

Legal Department

July 7, 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 Speedway Superamerica LLC and Ohio Power Company for Approval of a Special Arrangement Agreement with a Mercantile Customer

Case No. 17-0785-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,

<u>/s/ Ryan Aguiar</u> Ryan Aguiar

Attachments

Ryan Aguiar Counsel Regulatory Services (614) 716-2931 (T) (614) 716-2950 raquiar@aep.com



Application to Commit **Energy Efficiency/Peak Demand** Reduction Programs (Mercantile Customers Only)

Case No.: 17-0785-EL-EEC

Mercantile Customer: SPEEDWAY SUPERAMERICA LLC

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. 10-834-EL-POR

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>.

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Section 1: Company Information

Name: SPEEDWAY SUPERAMERICA LLC

Principal address: 500 Speedway Drive, Enon, Oh 45323

Address of facility for which this energy efficiency program applies: 296 County Road 410, South Point, Oh 45680-7901

Name and telephone number for responses to questions:

Walker Lowell, Speedway Superamerica Llc, (937) 863-6070

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.)
	\boxtimes Both the energy savings and the demand reduction from the customer's

energy efficiency program. (Complete all sections of the Application.)

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Section 3: Energy Efficiency Programs

A) The customer's energy efficiency program involves (choose whichever applies):

Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced 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)).

- 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): 10/31/2014

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:

Annual savings: kWh

2) 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.

3) 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:

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

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

Annual savings: 6,202 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.

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

The less efficient new equipment is the minimum required by Ohio State code or Federal Standard whichever is more stringent. For those measures where no code applies the baseline equipment is assumed to be the least efficient equipment available in the marketplace or standard practice, whichever results in the most conservative annual savings. Any information available describing the less efficient new equipment option is provided in <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures.

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 (choose which 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))

1.7 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 seeking is:
 - Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
 - A cash rebate of \$ 385.65. (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.)

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: 5.40 (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 \$ 2,285.27

The utility's program costs were \$ 37.21

The utility's incentive costs/rebate costs were \$ 385.65.

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

Project # 17-20241 Docket # 17-0785 **Application to Commit Energy Efficiency/Peak Demand Reduction Programs** (Mercantile Customers Only)

Case No.: 17-0785-EL-EEC

State of Ohio :

2. (EKAR IVER, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

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.

ENGINEER

Signature of Affiant & Title

Sworn and subscribed before me this	17th day of	April ,	2017	Month/Year

Signature of official administering oath

DAWN G. Irving Notary Print Name and Title

My commission expires on 9-3-2019



Published April 13, 2017

NO



Attachment 1 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	SPEEDWAY SUPERAMERICA LLC				
Project Number	AEP-17-20241				
Customer Premise Address	296 COUNTY ROAD 410, SOUTH POINT, OH 45680-7901				
Customer Mailing Address	500 Speedway Drive, Enon, OH 45323				
Date Received	2/24/2017				
Project Installation Date	10/31/2014				
Annual kWh Reduction	6,202				
Total Project Cost	\$4,366.84				
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$514.20				
Simple Payback (vrs)	10.1				
Utility Cost Test (UCT) for EEC	5,40				
Utility Cost Test (UCT) for Exemption	0.05				
	Please Choos	e One Option Below and Initial			
Self Direct EEC: 75%	\$385.65	Initial: WL			
EE/PDR Rider Exemption	12 Months (with possible extension up to N/A months after PUCO Approval)				

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?

V YES 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.

As part of the remodel of an existing store, energy efficient reduced wattage T8 and LED lighting were installed in the interior spaces. The project installed interior lighting fixtures whose performances are better than ASHARE 90.1-2007 minimum requirement.In **

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

will Manager Title:

3/23/2017 Date:

SPEEDWAY SUPERAMERICA LLC

By: Walker full Title: Material Coordinator 3 23 2017 Date:



APPLICATION GUIDELINES

All 2017 AEP Ohio Business Incentives Program projects must be completed and Final Applications received no later than November 10, 2017, 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 Process Efficiency 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 445 Hutchinson Avenue, Suite 300 Columbus, Ohio 43235 877-541-3048 | aepohiosolutions@clearesult.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.



CHECKLIST OF REQUIRED ATTACHMENTS

PRE-APPROVAL

- Completed Applicant Information Form
- Estimated Total Project Cost
- Estimated Completion Date
- Completed Incentives Requested Section of Application
- □ Applicable Incentive Worksheets
- Completed Third-Party Payment Release Authorization Section with W9 (optional)
- □ Signed Customer Agreement Form
- Equipment Speci ications
- □ Proposed Scope of Work
- □ W-9 (Customer's W-9 or 3rd party W-9, if applicable)

FINAL APPLICATION ONLY (NO PRE APP SUBMITTED)

- Completed Applicant Information Form
- Completed Incentives Requested Section of Application
- □ Applicable Incentive Worksheets
- Total Project Cost
- Completion date
- Completed and Signed Final Payment Agreement and Customer Agreement Forms
- Completed Third-Party Payment Release Authorization Section with W9 (optional))
- □ Itemized Invoices
- Equipment Speci ications
- □ Scope of Work
- □ W-9 (Customer's W-9 or 3rd party W-9, if applicable)

FINAL APPLICATION (IF PRE APP HAS BEEN SUBMITTED)

- Completed Applicant Information Form (optional)
- Assigned Project Number on Signature Page
- Total Project Cost
- Project Completion Date
- Completed and Signed Final Payment Agreement and Customer Agreement Forms
- Completed Third-Party Payment Release Authorization Section (optional)
- □ Itemized Invoices
- Updated Scope of Work (if there were changes from pre)
- Applicable Incentive Worksheets (if there were changes from pre)

AEP Ohio Business Incentives Program

445 Hutchinson Avenue, Suite 300

Columbus, Ohio 43235

877-541-3048 | aepohiosolutions@clearesult.com

Visit our website at AEPohio.com/solutions

Revised Submittal

Please complete below if this is a revised submittal.

Submittal date_

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



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 Numbers for this Project? (Select O								
Taxpayer ID W-9 Tax Status (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	or						
Project Information								
Project Name (if applicable)								
Check if mailing address and project site address are the same	e.							
Project Site Address	City	_State_ ^{OH} _Zip						
Building Type (Select One) Shift (Select 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 Contact					
Mailing Address		City			_State_OH	Zip	
Phone	_ Ext	_ Contact Email					
Who should we contact with questions ab	out the application?	Customer		Contractor			
Primary Contact Information							
Contact NameTitle of Contact							
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		
Process Efficiency		
NC Lighting (SD Only)		
Total		

4

AEP Application Number AEP - _ _ - _ _ _



CUSTOMER AGREEMENT

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.

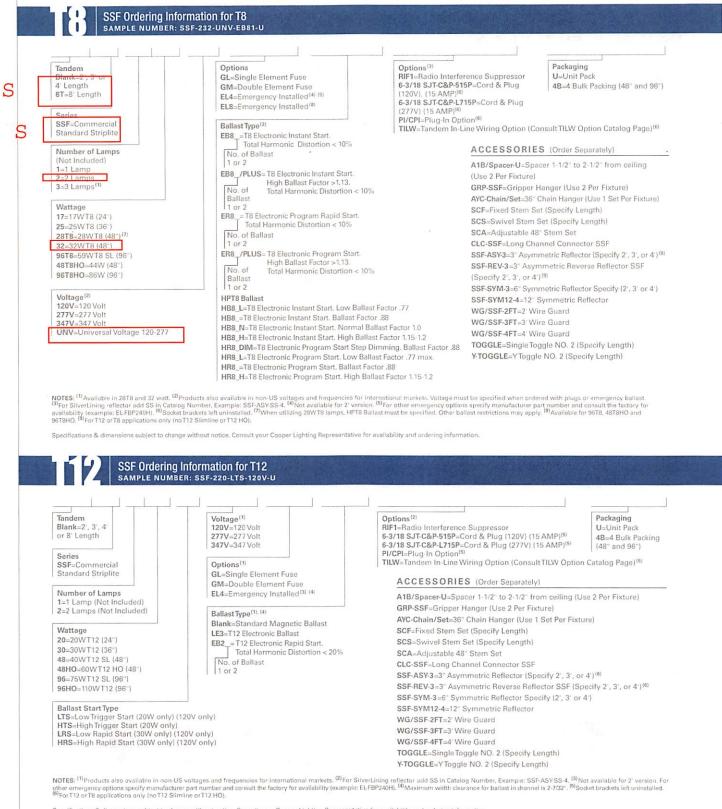
Link to Efficient Products for Business/Process Efficiency Terms and Conditions, and Final Application Agreement Link to Self-Direct Terms and Conditions, and Final Application Agreement

Pre-Application	Final-Application		
Project Completion Year	(Select One)	Self-Direct	
Project Completion Date _		Total Project Cost	
Date		Total Applied for Incentive	
Total Requested Incent	ive ¹	Total Self-Direct Requested Incentive ²	
Print Name		AEP Ohio Customer Signature	

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		City	_ State_OHZip
Phone	_ Ext		
Taxpayer ID of 3rd Party		W-9 Tax Status	
receive the incentive payment fro	om AEP Ohio. I also understand	ive to the third party named above and un d that my release of the payment to a thir cations, Terms and Conditions, and Final.	d party does not exempt me
Print Name	Date	Customer Signature (A	EP Ohio Customer)
SUBI	MIT VIA EMAIL	PRINT APPLICA	TION
¹ Incentives have a threshold of 50% of the ² Self-Direct incentives are 75% of Total Re		o a threshold of \$25,000 and Bid4Efficiency above th ject cost threshold and tiering is applied.	iat.

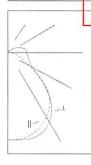


Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information

Attachment 6 Supporting Documentation Page 2 of 7

Candlepower

PHOTOMETRICS



Candlepower

Energy Saving Ballast	Angle	Along II	45°	Across 1
F32T8/35K lamps	0	1583	1583	1583
3100 lumens	5	1588	1594	1591
Spacing criterion:	10	1580	1597	1607
	15	1554	1591	1618
(II) 1.3 x mounting	20	1512	1573	1605
height, (⊥) 1.4 x	25	1454	1534	1563
mounting height	30	1380	1473	1488
= //:	35	1291	1384	1375
Efficiency = 82.0%	40	1181	1258	1225
Test Report:	45	1043	1077	1030
134P132	50	848	851	809
134F132	55	602	655	626
LER = FW-80	60	429	518	512
	65	317	413	444
Yearly Cost of 1000	70	240	333	409
lumens, 3000 hrs at	75	180	270	390
.08 KWH = \$3.00	80	123	223	369
φοισο	85	62	185	347
	90	3	155	332

.08 KWH = \$3.00

S

WN-232-EB81-U

Coefficients of Utilization

	Ef	fectiv	ve fl	oor ca	wity re	eflec	tanc	e	20%									
rc		80	%			70	1%			50%			30%			10%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
CR																		
0	95	95	95	95	92	92	92	92	85	85	85	80	80	80	74	74	74	72
1	86	82	79	76	83	80	76	73	74	72	69	69	67	65	65	63	61	59
2	79	72	67	62	76	70	65	61	65	61	58	61	58	55	57	54	52	50
3	72	64	57	52	69	62	56	51	58	53	49	54	50	47	51	47	45	42
4	66	57	50	45	64	55	49	44	52	46	42	49	44	40	46	42	39	37
5	61	51	44	39	59	49	43	38	47	41	37	44	39	35	41	37	34	32
6	57	46	39	34	54	45	38	33	42	36	32	40	35	31	38	33	30	28
7	52	42	35	30	50	41	34	29	38	33	29	36	31	28	34	30	27	25
8	49	38	31	27	47	37	31	26	35	30	26	33	28	25	32	27	24	22
9	46	35	28	24	44	34	28	24	32	27	23	31	26	22	29	25	22	20
10	43	32	26	22	41	31	26	22	30	25	21	29	24	20	27	23	20	18

Zonal Lumen Summary

					Height	Along	Height	Across
Zone	Lumens	%Lamp	%Fixture	Room Size (Ft.)	8.5'	10.0'	8.5'	10.0"
0.30	1304	21.0	25.6	20 x 20	52	58	44	53
0-40	2152	34.7	42.3	30 x 30	43	48	31	39
0-60	3544	57.2	69.7	30 x 60	36	40	15	21
0.90	4441	71.6	87.3	60 x 30	40	46	35	42
90-180	645	10.4	12.7	60 x 60	32	37	17	22
0-180	5086	82.0	100.0					

Typical VCP Percentages

ORDERING INFORMATION

SAMPLE NUMBER: WN-232A-UNV-EB81-U

Voltage (3) Options Packaging Ballast Type¹³ Length 120V=120 Volt 277V=277 Volt DEC=Decorative End Cap U=Unit Pack EB8_=T8 Electronic Instant Start. Total Harmonic Distortion < 10% Blank=2' or 4' Length CRA=Continuous Row 8T=8' (Tandem) 347V=347 Volt Aligner No. of Ballast 1 or 2 UNV=Universal Voltage 120-277⁽⁴⁾ Series(1) EB8_/PLUS=T8 Electronic Instant Start. WN=Commercial High Ballast Factor >1.13. No. of Ballast Options Surface Wrap Total Harmonic Distortion < 20% GL=Single Element Fuse GM=Double Element Fuse 1 or 2 Number of Lamps 12 ACCESSORIES 2=2 Lamps EL=Emergency Installed⁽⁵⁾ REB1= T8 Electronic Instant Start Residential Ballast. SCF=Fixed Stem Set (Specify Length) ER8_=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10% (Not Included) SCS=Swivel Stem Set (Specify Length) SCA=Adjustable 48" Stem Set WN-2LT-DEC-ENDS=Decorative End No. of Ballast Wattage 17=17WT8 (24") 1 or 2 Caps - 2 Lamps (2 pieces) WN-CRA=Continuous Row Aligner ER8_/PLUS= T8 Electronic Program Start. High Ballast Factor >1.13. 28T8=28WT8 (48")[6] 32=32WT8 (48") (1 only) No. of Ballast Total Harmonic Distortion < 10% Lens 1 or 2 A=Acrylic Refractor/Lens HPT8 Ballast HB8_L=T8 Electronic Instant Start. Low Ballast Factor .77 HB8_=T8 Electronic Instant Start. Ballast Factor .88 HB8_N=T8 Electronic Instant Start. Normal Ballast Factor 1.0 HB8_H=T8 Electronic Instant Start. High Ballast Factor 1.15-1.2 HR8_DIM=T8 Electronic Program Start Step Dimming. Ballast Factor .88 HR8_L=T8 Electronic Program Start. Low Ballast Factor .77 HR8_=T8 Electronic Program Start. Ballast Factor .88 HR8_H=T8 Electronic Program Start. High Ballast Factor 1.15-1.2

NOTES: ^{III}Steel endplates with 7/8° KO standard for continuous row mounting. ^{IEI}2 point suspension recommended for 2 and 4 lamp models. 3 point suspension recommended for 6 foot tandems. ^{III}Products also available in non-US voltage and frequencies for international markets. 120V must be specified with a residential balast. ^{III} Not Available when specifying emergencies, voltage must be specified. ^{III}A how profile battery pack is required for installation with standard ballast cover (consult Cooper Lighting). ^{IIII}When utilizing 28W T8 lamps, HB Ballast must be specified. ^{III}A how profile battery pack is required by consult your Cooper Lighting. Representative for availability and ordering infor

SHIPPING DATA					
Catalog No.	Wt.				
WN-217A	6 lbs.				
WN-228T8A	8 lbs.				
8TWN-228T8A	15 lbs.				
WN-232A	8 lbs.				
8TWN-232A	15 lbs.				

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.



Specifications and dimensions subject to change without notice.

Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770 468.4801

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	WN-228T8-HB81-U Energy Saving Balla
-	F28T8 28W lamps 2800 lumens
	Spacing criterion: (II) 1.3 x mounting height, (⊥) 1.4 x mounting height
	Efficiency = 90.2%
	Test Report: 134P133
	LER = FW-93
	Yearly Cost of 1000 lumens, 3000 hrs a .08 KWH = \$2.59

Angle	Along II	45°	Across 1
0	1562	1562	1562
5	1566	1572	1569
10	1558	1576	1586
15	1532	1570	1597
20	1490	1552	1586
25	1432	1514	1545
30	1358	1453	1472
35	1270	1365	1361
40	1162	1242	1214
45	1025	1063	1022
50	833	841	803
55	590	648	623
60	422	512	510
65	312	408	442
70	236	328	407
75	178	267	389
80	121	221	367
85	61	184	345
90	3	152	332

Coefficients of Utilization

rc		80	%			70	%			50%			30%			10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
CR																		
0	105	105	105	105	101	101	101	101	94	94	94	87	87	87	81	81	81	78
1	95	91	87	83	91	87	84	81	81	78	76	76	74	71	71	69	67	65
2	87	79	73	68	83	77	71	66	72	67	63	67	63	60	62	60	57	54
3	79	70	63	57	76	68	61	56	63	58	53	59	55	51	56	52	49	46
4	73	62	55	49	70	60	53	48	57	51	46	53	48	44	50	46	42	40
5	67	56	48	42	64	54	47	42	51	45	40	48	43	39	45	41	37	35
6	62	50	43	37	60	49	42	36	46	40	35	44	38	34	41	36	33	31
7	58	46	38	33	55	45	37	32	42	36	31	40	34	30	38	33	29	27
8	54	42	34	29	52	41	34	29	39	32	28	37	31	27	35	30	26	25
9	50	38	31	26	48	37	31	26	36	30	25	34	28	25	32	27	24	22
10	47	35	29	24	45	35	28	24	33	27	23	31	26	22	30	25	22	20

Zonal Lumen Summary

				Height	Along	Height	Across
Lumens	%Lamp	%Fixture	Room Size (Ft.)	8.5'	10.0'	8.5'	10.0'
1286	23.0	25.5	20 x 20	52	58	44	54
2124	37.9	42.0	30 x 30	43	49	31	40
3498	62.5	69.2	30 x 60	36	40	15	21
4389	78.4	86.9	60 x 30	41	47	35	43
5052	90.2	100.0	60 x 60	33	37	17	22
	1286 2124 3498 4389	1286 23.0 2124 37.9 3498 62.5 4389 78.4	1286 23.0 25.5 2124 37.9 42.0 3498 62.5 69.2 4389 78.4 86.9	1286 23.0 25.5 20 x 20 2124 37.9 42.0 30 x 30 3498 62.5 69.2 30 x 60 4389 78.4 86.9 60 x 30	Lumens %Lamp %Fixture Room Size (Ft.) 8.5' 1286 23.0 25.5 20 x 20 52 2124 37.9 42.0 30 x 30 43 3498 62.5 69.2 30 & 60 36 4389 78.4 86.9 60 x 30 41	1286 23.0 25.5 20 x 20 52 58 2124 37.9 42.0 30 x 30 43 49 3498 62.5 69.2 30 x 60 36 40 4389 78.4 86.9 60 x 30 41 47	Lumens %Lamp %Fixture Room Size (Ft.) 8.5' 10.0' 8.5' 1286 23.0 25.5 20 x 20 52 58 44 2124 37.9 42.0 30 x 30 43 49 31 3498 62.5 60.2 30 x 60 36 40 15 4389 78.4 86.9 60 x 30 41 47 35

Typical VCP Percentages

Ballast

Factor

(BF)

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

0.88

BALLAST

I AMP

I AME

OUICKTRONIC 2x32

No. of

Lamps

2

3

3

3

2

4

System

Lumens

2640

2510

2400

2175

5280

5015

4800

435

7920

7525

7195

6530

10560

10030

9590

8710

49969 QHE2x32T8/UNV-ISN-SC-B

49971 QHE4x32T8/UNV-ISN-SC-B

Input

Wattage

(W)

28

26

25

22

55

52

48

43

83/82

78/77

72

65/64

108/107

102/101

95

84/83

System

Efficacy

(Im/W)

04

97

96

99

96

101

95/97

96/98

100

101/102

98/99

98/99

101

104/105

100

<10% THD High Efficiency Electronic T8 Fluorescent Systems (Normal Ballast Factor)

Lamp

Type

F032/XP

F030/SS

F028/SS

F025/SS

F032/XP

F030/SS

F028/SS

F025/SS

F032/XP

F030/SS

F028/SS

F025/SS

F032/XP

F030/S

F028/S

F025/SS

Rated

Lumens

(Im)

3000

2850

2725

2475

3000

2850

3000

2850

2725

2475

3000

2850

2725

2475

10 PC Banded Packs

49968 QHE1x32T8/UNV-ISN-SC-B

49970 QHE3x32T8/UNV-ISN-SC-B

White

Input

Voltage

(VAC)

120-277

120-277

120-277

120-277

Input

Current

(AMPS)

0.25/0.11

0.22/0.09

0.21/0.09

0.19/0.09

0.47/0.20

0.44/0.19

0.40/0.18

0.36/0.16

0.69/0.30

0 66/0 28

0.61/0.26

0.55/0.23

0.91/0.39

0.86/0.37

0.80/0.35

0.71/0.30



Performance Guide

Data based upon SYLVANIA OCTRON® XP" lamps shown. QUICKTRONIC QHE Instant Start ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

QHE Instant Start ballasts will operate F17, F25 and F32 (and the U-Bend equivalent) T8 lamps. Complete performance data is available in the QUICKSYSTEMS section of the SYLVANIA Electronic Ballast Catalog.

Starting Method: Instant Start

Ballast Factor: 0.88

Products listed above are 10 packs 840 PC Pallet Packs

Item

49851

49853

49855

49857

Number

49852 QHE1x32T8/UNV-ISN-SC-PAL 49854 QHE2x32T8/UNV-ISN-SC-PAL

49856 OHE3Y32TRAINV-ISN-SC-PAL 49858 OHE4Y32TRAINV-ISN-SC-PAL

OSRAM SYLVANIA

Description

QHE 1X32T8/UNV ISN-SC

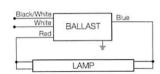
OHE 2X32T8/UNV ISN-SC

QHE 3X32T8/UNV ISN-SC

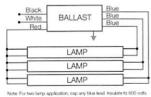
QHE 4X32T8/UNV ISN-SC

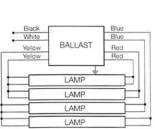
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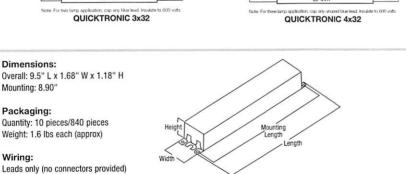
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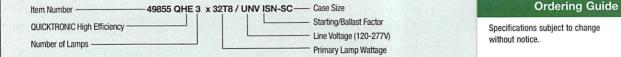


QUICKTRONIC 1x32

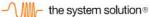








OSRAM SYLVANIA National Customer Service and Sales Center 1-800-LIGHTBULB (1-800-544-4828) www.sylvania.com



Specifications¹

Circuit Type: Parallel Lamp Frequency: > 40KHz Lamp CCF: Less than 1.7 Starting Temp: -20°F for OCTRON T8 lamps; 60°F for SUPERSAVER® T8 lamps 0°F for F040T8 Input Frequency: 50/60 Hz Low THD: < 10% Power Factor: > 98% Voltage Range: 108-305V UL Listed Class P, Type 1 Outdoor CSA Certified (where applicable) 70°C Max Case Temperature FCC 47CFR Part 18 Non-Consumer Class A Sound Rating ANSI C62.41 Cat. A Transient Protection Remote Mounting up to 20 feet '

Operation below 50°F may affect light output or lamp operation – see "Low Temp. Starting" definition.

System Life / Warranty

QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details refer to our OUICK 60+ warranty bulletin.

©2006 OSRAM SYLVANIA

Ordering Guide

11.7" (297mm)

SmartCast® Control Module

location

CR Series with Cree SmartCast® Technology

CB14[™] 1' x 4' Architectural LED Troffer

Product Description

The CR14™ architectural LED troffer with Cree SmartCast® Technology, Cree's intelligent light solution, provides extreme energy productivity and code compliance - all with installation that's so intuitive and simple, it just works. Cree SmartCast® Technology products incorporate integrated ambient and occupancy sensing and wireless communication to achieve energy savings and extended product life resulting in lower electricity bills, reduced maintenance, and an improved total cost of ownership over traditional lighting control systems. And now, CR Series troffers with Cree SmartCast® Technology offer field adjustable color temperatures, simplifying project specification, ordering and installation by allowing one troffer to be used in any space regardless of color temperature preference.

Performance Summary

Utilizes Cree TrueWhite® Technology

Room-Side Heat Sink

Efficacy: 100-131 LPW

Initial Delivered Lumens: 4,000 lumens

Input Power: 30.5-40 watts

CRI: 90 CRI

CCT: 3000K, 3500K, 4000K, 5000K, adjustable CCT

Input Voltage: 120-277 VAC

Limited Warranty[†]: 5 years

Controls: Cree SmartCast® Technology

Mounting: Recessed*

'See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Drywall Grid Adapter DGA-24WHT Cree SmartCast* Technology Configuration Tool: <u>CCF-CWC-1</u> - One required per project when CMA control is selected	Cree SmartCast* Technology Face Plates** CFP-1-WH - Matching Cree face plate, 1-gang, white CFP-2-WH - Matching Gree face plate, 2-gang, white CFP-3-WH - Matching Cree face plate, 3-gang, white Cree SmartCast* Technology Wireless Dimmer** CWD-CWC-WH Cree SmartCast* Technology Wireless Switch** CWS-CWC-WH

Refer to the Configuration Tool spec sheet for more details **Refer to the Wireless Dimmer Smartcast Control spec sheet for more details

Ordering Information

S

CR14					
Product	Initial Delivered Lumens	ССТ	Voltage	Control	Options
CR14	40L 40W, 4,000 lumens - 100 LPW 40LHE 30.5W, 4,000 lumens - 131 LPW (30K) 32W, 4,000 lumens - 125 LPW (35K) 33W, 4,000 lumens - 121 LPW (40K) 34.5W, 4,000 lumens - 116 LPW (50K)	30K 3000K 3500K 40R 400K 50K 50K 5000K Adjustable cCT: 3000K-5000K - Available only with 40L - Factory set at 4000K - Adjustable in 500K increments	Blank 120-277 Volt	CMA Cree SmartCast* Technology - Integral motion and ambient sensors and wireless communication	EB10W Emergency Battery Backup - 40L-ACK: 1,000 lumens - 40LHE-30K: 1,300 lumens - 40LHE-30K: 1,250 lumens - 40LHE-40K: 1,200 lumens - 40LHE-50K: 1,150 lumens

* Acceptable for use with standard 9/16 T-Bar or larger when installed per installation instructions. Consult factory for non-standard grid applications



US: lighting.cree.com/lighting





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



Rev. Date: V5 02/04/2016



Canada: www.cree.com/canada



47.7" (1212mm)

4 5" (114mm)

T (800) 473-1234 F (800) 890-7507

72866 - F28T8/XLSPX41ECO

GE Ecolux® UltraMax™ Starcoat® T8 · Passes TCLP, which can lower disposal costs.

> High Color Rendering Energy Savings

Reduced Wattage

Photo Not Available

Circle F







Lamp Type

Bulb Base Rated Life (NOM) Rated Life (instant start) @ Time Rated Life (rapid start) @ Time

Bulb Material Starting Temperature (MIN) Mercury Content (NOM) Picograms of Mercury (NOM) Additional Info **Primary Application**

GENERAL CHARACTERISTICS Linear Fluorescent - Straight Linear Т8 Medium Bi-Pin (G13)

Project # 17-20241

Docket # 17-0785

45000.0 h 24000 h @ 3 h 34000 h @ 12 h 45000.0 @ 3.0/50000.0 @ 12.0 h Soda lime 15.0 °C 2.95 mg 25.6 pg TCLP compliant **Energy Saving**

PHOTOMETRIC CHARACTERISTICS

Initial Lumens (NOM) 2675.0 Mean Lumens (NOM) 2515.0 Nominal Initial Lumens per Watt 95.53571 (NOM) 4100.0 K Color Temperature (NOM) Color Rendering Index (CRI) 82.0 (NOM) S/P Ratio (Scotopic/Photopic 1.8 Ratio) (NOM)

ELECTRICAL CHARACTERISTICS

Wattage (NOM) 28 0 Open Circuit Voltage (instant 550 V@ 15 °C start) Min @ Temperature Cathode Resistance Ratio - Rh/ 4.25 Rc (MIN) Cathode Resistance Ratio - Rh/ 6.5 Rc (MAX) Lamp Current (NOM) 275.0 mA Current Crest Factor (MAX) 1.7

DIMENSIONS

Maximum Overall Length (MOL) (NOM) Minimum Overall Length (NOM) Nominal Length (NOM) Bulb Diameter (DIA) (MIN) Bulb Diameter (DIA) (MAX) Bulb Diameter (DIA) (NOM) Max Base Face to Base Face (A) (NOM) Face to End of Opposing Pin (B) (MIN) Face to End of Opposing Pin (B) (MAX) End of Base Pin to End of Opposite Pin End (C) (NOM)

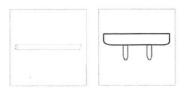
48.000 in(1219.2 mm)

47.780 in(1213.6 mm) 48.000 in(1219.2 mm) 0.940 in(23.9 mm) 1.100 in(27.9 mm) 1.000 in(25.4 mm) 47.220 in(1199.4 mm) 47.400 in(1204.0 mm) 47.500 in(1206.5 mm) 47.670 in(1210.8 mm)

PRODUCT INFORMATION

Product Code Description Standard Package Standard Package GTIN Standard Package Quantity Sales Unit No Of Items Per Sales Unit No Of Items Per Standard Package UPC

043168728669



Attachment 6 Supporting Documentation Page 6 of 7

Project # 17-20241 Docket # 17-0785

Air-Cooled Ice Cube Machine with Patented CVD Technology

uietQube® i-1470C

Remote Ice

Cube Machine







QuietQube® i-1470C Remote Ice Cube Machine

Air-Cooled Ice Cube Machine with Patented CVD Technology®



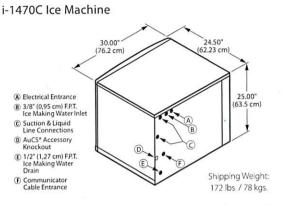
2110 South 26th Street PO Box 1720 Manitowoc, WI 54221-1720 USA Tel: 1.920.682.0161 Fax: 1.920.683.7589

Manıtowoc



Project # 17-20241 Docket # 17-0785





Specifications

Operating Limits:

- Ambient Temperature Range: 35° to 110°F (1.7° to 43.3°C)
- Water Temperature Range: 35° to 90°F (1.7° to 32.2°C)
- Water Pressure Ice Maker Water In: Min. 20 psi (137.9 kPA) Max. 80 psi (551.1 kPA)

115/60/1 standard. (230/50/1 also available, consult factory.)

Ice Machine Electric

- Total Amps: 1.1
- Max. fuse size: 15 amps HACR-type circuit breakers can be used in place of fuses.

Remote Air-cooled Ice Machine

			duction lours	Power kWh/ 100 lbs @	
Model	lce Shape	70°Air/ 50°F Water	90°Air/ 70°F Water*	90°/70°F*	ENERGY STAR
10 14726	attace	1,330 lbs.	1,136 lbs.	4.43	
ID-1472C	dice	603 kgs.	515 kgs.	4.45	×
N. 1.174C	half-	1,425 lbs.	1,200 lbs.	4.21	-
IY-1474C	dice	646 kgs.	544 kgs.	4.31	*
	W	ater usage/10	0 lbs./45.4 kg	s. of Ice	
	Po	table Water*:	20 gallons, 75	.7 liters	

AHR CERTIFIED *Ratings Certified in Accordance with AHRI Standard 810.

Ice machine for use with ice storage bin or ice dispenser and CVD condensing unit all ordered separately.

kWh per 100 lbs. is total power of ice machine and condensing unit. Ice machine is 1 ph only. Condensing unit is 1 ph or 3 ph.

Accessories

LuminIce™ **Growth Inhibitor** reduces yeast and bacteria growth for a cleaner ice machine.

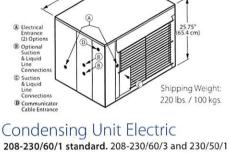


AuCS[®] Automatic Cleaning System purchased as an option and installed in the field.



2110 South 26th Street PO Box 1720 Manitowoc, WI 54221-1720 USA Tel: 1.920.682.0161 Fax: 1.920.683.7589 www.manitowocice.com





iCVD-1496 Remote Condensing Unit

34.00

© Suction & Liquid

also available. 50 Hz version of this model meets the international standard, IEC60335-1, requirements for "T-tropical rating," the most severe duty rating an ice machine can obtain, (consult factory). HACR-type circuit breakers can be used in place of fuses. Note: QuietQube ice machine power supply is wired independent of CVD condensing unit.

Min. circuit ampacity 20 1ph / 15 3ph Max. fuse size: 20 amps 1ph / 15 amps 3ph HACR-type circuit breakers can be used in place of fuses. **Operating Limits:**

· Ambient Temperature Range: -20° to 130°F (-29° to 54°C)

BTU Per Hour: 17,800 (average) 20,500 (peak) Compressor: Nominal rating: 1.75 HP

Installation Information and Dimensions:

- Maximum Line Length
- -100' (30.5 m).*
- Maximum Vertical Rise*
- —35' (10.7 m) above ice machine.
- Maximum Vertical Drop
- -15' (4.5 m) below ice machine.

*A rise over 20' (6 m) requires S-Trap Kit K-00166 - ordered separately.

Standard Interconnecting Tubing with Required Communication Wire* Communication wire comes with each of the following line sets

	Line L	ength	Weight		
Model	ft.	m.	lbs.	kgs.	
RC-25	20	6	14	6	
RC-35	30	9	20	9	
RC-55	50	15	31	14	



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/7/2017 10:52:10 AM

in

Case No(s). 17-0785-EL-EEC

Summary: Application Speedway Superamerica LLC 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