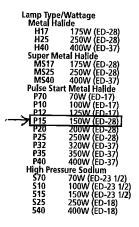


SURFACE AND

RECESSED

Ordering Information Example: HT2 CM H25 ΗP - DA Q DB Lamp/ Series Mount Optics Lens Volts Color Options

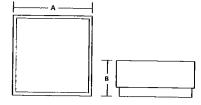




Ontics	
—>HL	Standard
<u> </u>	High Performance Optics
	(HT2 only)
Lens	(1112 Olly)
> DA	Drop Acrylic
7 <u>107</u>	Drop Polycarbonate
FGP	Flat CT73 Glass Lens (Prismatic)
Voltage	riat C173 Glass Lens (Frisinatic)
	Ound Tone
	Quad Tap®
r	(120, 208, 240, 277V) ¹
<u>5</u>	480V ²
- '-	120/277/347V CSA ¹
Color	
DB	Dark Bronze
BL.	Rlack ,
→ WH	White
GR	Gray Platinum Silver
PS	Platinum Silver
RD	Red (Premium Color) Forest Green (Premium Color)
FG	Forest Green (Premium Color)
cc	Custom Color (Consult Factory)
Options	
<u>F1</u>	Fusing - 120V
F2	Fusing - 208V
, <u>F3</u>	Eusing - 240V
>- <u> F4</u>	Fusing - 277V
्र हुन	Fusing - 480V Fusing - 347V
F6	Fusing - 34/V
QZ	Quartz RS with lamp
L	Lamp

- Factory wired for highest voltage unless specified.
- Not available with 70 or 100W Pulse Start Metal Halide lamps.

Dimensions



_	Α	В	Weight
	14" sq.	8"	20 (bs.
HT1	356 mm	203 mm	9.1 kg
ĺ	21 1/8" sq.	10"	40 lbs.
HT2	537 mm	254 mm	18.1 kg

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HUNTINGTON

Features

- Square, formed and welded aluminum housing.
- Extruded aluminum door fully gasketed to housing. Concealed hinge door secured with captive screw. Drop prismatic acrylic, drop prismatic polycarbonate, or flat CT73 patterned glass lens provide symmetric light pattern.
- Semi-specular, anodized aluminum reflector for horizontal lamp. HP, high performance optics, consists of specular, anodized aluminum reflector panels.
- Ceiling mount provided with bolt and wiring holes in housing top.
- Mogul porcelain socket, pulse rated, with spring loaded, nickel plated center contact and reinforced lamp grip screw shell. Medium base for ED-17 lamp.
- CWA type ballast, HPF, starting rated at -20°F (-40°F for HPS).
- UL and CSA listed for wet locations.







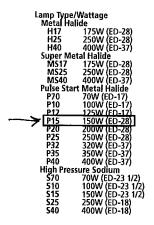
SURFACE

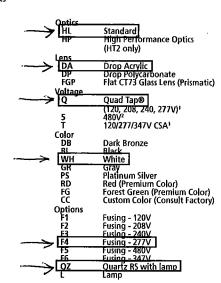
AND

RECESSED LUMINAIRES

Ordering Information Example:	HT2	- Cî	Л	- H25	НР	-	DA	-	Q	-	DB	-	F1
S	eries	Mou	nt	Lamp	 Optics	l	Lens	1	Voits		Color	0	ptions

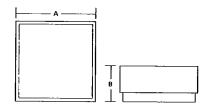
Series HT1 70-175W HT2 200-400W Mounting CM Ceiling Mount





- 1 Factory wired for highest voltage unless specified.
- Not available with 70 or 100W Pulse Start Metal Halide lamps.

Dimensions



	Α	В	Weight
ſ	14" sq.	8"	20 lbs.
HT1	356 mm	203 mm	9.1 kg
	21 1/8" sq.	10"	40 lbs.
HT2	537 mm	254 mm	18.1 ka

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Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: YOVH-13-1PLC26-277-OPAL-WHT-LAMP INCLUDED

Notes:

Type:

PS2E

LEE07-6119



FIXTURE TYPE: -

WALL MOUNT 1 or 2 PLC 13/18/26 1 PLT 32/42

VANDAL RESISTANT FLUORESCENT

SPECIFICATIONS

Housing

One piece injection molded UV stabilized polycarbonate secured to baseplate with (2) stainless steel TORX® head screws and sealed against moisture and contaminents with two high temperature silicone O-rings. Color is molded through entire part for scratch resistant finish.

Lens

One piece injection molded UV stabilized prismatic polycarbonate with minimum .130" wall thickness. Available in clear or opal and secured to baseplate by housing and silicone

O-rings.

Die formed heavy gauge specular aluminum, Reflector

shaped for maximum efficiency.

Baseplate Pressure die cast marine grade aluminum.

Chemically primed and finished with electrostatically applied polyester powder

Socket High temperature thermo plastic, precision snap locked to specular reflector bracket for

easy interchangeability.

Ballast

Electronic microprocessor controlled highfrequency class P high power factor ballast. Ballast shall have less than 10% total

harmonic distortion.

Gasket Closed cell die cut neoprene gasket provided

between fixture baseplate and mounting surface. High temperature silicone O-ring

between lens and baseplate.

UL Listing Wet location, 595, C.UL.

OPTIONS

EMB

Emergency battery pack. Will operate one or two lamps for a minimum of 90 minutes. Self contained within fixture, CAB is required and included.

CAB

Cast aluminum backbox. Provided with (5) 1/2" i.p.t, holes for conduit entry and 4 threaded plugs. Chemically primed and finished with electrostatically applied polyester powder coat.

WMC

Cast aluminum 700 series wiremold adapter.

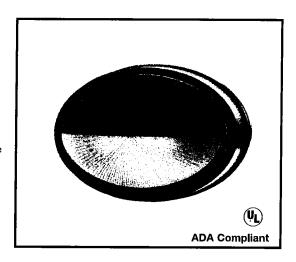
PC

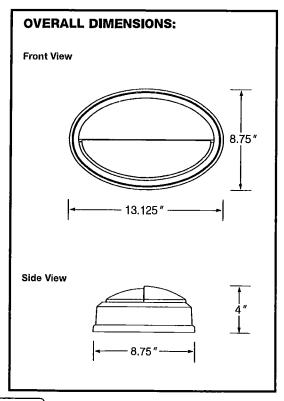
Button type photoelectric switch. Requires

CAB option.

GLR

Fuse and fuse holder.





Palent Pending

Luminaire

www.luminairelighting.com

7 Olsen Avenue ■ P.O. Box 2104 ■ Edison, New Jersey 08818 ■ Telephone (732) 549-0056 ■ FAX (732) 549-9737

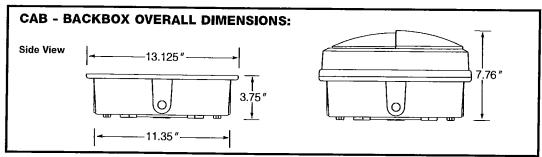


Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: YOVH-13-1PLC26-277-OPAL-WHT-LAMP INCLUDED Notes:

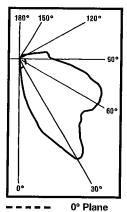
Type: PS2E

LEE07-6119



PHOTOMETRIC DATA

CANDLEPOWER DISTRIBUTION CURVE



MODEL YOVH13 - 1PLC26

LTL #04418

Cast aluminum housing, formed specular aluminum reflector, clear polycarbonate prismatic lens.

Lamp: One Sylvania CF26DD/E/835 rated at 1800 lumens.

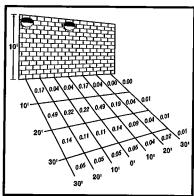
Mounting: Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt					
0-30	38	2.1	13.4					
0-40	77	4.3	27.0					
0-60	160	8.9	56,1					
0-90	261	14.5	91,3					
90-120	24	1.3	8.3					
90-130	25	1.4	8.7					
90-150	25	1.4	8.7					
90-180	25	1.4	8.7					
0-180	285	15.9	100.0					

Total efficiency: 15.9% CIE type: Direct

FOOTCANDLE DISTRIBUTION PATTERN



Mounting Height	Multiplying Factor
5	4.00
6'	2,78
7'	2.04
8'	1,56
9'	1,23
10'	1.00

ORDERING INFORMATION

90° Plane

EXAMPLE: YOVH 13 - 1PLC13 - 120V - CP - BLK - GLR

YOVH 13 WHI lamo incl Series Lamps (Included) Volts Lens Colors Options 1 PLC13 CP-Clear WHT-White 2 PLC13 277 Prismatic **BLK-**Black 1 PLC18 OP-Opal **BRZ-** Bronze 2 PLC18 **GRY-** Grev 1 PLC26 2 PLC26 1 PLT32 1 PLT42 GLR-Fuse and fuse holder

Catalog No.:		_
Fixture Type:	Voltage:	_
Job Name:		
Approved By:		

EMB-Emergency battery pack-(CAB included)

CAB-Cast aluminum backbox WMC-Cast aluminum 700 series wiremold adapter PC-Photoelectric switch

(requires CAB)

LAMP INCLUDED

For complete photometric test reports and custom colors or finishes, please contact your local representative. Availability and specifica-tions subject to change without notice,

www.luminairelighting.com

Luminaire Lighting Corporation

FL YOVH13 12/04

7 Olsen Avenue ■ P.O. Box 2104 ■ Edison, New Jersey 08818 ■ Telephone (732) 549-0056 ■ FAX (732) 549-9737



Catalog Number: INDA-XX-150MHT6-277-MAL-LAMP 150 Notes: Туре: **PS4**

LEE07-6119

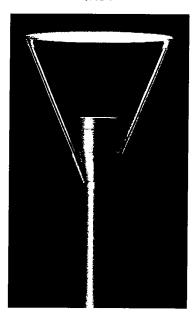
Indirect

page 1 of 4

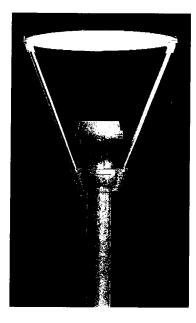
DATE

TYPE

INDF



INDA



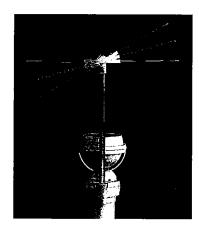
Construction

- Integral ballast assembly in fixture for easy installation.
- Lightweight aluminum composite upper reflector minimizes pole stress.
- · Stainless steel vertical struts.
- Round or square upper reflectors available for both models.
- Reflector tilts and locks at 0, 15 or 30 degrees.
- Both models use the AAL Indirect Reflector System. The optics reduce uplight to less than one percent, improving efficiency while complying with dark sky ordinances.

Reflector Adjustment

The Indirect upper reflector can be tilted 15 or 30 degrees for an asymmetrical light distribution. The locking clamp design insures a consistent tilt angle on all fixtures. The Indirect model INDA has an adjustable lamp head to focus the light beam onto the center of the shade, when the shade is tilted. This improves efficiency and minimizes

any stray light beyond the reflector.





Catalog Number: INDA-XX-150MHT6-277-MAL-LAMP 150 Notes:

Type: **PS4**

LEE07-6119

Indirect	page 2 of 4 DATE TYPE
IXTURE REFLECTOR BALLAST OPTIC	ONS COLOR ARM BASE-POLE
1 2 3 4	DAGE TOLE
FIXTURE	2 REFLECTOR - UPPER
VINDA Adjustable head INDF Straight, fixed head	d RD 30" Round SQ 30" Square
28.4 in 32 in 720mm 815mm 815mm	SELECT REFLECTOR
BALLAST	5 COLORS
INC For use with mini cand base, incandescent	WHT White
lamps up to 250 watts, 120 volts.	I LOV III II O
CF Compact Fluorescent, electronic ballast 120 thru 277 volt, 18° C starting temperature, Use 4-pin	MAL Motto Aluminum
26, 32 or 42 watt lamp. for INDA - 26 watts only. 70MH 70 watt metal halide 120/208/240/277 volt ball	
→ ast. Use a medium base, clear ED-17 lamps.	
For INDF models only. 70MHEB 70 watt electronic metal halide ballast 120	ATG Antique Green
thru 277 volt. Use a medium base, clear ED-17 lamp. For INDF models only.	U VGR Verde Green
70MHT6 70 watt metal halide magnetic, multitap ballast 120/277 volt. Use a G12 base, clear T-6	WRZ Weathered Bronze
ceramic MH lamp,	DGN Dark Green
70MHT6EB 70 watt electronic metal halide ballast 120 thru 277 volt. G12 base, use a clear T-6 ceramic	CRT Corten
metal halide lamp. 100MH 100 watt metal halide 120/208/240/277 volt ball	BRM Metallic Bronze
J ast. Use a medium base, clear ED-17 lamps.	DBZ Dark Bronze
For INDF models only. 150MH 150 watt metal halide 120/208/240/277 volt bal	BLK Black
last. Use a medium base, clear ED-17 lamps. For INDF models only.	MTB Matte Black
150MHEB 150 watt electronic metal halide ballast 120	RAL # Provide a RAL 4 digit color numb
thru 277 volt. Use a medium base, clear ED-17 amp. For INDF models only.	CUSTOM Please provide a color chip for matchir
150MHT6 150 watt metal halide magnetic multitap ballast 120/208/240/277 volt. G12 base, use a	
clear 1-6 ceramic metal halide lamp.	
IL-55 55 watt, Phillips Induction Lamp system with transformer. Specify 120, 208, 240 or 277 volt. For INDF models only.	
IL-85 85 watt, Phillips Induction Lamp system with transformer. Specify 120, 208, 240 or 277 volt.	
ballasts are factory wired for 277 volts. Lamps not included.	277
LD TO PO# JO	B NAME Approvals
chitectural Area Lighting	
249 Artesia Blvd / La Mirada, CA 90638 1.994.2700 / fax 714.994.0522 / www.aal.net	

Submitted by Leesman Sales



Job Name: Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: INDA-XX-150MHT6-277-MAL-LAMP 150 Notes: Type: **PS4**

LEE07-6119

Indirect page 3 of 4 DATE TYPE 4 OPTIONS CDC Center deflector cone for SR Two aluminum rings CFH Color filter holder attached round reflector (RD). attached to the fixture, for INDA to the fixture, for INDA (adjustable Provides a wider light distribution, (adjustable model) only. model) only. Factory installed. Factory installed. LAMP70 Philips® 70 watt clear T-6 ceramic metal halide lamp, CDM70/T6/830 LAMP150 Philips® 150 watt clear T-6 ceramic metal halide lamp, CDM70/T6/830 120/277/347 magnetic ballast for the 150 watt metal halide lamp. 347 AD5 Cast aluminum adapter for the PMAT arm to slip over a 5"/127mm pole 6 ARMS FOR WALL OR POLE MOUNTING WMA Wall mounted arm, 10 lbs. PMAT Twin pole mount arm, slips over a 4"/100mm pole or tenon. 14 lbs, EPA: .83 4 in/100mm -4 in/100mm 34 in/865mm 34 in/865mm

14249 Artesia Blvd / La Mirada, CA 90638 714.994.2700 / fax 714.994.0522 / www,aal,net Ref: Indirect.pdl copyright 2005, design patented



Catalog Number: INDA-XX-150MHT6-277-MAL-LAMP 150 Notes:

Туре: **PS4**

LEE07-6119

Indirect

page 4 of 4

DATE

TYPE

Specifications

UPPER REFLECTOR

The upper reflector shall be a light weight aluminum composite. The reflector shall be finished in a white, fluoropolymer finish. The reflector shall be attached to the cast aluminum pivot joints and secured with four stainless steel bolts. Two cast aluminum, adjustable knuckles shall connect the reflector assembly to the vertical, stainless steel struts. The struts are #316 stainless steel with a minimum .250" wall thickness. The struts shall have threaded connections for attachment to the upper reflector and the lamp module.

LAMP MODULE

The reflector shall be enclosed in die cast aluminum housing. The front cover is secured with four cap screws for relamping and internal access. The front glass element is clear, tempered glass. The front cover and electrical module are sealed with a memory retentive, molded silicone gaskets.

The parabolic reflector shall be prefocused to illuminate the upper reflector with no stray light beyond the reflector. The fixture shall be IES rated as a cutoff luminaire with less than 1% uplight with the upper reflector in the horizontal position. The INDA model lamp module swivels, to center the beam on a tilted reflector, by loosening two stainless steel cap screws. All internal and external hardware is stainless steel.

HOUSING

The INDA and INDF post top models shall slip over a 5" o.d. pole.

ELECTRICAL MODULE

The ballast is mounted on a prewired plate with a quick disconnect plug. Magnetic metal halide ballasts are high power factor, rated for-30°F starting. Electronic metal halide ballasts are rated for -30°F starting, sound rating A, 120 thru 277 volt. Sockets are pulse rated porcelain, bipin, G12 for T-6 lamps. A porcelain screw base for the mini-cand T-4 halogen lamp. The compact fluorescent shall have an electronic transformer, 120 thru 277 volt.

FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

The reflector shall be painted white. The vertical struts are #4 brushed stainless steel. All other fixture parts shall be finished in the same specified color.

CERTIFICATION

The fixture shall be listed with ETL and U.L. for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 No.250. IP=66

EPA: INDA or INDF

with round upper reflector: 3.65 with square upper reflector: 4.40

WARRANTY

Fixture shall be warranted for three years. Ballast components carry the ballast manufacturer's limited warranty.

Submitted by Le	esman Sales
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Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: RSP12-4.0-11-BAL-BC

Notes:

Type: **PS4**

LEE07-6119

Page 1 of 3

KW Industries

RSP Round Non-Tapered Steel Poles

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196") or 7 gauge (0.1793"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly cylindrical in cross-section with round sides and excellent torsional properties.

Base Plate

The anchor base is fabricated from structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal $2" \times 4"$ or $3" \times 5"$ inside opening, located 1'-6" above base, is standard on all poles. A grounding provision is located inside the handhole ring.

Finishes

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The **Standard Finish** is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils for all color finishes. **Hot dip Galvanized** finish to a ASTM A-123 specification or primed finish is also available. For optional finishes, see **K-KLAD** and **K-KLAD Over Galvanizing**.

HOW TO ORDER

When ordering KW lighting standards, mounting adaptors and accessories, be sure to specify the complete catalog number. Our catalog numbers reflect the precise specifications of the item ordered to ensure our customers will receive the product which meets their exact requirements.

The following explanation of the catalog numbers will be helpful in placing orders:

CATALOG LOGIC - ORDERING SAMPLE BASE SERIES DIAMETER FINISH OPTIONS NOMINAL HEIGHT GAUGE DESIGNATION RSP 30 - 5.0 - 11 - BRZ - DM10 - BC

Catalog Number	Nominal Height	Pole Shaft	Gauge	Handhole Size	Anchor Bolt	Bolt Circle	80 MPH	90 MPH	100 MPH	Ship WT.
RSP10-4.0-11	10	4.00 x 10.0	11	2 x 4	0.75 x 17 x 3	8	31	24	19.5	78
RSP10-4,5-11	10	4.50 x 10.0	11	3 x 5	0.75 x 17 x 3	8	40	31.5	25	84
RSP10-5.0-11	10	5.0 x 10.0	11	3 x 5	1.00 x 36 x 4	11	51	40.5	32.5	139
RSP12-4,0-11	12	4.00 x 12.0	11	2 x 4	0.75 x 17 x 3	8	28.9	23,4	19,2	73
RSP12-4,5-11	12	4.50 x 12.0	11	3 x 5	0.75 x 17 x 3	ε	34	27	21.5	96



Catalog Number: RSP12-4.0-11-BAL-BC

Notes:

Type:

PS4

LEE07-6119

KW Industries

Page 2 of 3

RSP12-5.0-11	12	5.0 x 12.0	H 13	II 3×5	1,00 × 36 × 4	11	43	33,5	ll 27	D . e s
RSP14-4.0-11	14	4.00 × 14.0	11	2 x 4	0.75 x 17 x 3		23.6	19.1		153 99
RSP14-4,5-11	14	4.50 x 14.0	11	3 x 5	0.75 x 17 x 3		23.6	_	15,6	:===
RSP14-5,0-11	14	5.0 x 14.0	11	3 x 5	1.00 x 36 x 4	11	36	22	17	108
RSP15-4,0-11	15	4.90 x 15.0	11	2 x 4	0,75 × 17 × 3		18.1	-	22.5	155
RSP15-4.5-11	15	4.50 x 15.0	11	3 x 5	0.75 x 17 x 3	8		14,5	11.8	38
RSP15-5.0-11	15	5.0 × 15.0	11	3 3 5	1,00 × 36 × 4		26.5	20.5	16.3	98
RSP15-5.0-7	15	5.0 x 15.0	7	3 x 5	1.00 x 36 x 4	11	33 50	26 39	20.5	173
RSP16-4.0-11	16	4.00 x 16.0	11	2 x 4	0.75 x 17 x 3	8	16.5	13.2	31,5	222
RSP16-4.5-11	16	4,50 x 16,0	11	3 × 5	0.75 x 17 x 3	8	24.4	18.8	14.8	120
RSP16-5.0-11	16	5.0 x 16.0	11	3 x 5	1.00 x 36 x 4	11	31	24.2	19.4	179
RSP16-5.0-7	16	5,0 × 16,0	7	3 × 5	1.00 x 36 x 4	11	47	37	29	232
RSP18-4.0-11	18	4.00 x 18.0	11	2 x 4	0.75 x 17 x 3	8	13.7	10.8	8.6	103
RSP18-4,5-11	18	4,50 x 18,0	11	3 x 5	0.75 × 17 × 3	8	21	16	12,5	132
RSP18-5,0-11	18	5.0 x 18.0	11	3 x 5	1,00 x 36 x 4	-	27	21	16.5	192
RSP18-5,0-7	18	5.0 × 18.0	7	3 x 5	1.00 x 36 x 4	11	40	31	25.2	252
RSP20-4,0-11	20	4.00 x 20.0	11	2 x 4	0.75 x 17 x 3	8	11.4	8.9	6.9	123
RSP20-4.5-11	20	4.50 x 20.0	11	3 x 5	0.75 x 30 x 3	8	15.5	12,2	9.6	135
RSP20-5.0-11	20	5,00 x 20,0	11	3 x 5	1,00 x 36 x 4	11	20.3	16	12,7	189
RSP20-5.0-7	20	5.00 x 20.0	.7	3 x 5	1.00 x 36 x 4	11	28,2	22.4	18	253
RSP22-4,0-11	22	4.00 x 22.0	11	2 x 4	0.75 × 17 × 3	8	7	5.1	3.7	148
RSP22-4,5-11	22	4.50 x 22.0	11	3 x 5	0.75 x 30 x 3	8	13	10.1	7.8	147
RSP22-5.0-11	22	5.00 x 22.0	11	3 x 5	1,00 x 36 x 4	11	17.3	13.5	10.5	202
RSP22-5.0-7	22	5.00 x 22.0	7	3 x 5	1.00 x 36 x 4	11	24,2	19,2	15,3	272
RSP24-4,0-11	24	4.00 x 24.0	11	2 x 4	0.75 x 17 x 3	8	7	5.1	3.7	148
RSP24-4,5-11	24	4.50 x 24.0	11	3 x 5	0.75 × 30 × 3	8	10.9	8.3	6.3	158
RSP24-5.0-11	24	5.00 x 24.0	11	3 x 5	1.00 x 36 x 4	_ 11	14.6	11.3	8.6	215
RSP24-5.0-7	24	5.00 x 24.0	7	3 x 5	1.00 x 36 x 4	11	20.9	16.4	12,9	292
RSP25-4,0-11	25	4.00 x 25.0	11	2 x 4	0.75 x 17 x 3	8	7	5.1	3.7	143
RSP25-4.5-11	25	4.50 x 25.0	11	3 x 5	0.75 x 30 x 3	8	10	7.5	5.5	164
RSP25-5,0-11	25	5.00 x 25.0	11	3 x 5	1,00 x 36 x 4	11	13.5	10,3	7.8	221
RSP25-5.0-7	25	5.00 x 25.0	7	3 x 5	1.00 x 36 x 4	11	19,4	15.1	11.8	301
RSP26-4,5-11	26	4,50 x 26.0	11	3 × 5	$0.75 \times 30 \times 3$	8	9,1	6.7	4.9	170
RSP26-5.0-11	26	5.00 x 26.0	11	3 x 5	1.00 x 36 x 4	11	12.4	9,3	7	228
RSP26-5.0-7	26	5.00 x 26.0	7	3 x 5	1.00 x 36 x 4	11	18	13.9	10.8	311
RSP28-4,5-11	28	4.50 λ 28.0	11	3 x 5	0.75 x 30 x 3	8	7,4	5.3	3.6	182
RSP28-5.0-11	28	5.00 x 28.0	11	3 x 5	1.00 x 36 x 4	11	10.4	7.6	5.5	240
RSP28-5,0-7	28	5.00 x 28.0	7	3 x 5	1.00 x 36 x 4	11	15.4	11.7	8.9	330
RSP30-4.5-11	30	4.50 x 30.0	11	3 x 5	0.75 x 30 x 3	8	5.3	3.5	2.2	193
RSP30-5,0-11	30	_5.00 x 30.0	11	3 x 5	1.00 x 36 x 4	11	7.6	5.3	3.6	253
RSP30-5,0-7	30	5.00 x 30.0	7	3 x 5	1.00 x 36 x 4	11	11.5	8.5	6.2	349
RSP35-5.0-7	35	5.00 x 35.0	7	3 x 5	1.00 x 36 x 4	11	7	4.6	2.8	397

FINISHES

<u>Stan</u>	dard	Gal	lyanized	K-KLA	D	K-KLA	D Over Galvanizing
BRZ	Bronze	, G	Galvanized	K813	Bronze	KZ13	Bronze
BLK	Black	1		K821	Black	KZ21	Black
GRY	Gray	١.		K841	Gray	KZ41	Gray
GRN	Green	4		K891	Green	KZ91	Green
WHT	White	BAL - AAL MAL COLO	<u>. </u>	K881	White	KZ81	White
P	Primed	DAL - AAL WAL COLO	<u>`</u>	K845	Natural Aluminum	KZ45	Natural Aluminum
NA	Natural	Aluminum					

1 YEAR WARRANTY

5 YEAR WARRANTY

10 YEAR WARRANTY

MOUNTING DESIGNATIONS

Submitted by Leesman Sales



Job Name:

Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: RSP12-4.0-11-BAL-BC

Notes:

Type:

PS4

LEE07-6119

KW Industries

Page 3 of 3

Tenon Mount		Drill Mou	រាវ
2	2 3/8 " x 4 " TENON	DM 10	Drilled for 1 Luminaire
3	2 7/8 " x 4 " TENON	DM2090	Drilled for 2 Luminaires @ 900
3,5	3 1/2 " x 6 " TENON	DM2180	Drilled for 2 Luminaires @ 1809
4	4 " x 6 " TENON	DM3090	Drilled for 3 Luminaires @ 900
		DM3120	Drilled for 3 Luminaires @ 120°
		DM4090	Drilled for 4 Luminaires @ 909

Gain Mount

GMT4 attachment for CXA

Open Mount OT Open Top

GMT9 attachment for CXASQ

OTC Open Top includes Pole Cap

OPTIONS

There are numerous options that can be ordered. Please indicate these selections under the options column in the catalog number, Example: CPL-WPR2-BC.

Accessories

→ BC Base Cover

CPL Threaded Coupling¹

NPL Threaded Nipple

WPR2 Weatherproof Duplex Receptacle**

WPRP Festoon Opening 1.1

Extra Handholes

XHH Extra Handhole³

Embedment Pole Options

E Ernbedded Pole

GS Ground Sleeve

CTE Coal Tar Epoxy

For Embedment Poles:

Recommended Mounting Height Recommended Embedment Depth

Less than 20'

4' 6'

20' - 33' Greater than 33'

7'

Additional Simplex

15 1 @ 0° °

2S 2 @ 1800 *

3S 3@9004

4S 4 @ 900 Y

- -

Greater embediment depths are available upon request,

PACKAGING

Immediately after coating, the lighting standard including the baseplate shall be wrapped in heavy corrugation specially designed and sized to achieve maximum protection in transit.

KW Industries, Inc. coating process system and stringent quality control procedures provide our customer the finest quality lighting standards in the industry.

^{&#}x27; Please advise size, location, and orientation. (Handholes are restricted by size of pole shaft diameter)

^{**} Located 24" above baseplate and same side as handhole. (No electrical included)

		(
		(
÷1		
		(



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: CFT632EB-STF602-SS-B24

Notes:

Type:

S1

LEE07-6119



Featuring VITUOIS-urce: PReflectors

6" Vertical Triple Open & Wall Wash Downlight **CFT632EB**

One 26W, 32W, or 42W Triple Tube 4-Pin Lamp Non-IC Rated 120V, 208V, 240V, 277V, or 347V DATE TYPE

FRM NAME

PROJECT

Architektūr

Ceiling Cutout: 61/4"
Maximum Ceiling Thickness: 11/4"
For conversion to millimeters,
multiply inches by 25.4
Not to Scale

APPLICATIONS:

The CFT632EB offers a vertical lamped compact fluorescent downlight and wall wash fixture that provides superior brightness and glare cantrol. The multi-walt, multi-volt ballast provides the ability to change wattages by simply replacing the lamp. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, retail, and hospitality. The CFT632EB is compatible with the Signos6 family of architectural elements.

HOUSING:

One-piece painted 18-gauge cold rolled steel plotform. Prewired J-box with snap-on cover for easy access. Vented at lamp tip and socket for maximum light output. Same housing accommodates downlight and wall wash downlight reflectors. Diecast aluminum heat sink.

REFLECTOR:

High purity aluminum Alzak® Virtual Source® iridescence suppressed reflector. Self-trim (ST) standard. Painted white self-trim (WT) available. Balfled units standard with painted white self-trim. Optical system pravides excellent glare and brightness control for visual comfort.

BALLAST:

One {1} compact fluorescent Class 'P' electronic multivol! (120V thraugh 277V) ballast suitable for operating all 26W, 32W, and 42W triple tube lamps. HPF and EOL protection standard. Accessible from below ceiling. 347V available (specify wallage when ordering).

LAMP:

Use one (1) 26W (GX24q-3 base), 32W (GX24q-3 base), or 42W (GX24q-4 base) 4-pin triple tube compact fluorescent lamp. Lamp furnished by others.

SOCKET:

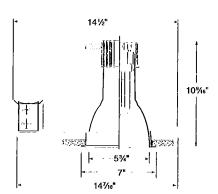
One [1] Injection molded socket suitable for 26W, 32W, and 42W triple tube lamps (vented). Adjusts to three positions, accommodating various lamp sizes and ensuring proper lamp position.

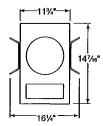
INSTALLATION:

Universal adjustable mounting brackets accommodate 11/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6).

LABELS:

UL, CSA listed for damp locations Approved for through wiring Non-type I.C.





CATALOG NUMBER:

EXAMPLE: CFT632EBCP-STF602-B6

HOUSING	HOUSING OPTIONS	HOUSING OPTIONS	REFLECTORS	REFLECTOR OPTIONS	ACCESSØRIES
6", (1) 20W/32W/ 42W Triple tube, multi-volt electronic ballost	□ 347V (Specify waltage) □ CP Chicago Plenum. Fixture construction and/or specifications may vary. Refer to Chicago Plenum specification sheets on www.prescolite.com for details. (Prefix housing catalog number) □ 3DM 3D AddressPro™ digital dimming ballast for programmable dimming capability. Refer to dimming specification packet #PR3117	□ DM Electronic analog dimming ballast □ EM Emergency battery pack with remote test switch and indicator light □ FSDFA Fuse kit installed at factory □ RIF1 Radio interference filter (single circuit)	STF602 S o" Specular clear Alzak STF603 S o" Champagne gold Alzak STF604 S o" Pewter Alzak STF602MFC S o" American Motte** Clear STF602DSC S o" EuroSpec** WTF607 o" Black cone WTF605 o" Black baffle WTF606 o" WTF606	Regressed clear lense SL Regressed prismatic pricad lense SS Semi-specular finish TRG Trim ring gasket (factory installed) WT Painted white self-flange (substitute WT for ST) WW Wall wosh reflector (not available with baffle or lensed trims)	Set of two [2] 24" bar hangers for T-bar ceilings B6 Set of two [2] bar hangers for ceiling joists up to 24" centers FSDFI Fuse kit for field installation SCA6D Sloped ceiling adapter (see note on back page) Signos8 Architectural glass elements Refer to specification sheets ARCH-SIG-005 through -008



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Web: www.prescolite.com • Tech Support: (888) 777-4832

ARCH-CFL-007



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: CFT632EB-STF602-SS-B24

Notes:

Type:

S1

LEE07-6119

PHOTOMETRIC DATA

Architektūr - 6" Vertical Triple Open & Wall Wash Downlight - CFT632EB

BALLAST DATA		26W Triple			32W Triple			42W Triple	
	120V	277V	347V	120V	277V	347V	120V	277V	347V
Total System Watts	28W	28W	38W	35W	35W	42W	44W	47W	48W
nput Current (Amps)	0.23	0.1	0.11	0.29	0.13	0.12	0.36	0.17	0.14
Input Frequency in Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power Factor	>97%	>97%	>97%	>97%	>97%	>97%	>97%	>97%	>97%
Ballast Factor	>98%	>98%	>98%	>98%	>98%	>98%	>98%	>98%	>98%
Total Harmonic Distortion	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%
Total Harmonic Distortion	-18°C (0°F)	-18°C 10							

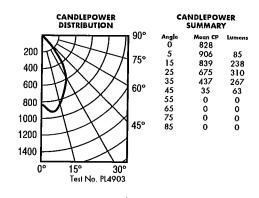
LAMP DATA			
Rated Wotts	26W Triple	32W Triple	42W Triple
Rated Lumens	1800	2400	3200
Efficacy (LPW)	69	75	76
Rated Life	10,000 hours	10,000 hours	10,000 hours
CRI	82	82	82
Minimum Starting Temp.	O° F	0° F	0° F

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average 0°	
45° 55° 65° 75° 85°	2980	
55°	29	
65°	0	
75°	0	
85°	0	

CFT632EB-STF602 with Clear Alzak® Reflector

Lamp: One 32W Triple Spacing Criteria: 1.0 Efficiency: 40.1%



AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array) Celling 80% Wall 50% Floor 20%

32W Triple			
SPACING	RCRI	RCR3	RCR7
7.0	17	15	11
8.0	13	12	9
9.0	10	9	7
10.0	8	7	5
11.0	7	6	5

_	ŀ				% E	ffect	ivo f	1000	Cavil	r Ref	lecto	nce					
ě.		80% 70%							5	0%		1 3	10%	, ,	1	10%	,
훒				20	& Effe	chy	a Floo	or Co	wity I	loffe	iono	e				_	
Ratio							3. W	/oll R	eflaci	ance	_						
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	49	47	.46	.45					.44				.42		.41	41	40
2	46	44	42	.41	45	.43	.41	.40	.41	40	39	.40	39	.38	39	38	.38
3	41	41	.39	37	42	.40	.38	37	39	37	36	.38	.37	35	.37	36	35
4	41	38	.36	34	40	.38	.35	.34	.37	35	.33	.36	34	33	.35	34	33
5	39	35	33	.31	38	35	.33	31	.34	.32	31	33	32	30	33	31	30
6	37	33	.30	.29	36	33	30	.29	.32	30	.28	.31	30	28	.31	.29	28
7	.35	31	20	.26	.34	.30	.28	26	.30	28	26	.29	27	26	29	27	26
8	.33	28	.26	.24	32	.28	26	24	.28	25	.24	27	25	24	27	.25	24
9	.31	27		.22	.30		24			.23			.23	.22	25	23	22
10	29	25	.22	.20	.28	.24	.22	20	.24	.22	20	.24	.22	20	.23	21	20

NOTES

P Denotes a Virtual Source reflector.

Refer to www.prescolite.com for additional photometric tests (IES Files).

When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, max. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed of the



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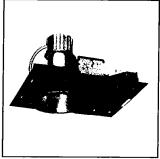
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: CFT632EB-STF602-WW-SS-B24

Notes:

Type:

S2

LEE07-6119



Featuring VIrtualSeurce & Reflectors

6" Vertical Triple Open & Wall Wash Downlight **CFT632EB**

One 26W, 32W, or 42W Triple Tube 4-Pin Lamp Non-IC Rated 120V, 208V, 240V, 277V, or 347V DATE TYPE

HRM NAME

PROJECT

Architektūr

Ceiling Cutout: 61/4"
Maximum Ceiling Thickness: 11/4"
For conversion to millimeters,
multiply inches by 25.4
Not to Scale

APPLICATIONS:

The CFT632EB offers a vertical lamped compact fluorescent downlight and wall wash fixture that provides superior brightness and glare control. The multi-walt, multi-volt ballast provides the ability to change wattages by simply replacing the lamp. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, retail, and hospitality. The CFT632EB is compatible with the Signosó family of architectural elements.

HOUSING:

One-piece painted 18-gauge cold rolled steel platform. Prewired J-box with snap-on cover for easy access. Vented at lamp tip and socket for maximum light output. Same housing accommodates dawnlight and wall wash downlight reflectors. Diecast aluminum heat sink.

REFLECTOR:

High purity aluminum Alzak® Virtual Source® iridescence suppressed reflector. Self-trim (ST) standard. Painted white self-trim (WT) available. Baffled units standard with painted white self trim. Optical system provides excellent glare and brightness control for visual comfort.

BALLAST:

One {1} compact fluorescent Class 'P' electronic multivolt {120V through 277V} ballast suitable for operating all 26W, 32W, and 42W triple tube lamps. HPF and EOL protection standard. Accessible from below ceiling. 347V available {specify wattage when ordering}.

LAMP:

Use one (1) 26W (GX24q-3 base), 32W (GX24q-3 base), or 42W (GX24q-4 base) 4-pin triple tube compact fluorescent lamp. Lamp furnished by others.

SOCKET

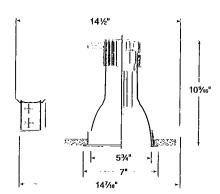
One (1) injection molded socket suitable for 26W, 32W, and 42W triple tube lamps (vented). Adjusts to three positions, accommodating various lamp sizes and ensuring proper lamp position.

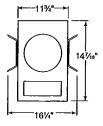
INSTALLATION:

Universal adjustable mounting brackets accommodate 11/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6).

LABELS

UL, CSA listed for damp locations Approved for through wiring Non-type I.C.





CATALOG NUMBER:

EXAMPLE: CFT632EBCP-STF602-B6

HOUSING	HOUSING OPTIONS	HOUSING OPTIONS	REFLECTORS	REFLECTOR OPTIONS	ACCESSORIES
6", (1) 26W/32W/ 42W Triple tube, multi-volt electronic ballast	□ 347V Specify waltage □ CP Chicago Plenum. Fixture construction and/or specifications may vary. Refer to Chicago Plenum specification sheets on www.prescolite.com for details. [Prefix housing catalog number] □ 3DM 3D AddressPro™ digital dimming ballast for programmable dimming capability. Refer to dimming specification packet #PP3.1.17	□ DM Electronic analog dimming ballast □ EM Emergency baltery pack with remate test switch and indicator light □ FSDFA Fuse kit installed at factary □ RIF1 Radio interference filter (single circuit)	6" Specular clear Alzak STF603 & 6" Champagne gold Alzak STF604 & 6" Pewler Alzak STF602MFC & 6" American Motte* Clear STF602DSC & 6" EuroSpec* WTF607 6" Black cone WTF605 6" Black baffle WTF606 6" WTF606	Regressed clear lense SL Regressed prismatic spend lense SS Semi-specular finish TRG Trim ring gasket (factory installed) WT Painted white self-flange substitute WT STI WW Wall wash reflector (nat available with baffle or lensed trims)	Set of two (2) 24" bar hangers for T-bar ceilings B6 Set of two (2) bar hangers for ceiling joists up to 24" centers FSDFI Fuse kit for field installation SCA6D Sloped ceiling adapter (see note on back page) Signos8 Architectural glass elements Refer to specification sheets ARCH-SIG-OO5 through -O08



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ARCH-CFL-007



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

CFT632EB-STF602-WW-SS-B24

Notes:

Type:

S2

LEE07-6119

PHOTOMETRIC DATA

Architektūr - 6" Vertical Triple Open & Wall Wash Downlight - CFT632EB

BALLAST DATA		26W Triple			32W Triple	-		42W Triple	
	120V	277V	347V	120V	277V	347V	120V	277V	347V
Total System Watts	28W	28W	38W	35W	35W	42W	44W	47W	48W
Input Current (Amps)	0.23	0.1	0.11	0.29	0.13	0.12	0.36	0.17	0.14
Input Frequency in Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power Factor	>97%	>97%	>97%	>97%	>97%	>97%	>97%	>97%	>97%
Ballast Factor	>98%	>98%	>98%	>98%	>98%	>98%	>98%	>98%	>98%
Total Harmonic Distortion	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%
Total Harmonic Distortion	-18°C (0°F)	-18°C (0°F)	-18°C (0°F)	-18°C 10°					

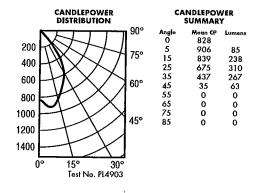
LAMP DATA			
Rated Watts	26W Triple	32W Triple	42W Triple
Rated Lumens	1800	2400	3200
Efficacy (LPW)	69	75	76
Rated Life	10,000 hours	10,000 hours	10,000 hours
CRI	82	82	82
Minimum Starting Temp.	0° F	0° F	0° F

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average 0°	
45° 55° 65°	2980	
55°	29	
65°	0	
75°	0	
85°	0	

CFT632EB-STF602 with Clear Alzak® Reflector

Lamp: One 32W Triple Spacing Criteria: 1.0 Efficiency: 40.1%



AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array) Ceiling 80% Wall 50% Floor 20%

32W Triple				
SPACING	RCR1	RCR3	RCR7	
7.0	17	15	11	
8.0	13	12	9	
9.0	10	9	7	
10.0	8	7	5	
11.0	7	6	5	

Roam Cavity Ratio				% Effective Floor Cavily Reflectance														
	80%				70%				50%			30%			10%			
		20% Effective Floor Cavity Reflectance															_	
3		% Wall Reflectonce																
		50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
1	48	.47	.46	.45	.47	46	.45	.44	44	.43	43		.42		41	41	.40	
2	.46	44	42	.41	.45	43	.41	40	41	.40	39	40	.39	38	39	38	.3	
3	.41	41	39	.37	.42	.40	.38	.37	39	37	.36	38	.37	35	.37	36	3:	
4	.41	.38	36	.34	40	.38	.35	.34	37	.35	.33	.36	.34	33	.35	34	3	
5	39	35	33	.31	.38	35	33	.31	34	32	.31	33	32	30	33	31	30	
6	.37	.33	.30	.29	.36	33	.30	.29	32	30	28	31	.30	28	31	29	.21	
7	.35	.31	28	26	34	.30	.28	26	30	.28	.26	.29	.27	26	29	27	26	
В	.33	28	26	.24	32	.28	26	.24	28	25	.24	.27	25	.24	27	.25	.24	
9	.31	27	.26	.22	.30	.26	24	22	26	23	22	.25	.23	22	.25	23		
0	.29	.25	.22	.20	.28	.24	.22	.20	24	.22	.20	24	22	.20	.23	21	.20	

NOTES

Ponotes o Virtual Source reflector.

Refer to www.prescolite.com for additional photometric tests (IES Files).

When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, max. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time.



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Catalog Number: CFT632HEB-STF602H-SS-B24

Notes:

Type:

S3

LEE07-6119



Featuring VITUOIS-urce @Reflectors

6" Horizontal Triple Open & Wall Wash Downlight CFT632HEB

One 26W, 32W, or 42W Triple Tube 4-Pin Lamp Non-IC Rated 120V, 208V, 240V, 277V, or 347V DATE TYPE
HRM NAME
PROJECT

Architektūr

Ceiling Cutout: 61/4" Maximum Ceiling Thickness: 11/4" For conversion to millimeters, multiply inches by 25.4 Not to Scale

APPLICATIONS:

The CFT632HEB offers a horizontally lamped compact fluorescent downlight and wall wash fixture that provides superior brightness and glare control. The multiwalt multiwolt ballast provides the ability to change waltages by simply replacing the lamp. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, retail, and hospitality. The CFT632HEB is compatible with the Signosó family of architectural elements.

HOUSING:

One-piece painted 18-gauge cold rolled steel platform. Prewired J-box with snap-on cover for easy access. Vented at lamp tip and socket for maximum light output. Same housing accommodates downlight and wall wash downlight reflectors.

REFLECTOR:

High purity aluminum Alzak® Virtual Source® iridescence suppressed reflector. Self-trim (ST) standard. Painted white selftrim (WT) available. Baffled units standard with painted white self trim.

BALLAST:

One {1} compact fluorescent Class 'P' electronic multi-volt {120V through 277V} ballast suitable for operating 26W, 32W, and 42W triple tube lomps. HPF and EOL protection standard. Accessible from below ceiling. 347V available [specify waitage when ordering].

LAMP:

One (1) 26W (GX24q-3 base), 32W (GX24q-3 base), or 42W (GX24q-4 base) 4-pin triple lube compact fluorescent lamp. Lamps furnished by others.

SOCKET

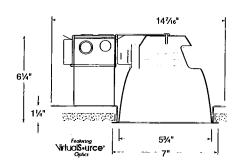
One [1] injection molded socket suitable for 26W, 32W, and 42W triple tube lamps (vented).

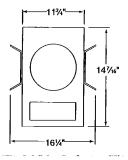
INSTALLATION:

Universal adjustable mounting brackets accommodate 11/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6).

LABELS:

UL, CSA listed for damp locotions Approved for through wiring Non-type I.C.





CATALOG NUMBER:

EXAMPLE: CFT632HEBDMEM-STF603H-B24

HOUSING	HOUSING OPTIONS	HOUSING OPTIONS	REFLECTORS	REFLECTOR OPTIONS	ACCESSORIES
CFT632HEB 6", (1) 26W/32W/ 42W triple tube, multi-volt electronic ballast	□ 347V (Specify waltage) □ CP Chicago Plenum. Fixture construction and/or specifications may vary. Refer to Chicago Plenum specification sheets on www.prescolite.com for details. (Prefix housing catalog number) □ 3DM 3D AddressPro™ digital dimming ballast for programmable dimming capability. Refer to dimming specification packet #PR3117	□ DM Electronic analog dimming ballast (Contact factory for wall control system compatibility) EM Emergency battery pack with remote test switch and indicator light FSDFA Fuse kit installed at factory RIF1 Radio interference filter (single circuit)	6" Specular clear Alzak STF603H & 6" Champagne gald Alzak STF604H & 6" Pewter Alzak STF602HMFC & 6" American Matter Clear STF602HDSC & 6" EuroSpec M WTF607H 6" Black cone WTF605H 6" Wtr606H 6" Wtie baffle	Regressed clear lense SL Regressed prismatic Prismatic lense SS Semi-specular finish TRG Trim ring gasket (factory installed) WT Painted white self-flonge (substitute WT for ST] WW Wall wash reflector (not available with baffle or lensed trims)	B24 Set of two [2] 24" bar hangers for T-bar ceilings B6 Set of two [2] bar hangers for ceiling joists up to 24" centers FSDFI Fuse kit for field installation SCA6D Sloped ceiling adapter (see note on back page) Signos6 Architectural glass elements Refer to specification sheets ARCH-SIG- OO1 through -004



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

Web: www.prescolite.com • Tech Support: {888} 777-4832

ARCH-CFL-001



Catalog Number: CFT632HEB-STF602H-SS-B24

Notes:

Type:

S3

LEE07-6119

PHOTOMETRIC DATA

Architektür - 6" Horizontal Triple Open & Wall Wash Downlights - CFT632HEB

BALLAST DATA	26W Triple				32W Triple			42W Triple	
	120V	277V	347V	120V	277V	347V	120V	277V	347V
otal System Watts	28W	28W	38W	35W	35W	42W	44W	47W	48W
nput Current (Amps)	0.23	0.1	0.11	0.29	0.13	0.12	0.36	0.17	0.14
nput Frequency in Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
ower Factor	>97%	>97%	>97%	>97%	>97%	>97%	>97%	>97%	>97%
allast Factor	>98%	>98%	>98%	>98%	>98%	>98%	>98%	>98%	>98%
otal Harmonic Distortion	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%
otal Harmonic Distortion	-18°C (0°F)	-18°C 10°							

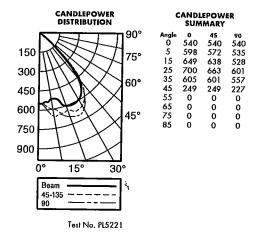
LAMP DATA (One per fixt	vre)		
Rated Watts	26W Triple	32W Triple	42W Triple
Rates Lumens	1800	2400	3200
Efficacy (LPW)	69	75	76
Rated Life	10,000 hours	10,000 hours	10,000 hours
CRI	82	82	82
Min. Starting Temp.	0" F	0" F	0° F

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Verlical	Average 0°	Average 45°	Average 90°	
45°	21019	21096	14312	_
55°	0	0	0	
65°	0	Ō	Õ	
75°	0	Ö	ŏ	
8.5°	0	Õ	ō	

CFT632HEB-STF602H with Specular Clear Alzak Reflector

Lamp: One 32W Triple Spacing Criteria: 0° = 1.5 90° = 1.6 Efficiency: 45.1%



AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array) Ceiling 80% Wall 50% Floor 20%

32W Triple SPACING	RCR1	RCR3	RCR7	
7.0	20	17	12	
8.0	15	13	9	
9.0	12	10	7	
10.0	10	8	6	
11.0	8	7	5	
11.0	0	,	3	

_	80	0/						CUVII	Y Kel	lecta	uca					
		70	1		70	%		5	0%		. 3	10%			10%	
20% Effective Floor Cavity Reflectance																
% Wall Reflectance																
70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
.51	50	.49	48	50	49	48	.47	.47	46	.46					43	43
49	47	45	43	48	.46	44	43	44	.43	42	43	42	41	.42	41	.40
.46	.43	41	.39	.45	.42	40	39	.41	.40	.38	40	39	38	39	38	37
44	40	38	36	43	40	.37	.36	.39	37	.35	38	36	35	37	36	34
.4F	37	.35	.33	40	37	34	.32	.36	.34	.32	35	33	32	.35	33	.32
39	35	32	30	38	34	32	30	.34	.31	.30	33	.31	.29	32	30	.29
36	.32	.29	.27	36	.32	29	.27	.31	29	27	.30	.28	27	30	.28	27
34	29	.27	.25	.34	.29	26	.24	.29	.26	24	.28	.26	24	.28	26	24
32				31								.23	22	25	23	22
30	25	.22	.20	29	25	.22	.20	.24	22	.20	24	21	20	23	.21	20
	51 49 46 44 41 39 36 34 32 30	51 50 49 47 46 43 44 40 41 37 39 35 36 32 34 29 32 27 30 25	51 50 49 49 47 45 46 43 41 44 40 38 41 37 .35 39 35 32 36 .32 .29 34 29 27 32 27 24 30 25 22	51 50 .49 48 49 47 45 43 46 .43 41 38 36 41 37 .35 .33 39 35 32 30 36 .32 .29 .27 34 29 .27 .25 32 27 24 22 30 25 .22 .20	51 50 .49 48 50 49 47 45 43 48 46 43 41 .39 45 44 40 38 36 43 41 37 .35 .33 40 39 35 32 30 38 36 .32 .29 .27 36 34 29 .27 .25 .34 32 27 24 22 31	70 S0 30 10 70 50 51 50 .49 48 50 49 47 47 45 43 48 .46 46 .43 41 .39 .45 .42 44 40 38 36 43 40 41 37 .35 .33 40 37 39 35 32 30 38 34 36 .32 .29 27 27 36 .32 34 29 .27 .25 .34 .29 30 25 22 20 29 .25	70	70 50 30 10 70 50 30 10 51 30 47 48 50 49 48 47 47 45 43 48 43 44 43 46 43 41 39 43 42 40 39 41 40 38 36 43 40 37 36 41 37 35 33 40 37 34 32 30 32 29 27 36 32 29 27 42 27 24 22 31 27 24 22 31 25 22 29 27 32 22 22 30 52 22 29 27 32 22 22	70 50 30 10 70 50 30 10 50 30 10 40 41 41 41 41 41 41 41 41 41 41 41 41 41	70 50 30 10 70 50 30 10 50 30 51 50 49 48 50 49 48 47 47 46 47 47 45 43 48 4.6 44 43 44 43 48 40 43 41 39 48 24 40 39 41 40 40 43 41 39 48 24 40 39 41 40 41 40 38 36 43 40 37 36 39 37 41 37 35 33 40 37 34 32 36 34 41 37 38 23 38 40 27 38 30 34 31 30 32 22 92 73 38 22 92 77 31 29 42 27 24 22 31 27 24 22 26 24 52 27 24 22 31 27 24 22 26 24	70 50 30 10 70 50 30 10 50 30 10 50 49 48 47 47 47 46 46 46 47 47 45 43 48 47 47 47 48 47 47 47 48 47 47 47 48 47 48 47 48 47 48 47 48 47 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	70 50 30 10 70 30 10 50 30 10 50 50 30 10 50 50 50 30 10 50<	70 50 30 10 70 50 30 10 50 30 10 50 30 10 50 30 51 50 30 30 10 50 30 30 30 30 30 30 30 30 30 30 30 30 30	70 50 30 10 70 50 30 10 50 30 10 50 30 10 51 51 50 40 40 48 47 47 46 46 45 45 44 40 47 47 47 45 45 45 44 46 46 45 47 47 47 45 45 45 48 46 47 47 45 45 45 48 46 47 47 45 45 45 48 46 47 47 45 45 48 48 48 48 48 48 48 48 48 48 48 48 48	70 50 30 10 70 50 30 10 50 30 10 50 30 10 50 50 50 50 50 50 50 50 50 50 50 50 50	70 50 30 10 70 50 30 10 50 30 10 50 30 10 50 30 30 50 50 30 51 50 30 30 50 50 30 30 50 50 30 30 50 50 30 30 50 50 30 30 50 50 30 30 50 50 30 30 30 30 30 30 30 30 30 30 30 30 30

Denotes a Virtual Source reflector.

Refer to www.prescolite.com for additional photometric tests (IES Files).

When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, mox. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time.



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Hubbell



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

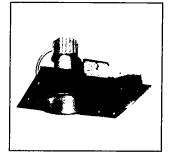
Catalog Number: CFT632EB-STF602-DL-B24

Notes:

Type:

S4

LEE07-6119



Featuring VirtualS-urce Reflectors

6" Vertical Regressed High Impact Lens Downlight

CFT632EB

One 26W, 32W, or 42W Triple Tube 4-Pin Lamp Non-IC Rated 120V, 208V, 240V, 277V, or 347V

DATE TYPE FIRM NAME PR DJECT

Λ rchitekt $ar{ t u}$ r

Ceiling Cutout: 61/4" Maximum Ceiling Thickness: 11/4" For conversion to millimeters, multiply inches by 25.4 Not to Scale

APPLICATIONS:

The CFT632EB offers a vertical lamped compact The CFT632EB olfers a vertical lamped compact fluorescent downlight that provides superior brighness and glare control. The multi-walt, multi-valt ballast provides the ability to change wattages by simply replacing the lamp. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, relaif, and hospitality. The CFT632EB is compatible with the Signosó family of architectural elements.

HOUSING:

POUSING:
One-piece 18-gauge galvanneal steel
platform. Prewired L-box with snap-on cover for
easy access Vented at lamp tip and socket for
maximum light output. Some housing accommodates downlight and wall wash downlight reflectors. Diecast oluminum heat sink.

REFLECTOR:
High purity aluminum Alzak® Virtual Source® iridescence suppressed reflector. Self-trim (ST) standard Painted white self-trim (WT) available

LENS:

High impact CA-81 equivalent acrylic lens. Lenses are FDA approved for use in food service areas and UL-94 approved with a flammability

BALLASI:
One (1) compact fluorescent Class 'P'
electronic multivoli (120V through 277V) ballost
suitable for operating all 26V, 32VV, and 42VV
triple lube lamps. HPF and EOL protection standard, Accessible from below ceiling. 347V avail-

LAMP:

Use one (1) 26W (GX24q-3 base), 32W (GX24q-3 base), or 42W (GX24q-4 base) 4-pin triple tube compact fluorescent lamp. Lamp furnished by others.

SOCKET:

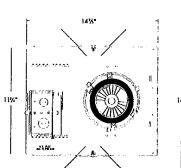
One (1) injection molded socket suitable for 26W, 32W, and 42W triple tube lamps (vented). Adjusts to three positions, accommodating various lamp sizes and ensuring proper lamp position

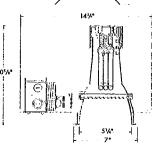
INSTALLATION:

Universal adjustable mounting brackets accommodate 11/2" or 3/4" (othing channel or 1/2" EN (by others), or Prescolite 24" bar hangers (B24 or B6).

LABELS:

UL, CSA listed for wet locations Approved for through wiring Non-type I.C.





CATALOG NUMBER:

EXAMPLE: CFT632EBCP-STF602CL86

3824

Bb

☐ SCA6D

Set of two (2) 24" bar hangers for T-bar ceilings

Set of two (2) bar

hangers for ceiling joists up to 24" centers FSDFI Fuse kit for field installation

Sloped ceiling adapter

☐ Signos6
Architecturol elements

through +004

Refer to specification sheets ARCH-SIG-001

HOUSING HOUSING OPTIONS HOUSING OPTIONS REFLECTOR FINISH REFLECTOR COLOR REFLECTOR OPTIONS ACCESSORIES CFT632EB 6", (1) 26W/32W/ 42W Triple tube, multi-volt electronic ballast CP Chicago Plenum. STF602 & DL Diffused u ce Advance Mark 7 Specular Alzak or Painled Option 6" Chompagne Gold Alzak Lens 🚱 Fixture construction and/or specifications may vary. Refer to Chicago Plenum specification sheets on specification sheets on the specification sheets on the specification sheets on the specification specification specific Dimming Ballast to 3%, 4-wire (120V through 277V) CLClear Lens ☐ STF602MFC @ u PW u PLPrismatic 6" Pewter Alzak (Specify wattage) XDM ⊔ \$TF602SS ® u BL Advance Mark 10 Dimming Ballast to 5%, 2-wire (specify voltage) ☐ TRG-Trim Ring Gasket (Factory Installed) Block Alzak www.prescolite.com for details. (Prefix housing Semi-Specular STF602HZ @ q. WE 6" Wheat Alzak catalog number) WT-Painted ⊔ DW EM White Self Electronic Analog Dimming Bollast to 3%, 4-wire (120V through 277V) 6" light Wheet Alzak Flange (Sustitute WT for ST) Emergency battery pack with remote test switch and Painted Options indicator light ⊔ WC-White U SDM Lutron Compact SE Dimming Bollast to 5%, 3-wire (specify voltage) Fuse kit installed at ☐ BC-Black Cone factory RIF1 *All painted options come standard with ⊔ HDM Radio interference Lutron Hi-Lume Dimming Ballast to 1%, 3-wire (specify voltage) filter (single circuit) an upper specular clear Alzak reflector.

Max Wattage label,

Max Wattage lobel, 32W

24/4/

Lutron Tu-Wire Dimming Land MW32
Ballost to 5%, 2-wire (120 volt only)

Away Wa
32W



⊔ 2DM

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

Web: www.prescolite.com • Tech Support: (888) 777-4832

Virtual\$•urce



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: CFT632EB-STF602-DL-B24

Notes:

Type:

S4

LEE07-6119

PHOTOMETRIC DATA

Architektūr - 6" Vertical Triple Tube Regressed High Impact Lens Downlight - CFT632EB

BALLAST DATA	26W Triple				32W Triple		42W Triple			
	120V	277V	347V	120V	277V	347V	120V	277V	347V	
Total System Watts	28W	28W	38W	35W	35W	42W	44W	47W	48W	
Input Current (Amps)	0.23	0.1	0.11	0.29	0.13	0.12	0.36	0.17	0.14	
Input Frequency in Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	
	>97% >98%	>97%	>97%							
Total Hormonic Distortion		<10%	<10%	<10%	<10%	>90% <10%	>98% <10%	>98% <10%	>98% <10%	
Total Harmonic Distortion -	-18°C (0°F)	-1.8°C (0°F)	-18°C (0°F)	-18°C (0						

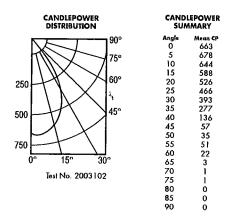
LAMP DATA			
Rated Watts	26W Triple	32W Triple	42W Triple
Rated Lumens	1800	2400	3200
Efficacy (LPW)	69	75	76
Rated Life	10,000 hours	10,000 hours	10,000 hours
CRI	82	82	82
Minimum Starting Temp.	O° F	0° F	0° F

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average 0°	
45°	4402	
55°	4863	
65°	376	
75°	169	
85°	126	

CFT632EB-STF602CL Clear Alzak® Reflector w/clear lens

Lamp: One 42W Triple Rated lumens: 3200 Spacing Criteria: 1.0 Efficiency: 22.0%



AVERAGE INITIAL FOOTCANDLES

1. Multiple units (square array)
2. Ceiling 80%; Wall 50%; Floor 20%
3. Four fixtures evenly spaced in the center of the room
4. The room is square and has a width and length equal to

twice the lamp spacing

5. The lumen depreciation factor is 0.8

6. The dirt depreciation factor is 0.98

42W Triple			
SPACING	RCR1	RCR3	RCR7
7.0	12	11	8
8.0	9	8	6
9.0	7	6	5
10.0	6	5	4
11.0	5	4	3
12.0	4	4	3
13.0	4	3	2
14.0	3	3	2
15.0	3	2	2

.0	EFF	ICI	EN	<u> </u>					10]			Zon		Cav	ily l	Vel	hoc	ı
<u>⊾</u> I						% E	llectr	vo Fl	oor C	avily	Refl	eclan	ce					
Ę.		80	%	1		70	1%		5	0%		, 3	10%	,	. 1	10%	6	۰0%
ā					2	0%	Effect	tive f	loor (Carril	y Re	Recla	nce		_	_		
Ratio		% Wall Reflectance																
╛	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
П	.26	.26	.26	.26	26	26	26	26	24	.24	24	23	23	23	.22	.22	22	22
- 1	.25	.24	24	.23	24	.24	23	23	23	22	22	22	22	21	.21	21	.21	.20
۱ ۱	24	22	21	21	23	.22	21	20	21	21	.20	.21	.20	20	20	.20	.19	.19
ч	.22		.20	.19	22	.20	19	18	20	19	18	19	18	18	19	18	18	17
ų	21		.18	17	21	.19	18	17	.18	17	.17	.18	17	16	18	17	.16	16
1	20	18	16	15	19	18	16	15	17	16	15	17	16	15	16	16	15	15
١.	.19	.17	.15	.14	18	16	15	14	16	.15	14	.16	15	14	.15	.15	14	14
۱ ا	18	16	14	13	17	15	14	13	.15	14	13	.15	14	13	.15	14	13	13
- 1	17	15	13	.12	17	14	13	12	14	13	.12	14	13	12	14	.13	12	12
١.	.16	.14	12	31)	16	14	12	ш	13	12	11,	13	12	11	.13	.12	11	1.11
0	15	13	12	-11	15	13	11	-11	13	11	11	12	и	11	12	11	10	10
16	321	EB-	STF	502	CL										Te	ų N	20	0310

NOTES

Denotes a Virtual Source reflector.

Refer to www prescolite.com for additional photometric tests

When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, max. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the



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Submitted by Leesman Sales



Job Name:

Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: RL20 / CTR2002-CLR-P

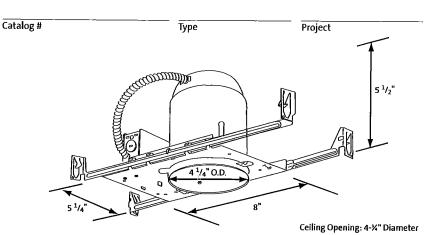
Notes:

Type:

S5

LEE07-6119





Specifications/Features

Fixture

Compact 4" incandescent downlight housing for new construction applications.

Many different trims available to complement any design style. May be used with drywall, plaster or suspended ceilings from %" to 1-%" thick.

The housing may be used in insulated ceilings if a minimum 3" distance is maintained all around fixture from insulation material.

Flectrical

See trim sheet details for maximum lamp size and wattage. Prewired junction box with spring-latch access plates.

Approved for through-circuit wiring (max (8) #12 AWG 4 in/4 out). Push-in wire connectors included.

Adjustable lamp socket (vertical position).

Thermally protected.

Junction box has (4) $\mbox{\it \%}"$ pryouts, (1) $\mbox{\it \%}"$ concentral pryout and (4) Romex pryouts.

Mountina

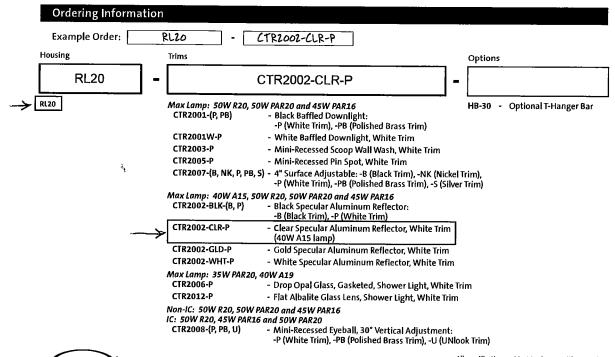
Includes \bar{d} ual extension hanger bars that are adjustable from 14-%" to 24-%".

Just-A-Nail mounting system included on hanger bars. Hanger bars may be extended to rest on T-bar ceilings.

Labels/Usage

cULus listed for damp locations.

New York City approved, calendar number 38645.





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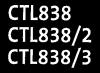
Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: CTL838P

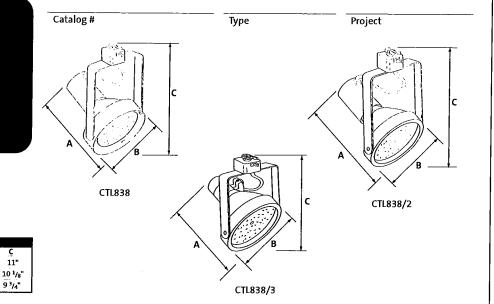
Notes:

Type:

LEE07-6119



Gimbal 120V Series Track Fixtures



Specifications/Features

6 1/2"

5 3/4"

43/4

5 1/2"

Fixture

CTL838

CTL838/2

CTL838/3

The free, unconfined look of these gimbal lamp holders make them popular for commercial, retail and residential applications.

The 2-plane gimbal design permits maximum horizontal and vertical swivel for excellent aiming, and our "Sure-Set" yoke holds the fixture firmly in place.

Models are offered for all the popular halogen PAR lamps.

The CTL838 (only) is supplied with spring clips for the use with accessories.

Lamp/Electrical

CTL838 Lamp: 250W PAR38 (max)

CTL838/2 Lamp: 250W PAR38 (max) CTL838/3 Lamp: 150W PAR38 (max)

All styles are equipped with a convenient on/off switch and polarity indicator.

Warranty

*Specify color

This fixture is covered by Con-Tech's full replacement guarantee which is effective for one year.

cULus listed. Suitable for dry locations.

Ordering Information

CTL838 - P - LA-38 Example Order: Housing Finish Accessories CTL38 Ρ CTL838 - PAR38 Lamp holder
CTL838/2 - Slim PAR38 Lamp holder
CTL838/3 - Side prong PAR38 Lamp
holder WhiteBlackPolished Brass LA-38 - Egg-Crate Louver for PAR38 LF-40 - (A, B, G, LB, R, RO, 73, LS)* Color Filters for PAR38 PΒ

- Chrome - UNLook



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Cincinnali Public Schools - Roselawn Condon FDL Beacon Purchase

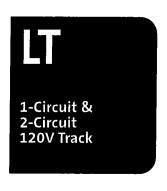
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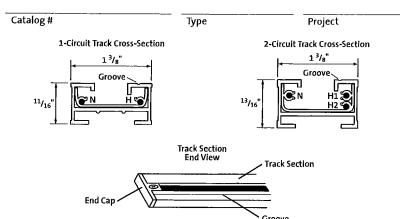
LT24-P

Notes:

Type:

LEE07-6119





Specifications/Features

Track Systems

Commercial grade track systems offer true versatility with a wide variety of power feed and connection accessories.

Mounting accessories available for T-Bar clips, stems, threaded rods, and aircraft cable.

All conductors are solid copper with thermoplastic insulators for electrical isolation.

All track sections are supplied with two insulated end caps. Channels are constructed of heavy 14 ga. extruded aluminum.

Mechanical polarity with visual indicator (groove) simplifies installation of fixtures and assures proper electrical connections.

Nominal length track sections can be cut in the field for exact fit.

Toggle bolts are supplied for simple surface installation.

Track sections may be mounted within Con-Tech's Recessed Track Housing System to minimize appearance.

1-Circuit And 2-Circuit Application

Single and 2-circuit track options available for 120V applications.

All Con-Tech track fixtures have two position contacts to access 1-circuit or 2-circuit track conductors.

All 2-circuit track sections are supplied with a set of shims (1 per foot of track) to lock the fixture contacts into 2nd circuit position.

1-Circuit Track

The economic solution for most applications.

Single hot and neutral conductors are rated for 20 Amps. Low profile track cross-section.

2-Circuit Track

Enhanced versatility with two hot conductors and a common neutral. Allows higher wattage output by splitting loads over one run of track for maximum capacity of 40 Amps (20A per circuit on single phase, 3-wire power feed).

Create lighting effects by simply applying fixtures to the desired circuits and utilizing separate switching.

Labels/Usage

cULus listed. For dry locations.

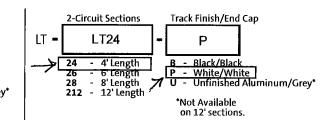
Ordering Information

12 - 12' Length

Example Order:

LT - 8 - P 1-Circuit Séctions Track Finish/End Cap LT -- 2' Length - 4' Length Black/Black White/White В 4 Length 6 Length 8 Length Polished Brass/Black* - Unfinished Aluminum/Grey*

> *Not Available on 12' sections.



Actual track extrusion lengths are 3 7/8" shorter than nominal lengths indicated above. LA11 or LA211 end caps are supplied with all track sections and may be ordered separately as needed. See other sheets for Recessed Track Systems and 120V Track Accessories. 2', 4', and 6' sections supplied with (2) toggle bolts, 8' and 12' sections supplied with (3) toggle bolts.





Catalog Number: LA210-P

Notes:

Type:

LEE07-6119

2-Circuit

Power Feeds

Catalog #

Туре

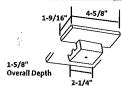
Project

General Track Information

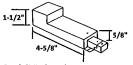
Power feeds are constructed of sturdy polycarbonate with galvanized steel back plates. Every electrical component is polarized and has a grounding capability to ensure safe usage. Visual polarity indicators simplify proper electrical installation. Twelve gauge insulated wire is used for internal connections. Solid copper track contacts provide good electrical conductivity for years of trouble free operation.

All track components are cULus listed. Installations are suitable for dry locations only. Maximum power rating is 2400 Watts per circuit (4800W total): 20A per circuit (40A total capacity) at 120V, 60Hz. NEC allows 80% of full capacity or 1920 Watts per circuit (3840W total).

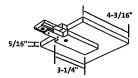
1-Circuit Track Power Feeds



Floating Feed Point

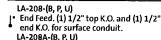


Surface Conduit End Feed



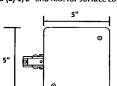
LA-207-(B, P, U) Can be installed anywhere along track. Kit includes square J-Box Canopy Cover, J-Box Mounting Bracket, Track Adaptor, and one LA-211 Series End Cap.

> 3-1/4" 4-7/8



LA-223-R -(B, P, U)

end K.O. for surface conduit. LA-208A-(B, P, U) Reverse Polarity End Feed. (1) 1/2" top K.O. and (1) 1/2" end K.O. for surface conduit.



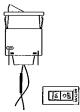
Regulator Current Limiting Device End Feed

Title 24 compliant (CA). (2) Illuminated

circuit breakers required. 1-1/4" H.



LA-209-(B, P, U) Square Cover Plate With End Feed. (1) 1/2" K.O. Kit includes J-Box Mounting Bracket, Threaded Nipple And Nut.



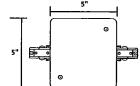
Illuminated Circuit Breaker

LA210-P

Top Access End Feed

LA-210-(B(P,U)
• Power Feed. (1) 1/2" top K.O. for standard electrical conduit. LA-210A-(B, P, U)

Reverse Polarity Power Feed. (1) 1/2" top K.O. for standard electrical conduit.



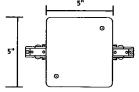
Regulator Current Limiting Device In-line Feed

LA-220-(B, P)

<u> 1</u>5/16"

1-3/8" 5/8

Ceiling End Feed has 4 1/8" square canopy cover. (3) 1/2" top K.O.'s can be used with T-grid installations.



LA-233-R-(B, P, U) Title 24 compliant (CA). (2) Illuminated circuit breakers required. 1-1/4" H.

REG1 120W, 1A REG3 300W, 2.5A REG6 600W, 5A REG9 -900W, 7.5A REG10 - 1200W, 10A REG12 - 1440W, 12A

REG14 - 1680W, 14A Finish: -B, P, U

Polarity-Configuration Legend Forward Polarity Configuration Leed Pond Reverse Polarity Configuration

All specifications subject to change without notice.



T-Bar End Feed

1-800-728-0312

4-1/8

www.con-techlighting.com

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Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

CTL838-P

Notes:

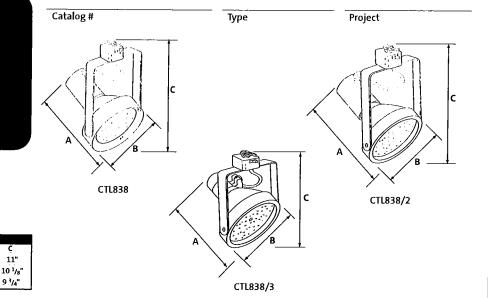
Type:

V2

LEE07-6119



Gimbal 120V Series Track Fixtures



Specifications/Features

6 1/2"

5 3/4"

4 3/4"

5 1/2"

Fixture

CTL838

CTL838/2 CTL838/3

The free, unconfined look of these gimbal lamp holders make them popular for commercial, retail and residential applications.

The 2-plane gimbal design permits maximum horizontal and vertical swivel for excellent aiming, and our "Sure-Set" yoke holds the fixture firmly in place.

Models are offered for all the popular halogen PAR lamps.

The CTL838 (only) is supplied with spring clips for the use with accessories.

Lamp/Electrical

CTL838 Lamp: 250W PAR38 (max)

CTL838/2 Lamp: 250W PAR38 (max) CTL838/3 Lamp: 150W PAR38 (max)

All styles are equipped with a convenient on/off switch and polarity indicator.

Warranty

This fixture is covered by Con-Tech's full replacement guarantee which is effective for one year.

Listing

CUL{US} listed. Suitable for dry locations.

Ordering Information

Housing Finish Accessories

CTL838 - P - LA-38

For initial Accessories - P - LA-38

CTL838 - PAR38 Lamp holder CTL838/2 - Slim PAR38 Lamp holder CTL838/3 - Side prong PAR38 Lamp holder

P - White
B - Klack
PB - Polished Brass
C - Chrome
U - UNLook

LA-38 - Egg-Crate Louver for PAR38 LF-40 - (A, B, G, LB, R, RO, 73, LS)* Color Filters for PAR38

*Specify color





All specifications subject to change without notice.

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Catalog Number: LT28-P

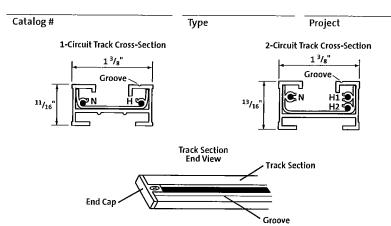
Notes:

Type:

V2

LEE07-6119





Specifications/Features

Track Systems

Commercial grade track systems offer true versatility with a wide variety of power feed and connection accessories.

Mounting accessories available for T-Bar clips, stems, threaded rods, and aircraft cable.

All conductors are solid copper with thermoplastic insulators for electrical isolation.

All track sections are supplied with two insulated end caps. Channels are constructed of heavy 14 ga. extruded aluminum.

Mechanical polarity with visual indicator (groove) simplifies installation of fixtures and assures proper electrical connections.

Nominal length track sections can be cut in the field for exact fit. Toggle bolts are supplied for simple surface installation.

Track sections may be mounted within Con-Tech's Recessed Track Housing System to minimize appearance.

1-Circuit And 2-Circuit Application

Single and 2-circuit track options available for 120V applications.

All Con-Tech track fixtures have two position contacts to access 1-circuit or 2-circuit track conductors,

All 2-circuit track sections are supplied with a set of shims (1 per foot of track) to lock the fixture contacts into 2nd circuit position.

1-Circuit Track

The economic solution for most applications.

Single hot and neutral conductors are rated for 20 Amps.

Low profile track cross-section.

2-Circuit Track

Enhanced versatility with two hot conductors and a common neutral. Allows higher wattage output by splitting loads over one run of track for maximum capacity of 40 Amps (20A per circuit on single phase, 3-wire power feed).

Create lighting effects by simply applying fixtures to the desired circuits and utilizing separate switching.

Labels/Usage

cUL{us} listed. For dry locations.

Ordering Information

Example Order: LT - 8 - P

LT = 2 - 2' Length Track Finish/End Cap

B - Black/Black

4 - 4' Length 6 - 6' Length 8 - 8' Length 12 - 12' Length B - Black/Black P - White/White PB - Polished Brass/Black*

Unfinished Aluminum/Grey*

*Not Available

2-Circuit Sections

LT = LT28 = P

24 - 4' Length
26 - 6' Length
28 - 8' Length
212 - 12' Length

Not Available on 12' sections.

Actual track extrusion lengths are 3 7/8" shorter than nominal lengths indicated above. LA11 or LA211 end caps are supplied with all track sections and may be ordered separately as needed. See other sheets for Recessed Track Systems and 120V Track Accessories. 2', 4', and 6' sections supplied with (2) toggle bolts, 8' and 12' sections supplied with (3) toggle bolts.



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Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: LA210-P

Notes:

Type:

LEE07-6119

2-Circuit

Power Feeds

Catalog #

Type

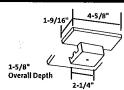
Project

General Track Information

Power feeds are constructed of sturdy polycarbonate with galvanized steel back plates. Every electrical component is polarized and has a grounding capability to ensure safe usage. Visual polarity indicators simplify proper electrical installation. Twelve gauge insulated wire is used for internal connections. Solid copper track contacts provide good electrical conductivity for years of trouble free operation.

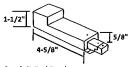
All track components are cULus listed. Installations are suitable for dry locations only. Maximum power rating is 2400 Watts per circuit (4800W total): 20A per circuit (40A total capacity) at 120V, 60Hz. NEC allows 80% of full capacity or 1920 Watts per circuit (3840W total).

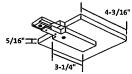
1-Circuit Track Power Feeds



Floating Feed Point

Top Access End Feed





Outlet Box Feed Kit

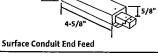
LA-209-(B, P, U)

LA-207-(B, P, U) Can be installed anywhere along track. Kit includes square J-Box Canopy Cover, J-Box Mounting Bracket, Track Adaptor, and one

LA-211 Series End Cap.

1-3/8" **5/8**'

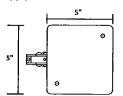
> 3-1/4 4-7/8"



LA-208-(B, P, U) End Feed. (1) 1/2" top K.O. and (1) 1/2"

end K.O. for surface conduit.

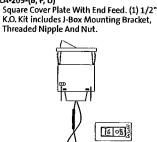
LA-208A-(B, P, U)
Reverse Polarity End Feed. (1) 1/2" top K.O.
and (1) 1/2" end K.O. for surface conduit.



Regulator Current Limiting Device End Feed

LA-223-R -(B, P, U) Title 24 compliant (CA). (2) Illuminated

circuit breakers required. 1-1/4" H.

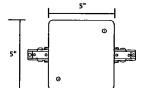


Illuminated Circuit Breaker

LA-210-(B(P, b))
Power Feed. (1) 1/2" top K.O. for standard

LA210-P

LA-210A-(B, P, U)
Reverse Polarity Power Feed. (1) 1/2" top
K.O. for standard electrical conduit.



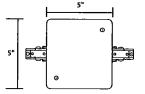
Regulator Current Limiting Device In-line Feed

LA-220-(B, P)

4-1/8"

<u> 1</u>5/16"

Ceiling End Feed has 4 1/8" square canopy cover. (3) 1/2" top K.O.'s can be used with T-grid installations.



LA-233-R-(B, P, U) Title 24 compliant (CA). (2) Illuminated circuit breakers required, 1-1/4" H.

REG1 -120W, 1A 300W, 2.5A REG3 600W, 5A REG9 -900W, 7.5A REG10 - 1200W, 10A REG12 - 1440W, 12A

REG14 - 1680W, 14A Finish: -B, P, U

> **Polarity-Configuration Legend** Forward Polarity Configuration Leed Fond Reverse Polarity

All specifications subject to change without notice



T-Bar End Feed

1-800-728-0312

www.con-techlighting.com

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Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: SWF842-A-SW-WG LAMPS

Notes:

Type: X8P

LEE07-6119

SW/LW CFL

COMPACT FLUORESCENT



Superwatt®

Features

- Instant on The compact fluorescent lamps are on as soon as they are
- Instant re-strike As above, the compact fluorescent lamps are on as soon as energized.
- Good Color Compact Fluorescent lamps have a CRI of about 82 on a scale of 100.
- Better Lumen Maintenance Compact Fluorescent lamps have a flatter lumen maintenance curve.
- Switch-able Dimming Since each ballast powers two lamps, an eight lamp
- unit can be switched to provide 25%, 50%, 75% and 100% light output.

 Fail safe light output Since these are multiple lamp source units, they provide a measure of "fail safe" lighting that single source fixtures can not.

 Shielding of Lamp Image The Superwatt refractor does a good job of
- breaking up the lamp image, Superwatt Appearance –In comparison to all of the other CF highbays the Superwatt just plain looks better. In many applications this could tip the scales in your favor.

Ordering Information Example:

SWF 842

Series

Watts

Refractor

Superwatt® Series Compact Fluorescent SWF e/Wattage (4) 26W PLT (4) 32W PLT (4) 42W PLT 32W PLT 42W PLT 26W PLT 32W PLT 42W PLT 26W PLT 842

Refract Acrylic Polycarbonate

Options -INC

Incandescent Socket

Less lamp One Emergency Ballast

Note All fixtures are wet location listed.

Note All fixtures are pendant mount. Note Voltage is Universal 120/277V 50/60Hz.

Note Options must be added as suffix to catalog number. Accessories must be ordered separately.

Accessories - Order Separately

1	Catalog Number	Description
١.	SW-WG	Wire guard
Ī	A-Lens	Acrylic Bottom "Lift & Shift" Lens
	P-Lens	Polycarbonate Bottom "Lift & Shift" Lens

Mount Watts

Volts

Refractor

color

WH

Series LW Lightwatt

Series

Mounting
J-Box (damp location)
P Balanced Pendant (wet location); (damp location) with cord

option¹ Ceiling thru-wire (wet location) Pipe wall bracket (wet location) Stanchion Davit (wet location)

Wattage 042 064 084 2 x 32W 2 x 42W

Voltage

Refractor

' Acrylic Polycarbonate A P

Color WH

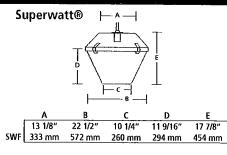
White Lektrocote® (standard) Gray Lektrocote®

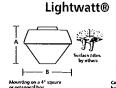
Fast-Lock J-Box mounting-recessed J-Box requires installation of the included 1 1/2" extension ring.

Note Lamp included.

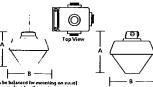
Note Options must be added as suffix to catalog number. Accessories must be ordered separately.

Dimensions









J-Box Mounting

Α	В
12 1/4"	14 3/4"
31 <u>1 mm</u>	375 mm

14 3/4" 356 mm 375 mm

Pendant

14 1/4" 14 3/4" 362 mm 375 mm

Ceiling Thru-Wire

434

HUBBELL **Hubbell Lighting**

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Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

SSP15-4.0-11-DM10-KIM AR-KIM PS-P

Notes:

Type: PSS1

LEE07-6119

KW Industries

Page 1 of 4

SSP Square Non-Tapered Steel Poles

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"), 7 gauge (0.1793"), or 3 gauge (0.2391"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal $3" \times 5"$ or $4" \times 6-1/2"$ inside opening, located 1'-6" above base, is standard on all poles. Optional $5" \times 8"$ and $4" \times 10"$ handholes are available (see options). A grounding provision is located inside the handhole ring.

Finishes

The **Standard Finish** is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils for all color finishes. **Hot dip Galvanized** finish to a ASTM A-123 specification or primed finish is also available. For optional finishes, see **K-KLAD** and **K-KLAD Over Galvanizing**.

HOW TO ORDER

When ordering KW lighting standards, mounting adaptors and accessories, be sure to specify the complete catalog number. Our catalog numbers reflect the precise specifications of the item ordered to ensure our customers will receive the product which meets their exact requirements,

The following explanation of the catalog numbers will be helpful in placing orders:



Catalog Number	Nominal Height	Pole Shaft	Gauge	Handhole Size	Anchor Bolt	Bolt Circle	80 MPH	90 MPH	100 MPH	Ship WT.
5SP10-4.0-11	10	4.0 x 10.0	11	3 x 5	0.75 x 17 x 3	8	42.1	33.5	27.1	87
SSP10-4,0-7	10	4.0 x 10.0	7	3 x 5	0.75 x 30 x 3	_ ε	55	44	35,5	130
SSP10-5.0-11	10	5.0 x 10.0	11	3 x 5	1.00 × 36 × 4	11	58	44	34	151
SSP12-4.0-11	12	4.0 x 12.0	11	3 x 5	0.75 x 17 x 3	- 8	33.7	26,7	21,4	100
5SP12-4.0+7	12	4.0 x 12.0	7	3 x 5	0.75 x 30 x 3	8	47.5	37.3	29.8	150



Catalog Number: SSP15-4.0-11-DM10-KIM AR-KIM PS-P Notes:

Type: PSS₁

LEE07-6119

KW Industries

Page 2 of 4

ISSP12-5,0-11]] 12	5.0 × 12.0	13	3 x 5	1.00 x 36 x 4	11	49	U 20	II ss	II
SSP14-4.0-11	14	4.0 x 14.0	31	3 x 5	0,75 × 17 × 3		27.4	38	29	158
SSP14-4,0-7	14	4.9 x 14.0	- 31	3 x 5				21.5	17,1	113
SSP14-5.0-11	14	5,0 x 14,0	11	3 x 5	0.75 x 30 x 3		40	31	24,5	170
SSP14-5,0-7	14	5.0 × 14.0	7 7	3 x 5	1.00 x 36 x 4		65	30	23	184
SSP15-4.0-11	15	4.0 x 15.0	11	3 x 5	0.75 x 17 x 3			52	41,5	242
SSP15-4,0-7	15	4.0 x 15.0	7	3 x 5			20,7	16.1	12.6	119
SSP15-5,0-11	15	5.0 x 15.0	11	3 x 5	0,75 x 30 x 3		30.9	24.4	19,6	172
SSP15-5,0-7	15	5.0 x 15.0	7	3 x 5			36	27,5	21	192
SSP16-4,0-11	16	4.0 × 16.0	11		1,00 x 36 x 4		59	46,5	37	254
SSP16-4,0-7	16	4,0 x 16,0	7	3 x 5 3 x 5	0.75 x 17 x 3		13,7	14.4	11,2	125
SSP16-5,0-11	16	5.0 × 16.0	11	3 x 5	1.00 x 36 x 4	8	27.2	20.7	16	210
SSP16-5.0-7	16	5.0 x 16.0	7	3 x 5			33.5	25	81_	201
SSP18-4,0-11	18	4.0 × 18.0	11	3 x 5	1.00 x 36 x 4	11	54	43	34	265
SSP18-4.0-7	18	4,0 x 18,0	7	3 x 5	0.75 x 17 x 3	8 8	15.2	11,5	8.7	138
SSP18-5,0-11	13	5.0 × 18.0	11	3 x 5	1,00 x 36 x 4		27.2	20,7	16	210
SSP18-5.0-7	18	5,0 x 18,0	7	3 x 5	1,00 x 36 x 4	11	27	19.5	15	218
SSP20-4.0-11	20	4.0 x 20.0	11	3 x 5	0.75 x 17 x 3	8	46	36 G	28	291
SSP20-4.0-7	20	4.0 × 20.0	7	3 x 5	0.75 x 17 x 3	8	12.3	15	6.5	151
SSP20-5,0-11	20	5.0 x 20.0	11	3 x 5	1.00 × 36 × 4	11			11.5	219
SSP20-5,0-7	20	5.0 × 20.0	7	3 x 5	1.00 x 36 x 4		22,2	16.8	12.6	235
SSP20-6,0-7	20	6.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11.5	35.4	27,5	33.5	313
SSP22-4,0-7	22	4,0 x 22,0	7	3 x 5	0.75 × 30 × 3	8	56 12.2	42,5	_	368
SSP22-4,0-11	22	4.0 x 22,0	11	3 x 5	0.75 x 17 x 3	8		8.7	6	266
SSP22-5.0-11	22	5.0 x 22.0	11	3 x 5	1.00 × 36 × 4	11	18.5	4,3 13,6	2,3 9.8	182
SSP22-5,0-7	22	5.0 x 22.0	7	3 x 5	1.00 x 36 x 4	11	30.2	=		252
SSP22-6,0-7	22	6.0 x 22,0	7	3 x 5	1.00 x 36 x 4	11.5	49	23.2 37.5	_17,8 28	337 398
SSP24-4.0-7	24	4.0 x 24,0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP24-5,0-11	24	5.0 x 24.0	11	3 x 5	1,00 × 36 × 4	11	15.2	10.8	7,4	268
SSP24-5.0-7	24	5.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11	25.8	19.4	14.6	361
SSP24-6,0-7	24	6.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11,5	42	31,5	23	428
SSP25-4.0-11	25	4.0 x 25.0	11	3 x 5	0.75 x 17 x 3	8	6.9	4.3	2,3	182
SSP25-4.0-7	25	4.0 x 25.0	7	3 x 5	0.75 x 30 x 3	8	12,2	8.7	6	266
SSP25-5.0-11	25	5.0 x 25.0	11	3 x 5	1.00 × 36 × 4	11	13,8	9.5	6.3	276
SSP25-5.0-7	25	5.0 × 25.0	7	3 x 5	1,00 x 36 x 4	11	23.8	17.7	13.1	373
SSP25-6.0-7	25	6.0 x 25.0	7	3 x 5	1.00 x 36 x 4	11.5	39	28.5	21	443
SSP26-4.0-7	26	4.0 x 26.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP26-5.0-11	26	5.0 x 26.0	11	3 x 5	1,00 x 36 x 4	11	12,4	8,3	5.2	284
SSP26-5.0-7	26	5.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11	21.9	16.1	11.8	384
SSP26-6,0-7	26	6.0 × 26.0	7	3 x 5	1,00 x 36 x 4	11,5	35.5	25.5	18.5	457
SSP28-4.0-7	28	4.0 x 28.0	7	3 x 5	0.75 x 30 x 3	8	6.9	_4	1	312
SSP28-5,0-11	28	5.0 x 28.0	11	3 x 5	1.00 x 36 x 4	11	9.8	6.1	3.2	300
SSP28-5.0-7	28	5.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11	18.4	13.2	9.2	408
SSP28-6.0-7	28	6.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11.5	30	21.5	15	487
SSP30-4,0-7	30	4.0 x 30.0	7	3 x 5	0,75 x 30 x 3	8	6.9	4	1	312
SSP30-5.0-11	30	5.0 x 30.0	11	3 x 5	1.00 x 36 x 4	11	6.5	3.5	1.2	315
SSP30-5.0-7	30	5,0 x 30,0	7	3 x 5	1.00 × 36 × 4	11	13.4	9,1	5,9	432
SSP30-6.0-7	30	6.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11.5	27,5	19.9	14.1	512
SSP30-6,0-3	30	6.0 x 30.0	3	3 x 5	1.00 x 36 x 4	12	34.3	25.3	18.5	645
5SP35-5.0-7	35	5.0 x 35.0	7	3 x 5	1.00 x 36 x 4	t1	7,2	3.7	í	491
SSP35-6.0-7	35	6.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.5	15	9.5	5.3	584
SSP35-6.0-3	35	6.0 x 35.0	3	3 x 5	1.00 x 36 x 4	12	19.7	13.2	3.2	739
SSP39-6.0-7	39	6.0 × 39.0	7	3 x 5	1.00 x 36 x 4	11.5	9.2	4.3	0.6	642
SSP39-5,0-3	39	6.0 x 39.0	3	3 x 5	1.00 x 36 x 4	12	1.3	7,4	3.1	814

FINISHES

<u>Standard</u> BRZ Bronze Galvanized

K-KLAD

K-KLAD Over Galvanizing

Black BLK

G Galvanized

K813 Bronze Black

KZ13 Bronze

K821

KZ21 Black Submitted by Leesman Sales



Job Name:

Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number:

SSP15-4.0-11-DM10-KIM AR-KIM PS-P

Notes:

Type: PSS₁

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LEE07-6119

KW Industries

GRY

GRN

WHT

P

KIM LIGHTING PS-P (Platinum Silver)

K841 Gray K891 Green KZ41 Gray KZ91

Green

K881 White K845 Natural Aluminum KZ81 White

KZ45 Natural Aluminum

NA Natural Aluminum

Gray

Green

White

Primed

1 YEAR WARRANTY

5 YEAR WARRANTY

10 YEAR WARRANTY

MOUNTING DESIGNATIONS

Tenon Mount

2 2 3/8 " x 4 " TENON . 2 7/8 " x 4 " TENON 3 3 1/2 " x 6 " TENON

DM10 DM2090 DM2180

Drill Mount

Drilled for 2 Luminaires @ 900 Drilled for 2 Luminaires @ 180º

DM3090 DM4090

Drilled for 3 Luminaires @ 90° Drilled for 4 Luminaires @ 90°

Drilled for 1 Luminaire

Gain Mount

3.5

GMT4 attachment for CXA

4 " x 6 " TENON

Open Mount OT Open Top

GMT9 attachment for CXASQ

OTC Open Top includes Pole Cap

OPTIONS

There are numerous options that can be ordered. Please indicate these selections under the options column in the catalog number, Example: CPL-WPR2-BC.

Accessories

ВC Base Cover

CPL Threaded Coupling*

NPL Threaded Nipple?

WPR2 Weatherproof Duplex Receptacle**

WPRP Festoon Opening 11

Optional Handholes

58HH 5 " x 8 " Handhole*

410HH 4 " x 10 " Handhole*

Extra Handholes

Extra Handhole*

Embedment Pole Options

E Embedded Pole GS Ground Sleeve

CTE Coal Tar Epoxy

For Embedment Poles:

Recommended Mounting Height Recommended Embedment Depth

> Less than 20' 20' - 33'

4' 6'

Greater than 33'

7

Additional Simplex

15 $1 @ 0^{\circ}$ 25 2 @ 180° ·

35 3 @ 900 4

45 4 @ 900 * Greater embedment depths are available upon request. Embedment poles greater than 35' are not available.

 $^{^{\}star}$ Please advise size, location, and orientation. (Handholes are restricted by size of pole shaft diameter)

		(
*		
		(,



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

Notes:

SSP20-4.0-11-DM2180-KIM AR-KIM PS-P Type: PSS2

LEE07-6119

KW Industries

Page 1 of 4

SSP Square Non-Tapered Steel Poles

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"), 7 gauge (0.1793"), or 3 gauge (0.2391"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal $3" \times 5"$ or $4" \times 6-1/2"$ inside opening, located 1'-6" above base, is standard on all poles. Optional $5" \times 8"$ and $4" \times 10"$ handholes are available (see options). A grounding provision is located inside the handhole ring.

Finishes

The **Standard Finish** is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils for all color finishes. **Hot dip Galvanized** finish to a ASTM A-123 specification or primed finish is also available. For optional finishes, see **K-KLAD** and **K-KLAD Over Galvanizing**.

HOW TO ORDER

When ordering KW lighting standards, mounting adaptors and accessories, be sure to specify the complete catalog number. Our catalog numbers reflect the precise specifications of the item ordered to ensure our customers will receive the product which meets their exact requirements.

The following explanation of the catalog numbers will be helpful in placing orders:



SSP10-4.0-11 10 4.0 x 10.0 11 3 x 5 0.75 x SSP10-4.0-7 10 4.0 x 10.0 7 3 x 5 0.75 x SSP10-5.0-11 10 5.0 x 10.0 11 3 x 5 1.00 y		8	42.1 55	33.5	27.1	87
CONC. TO 44	× 30 × 3	Ε.	55	=		
SSP10-5.0-11 10 5.0 x 10.0 11 3 x 5 1.00 y			11 22 1	44	35,5	130
	35 x 4	11	58	44	34	151
5SP12-4.0-11 12 4.0 x 12.0 11 3 x 5 0.75 x	17 x 3	8	33,7	26.7	21.4	100
SSP12-4,0-7 12 4.0 x 12.0 7 3 x 5 0.75 x	30 2. 3	8	47.5	37.3	29.8	150



Catalog Number: SSP20-4.0-11-DM2180-KIM AR-KIM PS-P Notes:

Type: PSS2

LEE07-6119

KW Industries

Page 2 of 4

SSP12-5.0-11	 12	5.0 x 12.0	11	 3×5	1.90 a 35 x 4	13	49	ll 38	 29	361
SSP14-4.0-11	14	4,0 x 14,0	11	3 x 5	0,75 x 17 x 3		27,4	21.5	17.1	113
SSP14-4,0-7	14	4.0 × 14.0	1.1	3 % 5	0.75 x 30 x 3					
SSP14-5,0-11	14	5.0 x 14.0	11	3 x 5	1.00 x 36 x 4		40	31	24.5	170
SSP14-5,0-7	14	5,0 × 14,0	7	3 x 5	====		40	30	23	184
SSP15-4.0-11	15	4.0 x 15.0	11	-	1.00 x 36 x 4		65	52	41.5	242
SSP15-4.0-7	15	4.0 x 15.0	7	3 x 5	0.75 x 17 x 3	:	20.7	16.1	12.6	119
SSP15-5,0-11	15	5.0 x 15.0	11	-	0,75 x 30 x 3	8	30.9	24.4	19,6	172
SSP15-5,0-7	15	5.0 x 15.0	7	3 x 5	1.00 x 36 x 4		36	27,5	21	192
SSP16-4,0-11	16	4,0 x 16,0	11		1.00 x 36 x 4		59	46.5	37	254
SSP16-4,0-7	16	4.0 x 16.0	7	3 x 5	0.75 x 17 x 3	8	13.7	14.4	11.2	125
SSP16-5.0-11	16			3 x 5	0.75 x 30 x 3	8	27,2	20.7	16	210
SSP16-5.0-7	16	5.0 x 16.0 5.0 x 16.0	11	3 x 5	1.00 x 36 x 4	11	33,5	25	18	201
SSP18-4.0-11	18		7	3 4 5	1.00 x 36 x 4	11	54	43	34	265
SSP18-4.0-7	18	4.9 x 18.0	11	3 x 5	0.75 x 17 x 3	8	15.2	11.5	8,7	138
SSP18-5.0-11	18	4,0 x 18,0	7	3 (5	0.75 x 30 x 3	8	27.2	20,7	16	210
SSP18-5.0-7		5.0 x 18.0	11	3 x 5	1.00 × 36 × 4		27	19.5	15	218
SSP20-4.0-11	18	5.0 x 18.0		3 x 5	1.00 x 36 x 4	11	46	36	28	291
SSP20-4,0-7	20	4.0 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151
SSP20-5.0-11	20	4.0 × 20.0	7	3 x 5	0.75 x 30 x 3		19,6	15	11.5	219
SSP20-5.0-11 SSP20-5.0-7	20	5.0 x 20.0	11	3 x 5	1.00 × 36 × 4	11	22.2	16.8	12.6	235
	20	5.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11	35.4	27,5	21,5	313
SSP20-6,0-7 SSP22-4,0-7	20	6.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11.5	56	42.5	33.5	368
	22	4,0 x 22,0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP22-4.0-11	22	4.0 x 22.0	11	3 x 5	0.75 x 17 x 3	8	6,9	4.3	2.3	182
SSP22-5.0-11	22	5.0 x 22.0	11	3 x 5	1,00 x 36 x 4	11	18.5	13,6	9.8	252
SSP22-5.0-7	22	5.0 x 22.0	7	3 x 5	1.00 x 36 x 4	11	30.2	23.2	17,8	337
SSP22-6,0-7	22	6.0 x 22.0		3 x 5	1.00 x 36 x 4	11.5	49	37,5	28	398
SSP24-4,0-7	24	4.0 x 24.0	7	3 x 5	0.75 x 30 x 3	88	12.2	8.7	6	266
SSP24-5,0-11	24	5.0 x 24.0	11	3 x 5	1.00 × 36 × 4	11	15,2	10.8	7,4	268
SSP24-5.0-7	24	5.0 x 24.0		3 x 5	1.00 x 36 x 4	11	25.8	19,4	14.6	361
SSP24-6.0-7	24	6.0 × 24.0	7	3 x 5	1,00 x 36 x 4	11.5	42	31,5	23	428
SSP25-4,0-11	25	4.0 x 25.0	11	3 x 5	0.75 x 17 x 3	8	6.9	4.3	2.3	182
SSP25-4.0-7	25	4,0 x 25.0	7	3 x 5	0.75 x 30 x 3	8	12,2	8.7	6	266
SSP25-5.0-11	25	5.0 x 25.0	11	3 x 5	1.00 × 36 × 4	11	13.8	9.5	6.3	276
SSP25-5,0-7	25	5.0 x 25.0		3 x 5	1.00 x 36 x 4	11	23.8	17,7	13,1	373
SSP25-6.0-7	25	6.0 x 25.0	7	3 x 5	1.00 x 36 x 4	11.5	39	28.5	21	443
SSP26-4.0-7	26	4,0 x 26,0	7	3 x 5	0.75 x 30 x 3	8	6,9	4	. 1	312
SSP26-5,0-11	26	5.0 x 26.0	11	3 x 5	1.00 x 36 x 4	11	12.4	8.3	5,2	284
SSP26-5.0-7	26	5.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11	21,9	16.1	11.8	384
SSP26-6.0-7	26	6.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11.5	35,5	25,5	18,5	457
SSP28-4.0-7	28	4.0 x 28.0	7	3 x 5	$0.75 \times 30 \times 3$	8	6.9	4	1	312
SSP28-5,0-11	28	5.0 × 28.0	11	3 x 5	1.00 x 36 x 4	11	9.8	6.1	3.2	300
SSP28-5,0-7	28	5.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11	18.4	13.2	9,2	408
SSP28-6.0-7	28	6.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11.5	30	21.5	15	487
SSP30-4,0-7	30	4.0 x 30.0	7	3 x 5	0.75 x 30 x 3	8	6,9	4	1	312
5SP30-5.0-11	30	5.0 x 30.0	11	3 x 5	1.00 x 35 x 4	11	6.5	3.5	1.2	315
SSP30-5,0-7	30	5,0 x 30,0	7	3 x 5	1.00 x 36 x 4	11	13.4	9.1	5.9	432
SSP30-6.0-7	30	6.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11,5	27.5	19.9	14.1	512
SSP30-6.0-3	30	6.0 x 30.0	3	3 x 5	1.00 x 36 x 4	12	34.3	25.3	18.5	645
5SP35-5.0-7	35	5.0 x 35.0	7	3 × 5	1.00 × 36 × 4	<u>t 1</u>	7,2	3.7	1	491
SSP35-6.0-7	35	6.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.5	15	9.5	5.3	584
SSP35-6.0-3	35	6,0 x 35,0	3	3 x 5	1.00 x 36 x 4	12	19.7	13,2	3.2	739
SSP39-6.0-7	39	6.0 × 39.0	7	3 x 5	1.00 x 36 x 4	11.5	9.2	4.3	0.6	642
SSP39-6.0-3	39	6.0 x 39.0	3	3 × 5	1.00 x 36 x 4	12	13	7,4	3,1	814

FINISHES

Standard BRZ Bronze Galvanized

K-KLAD

K-KLAD Over Galvanizing

BRZ Bronze
BLK Black

G Galvanized

K813 Bronze K821 Black KZ13 Bronze

KZ21

I Black

Submitted by Leesman Sales



Job Name:

Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: SSP20-4.0-11-DM2180-KIM AR-KIM PS-P Notes:

Type: PSS2

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LEE07-6119

KW Industries

GRY

KIM LIGHTING PS-P (Platinum Silver)

K841 Gray K891 Green KZ41 KZ91

Gray Green

GRN Green WHT White ₽

Gray

K881 K845

Natural Aluminum

KZ81 KZ45

White Natural Aluminum

Primed NA Natural Aluminum

1 YEAR WARRANTY

5 YEAR WARRANTY

10 YEAR WARRANTY

MOUNTING DESIGNATIONS

4" x 6" TENON

Tenon Mount 2 3/8 " x 4 " TENON 2 7/8 " x 4 " TENON 3 3 1/2 " x 6 " TENON 3.5

Drill Mount

DM10 Drilled for 1 Luminaire DM2090 Drilled for 2 Luminaires @ 900

DM2180 Drilled for 2 Luminaires @ 1800 DM3090 DM4090

Drilled for 3 Luminaires @ 900 Drilled for 4 Luminaires @ 90°

Gain Mount

Open Mount

GMT4 attachment for CXA GMT9 attachment for CXASO OT Open Top

OTC Open Top includes Pole Cap

OPTIONS

There are numerous options that can be ordered. Please indicate these selections under the options column in the catalog number, Example: CPL-WPR2-BC.

Accessories

BC Base Cover

CPL Threaded Coupling*

NPL Threaded Nipple

WPR2 Weatherproof Duplex Receptacle**

WPRP Festoon Opening**

Optional Handholes

58HH 5" x 8" Handhole* 410HH 4 " x 10 " Handhole*

Extra Handholes

XHH Extra Handhole!

Embedment Pole Options

Embedded Pole GS Ground Sleeve CTE Coal Tar Epoxy

For Embedment Poles:

Recommended Mounting Height Recommended Embedment Depth

Less than 20' 20' - 33'

4 6'

Greater than 33'

7

Additional Simplex

15 1 @ 00 25 2 @ 180° ·

3@900+

Greater embedment depths are available upon request. Embedment poles greater than 35' are not available.

45 4 @ 90° °

3\$

^{*} Please advise size, location, and orientation. (Handholes are restricted by size of pole shaft diameter)

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4		



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number:

SSP20-4.0-11-DM10-KIM AR KIM PS-P-CPL

Notes:

Type: **PSS3**

LEE07-6119

KW Industries

Page I of 4

SSP Square Non-Tapered Steel Poles

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"), 7 gauge (0.1793"), or 3 gauge (0.2391"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal $3" \times 5"$ or $4" \times 6-1/2"$ inside opening, located 1'-6" above base, is standard on all poles. Optional $5" \times 8"$ and $4" \times 10"$ handholes are available (see options). A grounding provision is located inside the handhole ring.

Finishes

The **Standard Finish** is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils for all color finishes. **Hot dip Galvanized** finish to a ASTM A-123 specification or primed finish is also available. For optional finishes, see **K-KLAD** and **K-KLAD Over Galvanizing**.

HOW TO ORDER

When ordering KW lighting standards, mounting adaptors and accessories, be sure to specify the complete catalog number. Our catalog numbers reflect the precise specifications of the item ordered to ensure our customers will receive the product which meets their exact requirements.

The following explanation of the catalog numbers will be helpful in placing orders:

SERIES DIAMETER FINISH OPTIONS NOMINAL GAUGE DESIGNATION SSP 30 - 5.0 - 11 - BRZ - DM10 - BC

Catalog Number	Nominal Height	Pole Shaft	Gauge	Handhole Size	Anchor Bolt	Bolt Circle	80 MPH	90 MPH	100 MPH	Ship WT.
5SP10-4.0-11	10	4.0 x 10.0	11	3 x 5	0.75 x 17 x 3	. 8	42.1	33.5	27.1	_87
SSP10-4.0-7	10	4.0 x 10.0	7	3 x 5	0.75 x 30 x 3	3	55	44	35.5	130
SSP10-5.0-11	10	5.0 x 10.0	11	3 x 5	1.00 x 36 x 4	11	58	44	34	151
SSP12-4.0-11	12	4.0 x 12.0	11	3 x 5	0.75 x 17 x 3	8	33.7	26,7	21.4	100
SSP12-4.0-7	12	4.0 x 12.0	7	3 x 5	0.75 x 30 x 3	8	47.5	37.3	29.8	150
	,		-		-		=		===	=



Catalog Number: SSP20-4.0-11-DM10-KIM AR KIM PS-P-CPL

Notes:

Type:

PSS₃

LEE07-6119

KW Industries

Page 2 of 4

SSP12-5.6-11	12	5.0 x 12.0	11	3 x 5	1.00 x 36 x 4	ll ii	49	38	29	1 158
SSP14-4,0-11	14	4.0 x 14.0	11	3 × 5	0.75 × 17 × 3	8	27.4	21.5	17.1	113
SSP14-4,0-7	14	4.0 x 14.0	7	3 x 5	0.75 x 30 x 3	·	40	31	24,5	170
SSP14-5.0-11	14	5.0 x 14.0	11	3 x 5	1.00 x 36 x 4	!	40	30	23	184
SSP14-5.0-7	14	5.0 × 14.0	7	3 4 5	1,00 x 36 x 4	11	65	52	41.5	
SSP15-4.0-11	15	4.0 x 15.0	11	3 x 5	0.75 x 17 x 3	8	20.7			242
SSP15-4,0-7	15	4.0 × 15.0	7	3 x 5	0.75 x 30 x 3	8	30.9	16.1 24.4	12.6	119
SSP15-5.0-11	15	5,0 x 15,0	11	3 x 5	1.00 x 36 x 4	11	36	27.5	==	::==
SSP15-5,0-7	15	5.0 x 15.0	7	3 x 5	1,00 x 36 x 4		59		21	192
SSP16-4,0-11	16	4,0 × 16,0	11	3 x 5	0.75 x 17 x 3	8	-	46.5	37	254
SSP16-4.0-7	16	4.0 x 16.0	7	3 x 5	0.75 x 17 x 3		18.7	14.4	11.2	125
SSP16-5,0-11	16	5.0 x 16.0	11	3 x 5		8	27.2	20.7	16	210
SSP16-5.0-7	16	5.0 x 16.0	7	3 x 5	1.00 x 36 x 4		33,5	25	18	201
SSP18-4.0-11	18	4.0 × 18,0			1.00 × 36 × 4	11	54	43	34	266
SSP18-4.0-7	18	4.0 x 18.0	11	3 x 5	0.75 x 17 x 3	8	15.2	11,5	8.7	138
SSP18-5,0-11	18	5.0 x 18.0		3 x 5	0.75 x 30 x 3	8	27,2	20.7	16	210
SSP18-5,0-7	18	5.0 x 18.0	11 7	3 x 5	1.00 × 36 × 4	11	27	19.5	15	218
SSP20-4.0-11	20			3 x 5	1.00 x 36 x 4	11	46	36	28	291
SSP20-4.0-11	20	4.0 x 20.0 4.0 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151
SSP20-5,0-11	20	5.0 x 20.0		3 x 5	0.75 × 30 × 3	8	19.6	15	11.5	219
SSP20-5,0-7	20	5.0 x 20.0	<u>11</u>	3 x 5	1.00 x 36 x 4	11	22.2	16.8	12.6	235
SSP20-6.0-7	20			3 x 5	1.00 x 36 x 4	11	35,4	27.5	21.5	313
SSP22-4.0-7	22	6,0 x 20,0	7	3 x 5	1.00 x 36 x 4	11.5	56	42.5	33,5	368
SSP22-4,0-11	22	4.0 x 22.0	كك	3 x 5	0.75 × 30 × 3	- 8	12.2	8,7	6	266
SSP22-5.0-11	22	4.0 x 22.0	11	3 x 5	0.75 x 17 x 3	8	6.9	4.3	2.3	182
SSP22-5,0-7	22	5,0 x 22,0	11	3 x 5	1.00 x 36 x 4	11	18.5	13.6	9.8	252
SSP22-6.0-7	22	5.0 x 22,0	7	3 x 5	1.00 x 36 x 4	11	30.2	23.2	17.8	337
SSP24-4.0-7	24	6.0 x 22.0	7	3 x 5	1.00 × 36 × 4	11.5	49	37.5	28	398
SSP24-5.0-11		4.0 x 24.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP24-5.0-7	24	5.0 x 24.0	11	3 × 5	1.00 × 36 × 4	11	15.2	10.8	7,4	268
SSP24-6,0-7	====	5.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11	25.8	19.4	14.6	361
SSP25-4,0-11	24	6.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11,5	42	31,5	23	428
SSP25-4,0-11	25	4.0 x 25.0	11	3 x 5	0.75 x 17 x 3	8	6,9	4.3	2,3	182
SSP25-5.0-11	25	4.0 × 25.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP25-5,0-7		5.0 x 25.0	11	3 x 5	1.00 x 36 x 4	l i	13.8	9.5	6.3	276
SSP25-6.0-7	25 25	5.0 × 25.0	7	3 x 5	1.00 x 36 x 4	11	23,8	17.7	13,1	373
SSP26-4.0-7		6.0 x 25.0		3 x 5	1.00 × 36 × 4	11.5	39	28.5	21	443
SSP26-5,0-11	26	4.0 × 26.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP26-5,0-11	26	5.0 x 26.0	11	3 x 5	1.00 x 36 x 4	11	12,4	8,3_	5,2	284
SSP26-6,0-7	26	5.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11	21,9	16.1	11.8	384
SSP28-4,0-7	26	6.0 x 26.0	7	3 x 5	1.00 × 36 × 4	11.5	35.5	25.5	18.5	457
SSP28-5.0-11	28	4.0 x 26.0	=	3 x 5	0.75 × 30 × 3	8	6.9	4	1	312
SP28-5,0-7	28	5.0 x 28.0	11	3 x 5	1.00 x 36 x 4	. 11	9.8	6.1	3,2	300
SSP28-6.0-7		5.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11	18.4	13.2	9.2	408
SP30-4,0-7	28	6.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11,5	30	21.5	15	487
SP30-5.0-11	====	4,0 x 30,0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SP30-5.0-7	30	5.0 x 30.0	11	3 x 5	1.00 × 36 × 4	11	6,5	3.5	1.2	315
SP30-6,0-7	====	5.0 x 30.0	7	3 x 5	1,00 x 36 x 4	11	13.4	9,1	5.9	432
	36	6.0 x 30.0	7	3 x 5	1.00 × 36 × 4	11.5	27.5	19.9	14.1	512
SP30-6,0-3	30	6.0 x 30.0	3	3 x 5	1.00 x 36 x 4	12	34.3	25,3	18.5	645
SP35-5.0-7	35	5.0 x 35.0	7	3 x 5	1.00 × 35 × 4	- 11	7,2	3.7	1	491
SP35-6.0-7	35	6.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.5	15	9.5	5,3	584
SP35-6.0-3	35	6.0 × 35.0	3	3 x 5	1.00 × 36 × 4	12	19.7	13.2	3.2	739
SP39-6.0-7	39	6.0 x 39.0	7	3 x 5	1.00 x 36 x 4	11.5	9.2	4.3	0.6	642
SP39-6.0-3	39	6.0 x 39.0	3	3 × 5	1.00 y 36 x 4	1.2	13	7,4	3.1	814

FINISHES

Standard BRZ

Galvanized

K-KLAD

K-KLAD Over Galvanizing

Bronze

G Galvanized

K813 Bronze

KZ13 Bronze

BLK Black

K821 Black KZ21 Black Submitted by Leesman Sales



Job Name:

Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number:

SSP20-4.0-11-DM10-KIM AR KIM PS-P-CPL

Notes:

Type: PSS3

Page 3 of 4

LEE07-6119

KW Industries

GRY

GRN

KIM LIGHTING PS-P (Platinum Silver)

K841 Gray K891 Green KZ41

KZ91 Green

Gray

WHT White P Primed

Gray

Green

K881 K845

White Natural Aluminum

KZ81 White KZ45

Natural Aluminum

NA Natural Aluminum

1 YEAR WARRANTY

5 YEAR WARRANTY

10 YEAR WARRANTY

MOUNTING DESIGNATIONS

Tenon Mount

3

3,5

2 2 3/8 " x 4 " TENON 2 7/8 " x 4 " TENON

3 1/2 " x 6 " TENON

4" x 6" TENON

Drill Mount DM10 Drilled for 1 Luminaire DM2090 Drilled for 2 Luminaires @ 90°

DM2180 DM3090

Drilled for 2 Luminaires @ 1800 Drilled for 3 Luminaires @ 90º

DM4090

Drilled for 4 Luminaires @ 90°

Gain Mount

Open Mount

GMT4 attachment for CXA

OT Open Top

GMT9 attachment for CXASQ OTC Open Top includes Pole Cap

OPTIONS

There are numerous options that can be ordered. Please indicate these selections under the options column in the catalog number, Example: CPL-WPR2-BC.

Accessories BC

CPL

Base Cover Threaded Coupling*

NPL Threaded Nipple*

WPR2 Weatherproof Duplex Receptacle* 1 WPRP Festoon Opening**

Optional Handholes

58HH 5" x 8" Handhole*

410HH 4" x 10" Handhole^s

Extra Handholes

Extra Handhole*

Embedment Pole,Options

E Embedded Pole

GS Ground Sleeve CTE Coal Tar Epoxy

For Embedment Poles:

Recommended Mounting Height

Recommended Embedment Depth

Less than 20'

4 6'

Greater than 33'

7

Additional Simplex

15 1 @ 00

25 2 @ 180° ·

35 3 @ 90° ·

45 4 @ 900 . Greater embedment depths are available upon request, Embedment poles greater than 35' are not available.

^{*} Please advise size, location, and orientation. (Handholes are restricted by size of pole shaft diameter)



Catalog Number: PSM FACTORY INSTALLED IN FIXTURES ABOVE Notes: Type: **GTD**

LEE07-6119



PSM

P.O. Box 1769 • New Port Richey, FL 34656-1769 TOLL-FREE 888-900-7544 • FAX 727-848-0678 Order Entry / Customer Service • TOLL-FREE 800-480-4848 • FAX 662-349-0769 www.sidelite.com

POWER SWITCHING MODULE

FOR GENERATOR-SUPPLIED OR CENTRAL INVERTER-SUPPLIED SYSTEMS

Application

The Side-Lite Power Switching Module (PSM) works with a generator or central inverter system and a fluorescent fixture to provide emergency lighting regardless of fixture wall switch position (on/off). The PSM is used to bypass the fixture wall switch, permitting the generator or central inverter system to activate designated switchable fixtures. One PSM is



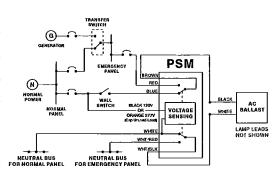
installed per fixture. The device may be used with a multi-ballast arrangement if the ballast current requirements do not exceed the maximum PSM load rating of 3 amps. The PSM consists of relay switching circuitry and fusing in one compact galvanized steel case and is designed for use in indoor and damp locations.

Operation

When normal power fails, the PSM immediately and automatically switches the AC input power connection to an unswitched generator-supplied or central inverter system-supplied lighting circuit, bringing on designated switchable lighting fixtures. Routine maintenance is not required, however, all life safety unit equipment should be checked periodically. Please note that a test switch is not provided with the PSM. The PSM is considered auxiliary lighting equipment under UL 924, and neither UL nor the NEC requires the use of a test switch with this type of equipment.

Installation

As with other Side-Lite unit equipment, the PSM does not affect normal fixture operation. It comes fully assembled and ready to install inside the fixture ballast channel. The PSM may be installed on top of the fixture by using the wire bundle covers, S-TWBC (sold separately). The PSM may be remotely located up to 50 feet, but this type of installation requires an enclosure and/or other hardware not included with the PSM. Contact your Side-Lite representative or the factory for details. In addition to available wiring, the PSM requires an unswitched, direct connection to a generator-supplied or central inverter system-supplied emergency panel and an unswitched source on the same branch circuit as the switched supply. Please see the diagram for more information.



UL Listed

The PSM has been approved by Underwriters Laboratories (UL 924) and is UL Listed for factory or field installation.





Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: PSM FACTORY INSTALLED IN FIXTURES ABOVE

Notes:

Type: **GTD**

LEE07-6119

PSM



POWER SWITCHING MODULE

FOR GENERATOR-SUPPLIED OR CENTRAL INVERTER-SUPPLIED SYSTEMS

P.O. Box 1769 • New Port Richey, FL 34656-1769 TOLL-FREE 888-900-7544 • FAX 727-848-0678 Order Entry / Customer Service • TOLL-FREE 800-480-1848 • FAX 662-349-0769 www.sidelite.com

Specification

The Side-Lite Power Switching Module (PSM) used in conjunction with a standard fluorescent fixture and an auxiliary generator or central inverter system shall provide emergency lighting. Should normal power fail, the module shall switch the AC input power connection to an unswitched generator-supplied or central inverter system-supplied lighting circuit, thereby allowing the generator or central inverter system to bring on designated switchable fixtures regardless of fixture wall switch position (on/off). The PSM shall consist of fusing and relay switching circuitry contained in one 8" x 1.18" x 1.18" galvanized steel case. The module shall have all inputs fused to 3 amps maximum; shall operate at 120 or 277 VAC; and shall draw 280 mA and 1.6 Watts during normal operation. The PSM shall be UL Listed for installation inside, on top of or remote from the fixture and shall comply with the current NEC. The module shall be warranted for five (5) full years from the date of purchase and shall be assembled in the USA.

Warranty

The PSM is warranted for five (5) full years from the date of purchase. The Side-Lite warranty covers only properly installed Power Switching Modules used under normal conditions from the date of purchase. For the full warranty period, Side-Lite will, at its option, repair or replace without charge a defective unit, provided it is returned to the factory transportation prepaid and our inspection determines it to be defective under terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the Side-Lite unit.

Product Summary

UL LISTED
Factory or Field
Installation

Full Warranty 5 Years (NOT pro-rata)

Dual Input Voltage 120/277 VAC, 60 IJz. Recommended Applications Auditoriums

Auditoriums
Classrooms
Other locations with
generator-supplied
(or central inverter

system-supplied) lighting

AC Input Current 280 mA AC Input Power Rating 1.6 Watts

Fusing
All inputs fused to 3 A
Maximum

Temperature Rating (Ambient) 0°C to +50°C 32°F to 122°F Dimensions

8" x 1.18" x 1.18" (204 mm x 30 mm x 30 mm) Mounting Center 7.60" (193 mm)

Weight 0.50 lbs. (0.23 kg)



Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: OMNI-DT2000-RP

Notes:

Type:

2000 SQ FT

LEE07-6119



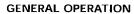
Building Automation, Inc.

OMNI-DT/OMNI-DT-RP (Option RP)

Dual Technology Ceiling Mount Sensor

KEY FEATURES

- · INTELLIGENT Continuously Adapting sensor.
- · Ultrasonic & Infrared Sensing
- · Simple, Fast Installation
- · Snap-Lock Sensor, Ceiling Mounting
- · Excellent false tripping immunity
- Non-Volatile Memory: settings saved in protected memory are not lost during power outages.
- · Optional Photocell Control and Relay
- 500 to 2000 sq. ft. mounted at 8'
- · Multiple Sensor and Power Pack Connections
- · 24VDC, Class 2 low voltage wiring
- · Designed & Manufactured in USA



Occupancy sensors have two tasks; keeping the lights on while the room is occupied and keeping the lights off when unoccupied. Hubbell Building Automation's intelligent, continuously adapting sensor technology eliminates manual sensitivity and timer adjustments during installation and over the life of the product. The self-adapting microprocessor constantly assures maintenance free "Install and Forget" operation.

The OMNI-DT is a ceiling mount occupancy sensor that combines both ultrasonic (US) and passive infrared (PIR) sensing. Hubbell Building Automation's self-adapting OMNI-DT addresses areas with complex environments that are difficult to control with single technology sensors. The internal microprocessor analyzes the information from both the US and PIR technologies and determines the optimum setting to use in order to properly cover the space. The automatic timer and automatic sensitivity features of the Omni-DT work independently to prevent "false-offs" and

The ÖMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.

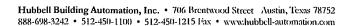


"false-ons." When the sensor detects motion immediately after it turns the lights out, a "false-off" is detected, timer and sensitivity are increased. If the sensor turns the lights on, but detects no immediate follow-up motion, "false-on" is detected, timer and sensitivity are decreased. The "Intelligent software" algorithm determines, for example, if the lights are staying on due to adjacent hallway traffic and responds by adapting its program to compensate for the false trigger and turns out the lights. The OMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.

In addition, the OMNI-DT has an optional photocell, which increases energy savings when engaged by preventing the lights from turning on when there is sufficient natural light. This feature is factory disabled and may be activated by the installer.

Designed specifically to meet the challenges found in rooms where tasks entail minor motion for long periods of time. Ultrasonic (doppler shift) motion detection gives maximum sensitivity yet can be vulnerable to false triggering from air conditioning currents, corridor activity and movement of inanimate objects. Infrared motion detection gives immunity to these false triggers, but lacks sensitivity at greater distances. Hubbell Building Automation's intelligent software reads the environment and adapts to meet these specific challenges. Should the room suddenly be reallocated into a copy room with high traffic patterns, the intelligent software will adapt as needed to provide the correct time out for the









Catalog Number: OMNI-DT2000-RP

Notes:

Type:

2000 SQ FT

LEE07-6119

lights. Using PIR sensing (high error immunity) with US (high sensitivity) provides good performance. Conventional ceiling mounted dual tech sensors use a simple formula for operation: BOTH for ON, EITHER for KEEP ON, This method requires that both sensors receive fixed-strength signals for ON or a single fixed-level signal for KEEP ON. The OMNI-DT uses a more sophisticated method called a composite signal where the signal strengths are added together to form a composite sum. The advantage of this method is that a weak PIR signal plus a strong US signal will turn the lights on because the sum is enough. The installer need not worry that the signal level be balanced for reliable lights on. This technology eliminates time consuming adjustments and callbacks found in non-intelligent sensors.

The sensor requires a 24V DC, MP Series power pack, The mounting base, provided with the sensor, allows quick and easy mounting.

ADAPTIVE FUNCTIONS

The OMNI constantly analyzes and adapts to changing conditions:

Period	Time	Action
Installation	60 minutes	Timer automatically resets from
		Test (8 seconds) to 8 minutes.
Learning	Four weeks	1.Response to Error
		Conditions:
		(false-ons, false offs)
		2 Air current adapation
		3. Timer optimization
		· 7

Ultrasonic sensitivity Infrared sensitivity Timer Air current threshold 1.24 hour occupancy periods

Post learning After Occupancy Four weeks Periods

(Circadian)

2. Weekly occupancy periods learned Adjustments Made:

learned (circadian)

Adjustments Made:

a. Generally occupied periods: Threshold+High Sensivity mode

b. Generally unoccupied periods: Threshold=Miser mode

SPECIFICATIONS

LED Lamp: Red Infrared motion, Green Ultrasonic

motion Construction:

Two ultrasonic transmitters and two narrow bandwidth receivers each 16mm in diameter. Frequency - Crystal controlled to ±.005%. Transducers — Oriented north and south (DT2000 only, others use single pairs), angled 30° down from horizontal.

Housing --- Rugged, high-impact, injection molded plastic KJB ABS Cyolac (UL-945VA) flame class rating, UV inhibitors.

Color-coded leads are 6".

4.5" dia., 1.5" height; 5 oz. (114 mm dia.,

38 mm height; 142 g.)

White. Color: Power

Size & Weight:

24 VDC, 33 mA Requirements:

(use MP-series power pack.) Timer Setting: Automatic - 8 min, to 32 min,;

test mode - 8 seconds Output: 24 VDC active high logic control signal

with short circuit protection and optional

dry contact (see -RP option).

Operating

Environment: 32°F to 104°F (0°C to 40°C); 0% to 95%

non-condensing, relative humidity.

For indoor use only.

RP Option: Relay and Photocell Included (both).

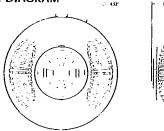
Relay: NO + NC contacts, 500ma rated @ 24vdc, three wire, isolated relay. Photocell, 0-1000 Lux adjustable.

Warranty: 5 years limited.

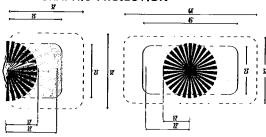
MODELS

Cat. No.	Color	Coverage	Application
OMNI-DT500	Off White	500 sq. ft.	Private Office
OMNI-DT500-RP	Off White	500 sq. ft.	Private Office
OMNI-DT1000	Off White	1000 sq. ft,	Open Office
OMNI-DT1000-RP	Off White	1000 sq. ft.	Open Office
OMNI-DT2000	Off White	2000 sq. ft.	Open Office
OMNI-DT2000-RP	Off White	2000 sq. ft.	Open Office

RANGE DIAGRAM



ORTHOGRAPHIC PROJECTION



DT-1000 Range Diagram DT-500 Range Pattern is not provided

DT-2000 Range Diagram





Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: OMNI-DT1000-RP

Notes:

Type:

1000 SQ FT

LEE07-6119



Building Automation, Inc.



Dual Technology Ceiling Mount Sensor

KEY FEATURES

- · INTELLIGENT Continuously Adapting sensor.
- · Ultrasonic & Infrared Sensing
- · Simple, Fast Installation
- · Snap-Lock Sensor, Ceiling Mounting
- · Excellent false tripping immunity
- Non-Volatile Memory: settings saved in protected memory are not lost during power outages.
- Optional Photocell Control and Relay
- 500 to 2000 sq. ft. mounted at 8'
- · Multiple Sensor and Power Pack Connections
- · 24VDC, Class 2 low voltage wiring
- · Designed & Manufactured in USA



Occupancy sensors have two tasks; keeping the lights on while the room is occupied and keeping the lights off when unoccupied. Hubbell Building Automation's intelligent, continuously adapting sensor technology eliminates manual sensitivity and timer adjustments during installation and over the life of the product. The self-adapting microprocessor constantly assures maintenance free "Install and Forget" operation.

The OMNI-DT is a ceiling mount occupancy sensor that combines both ultrasonic (US) and passive infrared (PIR) sensing. Hubbell Building Automation's self-adapting OMNI-DT addresses areas with complex environments that are difficult to control with single technology sensors. The internal microprocessor analyzes the information from both the US and PIR technologies and determines the optimum setting to use in order to properly cover the space. The automatic timer and automatic sensitivity features of the Omni-DT work independently to prevent "false-offs" and

The OMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.



"false-ons." When the sensor detects motion immediately after it turns the lights out, a "false-off" is detected, timer and sensitivity are increased. If the sensor turns the lights on, but detects no immediate follow-up motion, "false-on" is detected, timer and sensitivity are decreased. The "Intelligent software" algorithm determines, for example, if the lights are staying on due to adjacent hallway traffic and responds by adapting its program to compensate for the false trigger and turns out the lights. The OMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.

In addition, the OMNI-DT has an optional photocell, which increases energy savings when engaged by preventing the lights from turning on when there is sufficient natural light. This feature is factory disabled and may be activated by the installer.

Designed specifically to meet the challenges found in rooms where tasks entail minor motion for long periods of time. Ultrasonic (doppler shift) motion detection gives maximum sensitivity yet can be vulnerable to false triggering from air conditioning currents, corridor activity and movement of inanimate objects. Infrared motion detection gives immunity to these false triggers, but lacks sensitivity at greater distances. Hubbell Building Automation's intelligent software reads the environment and adapts to meet these specific challenges. Should the room suddenly be reallocated into a copy room with high traffic patterns, the intelligent software will adapt as needed to provide the correct time out for the



Hubbell Building Automation, Inc. • 706 Brentwood Street Austin, Texas 78752 888-698-3242 • 512-450-1100 • 512-450-1215 Fax • www.hubbell-automation.com





Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: OMNI-DT1000-RP

Notes:

Type:

1000 SQ FT

LEE07-6119

lights. Using PIR sensing (high error immunity) with US (high sensitivity) provides good performance. Conventional ceiling mounted dual tech sensors use a simple formula for operation: BOTH for ON, EITHER for KEEP ON. This method requires that both sensors receive fixed-strength signals for ON or a single fixed-level signal for KEEP ON. The OMNI-DT uses a more sophisticated method called a composite signal where the signal strengths are added together to form a composite sum. The advantage of this method is that a weak PIR signal plus a strong US signal will turn the lights on because the sum is enough. The installer need not worry that the signal level be balanced for reliable lights on. This technology eliminates time consuming adjustments and callbacks found in non-intelligent sensors.

The sensor requires a 24V DC, MP Series power pack, The mounting base, provided with the sensor, allows quick and easy mounting.

ADAPTIVE FUNCTIONS

The OMNI constantly analyzes and adapts to changing conditions:

Period	Time	Action
Installation	60 minutes	Timer automatically resets from
		Test (8 seconds) to 8 minutes,
Learning	Four weeks	1.Response to Error
•		Conditions:
		(false-ons, false offs)
		2. Air current adapation
		3. Timer optimization
		Adjustments Made:

Infrared sensitivity Timer Air current threshold Post learning After 1.24 hour occupancy periods Occupancy Four weeks learned (circadian) Periods

learned Adjustments Made: a. Generally occupied periods: Threshold+High Sensivity

2 Weekly occupancy periods

Ultrasonic sensitivity

b. Generally unoccupied periods:

Threshold=Miser mode

SPECIFICATIONS

LED Lamp:

(Circadian)

Red Infrared motion, Green Ultrasonic

Construction:

Two ultrasonic transmitters and two narrow bandwidth receivers each 16mm in diameter. Frequency — Crystal controlled to ±.005%. Transducers — Oriented north and south (DT2000 only, others use single pairs), angled 30° down from horizontal. Housing — Rugged, high-impact, injection

molded plastic KJB ABS Cyolac (UL-945VA)

flame class rating, UV inhibitors. Color-coded leads are 6".

4.5" dia., 1.5" height; 5 oz. (114 mm dia., Size & Weight:

38 mm height; 142 g.) White.

Color: Power

Requirements:

24 VDC, 33 mA

(use MP-series power pack.)

Timer Setting: Automatic - 8 min, to 32 min.;

test mode - 8 seconds

24 VDC active high logic control signal with short circuit protection and optional

dry contact (see -RP option).

Operating **Environment:**

Output:

32°F to 104°F (0°C to 40°C); 0% to 95%

non-condensing, relative humidity.

For indoor use only.

RP Option:

Relay and Photocell Included (both). Relay: NO + NC contacts, 500ma rated @ 24vdc, three wire, isolated relay, Photocell, 0-1000 Lux adjustable.

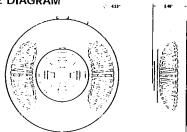
Warranty:

5 years limited.

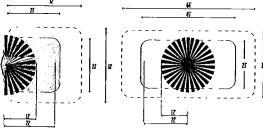
MOI	DELS

Cat, No.	Color	Coverage	Application
OMNI-DT500	Off White	500 sq. ft.	Private Office
OMNI-DT500-RP	Off White	500 sq. ft.	Private Office
OMNI-DT1000	Off White	1000 sq. ft.	Open Office
OMNI-DT1000-RP	Off White	1000 sq. ft.	Open Office
OMNI-DT2000	Off White	2000 sq. ft.	Open Office
OMNI-DT2000-RP	Off White	2000 sq. ft.	Open Office

RANGE DIAGRAM



ORTHOGRAPHIC PROJECTION



DT-1000 Range Diagram DT-500 Range Pattern is not provided

DT-2000 Range Diagram







Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase Catalog Number: OMNI-DT500-RP

Notes:

Type:

500 SQ ST

LEE07-6119



Building Automation, Inc.



Dual Technology Ceiling Mount Sensor

KEY FEATURES

- · INTELLIGENT Continuously Adapting sensor.
- · Ultrasonic & Infrared Sensing
- · Simple, Fast Installation
- Snap-Lock Sensor, Ceiling Mounting
- · Excellent false tripping immunity
- Non-Volatile Memory: settings saved in protected memory are not lost during power outages.
- Optional Photocell Control and Relay
- · 500 to 2000 sq. ft, mounted at 8'
- · Multiple Sensor and Power Pack Connections
- · 24VDC, Class 2 low voltage wiring
- · Designed & Manufactured in USA



Occupancy sensors have two tasks; keeping the lights on while the room is occupied and keeping the lights off when unoccupied. Hubbell Building Automation's intelligent, continuously adapting sensor technology eliminates manual sensitivity and timer adjustments during installation and over the life of the product. The self-adapting microprocessor constantly assures maintenance free "Install and Forget" operation.

The OMNI-DT is a ceiling mount occupancy sensor that combines both ultrasonic (US) and passive infrared (PIR) sensing. Hubbell Building Automation's self-adapting OMNI-DT addresses areas with complex environments that are difficult to control with single technology sensors. The internal microprocessor analyzes the information from both the US and PIR technologies and determines the optimum setting to use in order to properly cover the space. The automatic timer and automatic sensitivity features of the Omni-DT work independently to prevent "false-offs" and

The OMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.

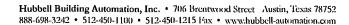


"false-ons." When the sensor detects motion immediately after it turns the lights out, a "false-off" is detected, timer and sensitivity are increased. If the sensor turns the lights on, but detects no immediate follow-up motion, "false-on" is detected, timer and sensitivity are decreased. The "Intelligent software" algorithm determines, for example, if the lights are staying on due to adjacent hallway traffic and responds by adapting its program to compensate for the false trigger and turns out the lights. The OMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.

In addition, the OMNI-DT has an optional photocell, which increases energy savings when engaged by preventing the lights from turning on when there is sufficient natural light. This feature is factory disabled and may be activated by the installer.

Designed specifically to meet the challenges found in rooms where tasks entail minor motion for long periods of time. Ultrasonic (doppler shift) motion detection gives maximum sensitivity yet can be vulnerable to false triggering from air conditioning currents, corridor activity and movement of inanimate objects. Infrared motion detection gives immunity to these false triggers, but lacks sensitivity at greater distances. Hubbell Building Automation's intelligent software reads the environment and adapts to meet these specific challenges. Should the room suddenly be reallocated into a copy room with high traffic patterns, the intelligent software will adapt as needed to provide the correct time out for the









Cincinnati Public Schools - Roselawn Condon FDL Beacon Purchase

Catalog Number: OMNI-DT500-RP

Notes:

Type:

500 SQ ST

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lights. Using PIR sensing (high error immunity) with US (high sensitivity) provides good performance. Conventional ceiling mounted dual tech sensors use a simple formula for operation: BOTH for ON, EITHER for KEEP ON. This method requires that both sensors receive fixed-strength signals for ON or a single fixed-level signal for KEEP ON. The OMNI-DT uses a more sophisticated method called a composite signal where the signal strengths are added together to form a composite sum. The advantage of this method is that a weak PIR signal plus a strong US signal will turn the lights on because the sum is enough. The installer need not worry that the signal level be balanced for reliable lights on. This technology eliminates time consuming adjustments and callbacks found in non-intelligent sensors.

The sensor requires a 24V DC, MP Series power pack. The mounting base, provided with the sensor, allows quick and easy mounting.

ADAPTIVE FUNCTIONS

The OMNI constantly analyzes and adapts to changing conditions:

Period	Time	Action
Installation	60 minutes	Timer automatically resets from
		Test (8 seconds) to 8 minutes.
Learning	Four weeks	1.Response to Error Conditions: (false-ons, false offs) 2 Air current adaptation
		3. Timer optimization
		Adjustments Made

Post learning After Occupancy Four weeks Periods (Circadian)

Air current threshold 1.24 hour occupancy periods learned (circadian) 2 Weekly occupancy periods

Ultrasonic sensitivity Infrared sensitivity

learned

Adjustments Made: a. Generally occupied periods: Threshold+High Sensivity mode

b. Generally unoccupied periods: Threshold=Miser mode

SPECIFICATIONS

LED Lamp:

Red Infrared motion, Green Ultrasonic

Construction:

Two ultrasonic transmitters and two narrow bandwidth receivers each 16mm in diameter, Frequency — Crystal controlled to ±.005%, Transducers — Oriented north and south (DT2000 only, others use single pairs), angled 30° down from horizontal. Housing - Rugged, high-impact, injection

molded plastic KJB ABS Cyolac (UL-945VA)

flame class rating, UV inhibitors. Color-coded leads are 6",

Size & Weight: 4.5" dia., 1.5" height; 5 oz. (114 mm dia.,

38 mm height; 142 g.) White.

Color: Power

Requirements: 24 VDC, 33 mA

(use MP-series power pack.)

Timer Setting: Automatic - 8 min. to 32 min.;

test mode - 8 seconds

24 VDC active high logic control signal Output:

with short circuit protection and optional

dry contact (see -RP option).

Operating

Environment: 32°F to 104°F (0°C to 40°C); 0% to 95%

non-condensing, relative humidity.

For indoor use only.

RP Option: Relay and Photocell Included (both).

Relay: NO + NC contacts, 500ma rated @ 24vdc, three wire, isolated relay. Photocell, 0-1000 Lux adjustable.

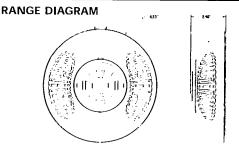
2000 sq. ft.

Open Office

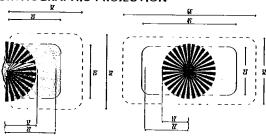
Warranty: 5 years limited.

OMNI-DT2000-RP Off White

MODELS			
Cat. No.	Color	Coverage	Application
OMNI-DT500	Off White	500 sq. ft.	Private Office
OMNI-DT500-RP	Off White	500 sq. ft.	Private Office
OMNI-DT1000	Off White	1000 sq. ft.	Open Office
OMNI-DT1000-RP	Off White	1000 sq. ft.	Open Office
OMNI-DT2000	Off White	2000 sq. ft.	Open Office



ORTHOGRAPHIC PROJECTION



DT-1000 Range Diagram DT-500 Range Pattern is not provided

DT-2000 Range Diagram





Catalog Number: MP277A

Notes:

Type:

POWER PACK

LEE07-6119



Networked Lighting Control System

Power Packs and Relays

MP Power Pack "A" Series

KEY FEATURES

- · Plenum rated
- Self-contained transformer & relay
- 120, 230, 277 and 347 VAC models available
- Regulated 24 VDC current, 100 mA output
- · Easily mounts inside or outside junction box
- Optional Quick To Install (QTI) connector
- · Companion auxiliary relay device available
- UL and cUL listed
- · Five-year warranty



MP277-A



MPSA

OVERVIEW

Hubbell Building Automation power switch packs provide both the 24 VDC power supply to operate sensors as well as the 20 Amp line voltage relay to control the load in one compact housing. The MP power packs mount in the knockout hole of a junction box. The unit can be placed outside or inside the junction box with a simple twist-on nut. The MP power packs can also be used to supply power to up to three sensors. They can also be used to supply power to the MPSA auxiliary relay for multiple circuits.

FEATURES and BENEFITS

Features	Benefits		
Plenum rated	 Complies with requirements for use in a compartment handling conditioned air (plenum) 		
Self-contained trahsformer & relay	No need for separate transformers and relay devices		
Optional Quick To Install (QTI) connector wire	 Dramatically reduces installation costs by removing the time consuming process of manually wiring sensor to power pack Easy to install, fast and efficient – no cutting, stripping, or 		
	nuts required to install		

APPLICATIONS

- Offices
- Small conference rooms
- · Break rooms

Hubbell Building Automation, Inc. 960 Dessau Road Building One Suite 100 Austin, Texas 78754 (512) 450-1100 (512) 450-1215 fax www hubbell-automation com



Catalog Number: MP277A

Notes:

Type:

POWER PACK

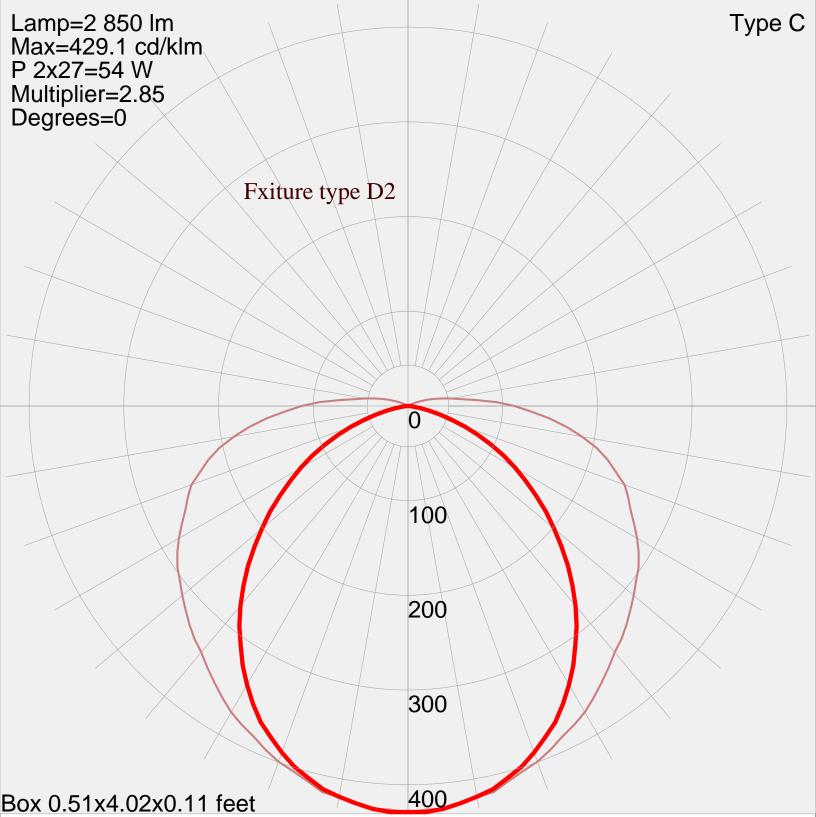
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Construction	 High impact, UL rated 94-5V plastic. 						
Refay	Class B (130°C) insulating material.						
	Silver alloy contacts.						
Transformer	 Class II 120, 230, 277, or 347 VAC primary (must specify) 						
Output	24 VDC, 100 mA nominal, full-wave rectified and filtered.						
	(Each HBA sensor contains an internal voltage regulator.)						
Relay Contact Rating	• 20 A — I20/230/277 V Ballast						
	 I5 A — 347 V Ballast 						
	 13 A — 120 V Incandescent 						
Wire	• 7" leads 18 AWG input, 7" leads 16 AWG contacts						
Plenum Rated:	 "Complies with requirements for use in a compartment handling conditioned air (plenum)" 						
Power Requirements	 120, 230, 277 or 347 VAC (depending upon model number) @ 60Hz. 						
Total Wire Length	22 AWG 750' 375' 250' 375' 250' 250'						
	22 AWG 750' 375' 250' 375' 250' 250'						
	20 AWG 1200' 600' 400' 600' 400' 400'						
Operating environment	Indoor use only						
	 Operating temperature: 32°- 104°F (0° to 40°C) 						
	0% to 95% relative humidity, non-condensing						
Size & Weight	• 3.69" l x 2.33" w x 1.36" h, 15 oz.						
	(93 mm \times 59 mm \times 35 mm, 400g.)						
	Weight: 5.0 oz (142g)						
Color	Black						
Certifications	UL and cUL Listed						
Warranty	• 5 years						

HOW TO ONDER			
Model#	Power Input	Control Input	Output
MP120A	120 VAC, 60Hz	24 VDC, 5 mA	24 VDC, 100 mA
MP230A	230 VAC, 50 & 60Hz	24 VDC, 5 mA	24 VDC, 100 mA
→ MP277A	277 VAC, 60Hz	24 VDC, 5 mA	24 VDC, 100 mA
MP347A	347 VAC, 60Hz	24 VDC, 5 mA	24 VDC, 100 mA
MPSA (Auxiliary Slave Device	N/A / 24 VDC. 5 mA	N/A	

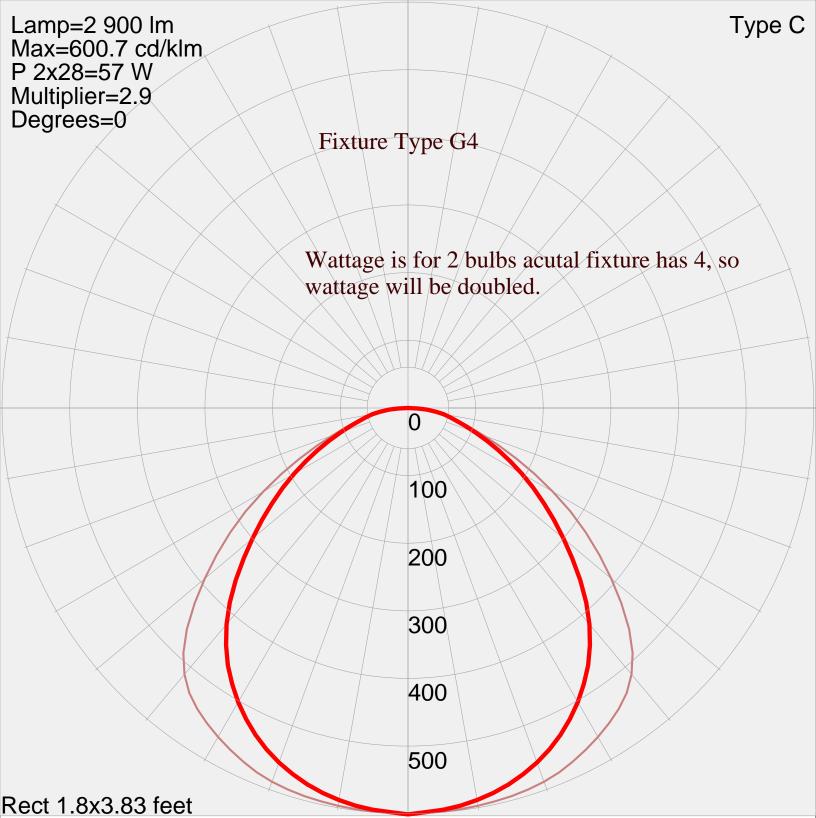


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Manufacturer: LUMINAIRE LIGHTING CORP.

Luminaire catalog: VPF84-232 Luminaire: EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL Lamp: TWO PHILIPS F32T8/TL741/ALTO RATED AT 2850 LUMENS EACH.

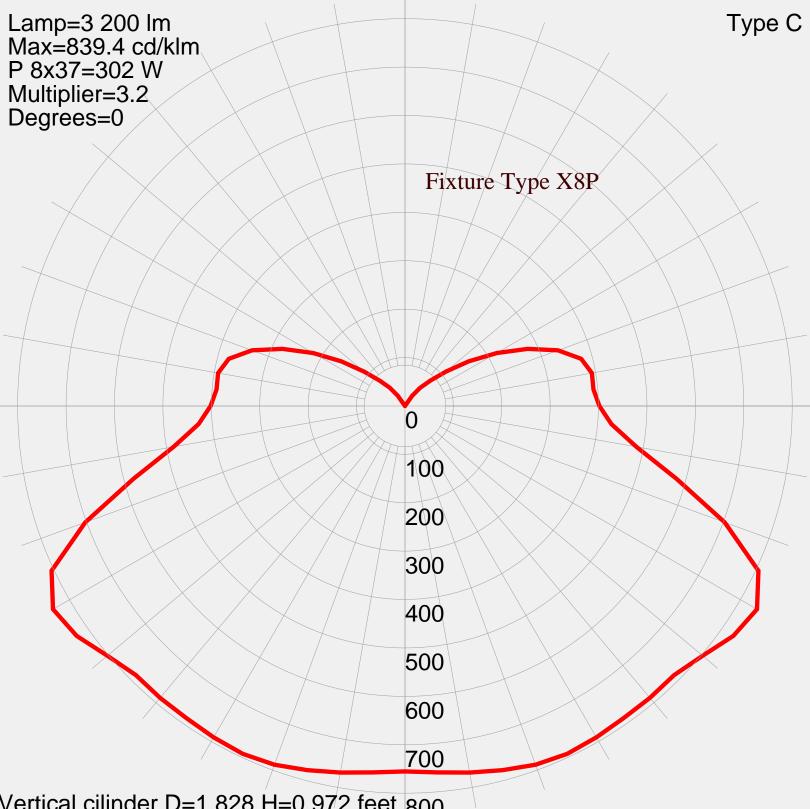


Manufacturer: COLUMBIA LIGHTING

Luminaire catalog: WT24-232G-FSA12-EB8-PAF

Luminaire: WT Lensed Troffer

Lamp catalog: F32T8

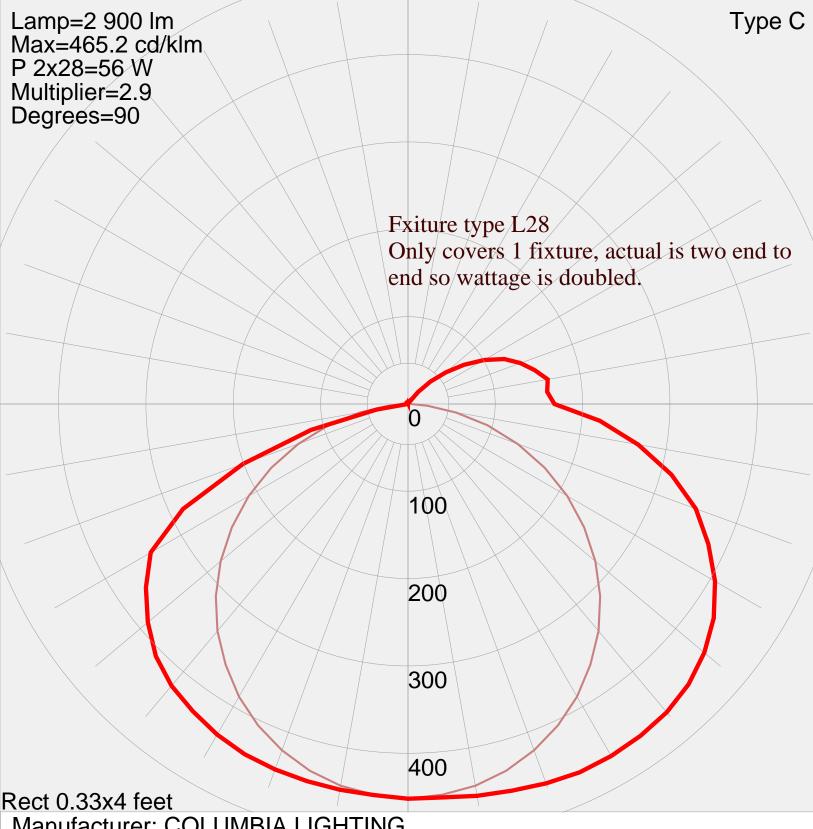


Vertical cilinder D=1.828 H=0.972 feet 800

Manufacturer: Hubbell Lighting, Inc., Christiansburg, VA 24073-2500

Luminaire catalog: SWF842A-x Luminaire: SUPERWATT FLUORESCENT

Lamp catalog: PL-T42W/41/4P-ALTO
Lamp: 42 WATT TRIPLE TUBE COMPACT FLUORESCENT



Manufacturer: COLUMBIA LIGHTING

Luminaire catalog: CS4-232-E-CSRA4-PAF

Luminaire: CS Striplight Lamp catalog: F32T8