AEP
AMERICAN ELECTRIC POWER

Legal Department

September 24, 2018

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**	)	
The Kroger Company	)	
and Ohio Power Company	)	**Case No. 18-0895-EL-EEC**
for Approval of a Special Arrangement	)	
Agreement with a Mercantile Customer	)	

Tanner S. Wolffram
Legal Fellow
Regulatory Services
(T) (614) 716-2914
(F) (614) 716-2950
tswolffram@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 2018 (hereinafter "Joint Application").

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

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

Cordially,

/s/ Tanner Wolffram
Tanner Wolffram

Attachments

Ohio | Public Utilities Commission

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

Case No.: 18-0895-**EL-EEC**

Mercantile Customer: THE KROGER CO

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: THE KROGER CO

Principal address: 1014 Vine St, Cincinnati, Oh 45202

Address of facility for which this energy efficiency program applies: 1375 Chambers Rd, Columbus, Oh 43212-1560

Name and telephone number for responses to questions:

Victor Hayes, The Kroger Co, (513) 762-4863

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, 7/17/2017 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: 74,431 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):

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

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

16.7 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 $ 4,526.51. (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) . The calculated UCT value is: 5.14 (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 $ 25,584.44

The utility's program costs were $ 446.59

The utility's incentive costs/rebate costs were $ 4,526.51.

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 confidentially 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.

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

Case No.: 18-0895-EL-EEC

State of Ohio :

Nigma Mustafa, 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.

Nigma Mustafa Engineer
Signature of Affiant & Title

Sworn and subscribed before me this 9th day of August, 2018 Month/Year

Linda M. Schmidt
Signature of official administering oath

LINDA M. SCHMIDT
Print Name and Title
Admin. Assistant

My commission expires on 7/31/2022

NOTARIAL SEAL STATE OF OHIO

LINDA M. SCHMIDT
Notary Public, State of Ohio
My Commission Expires 7-31-2022

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A unit of American Electric Power

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	THE KROGER CO	
Project Number	AEP-17-20848	
Customer Premise Address	1375 CHAMBERS RD, COLUMBUS, OH 43212-1560	
Customer Mailing Address	1014 Vine St, Cincinnati, OH 45202	
Date Received	4/9/2018	
Project Installation Date	7/17/2017	
Annual kWh Reduction	74,431	
Total Project Cost	$18,329.83	
Unadjusted Energy Efficiency Credit (EEC) Calculation	$6,035.35	
Simple Payback (yrs)	6.2	
Utility Cost Test (UCT) for EEC	5.14	
Utility Cost Test (UCT) for Exemption	0.09	
		Please Choose One Option Below and Initial
Self Direct EEC: 75%	**$4,526.51**	☑ **Initial:** VH
EE/PDR Rider Exemption	**12 Months (with possible extension up to 28 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 (32) 2L 4' T8 with (32) 468314 LED
Replaced (152) 3L 4' T8 with (152) 468314 LED
Replaced (57) 4L 4' T8 with (57) 468314 LED
Replaced (326) 6L 4' T8 with (326) 468314 LED
Replaced (23) 2L 8' T8 with (23) 496247 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.

Columbus Southern Power Company

Title: Manaager

Date: 05/23/2018

THE KROGER CO

By: Victor Hayes

Title: Energy Engineer

Date: 5/23/2018

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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 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 Application[1]

(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

[1]A 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.

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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 - _ _ - _ _ _ _ _

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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 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 eleven digits of the account number.

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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 (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		

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

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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 Incentive[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 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)**

_____ _____ _____

SUBMIT VIA EMAIL PRINT APPLICATION

[1]Incentives have a threshold of 50% of the project cost and total incentives paid to a threshold of $25,000 and Bid4Efficiency above that.
[2]Self-Direct incentives are 75% of Total Requested Incentive, after 50% of the project cost threshold and tiering is applied.

PHILIPS

LED

InstantFit lamps

This is **real compatibility**

Other lamps claim compatibility, but only InstantFit has been proven to work with 50% more ballasts[1] delivering even light output, proven energy savings and a long average lifetime. That's true compatibility.

- **InstantFit works with 184 ballasts** — more than any other lamp — so you know it's going to perform as expected and keep you from having to redo any jobs
- **Proven over 40% energy savings**[2] over fluorescent means a satisfied customer and no time wasted going back to a job
- **Lifetime delivered** — average life rating of 50,000 hours[3], with up to 70,000[3] in the portfolio, means satisfied customers
- **Improved profit** and more time growing business instead of doing rework
- **Light quality and performance predictability**— consistent light output and no flicker means satisfied happy customers and no wasted time redoing a job.
- **Proven product history** and a company with a long history of innovation and reliability in the lighting industry.

See footnotes on last page

Philips InstantFit LED lamps

Philips InstantFit LED T8 lamps

Ordering, electrical and technical data (Subject to change without notice)

Product No.	Model No.	Ordering Code	Volts (Depending on Ballast)	Base	CRI	Color Temp. (K)	Pkg Qty	LED Lifetime[5]	MOL (In.)	Beam Angle
InstantFit LED T8 - 4'										
46826-4	9290011239	10T8/48-3000 IF 10/1	120-277, 347	G13	82	3000	10	50,000	48	160°
46827-2	9290011240	10T8/48-3500 IF 10/1	120-277, 347	G13	82	3500	10	50,000	48	160°
46828-0	9290011241	10T8/48-4000 IF 10/1	120-277, 347	G13	82	4000	10	50,000	48	160°
46829-8	9290011242	10T8/48-5000 IF 10/1	120-277, 347	G13	82	5000	10	50,000	48	160°
46956-9	9290011239	10T8/48-3000 IF 10/1 TAA/NAFTA	120-277, 347	G13	82	3000	10	50,000	48	160°
46957-7	9290011240	10T8/48-3500 IF 10/1 TAA/NAFTA	120-277, 347	G13	82	3500	10	50,000	48	160°
46958-5	9290011241	10T8/48-4000 IF 10/1 TAA/NAFTA	120-277, 347	G13	82	4000	10	50,000	48	160°
46959-3	9290011242	10T8/48-5000 IF 10/1 TAA/NAFTA	120-277, 347	G13	82	5000	10	50,000	48	160°
InstantFit LED T8 - 4' dimmable[4] high output										
46830-6	9290011585	14T8/48-3000 IF 10/1 DIM	120-277, 347	G13	82	3000	10	50,000	48	160°
46831-4	9290011586	14T8/48-3500 IF 10/1 DIM	120-277, 347	G13	82	3500	10	50,000	48	160°
46832-2	9290011587	14T8/48-4000 IF 10/1 DIM	120-277, 347	G13	82	4000	10	50,000	48	160°
46833-0	9290011588	14T8/48-5000 IF 10/1 DIM	120-277, 347	G13	82	5000	10	50,000	48	160°
46960-1	9290011585	14T8/48-3000 IF 10/1 DIM TAA/NAFTA	120-277, 347	G13	82	3000	10	50,000	48	160°
46961-9	9290011586	14T8/48-3500 IF 10/1 DIM TAA/NAFTA	120-277, 347	G13	82	3500	10	50,000	48	160°
46962-7	9290011587	14T8/48-4000 IF 10/1 DIM TAA/NAFTA	120-277, 347	G13	82	4000	10	50,000	48	160°
46963-5	9290011588	14T8/48-5000 IF 10/1 DIM TAA/NAFTA	120-277, 347	G13	82	5000	10	50,000	48	160°
InstantFit LED T8 - 4' ultra high output										
46313-3	9290012267	16 5T8 LED/48-3500 IF 10/1 UHO	120-277, 347	G13	82	3500	10	70,000	48	160°
46314-1	9290012268	16 5T8 LED/48-4000 IF 10/1 UHO	120-277, 347	G13	82	4000	10	70,000	48	160°
46315-8	9290012269	16 5T8 LED/48-5000 IF 10/1 UHO	120-277, 347	G13	82	5000	10	70,000	48	160°
InstantFit LED T8 - 4'glass										
45656-6	9290011511	17T8/48-4000 IFG 10/1	120-277, 347	G13	82	4000	10	36,000	48	240°
45657-4	9290011512	17T8/48-5000 IFG 10/1	120-277, 347	G13	82	5000	10	36,000	48	240°
InstantFit LED T8 - 3'										
46932-0	9290013113	9T8 LED/36-3000 IF 10/1	120-277, 347	G13	82	3000	10	50,000	36	160°
46933-8	9290013114	9T8 LED/36-3500 IF 10/1	120-277, 347	G13	82	3500	10	50,000	36	160°
46934-6	9290013115	9T8 LED/36-4000 IF 10/1	120-277, 347	G13	82	4000	10	50,000	36	160°
46935-3	9290013116	9T8 LED/36-5000 IF 10/1	120-277, 347	G13	82	5000	10	50,000	36	160°
InstantFit LED T8 - 2' high output										
46927-0	9290013108	7T8 LED/24-3000 IF 10/1	120-277, 347	G13	82	3000	10	50,000	24	160°
46928-8	9290013109	7T8 LED/24-3500 IF 10/1	120-277, 347	G13	82	3500	10	50,000	24	160°
46929-6	9290013110	7T8 LED/24-4000 IF 10/1	120-277, 347	G13	82	4000	10	50,000	24	160°
46930-4	9290013111	7T8 LED/24-5000 IF 10/1	120-277, 347	G13	82	5000	10	50,000	24	160°
InstantFit LED T8/T12 - 8'										
46923-9	9290013077	35T8/96-3000 IF FA8 10/1	120-277	FA8	82	3000	10	50000		160°
46924-7	9290013078	35T8/96-3500 IF FA8 10/1	120-277	FA8	82	3500	10	50000		160°
46925-4	9290013146	35T8/96-4000 IF FA8 10/1	120-277	FA8	82	4000	10	50000		160°
46926-2	9290013147	35T8/96-6500 IF FA8 10/1	120-277	FA8	82	6500	10	50000		160°
InstantFit LED T5 high output										
46712-6	9290012837	24T5 LED/HO/48-3000 IF 10/1	120-277, 347-480V	G5	82	3000	10	50,000	46	160°
46713-4	9290012838	24T5 LED/HO/48-3500 IF 10/1	120-277, 347-480V	G5	82	3500	10	50,000	46	160°
46714-2	9290012839	24T5 LED/HO/48-4000 IF 10/1	120-277, 347-480V	G5	82	4000	10	50,000	46	160°
46715-9	9290012840	24T5 LED/HO/48-5000 IF 10/1	120-277, 347-480V	G5	82	5000	10	50,000	46	160°
InstantFit LED T8 U-Bent - 6" high output										
46937-9	9290013118	13T8 LED/24-3000 IF-6U 10/1	120-277, 347	G13	82	3000	10	50,000	24	160°
46938-7	9290013119	13T8 LED/24-3500 IF-6U 10/1	120-277, 347	G13	82	3500	10	50,000	24	160°
46939-5	9290013120	13T8 LED/24-4000 IF-6U 10/1	120-277, 347	G13	82	4000	10	50,000	24	160°
46940-3	9290013121	13T8 LED/24-5000 IF-6U 10/1	120-277, 347	G13	82	5000	10	50,000	24	160°
InstantFit LED 4-Pin long compact (PL-L) - 2' high output										
45663-2	9290011513	16 5PL-LED/24-3000 IF 10/1	120-277	2G11	82	3000	10	40,000	24	160°
45664-0	9290011514	16 5PL-LED/24-3500 IF 10/1	120-277	2G11	82	3500	10	40,000	24	160°
45665-7	9290011515	16 5PL-LED/24-4000 IF 10/1	120-277	2G11	82	4000	10	40,000	24	160°
LED InstantFit - 4' ROT										
46865-2	9290013033	14T8/48-3000 IF 10/1 ROT	120-277, 347	G13	82	3000	10	50,000	48	160°
46866-0	9290013034	14T8/48-3500 IF 10/1 ROT	120-277, 347	G13	82	3500	10	50,000	48	160°
46867-8	9290013035	14T8/48-4000 IF 10/1 ROT	120-277, 347	G13	82	4000	10	50,000	48	160°
46868-6	9290013036	14T8/48-5000 IF 10/1 ROT	120-277, 347	G13	82	5000	10	50,000	48	160°

Please refer to www.philips.com/instantfit for instant start ballasts details and the latest ballast compatibility guide[6].

For more information on Philips' limited warranty please visit www.philips.com/warranties.

See footnotes on last page

Many lamps claim compatibility. **InstantFit proves it.**

APPROVED

Philips InstantFit LED lamps

Philips InstantFit LED T8 lamps

Ballast technical data (Subject to change without notice)

Product No.	Bare Lamp Watts (W)	Average System Watts (W)			Initial Lumens[2]		
		Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)	Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)
InstantFit LED T8 - 4'							
46826-4	10.0	11.0	13.0	16.0	1300	1500	1700
46827-2	10.0	11.0	13.0	16.0	1300	1500	1800
46828-0	10.0	11.0	13.0	16.0	1400	1600	1850
46829-8	10.0	11.0	13.0	16.0	1400	1600	1850
46956-9	10.0	11.0	13.0	16.0	1300	1500	1700
46957-7	10.0	11.0	13.0	16.0	1300	1500	1800
46958-5	10.0	11.0	13.0	16.0	1400	1600	1850
46959-3	10.0	11.0	13.0	16.0	1400	1600	1850
InstantFit LED T8 - 4' dimmable[4] high output							
46830-6	14.0	15.0	17.0	23.0	1800	2000	2700
DLC 46831-4	14.0	15.0	17.0	23.0	1800	2000	2700
46832-2	14.0	15.0	17.0	23.0	1900	2100	2800
46833-0	14.0	15.0	17.0	23.0	1900	2100	2800
46960-1	14.0	15.0	17.0	23.0	1800	2000	2700
46961-9	14.0	15.0	17.0	23.0	1800	2000	2700
46962-7	14.0	15.0	17.0	23.0	1900	2100	2800
46963-5	14.0	15.0	17.0	23.0	1900	2100	2800
InstantFit LED T8 - 4' ultra high output							
46313-3	16.5	18.0	20.0	27.0	2200	2400	2950
46314-1	16.5	18.0	20.0	27.0	2250	2500	3050
46315-8	16.5	18.0	20.0	27.0	2250	2500	3050
InstantFit LED T8 - 4' glass							
45656-6	17	18.0	20.0	26.5	1850	2100	2450
45657-4	17	18.0	20.0	26.5	1850	2100	2450
InstantFit LED T8 - 3'							
46932-0	9	10.5	11.5	15.5	950	1100	1300
46933-8	9	10.5	11.5	15.5	950	1100	1300
46934-6	9	10.5	11.5	15.5	1050	1200	1400
46935-3	9	10.5	11.5	15.5	1050	1200	1400
InstantFit LED - 2' high output							
46927-0	7	8.5	9.5	13.5	950	1050	1200
46928-8	7	8.5	9.5	13.5	950	1050	1200
46929-6	7	8.5	9.5	13.5	1050	1150	1300
46930-4	7	8.5	9.5	13.5	1050	1150	1300
InstantFit LED T8/T12 - 8'							
46923-9	35	N/A	41.0	N/A	N/A	4000	N/A
OTHER 46924-7	35	N/A	41.0	N/A	N/A	4000	N/A
46925-4	35	N/A	41.0	N/A	N/A	4200	N/A
46926-2	35	N/A	41.0	N/A	N/A	4200	N/A
InstantFit LED T5 high output							
46712-6	24	N/A	28.0	N/A	N/A	3300	N/A
46713-4	24	N/A	28.0	N/A	N/A	3300	N/A
46714-2	24	N/A	28.0	N/A	N/A	3500	N/A
46715-9	24	N/A	28.0	N/A	N/A	3500	N/A
InstantFit LED T8 U-Bent - 6" high output							
46937-9	13.0	14.0	16.0	21.0	1800	2000	2700
46938-7	13.0	14.0	16.0	21.0	1800	2000	2700
46939-5	13.0	14.0	16.0	21.0	1900	2100	2800
46940-3	13.0	14.0	16.0	21.0	1900	2100	2800
InstantFit LED 4-Pin long compact (PL-L) - 2' high output							
45663-2	16.5	N/A	21.0	N/A	N/A	1900	N/A
45664-0	16.5	N/A	21.0	N/A	N/A	2000	N/A
45665-7	16.5	N/A	21.0	N/A	N/A	2100	N/A
LED InstantFit - 4' ROT							
46865-2	15.0	16.0	18.0	26.5	1800	2000	2700
46866-0	15.0	16.0	18.0	26.5	1800	2000	2700
46867-8	15.0	16.0	18.0	26.5	1900	2100	2800
46868-6	15.0	16.0	18.0	26.5	1900	2100	2800

See footnotes on last page

Philips InstantFit LED lamps

System power compatibility guide

Measured system wattage of the Philips InstantFit LED T8 versus a comparable linear fluorescent lamp when used with the reference ballast.

Reference Ballast	ICN-1P32-N	ICN-2P32-N	ICN-3P32-N	ICN-4P32-N
Ballast Factor	0.88	0.88	0.88	0.88
Number of Lamps	1	2	3	4

Lamp Type	System Power (W)[7]			
F32T8	31	59	85	112
InstantFit 12 W	12.5	27.5	40	58
InstantFit 15 W	24	35.5	46	63

Philips InstantFit LED PLC 4-pin and T8 electro magnetic compatible lamps

Ordering, electrical and technical data (Subject to change without notice)

Product No.	Model No.	Ordering Code	Volts (Depending on Ballast)	Bare Lamp Watts	Avg. System Watts	Equiv. Watts	Base	CRI	Color Temp. (K)	Lumens	Life[5]	Beam Angle
InstantFit LED 4-pin lamps												
45836-4	9290011807	8.5PL-C/T LED/26H-2700 IF 4P	100-277, 347	8.5	10.5	26	G24q/ GX24	>80	2700	900	40000	120
45837-2	9290011808	8.5PL-C/T LED/26H-3000 IF 4P	100-277, 347	8.5	10.5	26	G24q/ GX24	>80	3000	900	40000	120
45838-0	9290011809	8.5PL-C/T LED/26H-3500 IF 4P	100-277, 347	8.5	10.5	26	G24q/ GX24	>80	3500	900	40000	120
45839-8	9290011810	8.5PL-C/T LED/26H-4000 IF 4P	100-277, 347	8.5	10.5	26	G24q/ GX24	>80	4000	950	40000	120
45840-6	9290011811	10.5PL-C/T LED/26V-2700 IF 4P	100-277, 347	10.5	14.5	26	G24q/ GX24	>80	2700	1200	40000	120
45841-4	9290011812	10.5PL-C/T LED/26V-3000 IF 4P	100-277, 347	10.5	14.5	26	G24q/ GX24	>80	3000	1200	40000	120
45842-2	9290011813	10.5PL-C/T LED/26V-3500 IF 4P	100-277, 347	10.5	14.5	26	G24q/ GX24	>80	3500	1200	40000	120
45843-0	9290011814	10.5PL-C/T LED/26V-4000 IF 4P	100-277, 347	10.5	14.5	26	G24q/ GX24	>80	4000	1300	40000	120

Product No.	Model No.	Ordering Code	Volts (Depending on Ballast)	Base	CRI	Color Temp. (K)	LED Liftetime (hrs.)[5]	MOL (In.)	Beam Angle
InstantFit LED T8 EM compatible – 4' glass									
46311-7	9290012265	20T12 EM LED/48-4000 IF G	120-277, 347	G13	83	4000	36,000	48	240°
46312-5	9290012266	20T12 EM LED/48-6500 IF G	120-277, 347	G13	83	6500	36,000	48	240°

Product No.	Bare Lamp Watts (W)	Average System Watts (W)			Initial Lumens[5]		
		Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)	Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)
InstantFit LED T8 EM compatible – 4' glass							
46311-7	20	20	23	31	1850	2100	2800
46312-5	20	20	23	31	1850	2100	2800

Suitable for use in fixtures where ambient temperature is between -4°F (-20°C) and 113°F (45°C).

System wattage of the Philips InstantFit T8 vs a comparable linear T12[8]

Ballast Model No.	Manufacturer	System Voltage	No. of Lamps	System Power (W) T12 Fluorescent	System Power (W) T8 LED	Energy Savings (%)[9]
R-140-1-TP	Philips Advance	120	1	52.1	26.1	50.0%
RL-140-TP	Philips Advance	120	1	32.8	25.6	21.7%
R-2S40-1-TP	Philips Advance	120	2	88.9	47.1	47.0%
XQM-2S40-TP	Philips Advance	220	2	95.5	51.9	45.6%
V-2S40-1-TP	Philips Advance	277	2	90.2	45.3	49.8%
RQM-2S40-3-TP	Philips Advance	120	2	86.9	46.4	46.6%
R-2S34-TP-5	Philips Advance	120	2	81.1	41.5	48.8%
V-2S34-TP	Philips Advance	277	2	79.2	42.6	46.3%
RM-2S35-TP	Philips Advance	120	2	60.9	41.2	32.4%

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Philips InstantFit LED lamps

Philips InstantFit LED T8 lamps

Shipping data (Subject to change without notice)

Product Number	SKU UPC (0-46677)	Outer Bar Code (5-00-46677)	Case Qty.	Case Weight (lbs.)	Case Cube (cu. Ft.)	Pallet Qty	Lamps/ SKU	SKUs per Layer	Layers High	SKU Dimensions (L x W x H) (in.)	Case Dimensions (L x W x H) (in.)	Pallet Dimensions (L x W x H) (in.)
InstantFit LED T8 - 4'												
46826-4	47219-1	46826-7	10	6.2	0.4	1120	1	70	16		49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46827-2	47220-7	46827-4	10	6.2	0.4	1120	1	70	16		49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46828-0	47221-4	46828-1	10	6.2	0.4	1120	1	70	16		49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46829-8	47222-1	46829-8	10	6.2	0.4	1120	1	70	16	To be	49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46956-9	47260-3	46956-1	10	9.7	0.6	600	1	60	10	determined	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46957-7	47261-0	46957-8	10	9.7	0.6	600	1	60	10		48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46958-5	47262-7	46958-5	10	9.7	0.6	600	1	60	10		48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46959-3	47263-4	46959-2	10	9.7	0.6	600	1	60	10		48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
InstantFit LED T8 - 4' dimmable high output												
46830-6	47223-8	46830-4	10	6.2	0.4	1120	1	70	16		49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46831-4	47224-5	46831-1	10	6.2	0.4	1120	1	70	16		49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46832-2	47225-2	46832-8	10	6.2	0.4	1120	1	70	16		49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46833-0	47226-9	46833-5	10	6.2	0.4	1120	1	70	16	To be	49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46960-1	47264-1	46960-8	10	9.7	0.6	600	1	60	10	determined	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46961-9	47265-8	46961-5	10	9.7	0.6	600	1	60	10		48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46962-7	47266-5	46962-2	10	9.7	0.6	600	1	60	10		48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46963-5	47267-2	46963-9	10	9.7	0.6	600	1	60	10		48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
InstantFit LED T8 - 4' ultra high output												
46313-3	46313-7	46313-2	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46314-1	46314-4	46314-9	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
46315-8	46315-1	46315-6	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
InstantFit LED T8 - 4' glass												
45656-6	45656-6	45656-1	10	9.7	1.06	360	1	40	10	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4
45657-4	45657-3	45657-8	10	9.7	1.06	360	1	40	10	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4
InstantFit LED T8 - 3'												
46932-0	47231-3	46932-5	10	4.5	0.3	1440	1	90	16	35.7 x 1.0 x 1.0	37.1 x 5.4 x 2.7	50.6 x 39.4 x 48.6
46933-8	47232-0	46933-2	10	4.5	0.3	1440	1	90	16	35.7 x 1.0 x 1.0	37.1 x 5.4 x 2.7	50.6 x 39.4 x 48.6
46934-6	47233-7	46934-9	10	4.5	0.3	1440	1	90	16	35.7 x 1.0 x 1.0	37.1 x 5.4 x 2.7	50.6 x 39.4 x 48.6
46935-3	47234-4	46935-6	10	4.5	0.3	1440	1	90	16	35.7 x 1.0 x 1.0	37.1 x 5.4 x 2.7	50.6 x 39.4 x 48.6
InstantFit LED T8 - 2' high output												
46927-0	47227-6	46927-1	10	2.6	0.2	2240	1	140	16	23.7 x 1.0 x 1.0	25.3 x 5.8 x 2.7	51.1 x 39.4 x 48.6
46928-8	47228-3	46928-8	10	2.6	0.2	2240	1	140	16	23.7 x 1.0 x 1.0	25.3 x 5.8 x 2.7	51.1 x 39.4 x 48.6
46929-6	47229-0	46929-5	10	2.6	0.2	2240	1	140	16	23.7 x 1.0 x 1.0	25.3 x 5.8 x 2.7	51.1 x 39.4 x 48.6
46930-4	47230-6	46930-1	10	2.6	0.2	2240	1	140	16	23.7 x 1.0 x 1.0	25.3 x 5.8 x 2.7	51.1 x 39.4 x 48.6
InstantFit LED T8/T12 - 8'												
46923-9	46923-8	46923-3	10	16.7	2.1	300	1	30	10	0.0 x 0.0 x 0.0	95.9 x 9.4 x 3.9	96.4 x 29.9 x 45.2
46924-7	46052-5	46052-0	10	16.7	2.1	300	1	30	10	0.0 x 0.0 x 0.0	95.9 x 9.4 x 3.9	96.4 x 29.9 x 45.2
46925-4	46925-2	46925-7	10	16.7	2.1	300	1	30	10	0.0 x 0.0 x 0.0	95.9 x 9.4 x 3.9	96.4 x 29.9 x 45.2
46926-2	46926-9	46926-4	10	16.7	2.1	300	1	30	10	0.0 x 0.0 x 0.0	95.9 x 9.4 x 3.9	96.4 x 29.9 x 45.2
InstantFit LED T5 high output												
46712-6	46712-8	46712-3	10	4.7	0.2	2000	1	100	20	0.0 x 0.0 x 0.0	46.3 x 4.0 x 2.1	47.2 x 40.6 x 47.6
46713-4	46713-5	46713-0	10	4.7	0.2	2000	1	100	20	0.0 x 0.0 x 0.0	46.3 x 4.0 x 2.1	47.2 x 40.6 x 47.6
46714-2	46714-2	46714-7	10	4.7	0.2	2000	1	100	20	0.0 x 0.0 x 0.0	46.3 x 4.0 x 2.1	47.2 x 40.6 x 47.6
46715-9	46715-9	46715-4	10	4.7	0.2	2000	1	100	20	0.0 x 0.0 x 0.0	46.3 x 4.0 x 2.1	47.2 x 40.6 x 47.6
InstantFit LED U-Bent - 6" high output												
46937-9	47235-1	46937-0	10	8.2	1.2	300	1	100	3	22.4 x 7.1 x 1.1	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
46938-7	47236-8	46938-7	10	8.2	1.2	300	1	100	3	22.4 x 7.1 x 1.1	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
46939-5	47237-5	46939-4	10	8.2	1.2	300	1	100	3	22.4 x 7.1 x 1.1	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
46940-3	47238-2	46940-0	10	8.2	1.2	300	1	100	3	22.4 x 7.1 x 1.1	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
InstantFit LED 4-Pin long compact (PL-L) - 2' high output												
45663-2	45663-4	45663-9	10	4.7	0.3	1200	1	150	8	23.3 x 0.5 x 4.3	23.3 x 5.0 x 4.3	47.3 x 39.4 x 40.2
45664-0	45664-1	45664-6	10	4.7	0.3	1200	1	150	8	23.3 x 0.5 x 4.3	23.3 x 5.0 x 4.3	47.3 x 39.4 x 40.2
45665-7	45665-8	45665-3	10	4.7	0.3	1200	1	150	8	23.3 x 0.5 x 4.3	23.3 x 5.0 x 4.3	47.3 x 39.4 x 40.2
LED InstantFit - 4' ROT												
46865-2	47268-9	46865-6	10	6.21	0.4	1120	1	70	16	0.0 x 0.0 x 0.0	49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46866-0	47269-6	46866-3	10	6.21	0.4	1120	1	70	16	0.0 x 0.0 x 0.0	49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46867-8	47270-2	46867-0	10	6.21	0.4	1120	1	70	16	0.0 x 0.0 x 0.0	49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7
46868-6	47271-9	46868-7	10	6.21	0.4	1120	1	70	16	0.0 x 0.0 x 0.0	49.3 x 5.5 x 2.7	50.4 x 39.4 x 48.7

See footnotes on last page

Philips InstantFit LED lamps

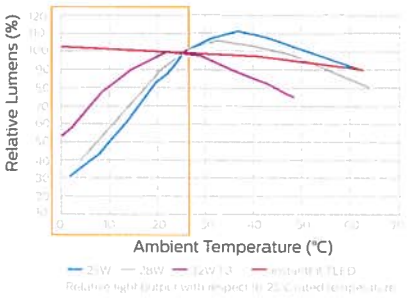
Philips InstantFit LED PLC 4-pin and T8 electro magnetic compatible lamps

Shipping Data (Subject to change without notice)

Product Number	SKU UPC (0-46677)	Outer Bar Code (5-00-46677)	Case Qty.	Case Weight (lbs.)	Case Cube (cu. Ft.)	Pallet Qty	Lamps/ SKU	SKUs per Layer	Layers High	SKU Dimensions (W x D x H) (In.)	Case Dimensions (W x D x H) (In.)	Pallet Dimensions (W x D x H) (In.)
InstantFit LED 4-pin lamps												
45836-4	45836-2	45836-7	10	2.26	0.113	3250	1	650	5	1.3 x 1.3 x 6.4	8 x 3.4 x 7.2	47.2 x 39.4 x 41.6
45837-2	45837-9	45837-4	10	2.26	0.113	3250	1	650	5	1.3 x 1.3 x 6.4	8 x 3.4 x 7.2	47.2 x 39.4 x 41.6
45838-0	45838-6	45838-1	10	2.26	0.113	3250	1	650	5	1.3 x 1.3 x 6.4	8 x 3.4 x 7.2	47.2 x 39.4 x 41.6
45839-8	45839-3	45839-8	10	2.26	0.113	3250	1	650	5	1.3 x 1.3 x 6.4	8 x 3.4 x 7.2	47.2 x 39.4 x 41.6
45840-6	45840-9	45840-4	10	2.55	0.129	2100	1	350	6	2 x 2 x 4.9	11 x 4.5 x 4.5	47.2 x 39.4 x 39.8
45841-4	45841-6	45841-1	10	2.55	0.129	2100	1	350	6	2 x 2 x 4.9	11 x 4.5 x 4.5	47.2 x 39.4 x 39.8
45842-2	45842-3	45842-8	10	2.55	0.129	2100	1	350	6	2 x 2 x 4.9	11 x 4.5 x 4.5	47.2 x 39.4 x 39.8
45843-0	45843-0	45843-5	10	2.55	0.129	2100	1	350	6	2 x 2 x 4.9	11 x 4.5 x 4.5	47.2 x 39.4 x 39.8
InstantFit LED T8 EM compatible - 4' glass												
46311-7	46311-3	46311-8	10	6.26	1.06	360	1	40	9	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4
46312-5	46312-0	46312-5	10	6.26	1.06	360	1	40	9	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4

Relative Light Output vs. Ambient Temperature

4' T8 Lamps - 0.88 BF Ballast



Suitable for use in fixtures where ambient temperature is between -4°F (-20°C) and 113°F (45°C).

Warning: Philips LED T8 InstantFit lamps will only operate properly on compatible Instant-start and Programmed-start ballasts. Please refer to the Philips LED T8 InstantFit Installation Guide, which can be obtained through your local Philips Sales Representative, or visit www.philips.com/instantfit

FCC Note: This device complies with Part 18 of the FCC Rules.

1 Based on the next leading competitor and their number of compatible ballasts at time of printing
2 Savings based on comparison to F32T8 electronic instant start systems
3 Tested to B50 L70 requirement with a ballast factor < 0.88
4 (2) Lamp F32T8 electronic instant start system with 0.88 ballast factor = 58 system watts. (2) Philips InstantFit LED T8 =29 system watts. 58 - 29 = 29 system watts saved and 29/58 = 50% energy saved
5 LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70). Testing with a ballast whose ballast factor is ≤ 0.88
6 Compatibility subject to change as additional ballasts are tested. If you do not see your ballast on the compatibility list please contact your local Philips Lighting representative
7 Photometric testing consistent with IES LM-79
8 Measured data provided as a reference. System power may vary depending on ballast manufacturer and ballast age. Please refer to www.philips.com/instantfit for the latest ballast compatibility guide
9 (1) Lamp F40T12 rapid start system = 52 system watts. (1) Philips InstantFit LED T8 = 26 system watts. 52 – 26 = 26 system watts saved and 26/52 = 50% energy saved
● This lamp is DLC 4.0 qualified.
● Products offered under the Trade Agreements Act (TAA).
For more information, visit http://www.va.gov/oal/business/fss/taa.asp

PLt-1309BN 01/17 philips.com/lighting

Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

Summary: Application - The Kroger Company 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