

IFC/GEF Efficient Lighting Initiative Form 4: Outdoor Residential Luminaire Application

Instructions

This form refers to the IFC/GEF Efficient Lighting Initiative "Voluntary Technical Specification Lamp-ballast Circuits for Outdoor Residential Luminaires" available from the ELI website <www.efficientlighting.net>.

All test results entered in this application should be from the indicated Reference Test Procedure performed at an accredited laboratory on actual retail products with the actual combinations of lamps and other components. IFC and its consultants shall consider all information provided in this application as confidential. IFC may release aggregated manufacturer product performance information without reference to any specific manufacturer's product.

A: Product Information (from manufacturer catalog)	
Manufacturer	
Product model number	
Minimum rated starting temperature (degrees Celsius)	
Rated average life of ballast, if applicable (hours)	
Rated average life of sensors or other controls, if applicable (hours, please indicate specific components)	
Rated average life of lamp (hours)	
Lumen maintenance of lamp supplied with luminaire after 2000 hours of operation (in lumens)	

An outdoor residential luminaire may be energy efficient because it uses an efficient light source (see B1), or it may be energy efficient because it includes sensors that only turn on a conventional light source when needed (see B2). Either type of energy efficient outdoor residential luminaire may qualify for ELI. Complete B1 or B2.

B1: Operating Efficiency (Efficient Light Source)		
<i>Complete only if qualifying under "Efficient Light Source Option - Table 2A" of the ELI Voluntary Technical Specification Lamp-ballast Circuit for Outdoor Residential Luminaires.</i>		
Values entered shall be calculated from actual measured luminous flux and input power for the specific lamp and other control (ballast, sensor, detector and switching) component combinations used in the luminaire (at 25 °C and 220 V). This is a measure of light source and control component performance only, not a measure of luminaire efficacy.	Reference Test Procedure	Test Result
Maximum power consumption at stable lumen output (Watts)	IEC 60901 & 60929	
Maximum light output at stable power consumption (lumens)	IEC 60901 & 60929	
Does luminaire include a photosensor that turns the luminaire off during daylight hours?	N/A	YES / NO
Is an appropriate lamp included with luminaire at time of sale?	N/A	YES / NO

B2: Operating Efficiency (Controls Option)		
<i>Complete only if qualifying under "Controls Option - Table 2B" of the ELI Voluntary Technical Specification Lamp-ballast Circuit for Outdoor Residential Luminaires.</i>		
Values entered shall be calculated from actual measured luminous flux and input power for the specific lamp and other component combinations used in the luminaire (at 25 °C and 220 V).	Reference Test Procedure	Test Result
Maximum power consumption at stable lumen output (Watts)	IEC - 60598	
Starting time - time until continuous illumination of luminaire after being switched on at minimum rated starting temperature (seconds, at maximum power for dimmable luminaires)	IEC - 60598	

Does luminaire include a photosensor that turns the luminaire off during daylight hours?	N/A	YES / NO
Does luminaire include a motion detector that turns the light source off within 15 minutes of either receiving a manual "on" signal or detecting no motion in the sensor's field of view?	N/A	YES / NO
Do the photo sensor and motion detector automatically reset to "automatic" mode within 24 hours following a manual override or testing operation?	N/A	YES / NO

C: Operating Characteristics	Reference Test Procedure	Test Result
Power Factor	IEC 61000	
Does luminaire comply with CISPR 15 or relevant local regulations for electromagnetic and radio frequency emissions?	CISPR 15	YES / NO
Does luminaire tolerate voltage variation 10% and continue to operate within specified parameters without reduction in the rated lives of its components?	NA	YES / NO
Does luminaire comply with IEC 61547 for transient protection?	IEC 61547	YES / NO
Does luminaire meet all relevant local safety regulations and the requirements IEC 60598 Part 1, and IEC 60598-2-3 , IEC 60598-2-5 or IEC 60589-2-7 where applicable?	IEC 60598	YES / NO

D: Ambient Environment Effects			
Does luminaire performance (in terms of light output, starting time, or other operating characteristics) differ from the values reported above by 10% due to:	YES	NO	Clearly indicated on packaging?
Operation outside of rated temperature range?			YES / NO
Any other factors? (If so, please attach additional explanation):			YES / NO

E: Warranty	Reference Test Procedure	YES	NO
Does the warranty allow the purchaser to return the luminaire to the point of purchase within 24 months from the date of purchase for repair or replacement?	N/A		
Is the warranty written in at least one applicable local language and included with the luminaire when purchased?	N/A		
Does the manufacturer provide a local mailing address and contact numbers for customer contacts and complaints?	N/A		
Are all ballasts, sensors and detectors included in the luminaire manufactured under a Quality Assurance System?	ISO 9000-2000		

F: Labeling	YES	NO
Is the lumen output noted on the luminaire packaging within 10% of the light output as reported above under "B1", if the Efficient Light Source Option is selected.		
Does the packaging clearly indicate the rated life of the lamp included with the luminaire?		
Is information stating appropriate generic lamp descriptors, including: lamp diameter, length, wattage, and base type included on the exterior packaging, in installation instructions and/or in application information sent to specifiers?		

G: Test Data	YES	NO
Is a copy of the test results report for the lighting source and controls (ballast, sensors, etc.) used in this luminaire from an accredited laboratory is attached to this form?		

Directions for Sending Application Materials to ELI Contacts

Applicants must submit applications plus all product performance data in **electronic form** to **both** ELI offices indicated below.

Additionally, applicants must ship their product samples plus a **print** copy of all application materials to the IIEC Regional Office in Bangkok.

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Inquiries about Applications

Questions about the status of applications should be directed to Mr. Phon-Amnuaisuk via e-mail. Questions about the specifications and technical requirements for testing should be directed to Ms. Conway via e-mail.