

Roane County is requesting proposals for the good(s) and/or service(s) listed below, subject to the terms and conditions of the Request for Proposal (RFP), the accompanying specifications, and the Roane County Purchasing Manual.

If this is a request for services, disregard any reference to product information.

At the appointed time proposals will be publicly opened in the office of the Roane County Purchasing Agent at the address below. Proposals arriving in the Purchasing Department past the appointed date and time will be considered late and will not be opened.

**Deliver Proposals To:**

ROANE COUNTY PURCHASING DEPARTMENT  
200 EAST RACE STREET, SUITE #3  
KINGSTON, TENNESSEE 37763

**Proposal Number: 2017-1021-AF  
L.E.D LAMPS**

**Open Date & Time: June 22, 2017 at 2:00 p.m. (Eastern Time Zone)**

The Proposal Envelope must show the Proposal Number, Name & Opening Date.

**PURCHASING CONTACT INFORMATION**

**Lynn Farnham, CPPO, CPPB  
Purchasing Agent  
Phone: 865-376-4317  
Fax: 865-376-4318  
Email: [lynn.farnham@roanecountytn.gov](mailto:lynn.farnham@roanecountytn.gov)**

**GENERAL TERMS & CONDITIONS**

1. Attached are instructions and conditions for submitting a proposal for Roane County Government. The objective of this proposal is to select suppliers in such a manner as to provide for open and free competition and comparability.

## **PROPOSAL PREPARATION & SUBMISSION**

1. All proposals shall be in accordance with the instructions to proposers and specifications included in this RFP. Specifications are intended to be open and non-restrictive.
2. The use of the name of a manufacturer, brand, model or make used in describing an item does not restrict the proposer to that manufacturer. Others will be considered if they meet or exceed the items specified. When an alternate manufacturer, brand, model or make will be proposal, five (5) days prior to the proposal the proposer must submit documents to the Purchasing Agent, for evaluation of the product. Roane County will determine if the item does meet or exceed the item as specified.
3. It shall be the sole responsibility of the proposer to make certain that all proposals in proper form are submitted to the Purchasing Department as described below.
4. All original forms must be signed by a person with authority to bind the proposal. The proposal must be sealed in an envelope that is labeled according to the directions stated below.
5. On the outside of the envelope/package mark the proposal as follows:
  - Vendor Name & Address
  - Proposal Number
  - Proposal Date & Time
6. The proposal must then be in a sealed envelope/package mailed or delivered to the following address:

Roane County Purchasing Department  
200 East Race Street, Suite #3  
Kingston, Tennessee 37763

**Please note that Roane County does not receive a guaranteed delivery time for express mail and/or packages; please mail accordingly.**

7. Sealed written proposals will be received at the time and place specified on the RFP. Postmark on the proposal by this date will not suffice. Proposal must be received on or before the date and time stated. Faxed proposal documents will not be accepted.

## **LATE RECEIPT OF THE PROPOSAL**

1. The proposal and modifications or withdrawals thereof received after the time set for opening will not be considered, unless they are received before the award is made and it is determined by Roane County that failure to arrive on time was due solely to a delay in delivery for which the proposer has no responsibility.
2. Proposals must be in the Purchasing Department prior to 2:00 p.m. on the appointed date. Time will be determined by the clock in the Roane County Purchasing Department and once Purchasing Agent/or their designee determines the time is 2:00 p.m., no other proposals will be accepted.

## **RESTRICTIVE OR AMBIGUOUS SPECIFICATIONS**

1. It is the responsibility of the proposer to review the entire RFP document and to notify the Purchasing Agent if the RFP is formulated in a manner that would unnecessarily restrict competition or if it is ambiguous in what is being requested.
2. Pursuant to TCA §12-4-126, questions regarding the specifications or proposal procedures must be received by the Purchasing Agent and/or designer no less than ninety-six (96) hours before the bid opening date. No addenda will be issued within less than forty-eight (48) hours of the bid opening day, excluding

weekends and legal holidays designated in §15-1-101 unless the proposal opening is extended for a reasonable time as determined by the Purchasing Agent, which shall not be less than forty-eight (48) hours excluding weekends and legal holidays designated in §15-1-101, to allow for any necessary changes to the RFP documents and to allow responders to resubmit their responses accordingly.

3. Any questions concerning this RFP are to be in writing either by fax or email to the Purchasing Department. Questions will be answered via addenda. Information obtained from any office other than the Purchasing Office is not to be considered binding.

### **PROPOSAL OPENING & ACCEPTANCE OF PROPOSAL**

1. Proposal pricing will be read aloud at the discretion of the Purchasing Agent. Proposals will also be examined for compliance with specification and conditions outlined in the proposal document.
2. Consideration will be given to all proposals properly submitted. Proposals will receive appropriate confidentiality before awarding. Upon award, proposal documents and tabulations will be available for review. Errors discovered after public opening cannot be corrected, and the proposer will be bound to honor proposal as submitted.
3. The contract will be awarded in writing to the most responsive proposer whose proposal conforms best to the RFP will be most advantageous to Roane County. The evaluation of criteria, cost, and other factors will be taken into consideration. It is the intent of Roane County to involve and utilize the best product/services at the best prices and provide small and minority firms, women's business enterprises and labor surplus area firms with increased opportunity to do business with the county. However, currently there are no set asides for small or minority firms.
4. Roane County reserves the right to accept or reject any or all proposals and to waive informalities and minor irregularities in the proposals received. All proposers will be notified in writing of the proposal award generally within ten (10) days of proposal opening unless unforeseen circumstances arise or special conditions exist.

### **EVALUATION REVIEW**

1. Roane County reserves the right to use all pertinent information that might affect the County's judgment as to the appropriateness of an award to the best-evaluated proposer. This information may be appended to the proposal evaluation process results. Information on a service provider from reliable sources, and not within the service provider's proposal, may also be noted and made part of the evaluation file. Roane County shall have sole responsibility for determining a reliable source. Roane County reserves the right to conduct written and/or oral discussions/interviews after the proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of Roane County.
2. Evaluation criteria will be determined on each RFP.

### **PROTEST PROCEDURE**

1. If a prospective vendor does not agree with the proposal award, they have the right to protest. Disputes arising from the award of this proposal must be submitted in writing to the Roane County Purchasing Department no later than seven (7) days from date of proposal award. The steps for dispute resolution may include:
  - A meeting with the Purchasing Agent, the requisitioning department's manager and representatives from the disputing party to discuss and resolve the complaint.
  - Information from the aforementioned meeting will be forwarded to the County Attorney for review.

- A written decision letter stating the reasons for the decision will be prepared by the Purchasing Agent and submitted in writing to the protestor and all parties involved.
- Purchases will not be allowed under this procurement until a final decision is rendered.
- In the event that purchases must be made before a final decision is rendered, the emergency purchase procedures will be used.

### **APPROPRIATION**

1. In the event no funds are appropriated by Roane County for the goods or services in any fiscal year or insufficient funds exist to purchase the goods or services, then the contract shall expire upon the expenditure of previously appropriated funds or the end of the current fiscal year, whichever occurs first, with no further obligations owed to or by either party.

### **INSURANCE**

1. The contractor will maintain, at their expense adequate insurance coverage to protect them from claims arising under the Worker's Compensation Act, from claims for damages resulting from bodily injuries and damage to their property, for Bodily Injury and Property Damage Liability in the amount of no less than \$1,000,000, for Products and Completed Operations Liability of no less than \$1,000,000 and from claims for damage to any Roane County property. Additional insurance requirements may be listed any Special Terms & Conditions or in the Bid Specifications. This insurance company shall have a Best's rating of A or better. Any deviations from the above requirements must be disclosed in the bid submission.
2. The successful bidder shall furnish a Certificate of Insurance issued by their insurance company showing that Roane County as an additional insured. Carrier will assume full common liability of all shipments.

### **COMPLIANCE WITH ALL LAWS**

1. Contractor is assumed to be familiar with and agrees to observe and comply with all federal, state, and local laws, statutes, ordinances, and regulations in any manner affecting the provision of goods and/or services, and all instructions and prohibitive orders issued regarding this work and shall obtain all necessary permits.

### **GOVERNING LAW**

1. This contract shall be governed by the laws of the State of Tennessee, and all obligations of the parties are performable in Roane County, Tennessee. The Courts in Roane County shall have exclusive and concurrent jurisdiction of any disputes which arise hereunder.

### **BUSINESS LICENSES**

1. Vendors located in Tennessee are required to have a current business license issued by the State of Tennessee at the time the bids are submitted. Vendors located outside Tennessee are required to obtain a business license issued by the State of Tennessee.
2. A Business Tax & License Affidavit is required to be submitted with the bid.

## **INDEMNIFICATION/HOLD HARMLESS**

1. Contractor shall indemnify, defend, save and hold harmless all departments of Roane County Government and/or the Roane County Board of Education, its officers, agents and employees from all suits, claims, actions or damages of any nature brought because of, arising out of, or due to breach of the agreement by Contractor, its subcontractors, supplier, agents or employees or due to any negligent act or occurrence or any omission or commission of the contractor, its subcontractors, suppliers, agents or employees until the contract terminates.

## **VENDOR PERFORMANCE**

1. If the contractor fails in full or part to perform or comply with any provision of this Contract or the terms or conditions of any documents referenced and made a part hereof, Roane County may terminate this contract, in whole or in part, and may consider such failure or noncompliance a Breach of Contract. Contractors with poor performance will be notified at the time of such performance and be given opportunity to correct the problems. Documentation will be kept on file. Any contractor with continued poor performance will be removed from the potential vendor list for one year.
2. Roane County expressly retains all its rights and remedies provided by law in case of such breach, and no action by Roane County shall constitute a waiver of any such rights or remedies. In the event of termination for default, Roane County reserves the right to purchase its requirements elsewhere, with or without competitive proposal.

## **BREACH OF CONTRACT**

1. A party shall be deemed to have breached the contract if any of the following occurs:
  - Failure to provide products or services that conform to contract requirements.
  - Failure to maintain/submit any report required hereunder.
  - Failure to perform in full or in part any of the other conditions of the contract.
  - Violation of any warranty.

## **CONTRACT TERMINATION FOR CAUSE**

1. If the contractor fails to properly perform its obligations under this contract in a timely or proper manner, or if the contractor violates any terms of this contract, the county shall have the right to terminate the contract and withhold payments in excess of fair compensation for completed services.
2. In the event the contract is terminated for due cause by the county, the county shall have the option of awarding the contract to the next lowest proposer or proposing again.

## **CONTRACT TERMINATION FOR CONVENIENCE**

1. The county may, by written notice to the contractor, terminate this contract without cause for any reason. Said termination shall not be deemed a Breach of Contract by the county. The county must give notice of termination to the vendor at least thirty (30) days prior to the effective date of termination. The contractor shall be entitled to receive compensation for satisfactory, authorized service completed as of the termination date, but in no event shall the county be liable to the contractor for compensation for any service which has not been rendered. Upon such termination, the vendor shall have no right to any actual general, special, incidental, consequential, or any other damages whatsoever of any description or amount.

## **BOOKS AND RECORDS**

1. The contractor shall maintain all books, documents, accounting records and other evidence pertaining to the services provided under this contract and make such materials available at its offices at all reasonable times during the contract period and for three (3) years from the date of the final payment under this agreement for inspection by county or by any other governmental entity or agency participating in the funding of this agreement, or any authorized agents thereof; copies of said records to be furnished if requested. Such records shall include those books, documents and accounting records that represent delivering the services governed by this agreement.

## **INVOICES AND PAYMENTS**

1. Payment will be made within 30 days after receipt of invoice and/or delivery of items included in this Request for Proposal, whichever is later.
2. Roane County Government is not subject to taxation. A tax exemption certificate will be provided upon request.

## **NONDISCRIMINATION AND NON-CONFLICT STATEMENT**

1. Contractor agrees that no person on the grounds of handicap, age, race, color, religion, sex or national origin, shall be excluded from participation in, or be denied benefits of, or be otherwise subjected to discrimination in the performance of this agreement, or in the employment practices of vendor. Contractor shall upon request show proof of such nondiscrimination, and shall post in conspicuous places available to all employees and applicants notices of non-discrimination. Contractor covenants that it complies with the Fair Wage and Hour Laws, the National Labor Relations Act, and other federal and state employment laws as applicable. Contractor covenants that it does not engage in any illegal employment practices.
2. Contractor covenants that it has no public or private interest, and shall not acquire directly or indirectly any interest; that would conflict in any manner with the provision of its goods or performance of its services. The contractor warrants that no part of the total contract amount provided herein shall be paid directly or indirectly to any officer or employee of Roane County as wages, compensation, or gifts in exchange for acting as officer, agent, employee, subcontractor or consultant to contractor in connection with any goods provided or work contemplated or performed relative to the agreement.
3. No employee or member of the Roane County's governing bodies shall participate in the selection or award of a contract if a conflict of interest, real or apparent, would be involved.
4. Officers, employees or officials of the Roane County Government shall neither solicit nor accept gratuities, favors or anything of more than nominal monetary value from vendors or parties to subcontracts.

**2017-1021-AF – L.E.D. LAMPS  
VENDOR INFORMATION SHEET**

(Please fill out completely)

By completing and signing this form you certify that you are an authorized representative of the company for which you are submitting a bid/proposal and that you have the authority to legally bind your company. Further, by completing and signing this form you certify that you agree to all the terms and conditions of this bid/proposal.

1. Vendor Name \_\_\_\_\_

2. Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

3. Contact Person (Please Print) \_\_\_\_\_

4. Telephone Number \_\_\_\_\_ Fax Number \_\_\_\_\_

5. Vendor's e-mail address \_\_\_\_\_

6. Authorizing Signature \_\_\_\_\_

7. Title of Person Signing Bid \_\_\_\_\_

8. If addenda were issued, please acknowledge the receipt of: (please write "yes" if you received one)  
Addendum 1 \_\_\_\_\_ Addendum 2 \_\_\_\_\_ Addendum 3 \_\_\_\_\_ Addendum 4 \_\_\_\_\_

9. If applicable, please indicate below if discounts will be allowed for prompt payment or if there is not discount offered:  
\_\_\_\_\_ % Net 10 Days; \_\_\_\_\_ % Net 20 Days; \_\_\_\_\_ % Net 30 Days; \_\_\_\_\_ No Discount

**COOPERATIVE PURCHASING** - Vendors are to indicate if it is permissible for other governmental agencies in the State of Tennessee to purchase these items or services at the same price. Freight charges may be adjusted to reflect differences in delivery costs to other locations. Please indicate the approval of Cooperative Purchasing.

\_\_\_\_\_ Yes \_\_\_\_\_ No

**SCHOOL CONTRACTS ONLY**

**CRIMINAL HISTORY RECORDS CHECK** – Do you agree to comply with Public Chapter 587 of 2007 which requires all contractors to facilitate a criminal history check, including fingerprinting, conducted by the Tennessee Bureau of Investigation and the Federal Bureau of Investigation for each employee or subcontractor personnel before permitting the employee or subcontractor personnel to have contact with students or enter school grounds?

\_\_\_\_\_ Yes \_\_\_\_\_ No

**2017-1021-AF – L.E.D. LAMPS  
NON –COLLUSION, INDEPENDENT PRICE DETERMINATION,  
NON-DISCRIMINATION, NON-DEBARMENT & LOBBYING AFFIDAVIT**

I do hereby certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud.

I understand that collusive pricing is a violation of State and Federal law and can result in fines, prison sentences, and civil damage awards and that no collusion with another firm was used in preparation of this bid.

I also certify that this firm does not discriminate against any employee or applicant for employment on the grounds of race, color, national origin or sex; and does not and will not maintain or provide for his employees any segregated facilities at any of its establishments, and further, that the firm does not and will not permit their employees to perform their services at any location under this contract where segregated facilities are maintained.

By submission of this bid, the bidder certifies that neither it or its principals is presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal or State department or agency.

I further certify that during the Invitation to Bid solicitation and/or during the performance of this contract that neither it nor its principals will participate in lobbying activities in conjunction with this project.

I agree to abide by all terms and conditions of this Invitation to Bid and certify that I am authorized to sign this affidavit for the vendor.

Please indicate which of the following apply to your company. This information is requested for information purposes only. Roane County currently has no policy that allows for set asides or preferences for woman owned or minority owned businesses.

\_\_\_\_\_ African American Owned  
\_\_\_\_\_ Caucasian Owned  
\_\_\_\_\_ Native American Owned  
\_\_\_\_\_ Other Owned

\_\_\_\_\_ Asian Owned  
\_\_\_\_\_ Hispanic Owned  
\_\_\_\_\_ Woman Owned

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title



**2017-1021-AF – L.E.D. LAMPS  
BUSINESS TAX & LICENSE AFFIDAVIT**

**Please sign the affidavit below stating that your company does have a Business License and that your Business Taxes are current. Companies located outside the State of Tennessee are required to have a Business License in Tennessee.**

The undersigned states that he/she has legal authority to swear this on behalf of \_\_\_\_\_ (Vendor); and that Vendor is not in any manner in violation of *Tennessee Code Annotated, §5-14-108(l)* which provides that *“no purchase shall be made or purchase order or contract of purchase issued for tangible personal property or services by county officials or employees, acting in their official capacity, from any firm or individual whose business tax or license is delinquent”*.

Affiant affirms and warrants that Contractor’s licenses are currently valid and all business taxes have been paid and are current as of the date of this affidavit. Contractor is licensed and pays business taxes in \_\_\_\_\_ County, Tennessee.

**VENDOR**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

**2017-1021-AF – L.E.D. LAMPS  
STATEMENT OF QUALIFICATION**

The following statements as to experience and general qualifications of the proposing firm as submitted in conjunction with the Request for Proposal as part thereof and truthfulness and accuracy of information is guaranteed by the proposing firm and included in the evaluation of the proposals.

Name & Address of Proposing Firm:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone \_\_\_\_\_

Fax Number \_\_\_\_\_

Number of years proposer has been in this business. \_\_\_\_\_

Proposing firm must have satisfactorily completed or currently maintained three (3) contracts of similar size in the last five (5) years.

Company \_\_\_\_\_

Contact Name \_\_\_\_\_

Telephone \_\_\_\_\_

Company \_\_\_\_\_

Contact Name \_\_\_\_\_

Telephone \_\_\_\_\_

Company \_\_\_\_\_

Contact Name \_\_\_\_\_

Telephone \_\_\_\_\_

**BID NUMBER 2017-1021-AF – L.E.D. LAMPS  
SPECIFICATIONS**

Roane County is requesting proposals for L.E.D lamps for county departments and Roane County Schools. The lamps are being purchased in conjunction with the EnergyRight® Solutions program. All firms bidding must be an approved vendor with TVA.

The initial purchase quantity for Roane County Schools will be 5,000 lamps. There are no estimates for county departments.

**COMPLIANCE**

1. If Contractor fails to perform or comply with any provision of this Contract or the terms or conditions of any documents referenced and made a part hereof, Roane County may terminate this Contract, in whole or in part, and may consider such failure or noncompliance a breach of Contract. Roane County expressly retains all its rights and remedies provided by law in case of such breach, and no action by Roane County shall constitute a waiver of any such rights or remedies. In the event of termination for default, Roane County reserves the right to purchase its requirements elsewhere, with or without competitive bidding.
2. Roane County does not guarantee any quantities of goods or services to be purchased from of this term Contract. Roane County does not have an exact dollar amount that was procured for these types of goods/services.

**TERM OF THE CONTRACT**

The term of the contract is for fiscal year beginning July 1, 2017 through June 30, 2018.

**CONTRACT RENEWAL**

Roane County reserves the right to renew all aspects of the contract one year at a time for an additional two (2) years based on a firm fixed price and in accordance with the same Terms & Conditions of the original Request for Proposal. Roane County Purchasing will notify the vendor of their intention to renew this contract prior to June 1 of the proposed renewal year. This renewal is not automatic and will be based on an annual review of the contract.

**DESCRIPTION OF LAMPS**

- Philips InstantFit 468298 (10T8/48-5000IF10/1) or preapproved equivalent
- Lamps must operate with applicable instant start fluorescent ballast found on the attached ballast compatibility list.
- Lamps must be UL Listed (Not UL Certified).
- NSF .
- RoHS Compliant.
- DLC 4.0 Compliant.
- Minimum 5 year Limited Warranty.
- Must be tested to B50, L70 requirements with a .88 ballast factor.
- Photometric testing must be consistent with IES LM-79
- Suitable for fixtures where ambient temperatures are between -20 C and 45 C
- Minimum 82 CRI
- Color Temperature 5000K
- Beam Angle 160 degrees
- Minimum LED average lifetime 50,000 hours
- Compliant with Part 18 of the FCC Rules
- Lamps must operate and be compatible with all applicable ballast on the attached ballast compatibility list
- Lamp wattage must not exceed 10 Watts
- Initial lumens – .78 BF – 1400 Lumens, 88 BF - 1600 Lumens, 1.18 BF – 1850 Lumens (Consistent with IES LM-79)

**AWARD CRITERIA**

The following will be used as evaluation criteria for the award of the contract.

- 30% - Energy Efficiency
- 30% - Warranty Period
- 20% - Lumen Output
- 20% - Price

Price per Lamp \$ \_\_\_\_\_

Warranty Period \_\_\_\_\_

Lumen Output \_\_\_\_\_

Price per Bulb \_\_\_\_\_

Brand & Part Number \_\_\_\_\_

# PHILIPS

## Ballast/driver compatibility guide

InstantFit LED lamps



### Applicable part numbers for all InstantFit lamps:

456566	456590	456616	456624	456632	456640	456657	458364	458380	458398	458406	458422
458430	463117	463125	463133	463158	467126	467142	467159	468264	468280	468306	468322
468694	468892	469061	469239	469254	469262	469270	469288	469304	469320	469338	469353
469379	469395	469403	469577	469593	469627	469635	469296	469346	456574	456608	458372
458414	463141	467134	468272	468298	468314	468330	469247	469387	469569	469585	469619

### InstantFit drivers<sup>7</sup>

		7W 1050lm (2ft.)	9W 1200lm (3ft.)	10W 1600lm (4ft.)	14W 2100lm (4ft.)	17W 2100lm (4ft. Glass)	16.5W 2500lm (4ft.)	13W 2100lm (U-Bent) <sup>3</sup>
		469270, 469288 469296, 469304	469320, 469338 469346, 469353	468264, 468272 468280, 468298 468694, 469569 469577, 469585 469593	468306, 468314 468322, 468330 469061, 469619 469627, 469635	456566, 456574 456590, 456608 456616, 456624	463133, 463141 463158, 468892	469379, 469387 469395, 469403
Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Philips Advance	ICN-2P16-TLED-N	System Certified	System Certified	System Certified	System Certified		System Certified	System Certified
Philips Advance	ICN-3P16-TLED-N	System Certified	System Certified	System Certified	System Certified		System Certified	System Certified
Philips Advance	ICN-4P16-TLED-N	System Certified	System Certified	System Certified	System Certified		System Certified	System Certified

Systems on this page are:



See footnotes on Page 10.

# T8 instant-start ballasts

		7W 1050lm (2ft.)	9W 1200lm (3ft.)	10W 1600lm (4ft.)	14W 2100lm (4ft.)	17W 2100lm (4ft. Glass)	16.5W 2500lm (4ft.)	13W 2100lm (U-Bent) <sup>3</sup>
		469270, 469288 469296, 469304	469320, 469338 469346, 469353	468264, 468272 468280, 468298 468694, 469569 469577, 469585 469593	468306, 468314 468322, 468330 469061, 469619 469627, 469635	456566, 456574 456590, 456608 456616, 456624	463133, 463141 463158, 468892	469379, 469387 469395, 469403
Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Philips Advance	ICN-1P32-N							
Philips Advance	ICN-2P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	ICN-3P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	ICN-4P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	IOPA-1P32-N	Not Recommended			Not Recommended	Not Recommended	Not Recommended	Not Recommended
Philips Advance	IOPA-2P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	IOPA-3P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	IOPA-4P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	IOPA-2P32-LW-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	IOPA-3P32-LW-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	IOPA-4P32-LW-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	IOPA-1P32-HL-N	System Certified	System Certified	System Certified	System Certified	System Certified		
Philips Advance	IOPA-2P32-HL-N	System Certified	System Certified	System Certified		System Certified	System Certified	System Certified
Philips Advance	IOPA-3P32-HL-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	IOPA-4P32-HL-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	GOPA-1P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	GOPA-2P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	GOPA-3P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	GOPA-4P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	GOPA-2P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	GOPA-2P32-LW-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	GOPA-1P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	GOPA-2P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	GOPA-3P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	GOPA-4P32-LW-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	RES-2P32-N	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Advance	REB-2P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Philips Advance	REB-4P32-SC	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified

See footnotes on Page 10.

# T8 instant-start ballasts

		7W 1050lm (2ft.)	9W 1200lm (3ft.)	10W 1600lm (4ft.)	14W 2100lm (4ft.)	17W 2100lm (4ft. Glass)	16.5W 2500lm (4ft.)	13W 2100lm (U-Bent) <sup>2</sup>
		469270, 469288 469296, 469304	469320, 469338 469346, 469353	468264, 468272 468280, 468298 468694, 469569 469577, 469585 469593	468306, 468314 468322, 468330 469061, 469619 469627, 469635	456566, 456574 456590, 456608 456616, 456624	463133, 463141 463158, 468892	469379, 469387 469395, 469403
Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Fulham Co., Inc	WH3-120-L	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	WH3-277-L	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Fulham Co., Inc	WH5-120-L	System Certified	System Certified	System Certified				
Fulham Co., Inc	WH5-277-L	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	
Fulham Co., Inc	WHSG1-UNV-T8-IS	Not Recommended	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	WHSG2-UNV-T8-IS	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	WHSG2-UNV-T8-LB		System Certified	System Certified	System Certified	System Certified	System Certified	
Fulham Co., Inc	WHSG3-UNV-T8-IS	Not Recommended	Not Recommended	System Certified				
Fulham Co., Inc	WHSG3-UNV-T8-LB	Not Recommended	Not Recommended	System Certified	System Certified	System Certified	System Certified	
Fulham Co., Inc	WHSG3-UNV-T8-HB	Not Recommended	Not Recommended	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	WH42-UNV-L	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	WH43-UNV-L	Not Recommended	Not Recommended	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	WH44-UNV-L	Not Recommended	Not Recommended	System Certified				
Fulham Co., Inc / Leviton	Zipline (361RC-Z03)	Not Recommended	Not Recommended	System Certified				
General Electric	GE-132-MV-N		Certified			Certified	Certified	
General Electric	GE-232-MV-N	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	GE-332-MV-N	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	GE-232-MV-N-DIY	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	GE-332-MV-N-DIY	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	GE-432-MV-N-DIY	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	GE232MAX-N/ULTRA	Certified	Certified	Certified	Certified	Not Recommended	Certified	Certified
General Electric	GE332MAX-N/ULTRA	Certified	Not Recommended		Certified	Certified	Certified	
General Electric	GE432MAX-N/ULTRA	Certified	Not Recommended	Not Recommended	Certified			
General Electric	GE232MAX-L/ULTRA	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	GE332MAX-L/ULTRA	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	GE432MAX-L/ULTRA	Certified	Not Recommended		Certified	Certified	Certified	
General Electric	GE132MAX-H/ULTRA		Certified	Certified	Certified			
General Electric	GE232MAX-H/ULTRA	Certified		Certified	Certified	Not Recommended	Not Recommended	Certified
General Electric	GE332MAX-H/ULTRA	Certified	Not Recommended	Not Recommended	Certified	Certified	Certified	
General Electric	GE432MAX-H/ULTRA	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	GE232MAX347-N	Certified	Certified	Certified	Certified		Certified	Certified
General Electric	GE432MAX347-N	Certified	Certified	Certified	Certified	Certified	Certified	
General Electric	GE232-120RES-DIY	Certified	Certified	Certified	Certified	Certified	Certified	Certified
General Electric	GE432-120RES-DIY	Certified	Certified	Certified	Certified	Certified	Certified	

See footnotes on Page 10.

# T8 instant-start ballasts

		7W 1050lm (2ft.)	9W 1200lm (3ft.)	10W 1600lm (4ft.)	14W 2100lm (4ft.)	17W 2100lm (4ft. Glass)	16.5W 2500lm (4ft.)	13W 2100lm (U-Bent) <sup>2</sup>
		469270, 469288 469296, 469304	469320, 469338 469346, 469353	468264, 468272 468280, 468298 468694, 469569 469577, 469585	468306, 468314 468322, 468330 469061, 469619 469627, 469635	456566, 456574 456590, 456608 456616, 456624	463133, 463141 463158, 468892	469379, 469387 469395, 469403
Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Osram Sylvania	QTP 1x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QTP 2x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	QTP 3x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QTP 4x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QTP 2X32T8/347 ISN-SC	Certified	Certified	Certified	Certified			
Osram Sylvania	QHE 1x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 2x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	QHE 3x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 4x32T8/UNV ISN-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 4X32T8/347 ISN-SC	Certified	Certified	Certified	Certified			
Osram Sylvania	QHE 1x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 2x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	QHE 3x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 4x32T8/UNV ISL-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 1x32T8/UNV ISH-SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 2x32T8/UNV ISH-SC	Certified		Certified	Certified			Certified
Osram Sylvania	QHE 3x32T8/UNV ISH-SC	Certified	Not Recommended	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 4x32T8/UNV ISH	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 1x32T8/UNV ISH HT SC	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 2x32T8/UNV ISH HT SC	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	QHE 4X32T8/UNV ISH-HT-1	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 1x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 2x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	QHE 3x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	
Osram Sylvania	QHE 4x32T8/UNV ISN-SC-1	Certified	Certified	Certified	Certified	Certified	Not Recommended	
Osram Sylvania	QHE 1x32T8/UNV ISL-SC-1	Certified	Certified	Certified	Certified			
Osram Sylvania	QHE 2x32T8/UNV ISL-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Osram Sylvania	QHE 4x32T8/UNV ISL-SC-1	Certified	Certified	Certified	Certified	Certified	Certified	
Ultrasave	UT232347	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Ultrasave	UT432347	Certified	Certified	Certified	Certified	Certified	Certified	



# T8 instant-start ballasts

7W 1050lm (2ft.)	9W 1200lm (3ft.)	10W 1600lm (4ft.)	14W 2100lm (4ft.)	17W 2100lm (4ft. Glass)	16.5W 2500lm (4ft.)	13W 2100lm (U-Bent) <sup>3</sup>
469270, 469288 469296, 469304	469320, 469338 469346, 469353	468264, 468272 468280, 468298 468694, 469569 469577, 469585	468306, 468314 468322, 468330 469061, 469619 469627, 469635	456566, 456574 456590, 456608 456616, 456624	463133, 463141 463158, 468892	469379, 469387 469395, 469403

Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified <sup>1</sup> / Certified <sup>2</sup>	System Certified <sup>1</sup> / Certified <sup>2</sup>	System Certified <sup>1</sup> / Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Universal Lighting Technologies	B132IUNVHP-N	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B232IUNVHP-N	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Universal Lighting Technologies	B332IUNVHP-A		Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B432IUNVHP-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B132IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B232IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	Certified
Universal Lighting Technologies	B332IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B432IUNVHE-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B132IUNVEL-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B232IUNVEL-A	Certified	Certified	Certified	Certified		Certified	Certified
Universal Lighting Technologies	B332IUNVEL-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B432IUNVEL-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B232IUNVHEH-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B332IUNVHEH-A	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B432I277HEH	Certified	Certified	Certified	Certified	Certified	Certified	
Universal Lighting Technologies	B232I347HP-A	Certified	Certified	Certified	Certified			Certified
Universal Lighting Technologies	B432I347HP	Certified	Certified					
Universal Lighting Technologies	B232I347HP-A	Certified	Certified	Certified	Certified			Certified
Universal Lighting Technologies	B432I347HP	Certified	Certified					

# T8 programmed-start ballasts (fixed output)

		7W 1050lm (2ft.)	9W 1200lm (3ft.)	10W 1600lm (4ft.)	14W 2100lm (4ft.)	17W 2100lm (4ft. Glass)	16.5W 2500lm (4ft.)	13W 2100lm (U-Bent) <sup>3</sup>
		469270, 469288 469296, 469304	469320, 469338 469346, 469353	468264, 468272 468280, 468298 468694, 469569 469577, 469585 469593	468306, 468314 468322, 468330 469061, 469619 469627, 469635	456566, 456574 456590, 456608 456616, 456624	463133, 463141 463158, 468892	469379, 469387 469395, 469403
Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Philips Advance	IOP-2PSP32-N				System Certified			
Philips Advance	IOP-3PSP32-SC	System Certified	System Certified	System Certified	System Certified		System Certified	
Philips Advance	IOP-4PSP32-SC	System Certified	System Certified	System Certified	System Certified		System Certified	
Philips Advance	IOP-2PSP32-LW-N				System Certified			
Philips Advance	IOP-3PSP32-LW-SC	System Certified	System Certified	System Certified	System Certified		System Certified	
Philips Advance	IOP-4PSP32-LW-SC	System Certified	System Certified	System Certified	System Certified		System Certified	
Philips Advance	HOP-2PSP32-HL-L				System Certified			
Philips Advance	HOP-4PSP32-HL-G				System Certified			
Universal Lighting Technologies	B232PUNVHE-B	Certified	Certified	Certified	Certified			
Universal Lighting Technologies	B332PUNVHE-A	Certified	Certified	Certified	Certified			
Universal Lighting Technologies	B432PUNVHE-A	Certified	Certified	Certified	Certified			
Universal Lighting Technologies	B232PUNVHEH-A				Certified			
Universal Lighting Technologies	B332PUNVHEH-A				Certified			
Universal Lighting Technologies	B232PUNVEL-B				Certified			
Universal Lighting Technologies	B332PUNVEL-A				Certified			
Universal Lighting Technologies	B432PUNVEL-A				Certified			
General Electric	GE-232MVPS-XL				Certified			
General Electric	GE-332MVPS-XL				Certified			
General Electric	GE-132MVPS-L				Certified			
General Electric	GE-232MVPS-L				Certified			
General Electric	GE-332MVPS-L				Certified			
General Electric	GE-432MVPS-L				Certified			
General Electric	GE-132MVPS-N				Certified			
General Electric	GE-232MVPS-N	Certified	Certified	Certified	Certified		Certified	Certified
General Electric	GE-332MVPS-N	Certified	Certified	Certified	Certified		Certified	
General Electric	GE-432MVPS-N	Certified	Certified	Certified	Certified		Certified	
General Electric	GE-132MVPS-H				Certified			
General Electric	GE-232MVPS-H				Certified			
General Electric	GE-332MVPS-H				Certified			
General Electric	GE-432MVPS-H				Certified			
Osram Sylvania	QHE 1X32T8/UNV PSX-MC				Certified			
Osram Sylvania	QHE 1X32T8/UNV PSN-MC				Certified			
Osram Sylvania	QHE 2X32T8/UNV PSX-MC				Certified			
Osram Sylvania	QHE 2x32T8/UNV PSN-MC	Certified	Certified	Certified	Certified		Certified	Certified
Osram Sylvania	QHE 3x32T8/UNV PSN-SC	Certified	Certified	Certified	Certified		Certified	
Osram Sylvania	QHE 4x32T8/UNV PSN-SC	Certified	Certified	Certified	Certified		Certified	
Osram Sylvania	QHES 2X32T8/UNV PSL-SC				Certified			
Osram Sylvania	QHE 2X32T8/UNV PSH-HT				Certified			
Osram Sylvania	QHE 3X32T8/UNV PSH-HT-SC				Certified			
Osram Sylvania	QHE 4X32T8/UNV PSH-HT				Certified			

See footnotes on Page 10.

## T8 programmed-start ballasts (Dimmable)

14W 2100 lm  
(4 ft.)

468306, 468314, 468322, 468330, 469061, 469619, 469627, 469635

Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>	Dimmer Recommendation
Philips Advance	IZT-2S32-SC	System Certified	Use Compatible 0-10V dimmer
Philips Advance	IZT-4S32	System Certified	Use Compatible 0-10V dimmer
Philips Advance	REZ-132-SC	System Certified	Philips Lightolier - V1500EBUW Lutron - MRF2-6ND-120
Philips Advance	REZ-2S32-SC	System Certified	Philips Lightolier - V1500EBUW Lutron - MRF2-6ND-120
Philips Advance	REZ-3S32-SC	System Certified	Philips Lightolier - V1500EBUW Lutron - MRF2-6ND-120
General Electric	GE132MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	GE232MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	GE332MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	GE432MVPSN-V03	Certified	Use Compatible 0-10V dimmer
General Electric	GE232MVPSH-V03	Certified	Use Compatible 0-10V dimmer
General Electric	GE332MVPSH-V03	Certified	Use Compatible 0-10V dimmer
General Electric	GE432MVPSH-V03	Certified	Use Compatible 0-10V dimmer

## 4-pin long compact instant-start ballasts<sup>1</sup>

16.5 W 2100 lm  
(PL-L 2 ft.)

456632, 456640, 456657

Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>
Philips Advance	ICN-ITTP40-SC	System Certified
Philips Advance	ICN-2TTP40-SC	System Certified
Philips Advance	ICN-3TTP40-SC	System Certified
General Electric	GE140MAX-A	Certified
General Electric	GE240MAX-A	Certified
General Electric	GE340MAX-A	Certified
Osram Sylvania	QHE1X40DL/UNV ISN-SC	Certified
Osram Sylvania	QHE2X40DL/UNV ISN-SC	Certified
Osram Sylvania	QHE3X40DL/UNV ISN-SC	Certified

## T12 electronic ballasts

14 W 2100 lm  
(4 ft.)

468306, 468314, 468322,  
468330, 469061, 469619  
469627, 469635

Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>
Philips Advance	ICN-2S40-N	System Certified
Philips Advance	RELB-2S40-N	System Certified

## Emergency ballasts<sup>6</sup>

	7W 1050lm (2 ft.)	9W 1200lm (3 ft.)	10W 1600lm (4 ft.)	14W 2100lm (4 ft.)	17W 2100lm (4 ft. Glass)	16.5W 2500lm (4 ft.)	13W 2100lm (U-Bent) <sup>3</sup>	16.5W 2100lm (PL-L 2 ft.)	
	469270, 469288 469296, 469304	469320, 469338 469346, 469353	468264, 468272 468280, 468298 468694, 469569 469577, 469585 469593	468306, 468314 468322, 468330 469061, 469619 469627, 469635	456566, 456574 456590, 456608 456616, 456624	463133, 463141 463158, 468892	469379, 469387 469395, 469403	456632, 456640 456657	
Manufacturer	Emergency Ballast Model	# of lamps in Emergency	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Philips Bodine	(new) B50 (12 NC: 913702456401)	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Bodine	PEL12	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Bodine	LP600	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Bodine	LP600STU	1	Not Recommended	Not Recommended	System Certified	System Certified	System Certified	System Certified	System Certified
Philips Chloride	DEB-6LP	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	I-320	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	I-160 <sup>5</sup>	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	I-162	2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	ISL-54	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Iota Engineering	ISL-540	1 or 2	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	FH7-UNV-500L	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	FH11-UNV-750L-xx	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified
Fulham Co., Inc	FH12-UNV-1400K-xx	1	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified	System Certified

See footnotes on Page 10.

## CFL ballasts<sup>1,2</sup>

Manufacturer	Driver Model	(Vertical Configuration)	(Horizontal Configuration)
		458406, 458414, 458422, 458430	458364, 458372, 458380, 458398
Manufacturer	Driver Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Philips Advance	ICF-2S13-M1-BS	System Certified	System Certified
Philips Advance	ICF-2S13-H1-LD	System Certified	System Certified
Philips Advance	ICF-2S13-M1-BS-QS	System Certified	System Certified
Philips Advance	ICF-2S26-H1-LD	System Certified	System Certified <sup>1</sup>
Philips Advance	ICF-2S26-M1-BS	System Certified	System Certified
Philips Advance	ICF-2S26-M1-BS-QS	System Certified	System Certified
Philips Advance	ICF-2S18-H1-LD	System Certified	System Certified
Philips Advance	ICF-2S18-M1-BS	System Certified	System Certified
Philips Advance	ICF-2S18-M1-BS-QS	System Certified	System Certified
Philips Advance	ICF-2S42-M2-LD	System Certified	System Certified
Philips Advance	ICF-2S42-M2-BS	System Certified	System Certified
Philips Advance	ICF-2S42-90C-M2-BS	System Certified	System Certified
Philips Advance	ICF-2S42-90C-M2-LD	System Certified	System Certified
General Electric	GEC218-MVPS-SE	Certified	Certified
Universal Lighting Technologies	C218UNVME	Certified	Certified
Universal Lighting Technologies	C2642UNVME	Certified	Certified
Osram Sylvania	QTP 1/2X18CF/UNV DM	Certified	Certified
Osram Sylvania	QTP 2X26CF/UNV DM	Certified	Certified
Howard Industries	EP2/26CF/MV/2	Certified	Certified

Systems on this page are:



See footnotes on Page 10.

## Emergency ballasts (for compact fluorescent lamps)<sup>1,7</sup>

Manufacturer	Emergency Ballast Model	Vertical Lamp	Horizontal Lamp
		458406, 458414, 458422, 458430	458364, 458372, 458380, 458398
Manufacturer	Emergency Ballast Model	System Certified/ Certified <sup>2</sup>	System Certified/ Certified <sup>2</sup>
Iota	I-42 (2)		System Certified
Iota	I-420 (1)	System Certified	System Certified
Iota	I-420 (2)	System Certified	System Certified
Iota	I-160 (1)	System Certified	
Iota	I-160 (2)	System Certified	System Certified
Fulham	FH11-UNV-750L (2)	System Certified	System Certified
Fulham	FH12-UNV-1400L (2)	System Certified	System Certified

## T12 Rapid-Start Magnetic Ballasts<sup>1,2</sup>

463117, 463125

Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>
Philips Advance	R-140-1-TP	System Certified
Philips Advance	RL-140-TP	System Certified
Philips Advance	X-140-TP	System Certified
Philips Advance	R-2S40-1-TP	System Certified
Philips Advance	XQM-2S40-TP	System Certified
Philips Advance	V-2S40-1-TP	System Certified
Philips Advance	RQM-2S40-3-TP	System Certified
Philips Advance	R-2S34-TP-5	System Certified
Philips Advance	V-2S34-TP	System Certified
Philips Advance	RM-2S35-TP	System Certified
General Electric	GEM240RS277	Certified
General Electric	GEM240RS120 -1	Certified
Howard Industries	M1/40RS-120	Certified
Howard Industries	M2/40RS-277	Certified
Howard Industries	M2/40RS-240 -1	Certified
Universal Lighting Technologies	412-L-SLH-TC-P	Certified
Universal Lighting Technologies	458-L-SLH-TC-P	Certified
Universal Lighting Technologies	540-L-TC-P	Certified
Universal Lighting Technologies	CAT NO. 446-L-LH-TC-P-7	Certified
Universal Lighting Technologies	443-L-SLH-TC-P	Certified
Universal Lighting Technologies	446-L-SLH-TC-P	Certified
Osram Sylvania	MB1x40/277 RS-1	Certified
Osram Sylvania	MB1x40/120RS-1	Certified
Osram Sylvania	MB2x40/120RS-1	Certified
Osram Sylvania	MB2x40/277RS-1	Certified
Industrias Sola Basics S A DE C V	E420-F-234 IC -1	Certified
Radionic Industries Inc.	CAT.NO. ES24OHTP	Certified

## T12 8' Slimline ballasts<sup>1,2</sup>

469239, 469247  
469254, 469262

Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>
Philips Advance	IOP-2P59-N	System Certified
Philips Advance	ICN-2P60-N	System Certified
General Electric	GE259MAX-L/ULTRA	Certified
General Electric	GE259MAXP-N/ULTRA	Certified
General Electric	GE-259-MV-N 30194	Certified
General Electric	GE259MAX-G-N 74469	Certified
General Electric	GE259MAXP-N-DIY 23954	Certified
Howard Industries	EP2/59IS/MV/MC/HE	Certified
Howard Industries	E2/75IS-120MC	Certified
Fulham	WH5-277-L	Certified
Universal Lighting Technologies	B260IUNVHP	Certified
Universal Lighting Technologies	B260I120M-A	Certified
Osram Sylvania	OSRAM QT 2X96/120 IS	Certified
Osram Sylvania	OSRAM QT 2X96/277 IS	Certified
Osram Sylvania	2X75W T12(96")	Certified
Industrias Sola Basics S A DE C V	EIO-260-MC	Certified
Industrias Sola Basics S A DE C V	EOI-230/32-MC	Certified

## T5HO ballasts<sup>1,2</sup>

467126, 467134  
467142, 467159

Manufacturer	Ballast Model	System Certified/ Certified <sup>2</sup>
Philips Advance	ICN-2S54-N	System Certified
Philips Advance	ICN-2S54-90C-N	System Certified
Philips Advance	ICN-2S54-T	System Certified
Philips Advance	ICN-2S54-90C-T	System Certified
Philips Advance	ICN-2S54-N(L)	System Certified
Philips Advance	ICN-4S54-90C-2LS-G	System Certified
Philips Advance	HCN-2S54-90C-WL	System Certified
Philips Advance	HCN-4S54-90C-2LS-G	System Certified
General Electric	GE254MVPS-A	Certified
General Electric	GE254MVPS-D	Certified
General Electric	GE454MVPS90-E-S	Certified
General Electric	GE454MVPS90-F	Certified
General Electric	GE454MVPS90-G	Certified
General Electric	GE254MVPS90-A	Certified
Osram Sylvania	QHE 2x54T5HO/UNV PSN	Certified
Osram Sylvania	QHE 2x54T5HO/UNV PSN HT	Certified
Osram Sylvania	QHE 2x54T5HO/UNV PSN(L)	Certified
Osram Sylvania	QTP 2X54T5HO/UNV PSN HT	Certified
Universal Lighting Technologies	B254PUNV-D	Certified
Universal Lighting Technologies	B254PUNVHB-D	Certified
Universal Lighting Technologies	B454PUNV-E	Certified
Universal Lighting Technologies	B454PUNVHB-E	Certified
ESPEN	VE254MVHRP	Certified
ESPEN	VE454MVHRP	Certified
Fulham	RHA-UNV-254-LT5	Certified
Fulham	RHA-UNV-454-LT5	Certified
Keystone Inc.	KTEB-254HO-UV-PS-SL	Certified
Keystone Inc.	KTEB-454HO-UV-TP-PS	Certified
Sunpark	U-2/54T5HO	Certified
MAGG	2x54W LFL T5 AFP	Certified

1. System performance (Philips InstantFit LED T8 lamps and ballast) has been evaluated by the lamp and ballast manufacturer.
  2. System performance (Philips InstantFit LED T8 lamps and ballast) has been evaluated by the lamp manufacturer only.
  3. Typical application for U-Bent lamps is with 2-lamp ballasts.
  4. Ballast tests are performed with a specific date code. Please contact the factory for date code information.
  5. Connect BRN/BRN-W leads.
  6. Please contact the emergency ballast manufacturer for wiring diagrams.
  7. UL/CSA classified with the listed ballasts.
- † This ballast is compatible for two (2) lamp horizontal configuration only.  
\* Please contact Philips for questions about third party ballasts that are not on this list. Information in this document is subject to change without prior notice



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