

## IFC/GEF Efficient Lighting Initiative Form 3: Indoor CFL Luminaire Application

### Instructions

This form refers to the IFC/GEF Efficient Lighting Initiative "Voluntary Technical Specification Lamp-Ballast Circuits for Indoor Luminaires with Compact Fluorescent Lamps" available from the ELI website <[www.efficientlighting.net](http://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 and lamp/ballast combinations.

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.

<b>A: Product Information (from manufacturer catalog)</b>	
Manufacturer	
Product model number	
Minimum rated starting temperature (degrees Celsius)	
Rated average life of ballast (hours)	
Rated average life of lamp (hours)	
Lumen maintenance of lamp supplied with luminaire after 2000 hours of operation (lumens)	
Diameter of fluorescent tube (centimeters)	

<b>B: Efficiency</b>		
	<b>Reference Test Procedure</b>	<b>Test Result</b>
Calculate values from actual measured luminous flux and input power for the specific lamp and ballast combinations used in the luminaire (at 25 °C and 220 V).		
Maximum power consumption at stable lumen output (Watts, maximum stable lumen output for dimmable luminaires)	IEC 60901 & 60929	
Maximum light output at stable power consumption (lumens, maximum stable power consumption for dimmable luminaires)	IEC 60901 & 60929	

<b>C: Operating Characteristics</b>		
	<b>Reference Test Procedure</b>	<b>Test Result</b>
Starting time: time until continuous illumination of luminaire after it is switched on at minimum rated starting temperature (seconds, at maximum power for dimmable luminaires)	IEC 60901 & 60929	
Run-up Time to 75% of stabilized light output after switch-on (seconds, maximum light output for dimmable luminaires)	IEC 60901	
Does luminaire meet all applicable local and international safety requirements?	IEC 60901 & 60928	YES /NO

<b>D: Light Characteristics</b>		
	<b>Reference Test Procedure</b>	<b>Test Result</b>
Correlated lamp color temperature (degrees Kelvin)	IES LM-16-1984	
Color Rendering Index (CRI)	CIE 29/2	
Is an appropriate pin-based CFL tube included with the luminaire at the time of sale?	N/A	YES /NO

<b>E: Ambient Environment Effects</b>			
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	<b>Clearly indicated on packaging?</b>
Operation outside of rated temperature range?			YES /NO
Any other factors? (If so, please attach additional explanation):			YES /NO

<b>F: Power Characteristics</b>	<b>Reference Test Procedure</b>	<b>Test Result</b>
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 life?	NA	YES /NO
Does luminaire comply with IEC 61547 for transient protection?	EC 61547	YES /NO

<b>G: Labeling</b>	<b>YES</b>	<b>NO</b>
Does packaging indicate the color temperature of the lamp in degrees Kelvin?		
Does packaging indicate the rated life of the lamp in hours?		
Is the lumen output noted on the package within 10% of the light output as reported above under "B: Efficiency"?		
If the product packaging or other literature claims that light output of the CFL is equivalent to, or exceeds that, of an incandescent lamp, please indicate what incandescent lamp (including wattage and type) is claimed.		

<b>H: Other</b>	<b>Reference Test Procedure</b>	<b>YES</b>	<b>NO</b>
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 the CFL components (lamps and ballasts) included in the luminaire manufactured under a Quality Assurance System?	ISO 9000-2000		

<b>I: Test Data</b>	<b>YES</b>	<b>NO</b>
Is a copy of the test results report for the lamp and ballast combination used in this luminaire from an accredited laboratory 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.