

Legal Department

April 3, 2017

Chairman Asim Z. Haque Public Utilities Commission of Ohio 180 East Broad Street Columbus, OH 43215-3793

Re: In the Matter of the Application of) Select Comfort Retail Corp.) and Ohio Power Company) for Approval of a Special Arrangement) Agreement with a Mercantile Customer)

Case No. 17-0486-EL-EEC

Dear Chairman Haque,

Attached please find the Joint Application of Ohio Power Company (AEP Ohio) and the above-referenced mercantile customer for approval of a Special Arrangement of the commitment of energy efficiency/peak demand reduction (EE/PDR) resources toward compliance with the statutory benchmarks for 2017 (hereinafter "Joint Application").

Amended Substitute Senate Bill 221, codified at R.C. 4928.66, sets forth EE/PDR benchmarks that electric distribution utilities are required to meet or exceed. The statute allows utilities to include EE/PDR resources committed by mercantile customers for integration into the utilities' programs to be counted toward compliance with a utility's EE/PDR benchmarks. The statute also enables the Commission to approve special arrangements for mercantile customers that commit EE/PDR resources to be counted toward compliance with EE/PDR benchmarks.

The Commission's Order in Case No. 10-834-EL-EEC established a streamlined process to expedite review of these special arrangements by developing a sample application process for parties to follow for consideration of such programs implemented during the prior three calendar years. The attached Joint Application and affidavit conforms with AEP Ohio's version of the streamlined sample application. As requested by Commission Staff, any confidential information referenced in the Joint Application has been provided confidentially to Commission Staff for filing in Commission Docket 10-1599-EL-EEC and subject to the confidentially protections of R.C. 4901.16 and OAC 4901-1-24(E). AEP Ohio respectfully requests that the Commission treat the two cases as associated dockets and that any confidential information provided to Staff for filing in connection with the Joint Application be subject to the protective order requested in Docket 10-1599-EL-EEC.

Cordially,

/s/ Ryan Aguiar Rvan Aguiar

Attachments

Ryan Aguiar

Fellow **Regulatory Services** (614) 716-2931 (T) (614) 716-2950 (F) Ecmiller1@aep.com



Case No.: 17-0486-**EL-EEC**

Mercantile Customer: SELECT COMFORT RETAIL CORP

Electric Utility: Ohio Power

Program Title or Description: AEP Ohio Business Incentives for Energy Efficiency: Self Direct Program

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. <u>10-834-EL-POR</u>

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at <u>ee-pdr@puc.state.oh.us</u>.

Section 1: Company Information

Name: SELECT COMFORT RETAIL CORP

Principal address: 301 Plainfield Rd. Suite 310, Syracuse, Ny 13212

Address of facility for which this energy efficiency program applies: 3960 Stelzer Rd, Columbus, Oh 43219-3046

Name and telephone number for responses to questions:

Linda Andrews, Select Comfort Retail Corp, (855) 926-7543

Electricity use by the customer (check the box(es) that apply):

The customer uses more than seven hundred thousand kilowatt hours per year at our facility. (Please attach documentation.)

See <u>Confidential and Proprietary Attachment 4 – Calculation of Rider</u> <u>Exemption and UCT</u> which provides the facility consumption for the last three years, benchmark kWh, and the last 12 months usage.

The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.) When checked, see <u>Attachment 6 – Supporting Documentation for a listing of the customer's</u> <u>name and service addresses of other accounts in the AEP Ohio service</u> <u>territory.</u>

Section 2: Application Information

- A) The customer is filing this application (choose which applies):
 - Individually, on our own.
 - Jointly with our electric utility.
- B) Our electric utility is: Ohio Power Company

The application to participate in the electric utility energy efficiency program is "Confidential and Proprietary Attachment 3 – Self Direct Program Project Completed Application."

C) The customer is offering to commit (choose which applies):

Energy savings from our energy efficiency program. (Complete Sections 3, 5, 6, and 7.)

- Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- Both the energy savings and the demand reduction from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

- A) The customer's energy efficiency program involves (choose whichever applies):
 - \square Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, 11/20/2015 and the date on which the customer would have replaced your equipment if you had not replaced it early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)).

The remaining life of the equipment varies and is not known with certainty. The future replacement date is unknown and has historically been at the end of equipment life. Replacement was completed early to achieve energy savings and to reduce future maintenance costs.

Installation of new equipment to replace equipment that needed to be replaced. The customer installed new equipment on the following date(s):

Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):

Behavioral or operational improvement.

- B) Energy savings achieved/to be achieved by your energy efficiency program:
 - If you checked the box indicating that your project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) – (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Unit Quantity (watts) = Existing (watts x units) – Installed (watts x units)

kWh Reduction (Annual Savings) = Unit Quantity x (Deemed kWh/Unit)

Annual savings: 13,945 kWh

See <u>Confidential and Proprietary Attachment 5 – Self Direct Program</u> <u>Project Calculation</u> for annual energy savings calculations and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed. If you checked the box indicating that you installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: kWh

Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.

 If you checked the box indicating that your project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: kWh

Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.

4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

Section 4: Demand Reduction/Demand Response Programs

- A) The customer's program involves (check the one that applies):
 - Coincident peak-demand savings from the customer's energy efficiency program.
 - Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
 - Potential peak-demand reduction check the one that applies):
 - > Choose one or more of the following that applies:
 - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
 - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
- B) On what date did the customer initiate its demand reduction program?

The coincident peak-demand savings are permanent installations that reduce demand through energy efficiency and were installed on the date specified in Section 3 A above.

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

Unit Quantity (watts) = Existing (watts x units) – Installed (watts x units)

KW Demand Reduction = Unit Quantity (watts) x (Deemed KW/Unit (watts))

4.2 kW

See <u>Confidential and Proprietary Attachment 5 – Self Direct Program Project</u> <u>Calculation</u> for peak demand reduction calculation, and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

- A) The customer is applying for:
 - Option 1: A cash rebate reasonable arrangement.

OR

Option 2: An exemption from the cost recovery mechanism implemented by the electric utility.

OR

Commitment payment

- B) The value of the option that the customer is are seeking is:
 - Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
 - A cash rebate of \$_____. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)
 - OR
 - A cash rebate valued at no more than 50% of the total project cost, which is equal to \$ 873.36. (Attach documentation and calculations showing how this payment amount was determined.)

See <u>Confidential and Proprietary Attachment 5 – Self Direct</u> <u>Program Project Calculation</u> for incentive calculations for this mercantile program.

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for _____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

A commitment payment valued at no more than \$_____. (Attach documentation and calculations showing how this payment amount was determined.)

OR

Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of an ongoing efficiency program that is practiced by our organization. (Attach documentation that establishes your organization's ongoing efficiency program. In order to continue the exemption beyond the initial 24 month period your organization will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

- Total Resource Cost (TRC) Test. The calculated TRC value is: _____ (Continue to Subsection 1, then skip Subsection 2)
- Utility Cost Test (UCT) . The calculated UCT value is: 5.50 (Skip to Subsection 2.)

Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The utility's incremental measure costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were \$ 5,264.35

The utility's program costs were \$ 83.67

The utility's incentive costs/rebate costs were \$ 873.36.

Section 7: Additional Information

Please attach the following supporting documentation to this application:

• Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment.

See <u>Attachment 1 - Self Direct Project Overview and Commitment</u> for a description of the project. See <u>Attachment 6 - Supporting Documentation</u>, for the specifications of the replacement equipment <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed. Due to the length of time since the equipment replacement, the make, model and year of the replaced equipment is not available.

- A copy of the formal declaration or agreement that commits your program to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;

See <u>Attachment 2 – Self Direct Program Project Blank Application</u> including Rules and Requirements. All confidentially requirements are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and <u>Proprietary Attachment 3 – Self Direct Program Project Completed</u> <u>Application.</u>)

2) a description of any consequences of noncompliance with the terms of the commitment;

See <u>Attachment 2 – Self Direct Program Project Blank Application</u> including Rules and Requirements. All consequences of noncompliance are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as <u>Confidential and</u> <u>Proprietary Attachment 3 – Self Direct Program Project Completed</u> <u>Application</u>.

3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;

None required because the resources committed are permanent installations that reduce demand through increased efficiency during the Company's peak summer demand period generally defined as May through September and do not require specific coordination and communication to provide demand reduction capabilities to the Company. 4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,

See <u>Attachment 2 – Self Direct Program Blank Application</u> including Rules and Requirements granting such permission pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as <u>Confidential and Proprietary Attachment 3 – Self</u> <u>Direct Program Project Completed Application</u>.

5) a commitment by you to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.

See <u>Attachment 1 - Self Direct Project Overview and Commitment</u> for the commitment to comply with any information and compliance reporting requirements imposed by rule or as part of the approval of this arrangement by the Public Utilities Commission of Ohio.

• A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.

The Company applies the same methodologies, protocols, and practices to Self Direct Program retrospective projects that are screened and submitted for approval as it does to prospective projects submitted through its Prescriptive and Custom Programs. The Commission has not published a technical reference manual for use by the Company so deviations can not be identified. The project submitted is a prescriptive project and energy savings are determined as described in <u>Confidential and Proprietary Attachment 5 - Self Direct Program Project Calculation</u>, and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

Ohio Public Utilities Commission

Docket # 17-0486 **Application to Commit Energy Efficiency/Peak Demand Reduction Programs** (Mercantile Customers Only)

Project # 16-19565

Case No.: 17-0486-EL-EEC

State of Ohio :

Rizwan myd, Affiant, being duly sworn according to law, deposes and says that:

I am the duly authorized representative of: 1.

DNV GL Energy Services USA Inc. agent of Ohio Power

I have personally examined all the information contained in the foregoing application, 2. including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

Eheron Engineer

Signature of Affiant & Title

Sworn and subscribed before me this 16th day of March , 2017 Month/Year

Dawd G. Irving / Notary Print Name and Title

Signature of official administering oath

My commission expires on 9-3-2019





Attachment I Self Direct Project Overview & Commitment Page 1 of 1

Self Direct Project Overview & Commitment

The Public Utility Commission of Ohio (PUCO) will soon review your application for participation in AEP Ohio's Energy Efficiency/Peak Demand Response program. Based on your submitted project, please select by initialing one of the two options below, sign and fax to 877-607-0740.

Customer Name	SELECT COMFORT RETAIL CORP						
Project Number	AEP-16-19565						
Customer Premise Address	3960 STELZER RD, COLUMBUS, OH 43219-3046						
Customer Mailing Address	301 Plainfield Rd. Suite 310, Syracuse, NY 1321	2					
Date Received	10/31/2016						
Project Installation Date	11/20/2015						
Annual kWh Reduction	13,945						
Total Project Cost	\$17,091.23						
Unadjusted Energy Efficiency Credit (EEC) Calculation	S1,164,49						
Simple Payback (yrs)	11.4						
Utility Cost Test (UCT) for EEC	5.50						
Jtility Cost Test (UCT) for Exemption 0.14							
	Please Choos	e One Option Below and Initial					
Self Direct EEC: 75%	\$873.36 X Initial						
EE/PDR Rider Exemption	12 Months (with possible extension up to N/A months after PUCO Approval)	Initial: _N/A					

Note: This is a one time selection. By selecting EEC, the customer will receive payment in the amount stated above. Selection of EE/PDR rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO.

If EEC has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects?

_YES

NO Note: Exemptions for periods beyond 24 months are subject to look-back or true-up adjustments every year to ensure that the exemption accurately reflects the EEDR savings. Applicants must file for renewal for any exemption beyond 12 months,

Project Overview:

The Self Direct (Prescriptive and Custom) project that the above has completed and applied is as follows.

Replaced (42) 35W Halogen lamp with (42) 16W LED Replaced (39) 75W Halogen lamp with (39) 24W LED Replaced (7) 75W Halogen lamp with (7) 12W LED Replaced (4) 4-lamp, 4-foot T8 with (4) 88W LED

The documentation that was included with the application proved that the energy measures applied for were purchased and installed.

By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.

Ohio Power Company

Manager Title: 2/23/2017 Date

SELECT COMFORT RETAIL CORP



APPLICATION GUIDELINES

All 2016 AEP Ohio Business Incentives Program projects must be completed and Final Applications received no later than October 28, 2016, in order to qualify for incentives identified in this application.

Step 1: Verify Eligibility

- Customer must have a valid AEP Ohio account.
- Equipment/measure must be installed at facilities served by the AEP Ohio account.
- Project must produce permanent reduction in electrical energy use (kWh).
- All installed equipment must meet or exceed the specifications in the application.
- ✓ Please see the <u>Terms and Conditions</u> for Self-Direct or
- ✓ <u>Terms and Conditions</u> for all other programs for
- program eligibility and requirements.

Step 2: Complete Applicant Information

- All fields in customer and project information sections must be completed.
- Solution Provider/contractor information must be completed if project is not self-performed.

Step 3: Complete the Incentive Worksheet(s)

- ✓ Find and read specifications related to the project.
- Ensure new equipment/measure meets or exceeds the specifications.
- Choose the incentive category on the worksheet based on the installed equipment and specifications.
- Complete all fields (fixture description, operating hours, etc.) on the related worksheet.

Step 4: Sign Customer Agreement

- Read the Terms and Conditions before signing and submitting the application.
- Sign Pre-Approval Agreement and submit the application to reserve funds.
- Sign Final Application Agreement and submit the application after the project is completed.
- Complete Third Party Payment Release Authorization ONLY if incentive payment is to be paid to an entity other than AEP Ohio customer listed on the Applicant Information page.

Step 5: Submit Pre-Approval Application¹

- (For Self-Direct applications, skip to Step 7)
- Submitting a Pre-Approval Application to determine

qualification and reserve program funds for a project is strongly recommended.

- ✓ All custom measures require pre-approval.
- ✓ Complete all fields for Pre-Approval Agreement section.
- Pre-Approval Application must be submitted with:
 - Proposed scope of work (type and quantity of old and new equipment must be listed)
 - Specification sheets for all proposed equipment
 W-9 form
- Submit application via email, fax or mail.
- During the application review, an inspection may be required; the team will contact applicants requiring an inspection for scheduling.

Step 6: Complete Project

 New equipment must be installed and operational to submit a Final Application.

Step 7: Submit Final Application

- ✓ Submit a Final Application.
- Use the same application used during pre-approval (if applicable).
 - Change Application Type to Final Application
- Complete all fields for Final Application Agreement section.
- Update the application if there are any changes (customer contact, incentive measure, equipment, etc.).
- Final Application must be submitted with:
 Dated and itemized material invoice
 - External labor invoice (if applicable)
 - If Pre-Approval Application was not submitted, include the documents listed on Step 5
- Submit application via email, fax or mail.
- During the application review, an inspection may be required; the team will contact applicants requiring an inspection for scheduling.

Additional steps are required for Self-Direct applications after application submission. Please see the Self-Direct Terms and Conditions for details.

AEP Ohio Business Incentives Program 5777 Frantz Road, Dublin, OH 43017 Phone: (877) 607-0739 | Fax: (877) 607-0740 aepohioincentives@dnvgl.com Visit our website at AEPohio.com/solutions

¹A Pre-Approval Application is not a guarantee of an incentive; the actual incentive will be based on the energy savings and equipment installed as determined in the Final Application. Funds are reserved for 90 days, unless an applicant is granted an extension. The program team reserves the right to contact the customer before the reservation expiration date to ensure that the project is moving forward. If the project is not underway, the reservation may be cancelled. Reserved funds are not transferable to other projects, facilities and/or customers. A waiting list will be established when funds become fully subscribed.

Prescriptive, Custom & Self-Direct Program Application



CHECKLIST

PRE-APPROVAL APPLICATION	FINAL APPLICATION					
 Required Attachments Completed Applicant Information form Completed Incentives Requested section of Application form Signed Customer Agreement form Equipment specifications Proposed scope of work (required on Custom projects and recommended for all projects) W-9 (required for LLC, individual, partnership, property management companies) 	 Required Attachments Completed Applicant Information form Completed and signed Final Payment Agreement and Customer Agreement forms Completed Third-Party Payment Release Authorization section (optional) Itemized invoices Equipment specifications¹ Updated scope of work¹ W-9¹ (required for LLC, individual, partnership, property management companies) 					
Applicable Incentive Worksheets Please complete worksheets for checked boxes. Lighting HVAC Motors & Drives Compressed Air Refrigeration/Food Service Agriculture & Miscellaneous Transformer UPS Custom	Incentive Worksheets Please complete worksheets for checked boxes. Lighting HVAC Motors & Drives Compressed Air Refrigeration/Food Service Agriculture & Miscellaneous Transformer UPS Custom					
Application date Estimated incremental project cost Expected completion date	Application date Final incremental project cost Final completion date					
Incomplete applications will delay processing and reservation of funds.	Incomplete applications will delay processing and incentive payment. ¹ If submitted with a pre-application, required only if project changed.					

Revised Submittal

Please complete below if this is a revised submittal.

Submittal date_

AEP Project Number (if known) AEP - _ _ - _ _ _ _

AEP Ohio Business Incentives Program

5777 Frantz Road, Dublin, OH 43017 Phone: (877) 607-0739 | Fax: (877) 607-0740 aepohioincentives@dnvgl.com Visit our website at AEPohio.com/solutions



APPLICANT INFORMATION

AEP Application Number AEP - _ _ - _ _ _

Application Type (Select One)

Customer Information		
Business Name		
Name as It Appears on Utility Bill		
AEP Ohio Account Number* at Project Site	_ Multiple AEP Ohio Account Numb	ers for this Project? (Select O
Taxpayer ID W-9 Tax Sta	atus (Select One)	
Contact Name	Contact Title	
Mailing Address - where check will be sent		
Mailing Address	City	_State ^{OH} Zip
Phone Ext	Contact Email	
How Did You Hear About the Program? (Select One)	AEP OH Energy Advis	sor
Project Information		
Project Name (if applicable)		
Check if mailing address and project site address are the sar	ne.	
Project Site Address	City	_State OH Zip
Building Type (Select One)	Shift (Sele	ct One)
Annual Operating Hours	Building Area (sq. ft.)	
Construction Type (Select One)		
Does the facility have a data center? (Select One)		

*Please only enter the first eleven digits of the account number.



APPLICANT INFORMATION

Solution Provider/Contractor Information (If project is not self-performed by customer)

Contracting Company Name					
Contact Name		Title of Cor			
Mailing Address		City		_ State OH	Zip
Phone	Ext	_ Contact Email			
Who should we contact with questions at	oout the application?	Customer	Contractor		
Primary Contact Information	l				
Contact Name		Title of Co	ontact		
Phone	Ext	_ Contact Email			

INCENTIVE SUMMARY TABLE (THIS TABLE SELF-POPULATES FROM WORKSHEETS)

Incentive Category	Applied for Incentives	Applicable Self- Direct Incentives
Lighting		
HVAC		
Motors		
Motor Rewind		
Drives		
Compressed Air		
Refrigeration/Food Service		
Agriculture		
Miscellaneous		
Custom		
NC Lighting (SD Only)		
Total		

AEP Application Number AEP - _ _ - _ _ _



CUSTOMER AGREEMENT

Pre-Approval Agreement

By signing this document, I agree to program requirements outlined in the measure specifications, Terms and Conditions, and Final Application Agreement. As an eligible customer, I verify the information is correct and request consideration for participation under this program. Furthermore, I concur that I meet all eligibility criteria in order to receive payment under this program. Link to Prescriptive/Custom Terms and Conditions and Final Application Agreement.

Estimated Completion Date	Estimated Project Cost
Total Incentive Requested ¹	Date
AEP Ohio Customer Signature	Print Name

Final Application Agreement

By signing this document, I agree to program requirements outlined in the measure specifications, Terms and Conditions for the applicable program and Final Application Agreement. As an eligible customer, I verify the information is correct and request consideration for participation under this program. Furthermore, I concur that I meet all eligibility criteria in order to receive payment under this program.

Link to Prescriptive/Custom Terms and Conditions, and Final Application Agreement Link to Self-Direct Terms and Conditions, and Final Application Agreement

Project Completion Year (Select One)	Self-Direct
Project Completion Date	Total Project Cost \$ 0.00
Date	Total Applied for Incentive
Total Requested Incentive ¹	Total Self-Direct Requested Incentive ²

Print Name

AEP Ohio Customer Signature





¹Incentives are capped at 50% of the project cost and total incentives are capped at \$25,000.

²Self-Direct incentives are 75% of Total Requested Incentive, after 50% of the project cost cap and tiering is applied.

AEP Application Number AEP - _ _ - _ _ _



THIRD PARTY PAYMENT

Third Party Payment Release Authorization (Optional, NOT APPLICABLE TO Self-Direct)

Complete this section ONLY if incentive payment is to be paid to an entity other than the AEP Ohio customer.

Make checks payable to: Company/Individual _____

Mailing Address ______ State OH Zip_____

Phone _____ Ext. _____

Taxpayer ID of 3rd Party _____ - ____ W-9 Tax Status

By signing this document, I authorize the payment of the incentive to the third party named above and understand that I will not receive the incentive payment from AEP Ohio. I also understand that my release of the payment to a third party does not exempt me from the program requirements outlined in the measure specifications, Terms and Conditions, and Final Application Agreement.

Print Name

Date

Customer Signature (AEP Ohio Customer)

800 TO 4000 LUMEN 4" LED

PARABOLIC LENSED APERTURE

DOWNLIGHT

Energy Star

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- Lumen packages comparable to 26W, 32W, 42W CFL and 2x26W CFL with energy savings up to 35%
- Superior-quality white LED light output using Chip on Board technology
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

PRODUCT SPECIFICATIONS

Optics

Reflector/Lens: Computer-optimized parabolic reflector with frosted convexed lens regressed into cone provides uniform distribution with no striations • Concealed LED array provides superior aesthetic appeal both on and off

Finishes: Low iridescent specular, semi-specular and satin Alzak® finishes available
with integral flange of same finish • See reflector options for other colors and finishes
Baffle: White or black painted deep multi-groove aluminum baffle insert with integral
white painted flange and frosted convexed alass lens

Electrical

LED Light Engine: Compact light source delivers uniform illumination without pixilation, enabling excellent beam control • Consistent fixture-to-fixture color temperature within 3 SDCM • Replaceable PC board with quick connector mounts directly to heat sink • CRI> 80 standard, 90 & 97 CRI available, see options for compatibility • Light engine mounts directly to heat sink and is easily replaceable • Cast aluminum heat sink integrated directly with housing provides superior thermal management to ensure the long life of LED

LED Driver: Power factor >0.9 • Easily replaceable from above or below the ceiling • Dimmable via 0-10V protocol, increasing efficiency up to 30% while dimming • For a list of compatible dimmers, see LED-DIM. Life: Rated for 60,000 hours at 70% lumen maintenance • Available with optional Lumen Depreciation Indicator (LDI)

Emergency Battery Pack (Optional) output: Provides a minimum of 600 (BR), or 1100 (HBR) lumens for a minimum duration of 90 minutes

Mechanical

Housing: Low profile, universal housing design installs in suspended grid, plaster or drywall • Integral cast aluminum heat sink conducts heat away from LED light engine • Driver accessible from above and below ceiling and can be upgraded to accommodate future technology improvements.

Mounting Frame: Heavy gauge steel lower housing ring accommodates ceilings up to 2" thick . For thicker ceilings; consult factory

Mounting Bracket: Mounting brackets have 3" vertical adjustment and accepts most commercial bar hangers, including our proprietary Tru-Lock bar hangers • Our one-piece Tru-Lock bar hangers have integral T-bar locking screws and alignment notches for locating and locking fixture in the center or 1/4 tile increments Junction Box: Over size 4" x 6" galvanized steel junction box with (6) 1/2" (2) 3/4" knockouts facilitate quick

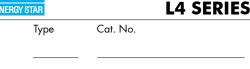
wiring • Junction box rated for four (4) No. 12 AWG 90° C branch circuit conductors (2-in, 2-out)

Labels and Listings

• UL and cUL listed for feed through and damp locations • RoHS compliant • UL spacing requirement for 4000 lumen: minimum of 4' between fixture centers, 3" overhead clearance, 2' from fixture center to side wall • EMI complies with FCC 47, Part 15, Class A • ENERGY STAR® Qualified, see back page for designated products • I.B.E.W. Union made • ARRA Compliant

Warranty: 5 years when used in accordance with manufacturing guidelines. Product specifications subject to change without notice.

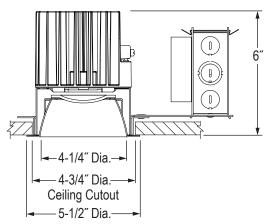
BEAM S	SPREAD
TRIM	DEGREE
L400P-CL	65°
L400P-CQ	65°
L400P-CS	70°
L400B-B	76º

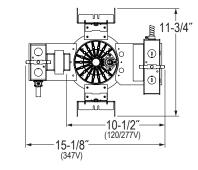


Project:	
Notes:	

APPROVED

DIMENSIONS





Example: L4-1335U-G3-LDI	Example: L400P-CQ-WH Example: HB-TL
ROUGH-IN LIGHT ENGINE LUMENS CCT VOLTAGE GENERATION OPTIONS L4 \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare 08 00 Im 270 \blacksquare	CONE COLOR FINISH OPTIONS ACCESSORIES CONE COLOR FINISH OPTIONS CONE COLOR FINISH CONE COLOR
13 300 1	Cone G S Satin Flange HB-28 28° C-Chanel Bar Hangers, Pair L400B Vot *Q Semi-Specular WET Wheat (*Clear only) Wet Location PT Blank for White & Baffle Baffle BZ Bronze B B
28 ◆ FDL Forward Phase Dimming Lutron Driver - 120V only (2-wire dimming, neutral wire required) 33 required) 3300 lm LDI Lumen Depreciation Indicator (Cannot be used w/ BR or HBR options) 400 FD Phase Cut Dimming, Forward and Reverse, (800-4000 lumen only) - 120V only	Black W White
 Only 800, 1300 & 1500 lumen fixtures are universal voltage (120/277V) Not Available for 4000 lumens Not Available for 347V or CP 6/16 Rev.3 	Juno Lieutinos Group Madilystants annur Madilystants annur Www.junolightinggroup.com

Project # 16-19565 Docket # 17-0486

J7.1.3G3 800 TO 4000 LUMEN 4" LED DOWNLIGHT PARABOLIC LENSED APERTURE L4 SERIES

ENGINEERING DATA: 347 Volt available, consult factory																
VOLTAGE		$/ \gamma$		12	20							2	77			
LIGHT ENGINE LUMENS	800	1300	1500	1700	2300	2800	3300	4000	800	1300	1500	1700	2300	2800	3300	4000
ССТ			2700K/3000K/3500K/4000K						2700K/3000K/3500K/4000K							
INPUT CURRENT	0.064	0.102	0.12	0.134	0.184	0.233	0.273	0.356	0.032	0.05	0.058	0.064	0.087	0.105	0.127	0.16
INPUT WATTAGE	7.7W	12.2W	14.4W	16.1W	22.1W	27.8W	32.6W	43.0W	8.2W	12.5W	14.6W	16.3W	22.3W	27.5W	33.0W	42.3W
INPUT FREQUENCY	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
THD%	6.67	4.30	4.01	3.68	5.59	5.70	4.16	3.93	11.15	10.45	10.99	11.11	10.06	8.38	8.48	7.98
POWER FACTOR	0.991	0.993	0.993	0.995	0.994	0.995	0.997	0.998	0.915	0.889	0.903	0.911	0.921	0.942	0.935	0.955

					DELIVE	ERED LUM	ENS/LUMEN	IS PER WA	TT (4K 80C	RI)						
	L4-0840U L4-1340U L4-1540U L4-17401 L4-23401 L4-28401 L4-33401 L4-40401										0401					
TRIM	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
L400P-CL	648	86.4	1063	85.1	1229	84.7	1378	74.9	1821	75.6	2191	73.5	2518	72.8	3056	68.1
L400P-CQ	602	80.3	989	79.1	1142	78.8	1281	69.6	1693	70.3	2037	68.4	2341	67.7	2841	63.3
L400P-CS	607	80.9	996	79.7	1151	79.3	1291	70.2	1706	70.8	2052	68.9	2358	68.2	2862	63.7

ENERGY S	TAR® Qualified								
	PRODUCT#	FIXTURE CONFIGURATIO	FIXTURE CONFIGURATIONS = ENERGY STAR						
Energy ENERGY STAR	Universal Voltage (120V-277V), 80 CRI L4-(XX)(YY)U-G3 ▲ L400P-(CC)(F)	CCT: YY = 2							
Energy ENERGY STAR	120V/277V, 80 CRI L4-(XX)(YY)(Z)-G3 ▲ L400P-(CC)(F)								

A PD and FDL options are not ENERGY STAR[®] Certified.

* Indicated lumen packages are not ENERGY STAR® Certified with -DMX or -DALI options when used with 277 volts.



BEAM SPREAD

DEGREE

66

63

72

72

TRIM

1600P-0

L600P-CQ

L600P-CS L600B-B

Energy Star

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- Lumen packages suitable for ceiling heights ranging from 8 ' to in excess of 100 '
- Efficacies up to 87 lm/w
- Superior-guality white LED light output using Chip on Board technology
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

PRODUCT SPECIFICATIONS

Optics

Cone/Lens: Computer-optimized parabolic reflector with frosted convexed lens regressed into cone provides uniform distribution with no striations • Concealed LED array provides superior aesthetic appeal both on and off

Finishes: Low iridescent specular, semi-specular and satin Alzak® finishes available
with integral flange of same finish • See reflector options for other colors and finishes
Baffle: White or black painted deep multi-groove aluminum baffle insert with integral

white painted flange and frosted convexed glass lens

Electrical

LED Light Engine: Compact light source delivers uniform illumination without pixilation, enabling excellent beam control • Consistent fixture-to-fixture color temperature within 3 SDCM • Replaceable light engine with quick connector mounts directly to heat sink and is easily replaceable • CRI> 80 standard, 90 & 97 CRI available, see options for compatibility

Passive Cooling: Cast aluminum heat sink integrated directly with housing provides superior thermal management to ensure the long life of LED

LED Driver: Power factor >0.9 • Easily replaceable from above or below the ceiling

Dimming: Dimmable via 0-10V protocol standard • Optional drivers available for use with Lutron EcoSystem, 2-wire dimmers DMX, or DALI • For a list of compatible dimmers, see <u>LED-DIM</u>.

Life: Rated for 60,000 hours at 70% lumen maintenance • Available with optional Lumen Depreciation Indicator (LDI)

Emergency Battery Pack (Optional) output: Provides a minimum of 600 (BR), or 1100 (HBR) lumens for a minimum duration of 90 minutes

Mechanical

Housing: Low profile, universal housing design installs in suspended grid, plaster or drywall • Integral heat sink conducts heat away from LED light engine • Driver is accessible from above and below ceiling and can be upgraded to accommodate future technology improvements.

Mounting Frame: Heavy gauge steel lower housing ring accommodates ceilings up to 2" thick • For thicker ceilings; consult factory

Mounting Bracket: Mounting brackets have 3'' vertical adjustment and accepts most commercial bar hangers, including our proprietary Tru-Lock bar hangers • Our one-piece Tru-Lock bar hangers have integral T-bar locking screws and alignment notches for locating and locking fixture in the center or 1/4'' tile increments **Junction Box:** Over size $4'' \times 6''$ galvanized steel junction box with (6) $\frac{1}{2}''(2) \frac{3}{4}''$ knockouts facilitate quick

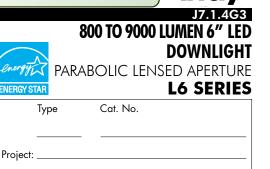
wiring • Junction box rated for four (4) No. 12 AWG 90° C branch circuit conductors (2-in, 2-out)

Labels and Listings

UL and cUL listed for feed through and damp locations • RoHS compliant • UL spacing requirement for 4000 lumen and above: minimum of 4' between fixture centers, 3" overhead clearance, 2' from fixture center to side wall • EMI complies with FCC 47, Part 15, Class A • ENERGY STAR® Qualified, see back page for designated products • I.B.E.W. Union made • ARRA Compliant

Warranty: 5 years when used in accordance with manufacturing guidelines. Product specifications subject to change without notice.

ORDERING INFORMATION: Rough-in, reflector and accessories each ordered separately. L6-40352-G3-LDI HB-TL L600P-PTS-WH Example: Example: Example: LIGHT ENGINE LUMENS ROUGH-IN сст VOLTAGE GENERATION OPTIONS CONE COLOR FINISH OPTIONS ACCESSORIES L6|= G3 **27** 2700 08 800 lm ∎U Universa G3 90 90 CRI C Clear Low Iridescent Alzak Finishes: HB-TL 25" Tru-Lock grid ceiling bar hangers, Pair L600P WH White 13 1300 lm 97 97 CRI (2700 & 3000 CCT only) HB-52 52" C-Channel Bar Hangers, Pair L Specular 1 Flange 15 1500 lm 30 Fuse and Fuse Holder G s E Satin HB-28 28" C-Channel Bar Hangers, Pair CP Gold WET LB-27 27" Linear Bar Hangers, Pair SCA6-* Sloped Ceiling adapter 17 1700 lm Chicaao Plenum ***Q** Semi-Specular **35** 3500 2 L600B WT Wheat Wet BR ergency Battery Pack w/ Remote Test Switch 23 2300 lm 277V (*Clear only) Location + HBR High Lumen Emergency Battery Pack 28 2800 lm **40** 4000 Blank for White & Listina * Angle must be specified when ordering; PT 347V w/ Remote Test Switch 33 3300 lm Available in 5°, 10°, 15°, 20°, 25°, 30° Baffle Pewter + PD Driver compatible with 3-wire fluorescent 40 4000 lm Example: SCA6-20 ΒZ controls & Lutron Programmable Dimming Bronze 45 4500 lm EcoSystem[®] 50 5000 lm + FDL Forward Phase Dimmina Lutron Driver -В Black 55 5500 lm 120V only (2-wire dimming, neutral wire required) **W** White LDI 60 6000 lm Lumen Depreciation Indicator (Cannot be used w/ BR or HBR options) 65 6500 lm FD Phase Cut Dimming, Forward and Reverse 70 7000 lm (800-4000 lumen only) - 120V only **75** 7500 lm DMX DMX/RDM Driver 80 8000 lm DALI DALI Dimming Driver 85 8500 lm NL nLight Dimming Pack Controls (0-10V only) 90 9000 lm ible with CP opti 1300 South Wolf Rd • Des Plaines, Illinois 60018 Only 800, 1300, 1500 & 1700 lumen fixtures are universal PHONE 800-367-5866 • FAX 888-708-6578 voltage (120/277V) Not Available for 4000 Lumens and up JUNO LIGHTING GROUP 6/16 Rev.2 www.junolightinggroup.com + Not Available for 347V or CP

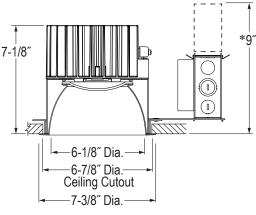


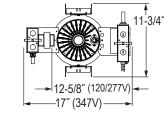


Notes:

APPROVED

*6000 - 9000 Lumens





Project # 16-19565 Docket # 17-0486

J7.1.4G3 800 TO 9000 LUMEN 6" LED DOWNLIGHT PARABOLIC LENSED APERTURE L6 SERIES

					\frown													
ENGINEERING DATA: 347	' Volt availa	ble, consult f	actory	/														
VOLTAGE				/					1	20								
LIGHT ENGINE LUMENS	800	1300	1500	1700	2300	2800	3300	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
ССТ								2700)K/ <mark>3000K</mark>	/3500K/4	000K							
INPUT CURRENT	0.064	0.102	0.12	0.151	0.202	0.250	0.290	0.375	0.358	0.383	0.426	0.457	0.501	0.553	0.604	0.645	0.694	0.769
INPUT WATTAGE	7.7W	12.2W	14.4W	18.1 <mark>W</mark>	24.1W	2 <mark>9.8W</mark>	34.6W	45.0W	42.3W	45.3W	50.4W	54.7W	59.9W	66.2W	72.2W	77.1W	82.9W	92.0W
INPUT FREQUENCY	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
THD%	6.67	4.30	4.01	3.68	5.59	5.70	4.16	3.93	14.00	13.26	14.48	4.61	4.66	3.97	4.24	3.81	3.74	3.53
POWER FACTOR	0.991	0.993	0.993	0.995	0.994	0.995	0.997	0.998	0.996	0.996	0.996	0.996	0.996	0.997	0.996	0.996	0.996	0.996
VOLTAGE					\bigcirc				2	77								
LIGHT ENGINE LUMENS	800	1300	1500	1700	2300	2800	3300	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
ССТ								2700)K/3000K	/3500K/4	000K							
INPUT CURRENT	0.032	0.050	0.058	0.073	0.095	0.113	0.135	0.168	0.177	0.192	0.204	0.220	0.222	0.251	0.288	0.306	0.334	0.345
INPUT WATTAGE	8.2W	12.5W	14.6W	18.3W	24.3W	29.5W	35.0W	44.3W	42.8W	45.9W	50.8W	54.8W	61.1W	63.4W	72.7W	77.0W	83.7W	88.9W
INPUT FREQUENCY	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
THD%	11.15	10.45	10.99	11.11	10.06	8.38	8.48	7.98	21.91	19.95	21.30	22.02	23.02	21.97	20.07	19.57	17.10	14.74
POWER FACTOR	0.915	0.889	0.903	0.911	0.921	0.942	0.935	0.955	0.874	0.864	0.898	0.900	0.994	0.910	0.912	0.908	0.904	0.906

						DEL	IVERED LU	MENS/LU	MENS PER	WATT (4)	(80CRI)							
	L6-08	340U	L6-1	340U	L6-15	540U	L6-1	7401	L6-23	3401	L6-2	8401	L6-3	3401	L6-40	0401	L6-4	5401
TRIM	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
L600P-CL	657	87.7	1079	86.3	1247	86.0	1399	76.0	1848	76.7	2223	74.6	2555	73.9	3101	69.1	3497	84.3
L600P-CQ	633	84.5	1040	83.2	1201	82.8	1348	73.2	1781	73.9	2142	71.9	2462	71.2	2988	66.5	3381	81.5
L600P-CS	576	76.8	945	75.6	1092	75.3	1225	66.6	1619	67.2	1947	65.3	2238	64.7	2716	60.5	3140	75.7
	L6-5	0401	L6-5	5401	L6-6	0401	L6-6	5401	L6-7(0401	L6-7	5401	L6-8	0401	L6-8	5401	L6-9	0401
TRIM	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
L600P-CL	3806	83.1	4254	81.2	4386	80.3	4807	81.3	5268	79.3	5571	77.7	5834	76.9	6216	75.5	6585	72.0
L600P-CQ	3680	80.4	4113	78.5	4240	77.7	4648	78.6	5094	76.7	5386	75.1	5641	74.3	6010	73.0	6367	69.6
L600P-CS	3418	74.6	3820	72.9	3939	72.1	4317	73.0	4731	71.3	5003	69.8	5240	69.0	5583	67.8	5914	64.6

ENERGY STAR® Qualified

	PRODUCT#	FIXTURE CONFIGU	JRATIONS = ENERGY STAR
Energy STAR	Universal Voltage (120V-277V), 80 CRI L6-(XX)(YY)U-G3 L600P-(CC)(F)	Lumen Package: CCT: Voltage: CRI: Reflector Color: Reflector Finish:	$\begin{array}{l} XX = 08^*, 13^*, 15, 17\\ YY = 27, 30, 35, 40\\ Universal Voltage (120V-277V)\\ 80\\ CC = C\\ F = L, S, Q \end{array}$
- Energy ENERGY STAR	120V/277V, 80 CRI L6-(XX)(YY)(Z)-G3 ▲ L600P-(CC)(F)	Lumen Package: CCT: Voltage: CRI: Reflector Color: Reflector Finish:	$\begin{array}{l} XX = 23, 28, 33, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90\\ YY = 27, 30, 35, 40\\ Z = 1, 2\\ 80\\ CC = C\\ F = L, S, Q \end{array}$

A PD and FDL options are not ENERGY STAR® Certified.

* Indicated lumen packages are not ENERGY STAR® Certified with -DMX or -DALI options when used with 277 volts.



DLC Listed



LS8™ LED Surface Ambient Luminaire – 8'

Product Description

LS Series

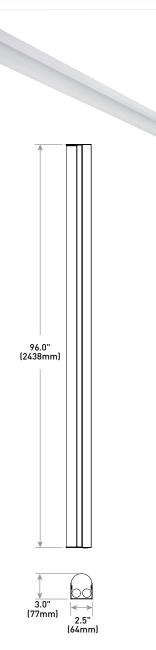
The LS8™ surface ambient luminaire delivers up to 100 lumens per watt of Cree TrueWhite® Technology 90+ CRI illumination. The 8' (2438mm) luminaire is available with up to 10,000 lumens in 3500K, 4000K and 5000K color temperatures. The LS Series features sleek and compact architectural design with flexible lumen packages, color temperatures and standard 0-10V dimming. Flexible mounting of the LS Series allows for individual mount or continuous row applications for surface mount, suspended mount, pendant mount and cove installations. Applications: Surface ambient applications for new construction and upgrade

Performance Summary

Utilizes Cree TrueWhite® Technology
Delivered Light Output: 8,000-10,000 lumens
Input Power: 88-100 watts
Efficacy: 89-100 LPW
CRI: 90+ CRI
CCT: 3500K, 4000K, 5000K
Input Voltage: 120-277, 347 VAC, 60Hz
Limited Warranty*: 10 years on luminaire
Dimensions: L 96.0" (2438mm) x W 2.5" (64mm) x H 3.0" (77mm)
Weight: 10 lbs. [4.5kg]
Dimming: 0–10V dimming to 5%*
¹ See http://lighting.cree.com/warranty for warranty terms * Reference http://lighting.cree.com/worducts/indoor/surface-ambient/Ls-series for recommended wiring dimming controls and wiring diagrams

Reflectors & Accessories

Field-Installed		
Reflectors - Refer to reflector spec sheet Solid LS8-SR - Pair of reflectors Apertured LS8-AR - Pair of reflectors Joint Aligner LS-RJ - Top housing aligner for continous rows LS-RFLJ - Reflector aligner for continous row	Adjustable Cable Support Kits for T-Bar Applications AC5-48-Q14B-TB - Includes 5.0" (127mm) Canopy, 48.0" (1219mm) Adjustable Cable, Q14B Gripper and T-Bar Clip Continuous Row Through Wiring Kit LS8TWK - Includes (3) #12AWG 102.0" (2591mm) Wires for Line (black), Neutral (white), Ground (green), (2) #18AWG 102.0" (2591mm) Wires for 0–10V dimming [purple, gray] and (10) Wire Nuts	Adjustable Cable Support Kits w/ Power Feeds AC5-12/3-48-0148-JB - Non-dimming applications - Includes 5.0" (127mm) Cable Canopy, 48" (1219mm) #12/3 SJT Cord,014B Gripper and J-Box Strap AC5-18/5-48-014B-JB - Dimming applications - Includes 5.0" (127mm) Cable Canopy, 48.0" (1219mm) #18/5 SJT Cord, 014B Gripper and J-Box Strap AC5-18/2-48-014B-JB - For use with AC5-12/3-48-014B-JB for selective luminaire dimming control in row mounted luminaires - Includes 5.0" (127mm) Cable Canopy, 48.0" (1219mm) #18/2 SVT Cord, 014B Gripper and I-Box Strap



Ordering Information

Example: LS8-80L-35K-10	V				
LS8			10V		
Product	Initial Delivered Lumens	ССТ	Control	Voltage	Options
L58	80L 88W, 8000 Jamens - 91 LPW (120-277V) 90W, 8000 lumens - 89 LPW (347V) 100L 100W, 10000 lumens - 100 LPW	35K 3500K (40K) 4000K) 50K 5000K	(10V°) (0-10V dimming to 5%)	Blank (120-277 Volt) 34 347 Volts -Available with 80L only	EB14Emergency Backup - Minimum 90 minutes - 1400 lumens - 120-277V only - Available in US only





Rev. Date: V3 07/28/2016



US: lighting.cree.com/lighting

T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada

APPROVED D1.3.38A

TRAC-MASTER®

Avant Garde **16W CONIX® II LED** T261LG2

PERFORMANCE DATA':

DLC Listed

Catalog Number	Voltage	Input Watts (Typical)	Lumens	Efficacy (LPW)	Rated Life (Hours)
T261LG2-27S	120V	15.8	933	59	50,000
T261LG2-27N	120V	15.8	934	59	50,000
T261 LG2-27 F	120V	15.8	924	59	50,000
T261LG2-27W	120V	15.8	890	56	50,000
T261LG2-35	1201	15.8	1036	66	50,000
T261LG2-3N	120V	15.8	1038	66	50,000
T261LG2-3F	120V	15.8	1027	65	50,000
T261LG2-3W	120V	15.8	989	63	50,000
T261LG2-3HCS	120V	15.8	881	56	50,000
T261LG2-3HCN	120V	15.8	882	56	50,000
T261LG2-3HCF	120V	15.8	873	55	50,000
T261LG2-3HCW	120V	15.8	841	53	50,000
T261 LG2-355	120V	15.8	1057	67	50,000
T261LG2-35N	120V	15.8	1058	67	50,000
T261 LG2-35F	120V	15.8	1048	66	50,000
T261 LG2-35W	120V	15.8	1009	64	50,000
T261LG2-4S	120V	15.8	1078	68	50,000
T261LG2-4N	120V	15.8	1079	68	50,000
T261LG2-4F	120V	15.8	1068	68	50,000
T261LG2-4W	120V	15.8	1029	65	50,000

ELECTRICAL DATA Input Voltage 120V Input Current (max.) 0.15A **Power Factor** >0.90

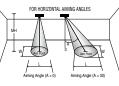
T.H.D.

<20%

¹Performance data, including Rated Life, is based on measurements of an individual fixture operating in a 25°C ambient.

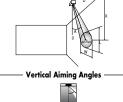
CBCP · Centerbeam candlepower FC · Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°, 1.732 for 60°).





Horizontal Aiming Angles $\left| \right\rangle$



0° 30° 45° 30° 60° Beam Beam Rated Life CBCP MH FC W FC W FC W W D W lamr Spread Type 50000 14 12446 346 5.2 489 6 225 3 173 3.2 1.5 3.0 6 3.5 2.0 1.7 2.7 2.7 194 2.0 2.0 97 6.9 2.0 275 126 8 126 23 4 42 4.0 20 14 8 4.6 23 Conix II 16W 10 124 2.5 2.5 81 3.4 2.9 5 62 8.7 5.3 2.5 176 5.0 2.5 1.8 10 81 5.8 3.4 2.9 LED, 3000K 12 86 3.0 3.0 56 4.0 43 10.4 3.0 122 3.1 12 56 6.9 3.5 6 6.3 6.0 2.1 4.0 3.5 Spot 41 12.1 7.4 90 41 8 4.7 3.5 4.7 32 14 4.1 14 63 4.1 26 50000 4728 2.5 3.7 Ν 4 296 1.8 2.7 1.8 2.7 192 2.5 3.7 21 2 148 3.5 4.3 1.8 2.7 418 2.0 19 4 192 2.3 3.5 21 131 85 52 29 19 85 6 31 3 66 6.5 186 3.0 6 31 Conix II 16W 8 74 3.6 3.6 48 4.9 4.2 4 37 6.9 8.6 3.6 104 4.0 3.8 2.6 8 48 4.6 4.9 42 LED, 3000K 6.2 10 47 4.5 4.5 31 5.2 5 24 8.7 10.8 4.5 67 5.0 4.8 3.2 10 31 5.8 6.2 5.2 Narrow Flood 33 5.5 16 10.4 12.9 46 6.0 57 3.9 12 6.9 7.4 6.3 7.4 6.3 40° 50000 2153 135 29 40 269 47 761 10 155 17 30 4 29 87 3.3 17 14 16 3 2.5 3.6 3.6 56 67 3.5 94 2.9 20 87 2.3 5 86 5.0 2 190 3.3 20 4 40 3.3 41 Conix II 16W 6 60 4.3 4.3 39 6.0 5.0 3 30 5.2 14.1 4.3 85 3.0 4.9 3.0 5 56 2.9 5.0 41 LED, 3000K 7 44 5.0 5.0 29 7.0 5.8 4 17 6.9 18.7 5.7 48 4.0 6.6 4.1 6 39 3.5 6.0 5.0 Flood 34 57 57 8.0 66 87 23.4 30 5.0 82 29 40 70 W **48**° 50000 1388 347 1.8 1.8 174 1.2 1.7 2 225 2.1 8.9 1.8 491 2 225 2.5 2.5 1.7 2.2 2.1 2.7 77 2.7 3 1.54 2.7 100 3.8 31 1.5 26 13.3 218 1.5 3.3 1.9 3 100 3.8 3.1 Conix II 16W 4 87 3.6 3.6 56 5.1 4.1 2.0 43 3.5 17.7 3.6 123 2.0 4.5 2.5 4 56 2.3 5.1 41 LED, 3000K 5 56 4.5 4.5 36 6.4 5.2 2.5 28 4.3 22.2 4.5 79 2.5 5.6 3.2 5 36 2.9 6.4 5.2 Wide Flood 19 * * 55 3.0

For 2700K fixtures, use 0.90 multiplier; for 3000HC fixtures, use 0.85 multiplier; for 3500K fixtures, use 1.02 multiplier; for 4000K fixtures, use 1.04 multiplier.

30

25 7.6 6.2 30

**Due to steep aiming angle, length of beam extends beyond 25'.

25 3 5

67



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Summary: Application Select Comfort Retail Corp. and Ohio Power Company for approval of a special arrangement agreement with a mercantile customer electronically filed by Mr. Ryan F. M. Aguiar on behalf of Ohio Power Company