



# Constructional Data Form for Electrical Products

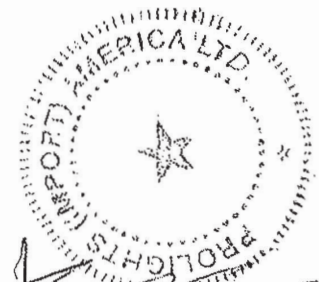
(For TÜV Rheinland of N.A., Inc. use only)

Certificate # CU 72171490 01

File #

50076235 001

**License Holder** : PROLIGHTS (IMPORT) AMERICA LTD  
**Address** : 88 Horner Avenue, Toronto ON M8Z5Y3, Canada  
**Factory** :  
**Address** :  
**Type of Product** : Stage luminaire  
**Model Number** : ECLIPSEFS  
**Rating** : 100-240VAC, 50/60Hz, 220W, 91pcs non-replaceable LEDs, max. 10A interconnected.



	ITR 15/06/17	
	(Place)	(Date)

TUV Rheinland of North America, Inc.

(Stamp and signature of applicant)



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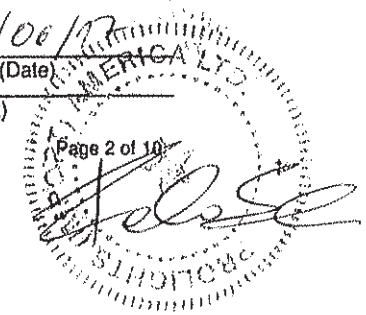
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**List of Critical Components:**

Photo/Item no. <sup>1</sup>	Object / Part no.	Manufacturer/ Trademark	Type / Model <sup>2</sup>	Technical data and securement means	Standard	Mark(s) of Conformity <sup>3</sup>
1 / 1	Metal enclosure	Various	Various	Sheet steel, min. 2.0mm thickness.	--	Tested with appliance
1 / 2	Mounting bracket	Various	Various	Sheet steel, min. 5.0mm thickness.	--	Tested with appliance
4, 12 / 3	Glass lens	Various	Various	Curved glass, min. 5.0mm thickness. Secured to the frame.	--	Tested with appliance
5 / 4	Plastic enclosure	CHI MEI CORPORATION	PA-765(+)	ABS material, 5VA, RTI 80°C, min. 2.5mm thickness.	UL 746C, CSA C22.2 No. 0.17	cURus E56070
6 / 5	Appliance inlet / outlets	NEUTRIK AG	NAC3PX	250VAC, 20A. Secured to enclosure by screws.	UL 1977, CSA C22.2 No. 182.3	cURus E343813
6 / 6	DMX connectors	Amphenol Australia Pty Ltd	AC5FAV-AU-B, AC5MAV-AU-B	5 pin, model AC5MAV-AU-B for female connector and AC5FAV-AU-B for male connector. Used to transmit DMX data.	--	Tested with appliance
6 / 7	Fuseholder	OPENWISE INDUSTRIAL LTD	OP520	250VAC, 10A. For cartridge type fuse with size: 5 x 20mm.	UL 4248-1, CSA C22.2 No. 4248.1	cURus E161798
6 / 8	Fuse	WALTER ELECTRONIC CO LTD	TME	250VAC, T3.15A, Φ5 x 20mm, cartridge enclosed.	UL 248-1, CSA C22.2 No. 248-1-00	cURus E56092
7 / 9	PCB	Various	Various	V-0, RTI 130°C, min. conductor width 0.1mm, max. unpierced area diameter 5mm, suitable for direct support of current carrying part, min. 1.6mm thickness.	UL 796	URus
9 / 10	Fan	SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO LTD	EEC0251B3-000C-G99	12VDC, 1.9W, Class A.	UL 507, CSA C22.2 No. 113	cURus E77551

	17/1 (Place)	18/06/17 (Date)
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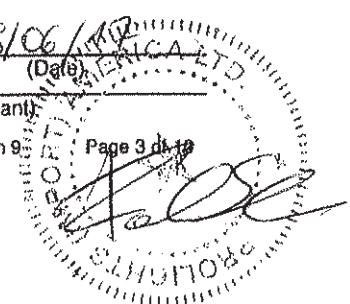
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10 / 11	Reflector	SABIC JAPAN L L C	357X(I2)	PC material, 5VA, RTI 120°C, min. 1.5mm thickness. Aluminum plating.	UL 746C, CSA C22.2 No. 0.17	cURus E207780
11 / 12	Grounding wire	Various	1015 / 1569	AWM, min.300V, 105°C, min.18AWG, VW-1.	UL 758, CSA C22.2 No. 210	cURus
11 / 13	Internal wire (I)	Various	1015 / 1569	AWM, min.300V, 105°C, min.18AWG, VW-1. Used between inlet, fuseholder, power unit and LED PCB.	UL 758, CSA C22.2 No. 210	cURus
11 / 14	Internal wire (II)	Various	1015 / 1569	AWM, min.300V, 105°C, min.24AWG, VW-1. Used between control PCB, DMX PCB and LED PCB.	UL 758, CSA C22.2 No. 210	cURus
11 / 15	Heat- shrinkable tube	Various	Various	600V, 125°C, VW-1.	UL 224, CSA C22.2 No. 198.1	cURus
13 / 16	Plastic lens	SABIC JAPAN L L C	357X(I2)	PC material, 5VA, RTI 120°C, min. 1.5mm thickness.	UL 746C, CSA C22.2 No. 0.17	cURus E207780
14 / 17	LED PCB	Various	Various	Single layer metal base, V-0, RTI 125°C, min. 2.0mm thickness.	UL 796	URus
15 / 18	LED (I)	Tianxin Photoelectricity Co., Ltd.	TX- 3535R3FC1 20- OGVEND34- 03	If: 350mA; Vf: 1.9-2.5V; Emitting color: Red; Topr: -20~70°C; Tj: 150°C; Size: 3.45x3.45x1.95mm. Total 15pcs.	UL8750, CSA C22.2 No. 250.13	Tested with appliance
15 / 18	LED (II)	Tianxin Photoelectricity Co., Ltd.	TX- 3535G3FC1 20- OGVEZD34- 03A	If: 350mA; Vf: 2.8-3.6V; Emitting color: Green; Topr: -20~70°C; Tj: 135°C; Size: 3.45x3.45x1.95mm. Total 31pcs.	UL8750, CSA C22.2 No. 250.13	Tested with appliance

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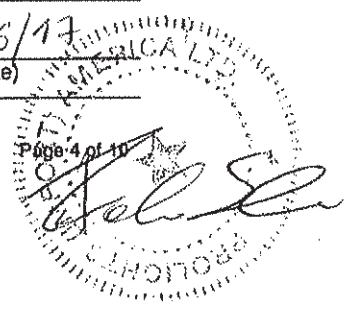
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15 / 18	LED (III)	Tianxin Photoelectricity Co., Ltd.	TX- 3535B3FC1 20- OGVEZD34- 03A	If: 350mA; Vf: 2.8-3.6V; Emitting color: Blue; T <sub>opr</sub> : -20~70°C; T <sub>j</sub> : 125°C; Size: 3.45x3.45x1.95mm. Total 21pcs.	UL8750, CSA C22.2 No. 250.13	Tested with appliance
15 / 18	LED (IV)	LUMILEDS	LXML-PX02- 0000	If: 350mA; Vf: 2.6-3.0V; Emitting color: Lime; T <sub>opr</sub> : -40~135°C; T <sub>j</sub> : 150°C; Size: (4.37, 4.61)x(2.93, 3.17)x(1.85, 2.10)mm. Total 24pcs.	UL8750, CSA C22.2 No. 250.13	Tested with appliance
15 / 19	Power unit	Daylead	A280a- 4812P	Input: 100-240VAC, 50/60Hz; Output 1: DC 48V, 5.25A. Output 2: DC 12V, 2A. SELV	UL 1012, CSA C22.2 No.107.1	Tested with appliance
Components used in power unit						
--	Input terminal block	CIXI KEFA ELECTRONICS CO LTD	KF45	300V, 20A, 105°C, suitable for 12-22AWG wire.	UL 1059, CSA-C22.2 No. 158	cURus E306245
--	Output terminal block	CIXI KEFA ELECTRONICS CO LTD	KF45	300V, 20A, 105°C, suitable for 12-22AWG wire.	UL 1059, CSA-C22.2 No. 158	cURus E306245
--	Fuse (F1)	CONQUER ELECTRONICS CO LTD	MST	Supplemental micro fuses, Size: 8.35 x 4.3x7.7mm, 250VAC, T6.3A.	UL 248-1, UL 248-14, CSA C22.2 No. 248.1-00, CSA C22.2 No. 248.14-00	cURus E82636
--	NTC (RT1)	SAM KYUNG CERAMICS CO	NTC-3D-15	Inrush-limiting, 240V, 6.0A.	UL 1434	URus E200822
--	Varistor (VR1)	CERGLASS MFG INC	14D471K	470V, 85°C.	UL 1449, CSA C22.2 No. 269	cURus E317616

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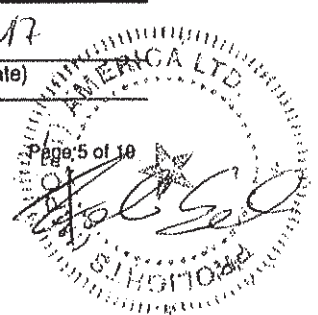
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--	X capacitor (CX1, CX2)	SHENZHEN YIMANFENG SCIENCE AND TECHNOLOGY CO LTD	MPX/MKP	X2 type, 275Vac, 1.0uF, 110°C.	UL 60384-14, CSA E60384- 14	cURus E315567
--	Y capacitor (CY1, CY2)	SHENZHEN SONGTE ELECTRONIC CO LTD	CT7	Y2 type, 250Vac, 1000pF, 125°C.	UL 60384-14, CSA E60384- 14	cURus E302622
--	Bridge rectifier (BRG1)	LESHAN SHARE ELECTRONIC CO LTD	GBU808	800V, 8A.	UL 1557	URus E249161
--	Thermal protector	DONGGUAN KAINYI ELECTRONIC SCI & TECH CO LTD	BW110°C	250V, 5A, 110°C.	UL 2111, CSA C22.2 No. 77	cURus E322299
--	Y capacitor (CY3)	SHENZHEN SONGTE ELECTRONIC CO LTD	CT7	Y1 type, 400Vac, 1000pF, 125°C.	UL 60384-14, CSA E60384- 14	cURus E302622
--	Opto-coupler (U2, U6)	EVERLIGHT ELECTRONICS CO LTD	EL817	Double protection type, providing 5000 Vac isolation.	UL 1577, CSA No. 5A	cURus E214129
--	Insulation sheet under PCB	JINGMEN GORUN TECHNOLOGY CO LTD	HF11	PC material, V-0, RTI 80°C, min. 0.2mm thickness.	UL 746C, CSA C22.2 No. 0.17	cURus E305163
--	Insulation silicone tube	JIANGSU HONGDA NEW MATERIAL CO LTD	HD-8750	SIR material, V-0, RTI 150°C, min. 0.5mm thickness.	UL 746C, CSA C22.2 No. 0.17	cURus E231325
--	Heat- shrinkable tube	Various	Various	600V, 125°C, VW-1.	UL 224, CSA C22.2 No. 198.1	cURus

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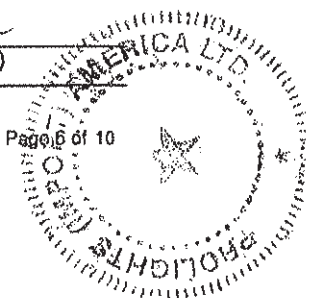
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--	PCB	Various	Various	V-0, RTI 130°C, min. conductor width 0.1mm, max. unpierced area diameter 5mm, suitable for direct support of current carrying part, min. 1.6mm thickness.	UL 796	URus
--	Transformer	FOSHAN XIEDA ELECTRON CO LTD	A280a-4812P (PQ3230)	Class B insulation system. It consist of bobbin, magnet winding wire, multi-layer insulated winding wire, teflon tube, insulation tape, margin tape and varnish.	--	Tested with appliance
--	Insulation system	JIA SHENG YUAN ELECTRONICS CO LTD	DASH 2 B-19	Class B insulation system.	UL 1446, CSA C22.2 No. 0	cURus E306424
--	Bobbin	CHANG CHUN PLASTICS CO LTD.	T375J	PMC material, V-0, RTI 150, min. 0.75mm thickness.	UL 746C, CSA C22.2 No. 0.17	cURus E59481
--	Magnet winding wire	Various	Various	Polyurethane, min.130°C.	UL 1446	URus
--	Multi-layer insulated winding wire	FURUKAWA ELECTRIC CO., LTD.	TEX-E	Reinforced insulation rated 130°C.	UL 2353, UL 60950-1	URus E206440
--	Teflon tube	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T	300V, 200°C.	UL 224, CSA C22.2 No. 198.1	cURus E180908
--	Insulation tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT* (c)(g), PZ* (b)	Polyethylene terephthalate film insulating tape, 130°C, 0.05mm.	UL 510	URus E165111

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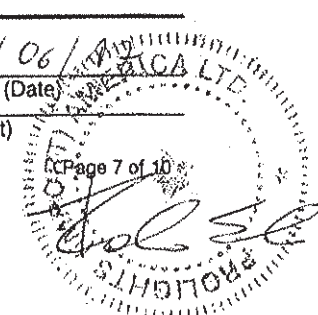
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--	Margin tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	WF* (c)(h)	Nonwoven cloth/polyethylene terephthalate film insulating tape, 130°C.	UL 510	URus E165111
--	Varnish	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	V1380	130°C.	UL 1446	URus E75225
20 / 20	Power cord set	Various	Various	ST flexible cord connected with connector and attachment plug. Flexible cord rating: 600V, 105°C, VW-1, 16AWG x 3C. Connector rating: 250VAC, 20A. The power cord shall be at least 914mm (It is to be measured from the face of attachment plug to the face of connector).	UL 817, CSA C22.2 No. 21	cULus
--	Cord connector	NEUTRIK AG	NAC3FX-W	250VAC, 20A.	UL 1977, CSA C22.2 No. 182.3	cURus E343813
21 / 21	Mounting clamp	Various	Various	Sheet steel with min. 4.0mm thickness. 1 pcs provided in end product.	--	Tested with appliance
22 / 22	Backup- restraint safety chain	Various	Various	Sheet steel with min. 4.0mm diameter. 1 pcs provided in end product.	--	Tested with appliance
23	Label (not shown)	Various	Various	Min. 150°C when affixed on the metal surface.	UL969, CSA C22.2 No. 0.15	cURus

Note:

- 1). Not all item numbers are indicated (called out) in the photos, as their location is obvious.
- 2). "Various" means any type, from any manufacturer that complies with the "Technical data" and meets the "Mark(s) of conformity" can be used.

	(Place) <u>IRA</u> (Date) <u>18/06/2018</u>
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### Routine Safety Testing:

Required:

Not Required:

Reason:

Class III product:

Other:

### Test Details:

Dielectric Strength:

Ground Continuity:

Insulation Resistance:

Leakage Current:

Other:

### Test Points:

Live parts - Metal enclosure

Between the point of grounding  
means and any dead metal part

### Test Values

1200 VAC 1s OR  
1000 VAC 60 seconds

< 0.10 ohm



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## Dielectric Voltage-withstand Test

### Method:

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contractors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between Primary wiring, including connected components, and accessible dead metal parts of a portable luminaire that are likely to become energized, including those parts that are accessible only during relamping. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

### Test Equipment:

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

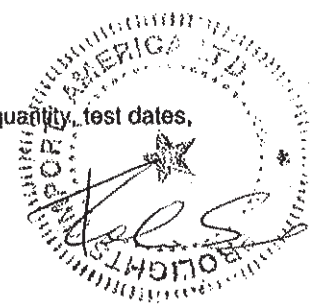
- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output.

All test equipment shall be maintained in current calibration.

### Test Records:

Test records shall be retained for a period of at least six months, and shall include test quantity, test dates, catalog or model numbers, test results, and disposition of any non-complying products.



	ITR 1	18/06/17
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## Grounding Continuity Test

### Method:

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

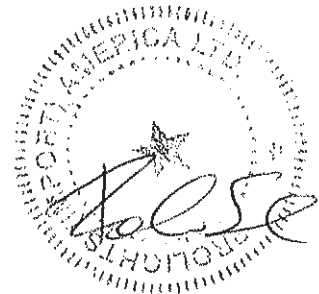
If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

### Test Equipment:

The grounding continuity test apparatus shall consist of an indicating instrument and an ac or dc power supply of approximately 12 V providing a current of 30A though the bonding means being evaluated.

### Test Records:

Test records shall be retained for a period of at six months, and include test quantity, test dates, catalog or model numbers, test results and disposition of any non-complying products.



	ITM 4	18/06/17
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