



Legal Department

October 14, 2016

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**)
Mast Global Logistics)
and Ohio Power Company) **Case No. 16-0277-EL-EEC**
for Approval of a Special Arrangement)
Agreement with a Mercantile Customer)

Steven T. Nourse
Senior Counsel
Regulatory Services
(614) 716-1608
(614) 716-2950 (F)
stnourse@aep.com

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 2014 (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 protected order requested in Docket 10-1599-EL-EEC.

Cordially,

/s/ Steven T. Nourse
Steven T. Nourse

Attachments



Case No.: 16-0277-EL-EEC

Mercantile Customer: MAST GLOBAL LOGISTICS

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 ee-pdr@puc.state.oh.us.

Section 1: Company Information

Name: MAST GLOBAL LOGISTICS

Principal address: 5 Limited Parkway E, Reynoldsburg, Oh 43068

Address of facility for which this energy efficiency program applies: 4 Limited Pkwy, Reynoldsburg, Oh 43068-5300

Name and telephone number for responses to questions:

James O'neil, Mast Global Logistics, (614) 415-3050

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 Confidential and Proprietary Attachment 4 – Calculation of Rider Exemption and UCT 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 Attachment 6 – Supporting Documentation for a listing of the customer's name and service addresses of other accounts in the AEP Ohio service territory.

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):

- ☒ Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, 9/3/2015 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:

- 1) 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: 66,310 kWh

See Confidential and Proprietary Attachment 5 - Self Direct Program Project Calculation for annual energy savings calculations and 10-1599-EL-EEC for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

- 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:

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):

$$\text{Unit Quantity (watts)} = \text{Existing (watts x units)} - \text{Installed (watts x units)}$$

$$\text{KW Demand Reduction} = \text{Unit Quantity (watts)} \times (\text{Deemed KW/Unit (watts)})$$

0.0 kW

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation for peak demand reduction calculation, and 10-1599-EL-EEC 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 \$ _____. (Attach documentation and calculations showing how this payment amount was determined.)

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation 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) (for exemption) . The calculated UCT value is: .03 (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 \$ 16,160.34

The utility's program costs were \$ 397.86

The utility's incentive costs/rebate costs were \$ 0 .00.

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 Attachment 1 - Self Direct Project Overview and Commitment for a description of the project. See Attachment 6 - Supporting Documentation, for the specifications of the replacement equipment 10-1599-EL-EEC 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 Attachment 2 - Self Direct Program Project Blank Application including Rules and Requirements. All confidentiality requirements are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and Proprietary Attachment 3 - Self Direct Program Project Completed Application.)

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

See Attachment 2 - Self Direct Program Project Blank Application 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 Confidential and Proprietary Attachment 3 - Self Direct Program Project Completed Application.

- 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 Attachment 2 - Self Direct Program Blank Application 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 Confidential and Proprietary Attachment 3 - Self Direct Program Project Completed Application.

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

See Attachment 1 - Self Direct Project Overview and Commitment 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 Confidential and Proprietary Attachment 5 - Self Direct Program Project Calculation, and 10-1599-EL-EEC for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.



Public Utilities Commission

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

Case No.: 16-0277-EL-EEC

State of Ohio :

Brian Lacey 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
2. I have personally examined all the information contained in the foregoing application, 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.

[Signature] Energy Engineer
Signature of Affiant & Title

Sworn and subscribed before me this 29th day of September, 2016 Month/Year

[Signature]
Signature of official administering oath

Dawn G. Irving / Notary
Print Name and Title

My commission expires on 9.3.19

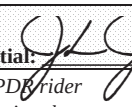


DAWN G IRVING
NOTARY PUBLIC
STATE OF OHIO
Comm. Expires
September 03, 2019



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	MAST GLOBAL LOGISTICS	
Project Number	AEP-15-16521	
Customer Premise Address	4 LIMITED PKWY, REYNOLDSBURG, OH 43068-5300	
Customer Mailing Address	5 Limited Parkway E, Reynoldsburg, OH 43068	
Date Received	9/18/2015	
Project Installation Date	9/3/2015	
Annual kWh Reduction	66,310	
Total Project Cost	\$81,115.20	
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$5,577.60	
Simple Payback (yrs)	15.3	
Utility Cost Test (UCT) for EEC	3.53	
Utility Cost Test (UCT) for Exemption	0.03	
<i>Please Choose One Option Below and Initial</i>		
Self Direct EEC: 75%	\$4,183.20	☐ Initial: _____
EE/PDR Rider Exemption	4 Months (After PUCO Approval)	☒ Initial: 

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:

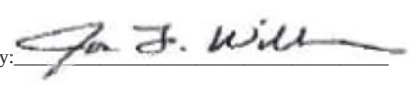
The Self Direct (Prescriptive and Custom) project that the above has completed and applied is as follows.

Replaced (48) 400W MH with (48) 126W 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

By: 

Title: Manager

Date: 9/1/2016

MAST GLOBAL LOGISTICS

By: 

Title: Superintendent

Date: 9/1/16

Prescriptive, Custom & Self-Direct Program Application



APPLICATION GUIDELINES

All 2015 AEP Ohio Business Incentives Program projects must be completed and Final Applications received no later than November 13, 2015, 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 **Terms and Conditions** for Self-Direct or
- ✓ **Terms and Conditions** 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

2740 Airport Drive, Suite 160. Columbus, OH 43219

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

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)

Applicable 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 _____

Incomplete applications will delay processing and reservation of funds.

FINAL APPLICATION

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)

Incentive Worksheets

Please complete worksheets for checked boxes.

- ☐ Lighting
- ☐ HVAC
- ☐ Motors & Drives
- ☐ Compressed Air
- ☐ Refrigeration/Food Service
- ☐ Agriculture & Miscellaneous
- ☐ Transformer
- ☐ UPS
- ☐ Custom

Application date _____
Final incremental project cost _____
Final completion date _____

Incomplete applications will delay processing and incentive payment.

¹If 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 - 1 ____ - ____

AEP Ohio Business Incentives Program

2740 Airport Drive, Suite 160. Columbus, OH 43219
Phone: (877) 607-0739 | Fax: (877) 607-0740
aepohioincentives@dnvgl.com
Visit our website at AEPohio.com/solutions

*Prescriptive, Custom & Self-Direct
Program Application*



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 One)

Taxpayer ID ____ - _____ W-9 Tax Status (Select One)

Contact Name _____ Contact Title _____

Mailing Address _____ City _____ State OH Zip _____

Phone _____ Ext. _____ Contact Email _____

How Did You Hear About the Program? (Select One) AEP OH Energy Advisor _____

Project Information

Project Name (if applicable) _____

☐ Check if mailing address and project site address are the same.

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 ten digits of the account number.

*Prescriptive, Custom & Self-Direct
Program Application*



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 about the application? ☐ Customer ☐ Contractor

Primary Contact Information

Contact Name _____ Title of Contact _____

Phone _____ Ext. _____ Contact Email _____

INCENTIVE SUMMARY TABLE

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

*Prescriptive, Custom & Self-Direct
Program Application*



CUSTOMER AGREEMENT

AEP Application Number AEP - __ - ____

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

Total Incentive Requested¹

AEP Ohio Customer Signature

Estimated Project Cost

Date

Print Name

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

Prescriptive, Custom & Self-Direct
Program Application



CUSTOMER AGREEMENT

AEP Application Number AEP - _ _ - _ _ _ _ _

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 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)

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) _____

Is this a Self-Direct application? (Select One) _____

Project Completion Date _____

Total Project Cost _____

Date _____

Total Applied for Incentive _____

Total Requested Incentive¹ _____ \$ 0.00

Total Self-Direct Requested Incentive² _____

Print Name

AEP Ohio Customer Signature

SUBMIT VIA EMAIL

PRINT APPLICATION

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.

GE
Lighting

APPROVED

DI

Evolve™ LED Area Light

Scalable Area Light (EASB)



imagination at work

Product Features

The next evolution of the GE Evolve™ LED Area Light continues to deliver outstanding features, while adding greater flexibility, style and scalability. This latest design offers higher lumen outputs and provides photometric combinations with high efficacy, providing the ability to meet even a wider range of area lighting needs. Additionally, the new EASB Evolve Luminaire comes with a specially designed auto dealership optic for exceptional illuminance on the dealership's front row. Optional programmable motion sensing for Title 24 compliance is available.

Applications

- Site, area, and general lighting applications utilizing advanced LED optical system providing high uniformity, excellent vertical light distribution, reduced offsite visibility, reduced on-site glare and effective security light levels.
- Ideal for small to large retailers, commercial to medical properties, and big box retailers.

Housing

- Die-cast aluminum housing.
- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life, and a reduced Effective Projected Area (EPA).
- Meets 2G vibration standards per ANSI C136.31-2010. For 3G rating contact manufacturer.

LED & Optical Assembly

- Structured LED arrays for optimized area light photometric distribution.
- Evolve light engine with directional reflectors designed to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 4000K and 5000K typical.

Lumen Maintenance

- System rating is L85 at 50,000 hours. Contact manufacturer for Lxx rating (Lumen Depreciation) beyond 50,000 hours.

Ratings

-  listed, suitable for wet locations.
-  listed with option code "J" SKUs.
- IP65 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at -40° to 50°C (-40° to 35°C for 412W fixtures). Delayed start may be experienced below -35° C.
- Upward Light Output Ratio (ULOR) = 0.
- Title 24 compliant with "H" motion sensor option.
- Compliant with the material restriction requirements of RoHS.

Mounting

Option A

- 10-inch (254mm) mounting arm for square pole prewired with 24-inch (610mm) leads.

Option B

- 10-inch (254mm) mounting arm for round pole prewired with 24-inch (610mm) leads.

Option C

- Slipfitter mounting for 2 3/8-inch (60mm) O.D. pipe prewired with 24-inch (610mm) leads.

Option S

- Knuckle Slipfitter mounting for 2.3-3" O.D. pipe, pre-wired with 24-inch (610mm) leads.

Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- Standard colors: Black & Dark Bronze.
- RAL & custom colors available.

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%.*
- Class "A" sound rating.
- Photo electric sensors (PE) available for all voltages.
- GE dimmable PE socket is available making the unit "adaptive controls ready." Contact manufacturer for details.
- Surge Protection Options:
For 120-277VAC and 347-480VAC per IEEE/ANSI C136.2-2014.
 - 6kV/3kA "Basic" surge protection, standard.
 - 10kV/5kA "Enhanced" surge protection available with R option.

* System power factor and THD is tested and specified at 120V input and maximum load conditions.

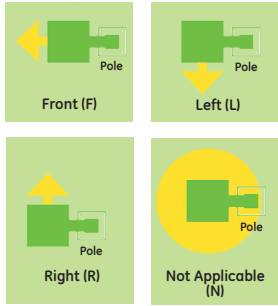


Ordering Number Logic

Evolve™ LED Scalable Area Light (EASB)

EAS

B

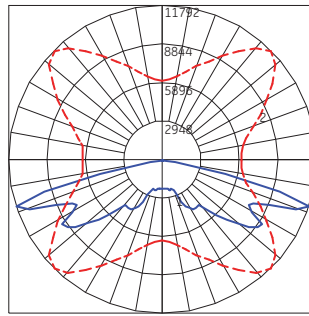
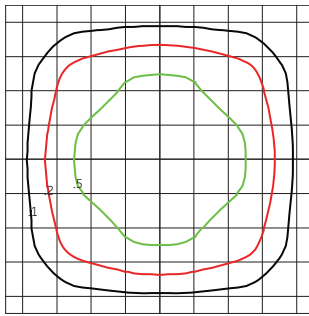
PROD. ID	PHOTOMETRIC	VOLTAGE	OPTICAL CODE	DISTRIBUTION ORIENTATION	DRIVE CURRENT	LED COLOR TEMP	PE FUNCTION	MOUNTING ARM	COLOR	OPTIONS
E = Evolve A = Area S = Scalable	B = Photometric Series	0 = 120 - 277 1 = 120* 2 = 208* 3 = 240* 4 = 277* 5 = 480* D = 347* H = 347-480 * Specify single voltage if fuse option is selected.		F = Front L = Left R = Right N = Not Applicable 	5 = 525mA (<412W only) 7 = 700mA (412W only)	40 = 4000K 50 = 5000K	1 = None 2 = PE Rec. 4 = PE Rec. with Shorting Cap 5 = PE Rec. with Control ** A = ANSI C136.41 7-pin PE Receptacle †# D = ANSI C136.41 7-pin PE Receptacle with Shorting Cap †# ** PE control not available for 347-480V. Must be a discrete voltage (347V or 480V). † When ordering PE function socket A or D, a dimming driver must also be ordered under the "OPTIONS" column. Order Dimming/Control PE as a separate item. #	A = 10" Arm for Square Pole supplied with leads B = 10" Arm for Round Pole supplied with leads C = EXT Slip-fitter 2" Pipe (2.378 in. OD) supplied with leads S = Knuckle Slipfitter for 2.3in. - 3.0in. OD Tenon. 0-45° vertical aiming angles achievable.	BLCK = Black DKBZ = Dark Bronze Contact manufacturer for other colors.	C = IEC D = Dimming (0-10 Volt Input)† (For 120-277V) D2 = Dimming (0-10 Volt Input)† (For 347-480V) F = Fusing H = Motion Sensor**# J = cUL/Canada R = 10kV Extra Surge Protection XXX = Special Options † Dimming leads will be provided through the back of the arm, unless specified with A or D PE Function. ** When ordering Motion Sensing Option H - "A" or "B" Mounting Arm must be selected. Fixture power increase of 1W expected with sensor use. # Dimming is standard with H option code. Do not also select D or D2 option. Not compatible with PE receptacle options A, or D.

	OPTICAL CODE	TYPE	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE		DISTRIBUTION ORIENTATION AVAILABLE	BUG RATINGS*						IES FILE NUMBER	
			4000K	5000K	120-277V	347-480V		4000K			5000K			4000K	5000K
TYPE V	D5	Symmetric Medium	10,600	10,900	126	126	N	4	0	2	4	0	2	456840	456884
	E5	Symmetric Medium	12,300	12,700	145	145	N	4	0	2	4	0	2	456841	456885
	F5	Symmetric Medium	14,000	14,400	171	171	N	4	0	2	4	0	2	456842	456886
	G5	Symmetric Medium	17,400	18,000	211	211	N	4	0	2	4	0	2	456843	456887
	H5	Symmetric Medium	20,800	21,400	249	249	N	4	0	2	5	0	3	456844	456888
	J5	Symmetric Medium	24,900	26,000	301	301	N	5	0	3	5	0	3	456845	456889
	K5	Symmetric Medium	30,600	32,000	412	412	N	5	0	3	5	0	3	456846	456890
	N5	Symmetric Short	11,600	11,900	126	126	N	3	0	1	3	0	1	456847	456891
	P5	Symmetric Short	13,400	13,800	145	145	N	3	0	2	3	0	2	456848	456892
	Q5	Symmetric Short	15,300	15,800	171	171	N	3	0	2	3	0	2	456849	456893
TYPE IV	R5	Symmetric Short	19,000	19,600	211	211	N	4	0	2	4	0	2	456850	456894
	S5	Symmetric Short	22,700	23,400	249	249	N	4	0	2	4	0	2	456851	456895
	T5	Symmetric Short	27,400	28,400	301	301	N	4	0	2	5	0	2	456852	456896
	U5	Symmetric Short	34,600	35,600	412	412	N	5	0	3	5	0	3	456853	456897
	A4	Asymmetric Forward	5,500	5,600	67	74	F, L, R	1	0	2	1	0	2	456854*	456898*
	B4	Asymmetric Forward	7,100	7,300	86	86	F, L, R	1	0	2	1	0	2	456855	456899
	C4	Asymmetric Forward	8,800	9,100	106	106	F, L, R	1	0	2	1	0	2	456856	456900
	D4	Asymmetric Forward	10,600	10,900	126	126	F, L, R	2	0	2	2	0	2	456857	456901
	E4	Asymmetric Forward	12,900	13,300	152	152	F, L, R	2	0	3	2	0	3	456858	456902
	F4	Asymmetric Forward	14,000	14,400	171	171	F, L, R	2	0	3	2	0	3	456859	456903
TYPE III	G4	Asymmetric Forward	17,400	18,000	211	211	F, L, R	2	0	3	2	0	4	456860	456904
	H4	Asymmetric Forward	20,800	21,400	249	249	F, L, R	3	0	4	3	0	4	456861	456905
	J4	Asymmetric Forward	25,200	26,000	301	301	F, L, R	3	0	4	3	0	4	456862	456906
	K4	Asymmetric Forward	31,700	33,000	412	412	F, L, R	3	0	5	3	0	5	456863	456907
	A3	Asymmetric Wide	6,000	6,100	67	74	F, L, R	1	0	1	1	0	1	456864*	456908*
	B3	Asymmetric Wide	7,700	7,900	86	86	F, L, R	1	0	2	1	0	2	456865	456909
	C3	Asymmetric Wide	9,700	9,900	106	106	F, L, R	2	0	2	2	0	2	456866	456910
	D3	Asymmetric Wide	11,600	11,900	126	126	F, L, R	2	0	2	2	0	2	456867	456911
	E3	Asymmetric Wide	14,100	14,500	152	152	F, L, R	2	0	2	2	0	2	456868	456912
	F3	Asymmetric Wide	15,300	15,800	171	171	F, L, R	2	0	2	2	0	2	456869	456913
TYPE II	G3	Asymmetric Wide	19,000	19,600	211	211	F, L, R	2	0	2	2	0	2	456870	456914
	H3	Asymmetric Wide	22,700	23,400	249	249	F, L, R	2	0	3	2	0	3	456871	456915
	J3	Asymmetric Wide	27,400	28,400	301	301	F, L, R	3	0	3	3	0	3	456872	456916
	K3	Asymmetric Wide	34,600	36,000	412	412	F, L, R	3	0	4	3	0	4	456873	456917
	A2	Asymmetric Narrow	5,800	5,900	67	74	F, L, R	1	0	1	1	0	1	456874*	456918*
	B2	Asymmetric Narrow	7,500	7,700	86	86	F, L, R	2	0	2	2	0	2	456875	456919
	C2	Asymmetric Narrow	9,300	9,600	106	106	F, L, R	2	0	2	2	0	2	456876	456920
	D2	Asymmetric Narrow	11,100	11,400	126	126	F, L, R	2	0	2	2	0	2	456877	456921
	E2	Asymmetric Narrow	13,600	13,900	152	152	F, L, R	2	0	2	3	0	3	456878	456922
	F2	Asymmetric Narrow	14,800	15,200	171	171	F, L, R	3	0	3	3	0	3	456879	456923
TYPE I	G2	Asymmetric Narrow	18,300	18,900	211	211	F, L, R	3	0	3	3	0	3	456880	456924
	H2	Asymmetric Narrow	21,900	22,600	249	249	F, L, R	3	0	3	3	0	3	456881	456925
	J2	Asymmetric Narrow	26,500	27,400	301	301	F, L, R	3	0	3	3	0	3	456882	456926
	K2	Asymmetric Narrow	33,300	34,700	412	412	F, L, R	3	0	4	4	0	4	456883	456927
	KA	Asymmetric 100° Wide Auto	37,200	38,800	412	412	F, L, R	4	0	3	4	0	3	456938	456928

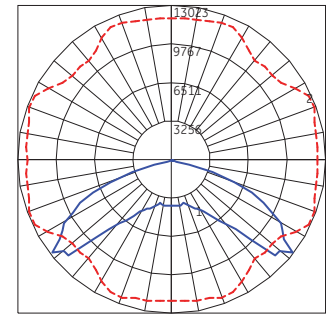
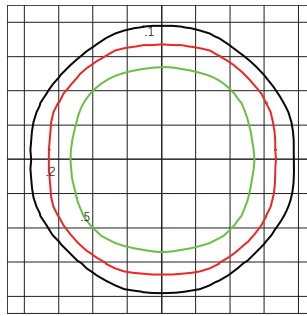
†Rating values for B and G are based on rated lumens and may vary due to flux tolerances. *Contact Manufacturer for 347-480v IES file numbers.

Photometrics

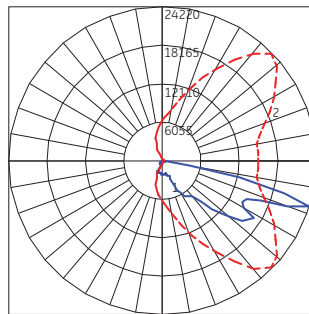
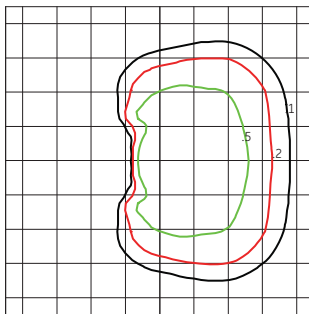
EASB Type V - Symmetric Medium (K5)
32,000 Lumens, 5000K (GE456890.ies)



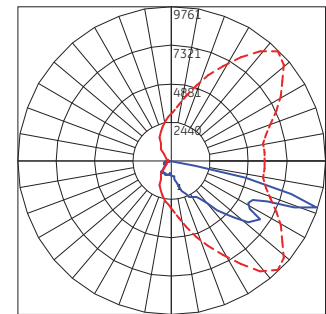
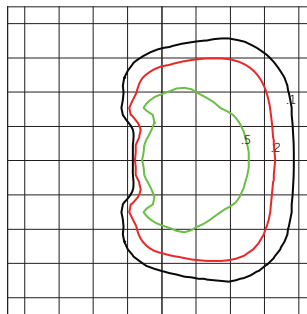
EASB Type V - Symmetric Short (U5)
35,600 Lumens, 5000K (GE456897.ies)



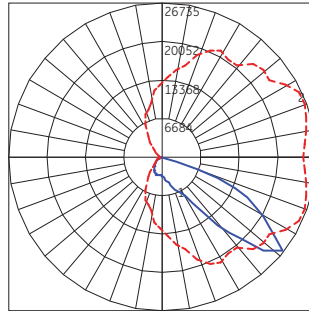
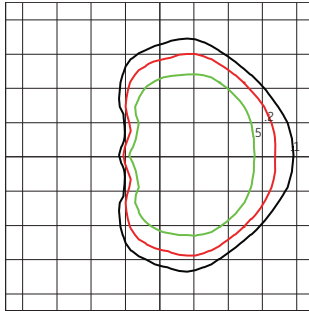
EASB Type IV - Asymmetric Forward (K4)
33,000 Lumens, 5000K (GE456907.ies)



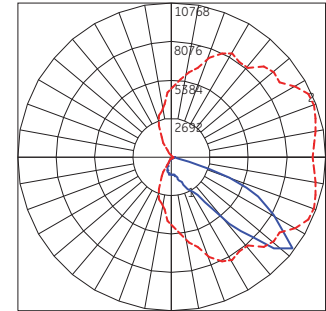
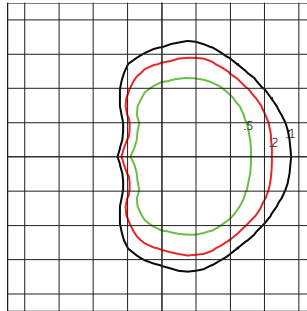
EASB Type IV - Asymmetric Forward (E4)
13,300 Lumens, 5000K (GE456902.ies)



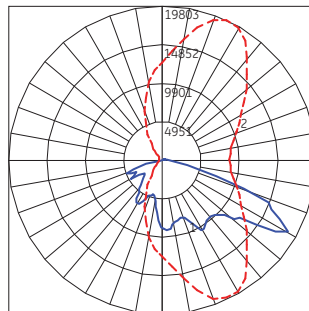
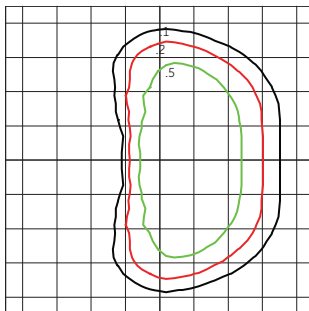
EASB Type III - Asymmetric Wide (K3)
36,000 Lumens, 5000K (GE456917.ies)



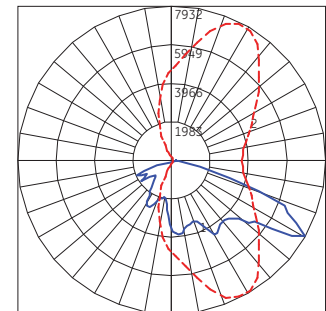
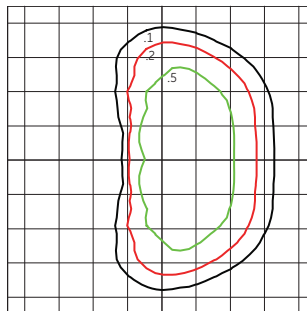
EASB Type III - Asymmetric Wide (E3)
14,500 Lumens, 5000K (GE456912.ies)



EASB Type II - Asymmetric Narrow (K2)
34,700 Lumens, 5000K (GE456927.ies)

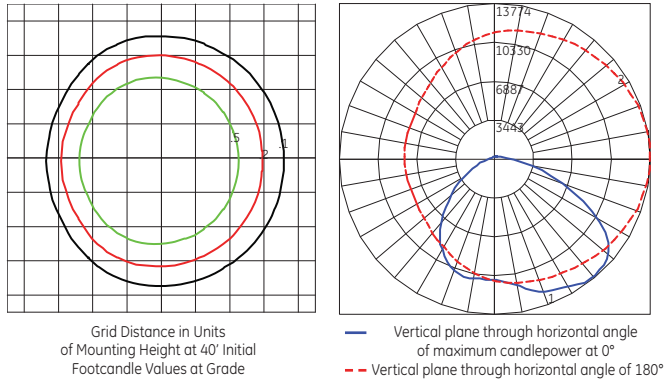


EASB Type II - Asymmetric Narrow (E2)
13,900 Lumens, 5000K (GE456922.ies)



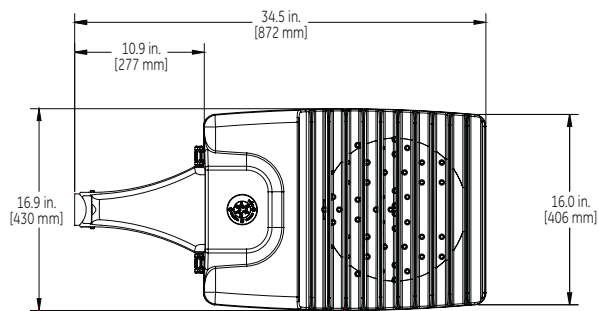
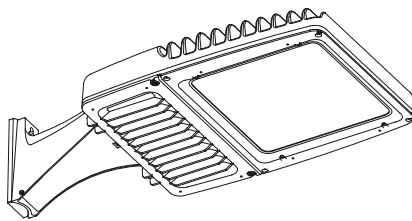
Photometrics

EASB Type II - Assymetric Auto (KA)
38,800 Lumens, 5000K (GE456928.ies)

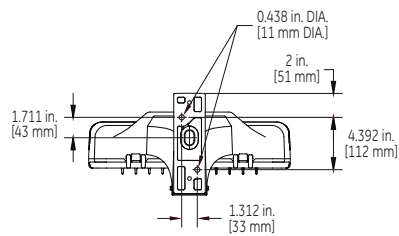


Product Dimensions

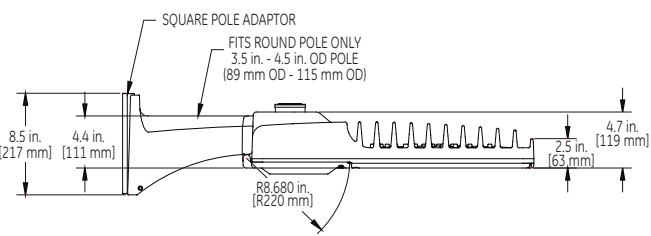
10" Arm For Square Pole Mount
(Option A)



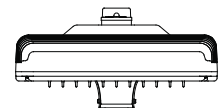
TOP VIEW



BACK VIEW



SIDE VIEW



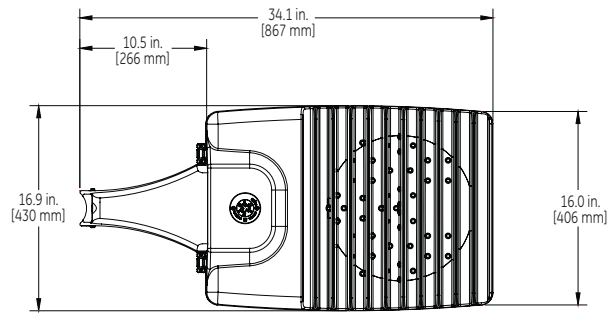
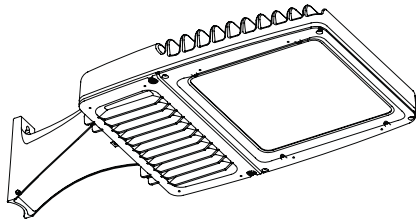
FRONT VIEW

DATA

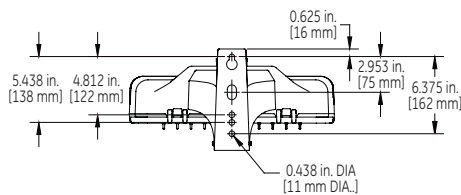
- Approximate net weight: 43-47 lbs (19.50 - 21.32 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with 10" Mounting Arm: 0.97 sq ft max (0.09 sq m)

Product Dimensions

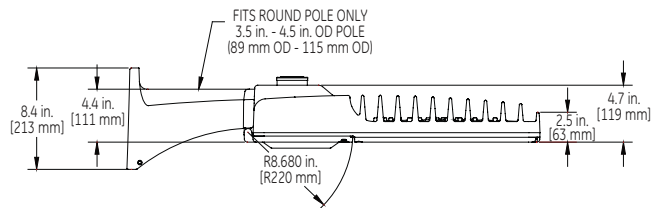
10" Arm For Round Pole Mount (Option B)



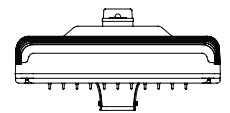
TOP VIEW



BACK VIEW



SIDE VIEW

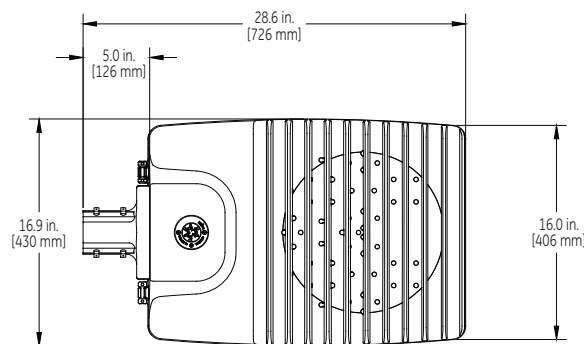
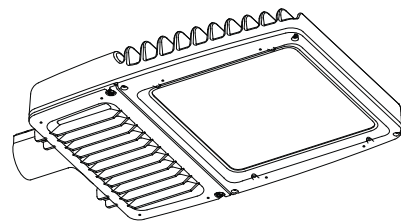


FRONT VIEW

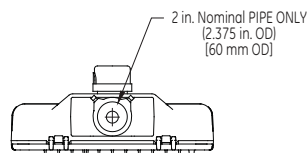
DATA

- Approximate net weight: 43-47 lbs (19.50 - 21.32 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with 10" Mounting Arm: 0.97 sq ft max (0.09 sq m)

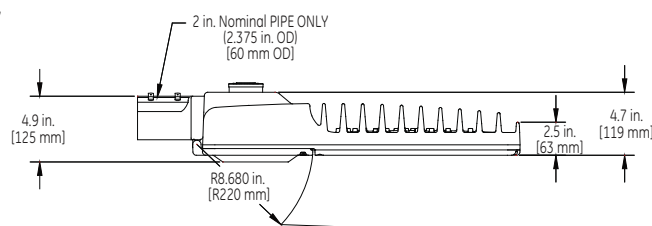
Slipfitter Arm Mount (Option C)



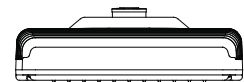
TOP VIEW



BACK VIEW



SIDE VIEW

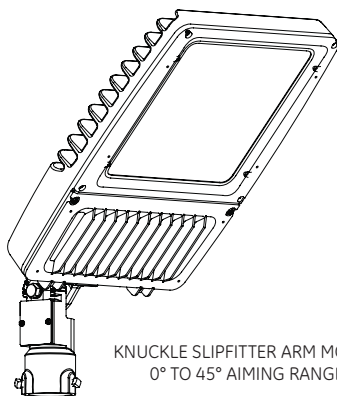


FRONT VIEW

DATA

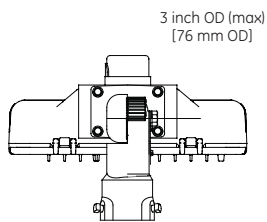
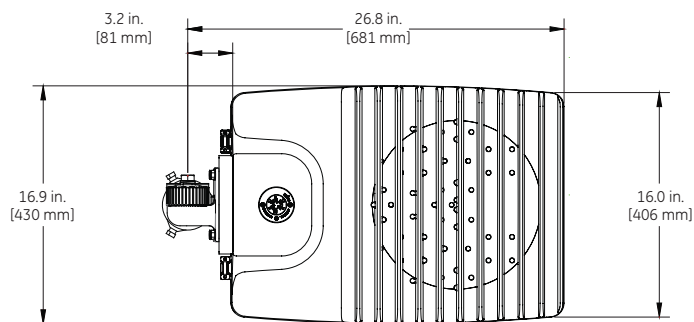
- Approximate net weight: 41-45 lbs (18.60 - 20.41 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with Slipfitter: 0.47 sq ft max (0.04 sq m)

Knuckle Arm Mount (Option S)

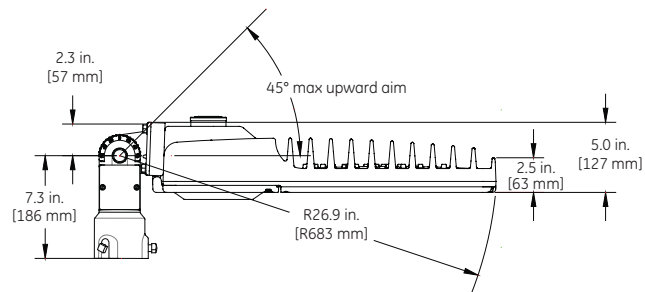


KNUCKLE SLIPFITTER ARM MOUNT
0° TO 45° AIMING RANGE

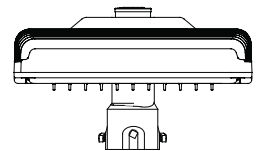
TOP VIEW



BACK VIEW



SIDE VIEW



FRONT VIEW

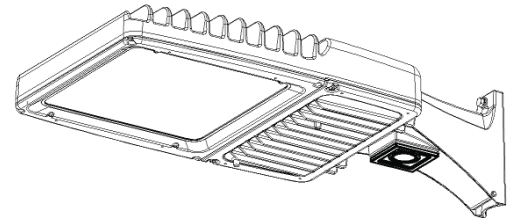
DATA

- Approximate net weight: 41-45 lbs (18.60 - 20.41 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with fixture mounted at 45° upward: 1.97 sq ft max

H-Motion Sensing Option:

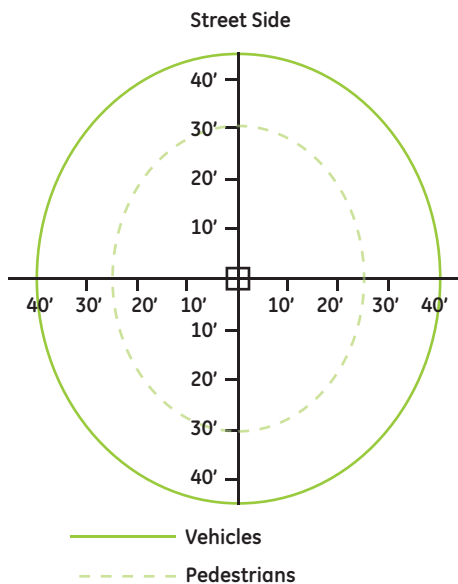
- Intended for high mounting applications, between 15-45ft (4.57-9.14m).
- Comes standard with 50% dimmed light output with no occupancy, and full power at occupancy.
- Comes standard with photocell function. Note: It is not necessary to also purchase PE receptacle or control.
- Comes standard with a 5 minute occupancy time delay and a 5 minute ramp-down to the 50% dimmed level.
- Must order with decorative mounting arm options "A" or "B".
- Fixture power increase of 1W expected with sensor use.

Note: Standard options may be reprogrammed in the field. Reprogramming instructions included in product shipment.



Sensor Pattern:

Sensing Pattern Area Fixture 15 - 45 ft.



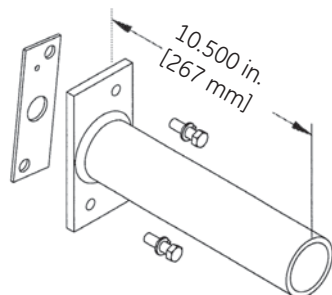
Mounting Information

Mounting Arms for Slipfitter

Order separately with Mounting Option C (External Slipfitter)

SQUARE POLE MOUNTING ARM

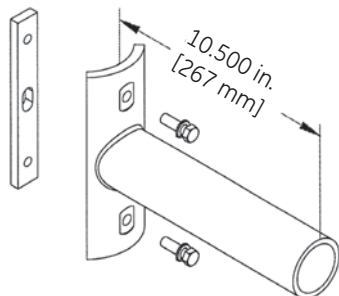
3.5 TO 4.5-inch (89 to 114mm) SQUARE
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
SPA-EAMT10BLCK "Black"
SPA-EAMT10DKBZ "Dark Bronze"

ROUND POLE MOUNTING ARM

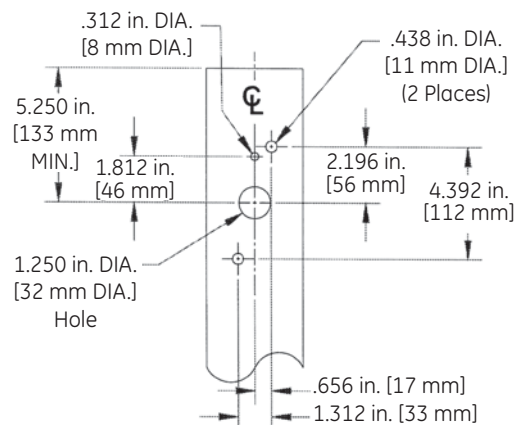
3.5 TO 4.5-inch (89 to 114mm) OD
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
RPA-EAMT10BLCK "Black"
RPA-EAMT10DKBZ "Dark Bronze"

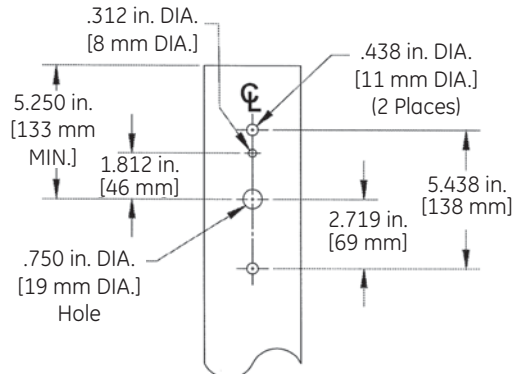
Drilling Templates for Slipfitter Arms & Arm Mount

SQUARE POLE MOUNTING



ROUND POLE MOUNTING

3.5 TO 4.5-inch (89 to 114mm) OD
round pole mounting arm



Wall Mounting Bracket Adapter Plate

ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
WMB-EAMT06

Other mounting patterns are available for retrofit installations.
Contact manufacturing for other available mounting patterns.



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in

Case No(s). 16-0277-EL-EEC

Summary: Application Mast Global Logistics and Ohio Power Company for approval of a special arrangement agreement with a mercantile customer electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company