中国认可
国际互认
检测
TESTING
CNAS L9342

Technical Report No.: D220324013

Date: 2022-07-22

Client:	Name: Connected Light Solutions Address: 140 Fulton Drive, Derrimut, Australia
Manufacturing place:	Manufacturer's name: Sichuan Hongrui Electric Co., Ltd. Address: Mianyang Export Processing Zone, High-tech Park, Mianyang, Sichuan Province China Factory's name: Same as manufacturer Address: Same as manufacturer
Test subject:	Product: Cat V Leopard Type: See Annex 1 for details
Trade mark:	
Test specification:	1. The Electrical Power of LED luminaire was measured according to the LM 79-19 standard 2. According to the request from applicant, the Electrical Power was tested at 250 Vac, 50 Hz. 3. All tests were tested with the internal LED driver. 4. 10pcs samples were selected for test.

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1 Description of the test subject

1.1 Function

Manufacturer's specification for intended use:
Cat V Leopard

Manufacturer's specification for foreseeable use:
No restrictions provided.

1.2 Consideration of the foreseeable use

☐ Not applicable
☒ Covered through the applied standard
☐ Covered by the following comment
☐ Covered by attached risk analysis

1.3 Technical Data

LED Luminaire

(Cat V Leopard)

Model	:	See Annex 1 for details
Rated Voltage	:	220-240VAC
Rated Frequency	:	50Hz
Rated Power	:	See Annex 1 for details

2 Order

2.1 Date of Purchase Order, Customer's Reference

2022-07-12

2.2 Receipt of Test Sample, Condition, Location

10 pcs samples for each model were received
on 2022-07-12
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2.3 Date of Testing

2022-07-12 to 2022-07-21

2.4 Location of Testing

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2.5 Points of Non-compliance or Exceptions of the Test Procedure

None

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3 Test instruments and conditions

☒ Decision rule according to IEC Guide 115:2007, clause 4.4.3, 4.5.1 (accuracy method) was applied.

3.1 Test instruments

Equipment	Model	Brand/Manufacturer	Calibration due date
Digital Power Meter	WT310E	YOKOGAWA	2023-01-04
Digital Temperature and Humidity data logger	TH603	Anymetre	2022-12-18

3.2 General conditions for measurement

Ambient temperature(°C):	25±1°C
Maximum relative humidity:	50%
Maximum air speed(m/s):	0.1
Test voltage tolerance:	±0.2%
Test voltage and frequency	250V, 50Hz.

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4 Test Result

Table 1	Test data					
Sample #	Model No.	Actual Input Voltage (V)	Actual Frequency (Hz)	Actual PF	Actual Input Current (A)	Actual Input Power (W)
1	LEO075V40VSG442	250V	50	0,981	0,308	75,54
2		250V	50	0,98	0,308	75,54
3		250V	50	0,977	0,309	75,58
4		250V	50	0,985	0,307	75,57
5		250V	50	0,987	0,306	75,59
6		250V	50	0,979	0,309	75,56
7		250V	50	0,988	0,306	75,57
8		250V	50	0,981	0,308	75,58
9		250V	50	0,983	0,308	75,61
10		250V	50	0,981	0,308	75,59
Avg		250V	50	0,982	0,308	75,57
1	LEO139V40VSG442	250V	50	0,979	0,581	142,1
2		250V	50	0,981	0,578	141,8
3		250V	50	0,977	0,581	141,8
4		250V	50	0,975	0,583	142,0
5		250V	50	0,983	0,577	141,8
6		250V	50	0,979	0,579	141,8
7		250V	50	0,983	0,577	141,8
8		250V	50	0,981	0,578	141,7
9		250V	50	0,983	0,576	141,6
10		250V	50	0,981	0,579	141,9
Avg		250V	50	0,980	0,579	141,8
1	LEO228V40VSG442	250V	50	0,982	0,923	226,5

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2		250V	50	0,981	0,928	227,5
3		250V	50	0,977	0,933	227,8
4		250V	50	0,978	0,925	226,2
5		250V	50	0,983	0,924	227,1
6		250V	50	0,979	0,927	227,0
7		250V	50	0,983	0,924	227,1
8		250V	50	0,98	0,926	226,9
9		250V	50	0,977	0,928	226,7
10		250V	50	0,981	0,930	228,0
Avg		250V	50	0,980	0,927	227,1
1	LEO095V140D2SG442	250V	50	0,975	0,386	94,2
2		250V	50	0,974	0,389	94,6
3		250V	50	0,970	0,388	94,0
4		250V	50	0,971	0,389	94,5
5		250V	50	0,974	0,384	93,4
6		250V	50	0,970	0,388	94,0
7		250V	50	0,974	0,388	94,4
8		250V	50	0,971	0,388	94,3
9		250V	50	0,972	0,387	94,1
10		250V	50	0,971	0,388	94,2
Avg		250V	50	0,972	0,387	94,2
1	LEO137V140D2SG442	250V	50	0,984	0,552	135,8
2		250V	50	0,983	0,548	134,7
3		250V	50	0,979	0,553	135,3
4		250V	50	0,980	0,558	136,6
5		250V	50	0,987	0,551	136,0
6		250V	50	0,983	0,555	136,3

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7		250V	50	0,987	0,551	135,9
8		250V	50	0,984	0,553	136,0
9		250V	50	0,981	0,554	135,8
10		250V	50	0,985	0,551	135,8
Avg		250V	50	0,983	0,553	135,8
1	LEO155V140D2SG442	250V	50	0,986	0,630	155,4
2		250V	50	0,981	0,632	155,0
3		250V	50	0,988	0,628	155,1
4		250V	50	0,988	0,628	155,2
5		250V	50	0,983	0,634	155,7
6		250V	50	0,983	0,632	155,3
7		250V	50	0,983	0,631	155,1
8		250V	50	0,980	0,633	155,2
9		250V	50	0,985	0,630	155,2
10		250V	50	0,981	0,633	155,2
Avg		250V	50	0,984	0,631	155,2
1	LEO233V140D2SG442	250V	50	0,976	0,970	236,7
2		250V	50	0,973	0,970	236,0
3		250V	50	0,978	0,964	235,6
4		250V	50	0,978	0,963	235,4
5		250V	50	0,981	0,963	236,1
6		250V	50	0,973	0,969	235,7
7		250V	50	0,981	0,961	235,6
8		250V	50	0,976	0,963	235,0
9		250V	50	0,982	0,956	234,8
10		250V	50	0,981	0,957	234,6
Avg		250V	50	0,978	0,964	235,6

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5 Remark

5.1 Product is tested at the highest rated wattage.

6 Documentation

6.1 Annex 1: model list
Annex 2: rating label
Annex 3: Photo documentation.

7 Summary

See section 4 for details.

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Engineer: Jesse Hu
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Victor Meng
Designated Reviewer

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Annex 1: models list

Model	Power	Voltage/ Hz	LED Driver	size	Number of LEDs	LED Module	CCT	IP/IK Class
LEO075 V40VS G442	75	220-240VAC; 50/60Hz	EUM-075S150DG	563*340*110mm	64	CREE-XPG3	4000K	IP44; IK06
LEO139 V40VS G442	139	220-240VAC; 50/60Hz	EUM-150S420DG	563*340*110mm	128	CREE-XPG3	4000K	IP44; IK06
LEO228 V40VS G442	228	220-240VAC; 50/60Hz	EUM-240S670DG	563*340*110mm	192	CREE-XPG3	4000K	IP44; IK06
LEO095 V140D2 SG442	95	220-240VAC; 50/60Hz	EUM-150S420BG	563*340*110mm	128	CREE-XPG3	4000K	IP44; IK06
LEO137 V140D2 SG442	137	220-240VAC; 50/60Hz	EUM-150S420BG	563*340*110mm	128	CREE-XPG3	4000K	IP44; IK06
LEO155 V140D2 SG442	155	220-240VAC; 50/60Hz	EUM-150S420BG	563*340*110mm	128	CREE-XPG3	4000K	IP44; IK06
LEO233 V140D2 SG442	233	220-240VAC; 50/60Hz	EUM-240S670BG	563*340*110mm	192	CREE-XPG3	4000K	IP44; IK06

All models have enclosures of the same specification.

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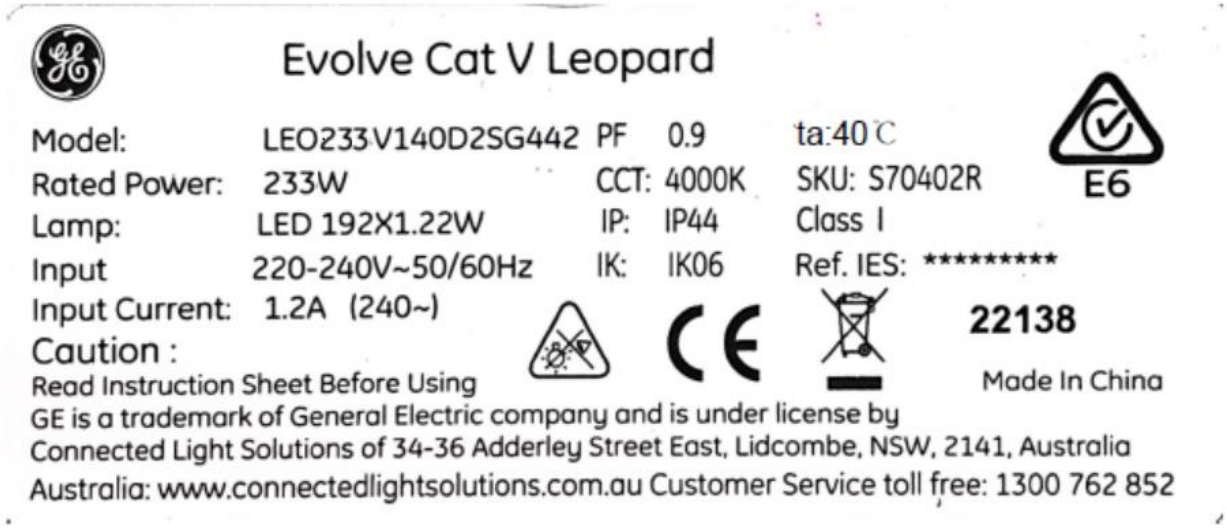
Annex 2: Rating label

1. Marking plate



Location: sticking on the external metal enclosure (Size: 100mm x 43mm)

Remark: rating label for other models are same as above model except that model number, LED power and input current and rated power are different.

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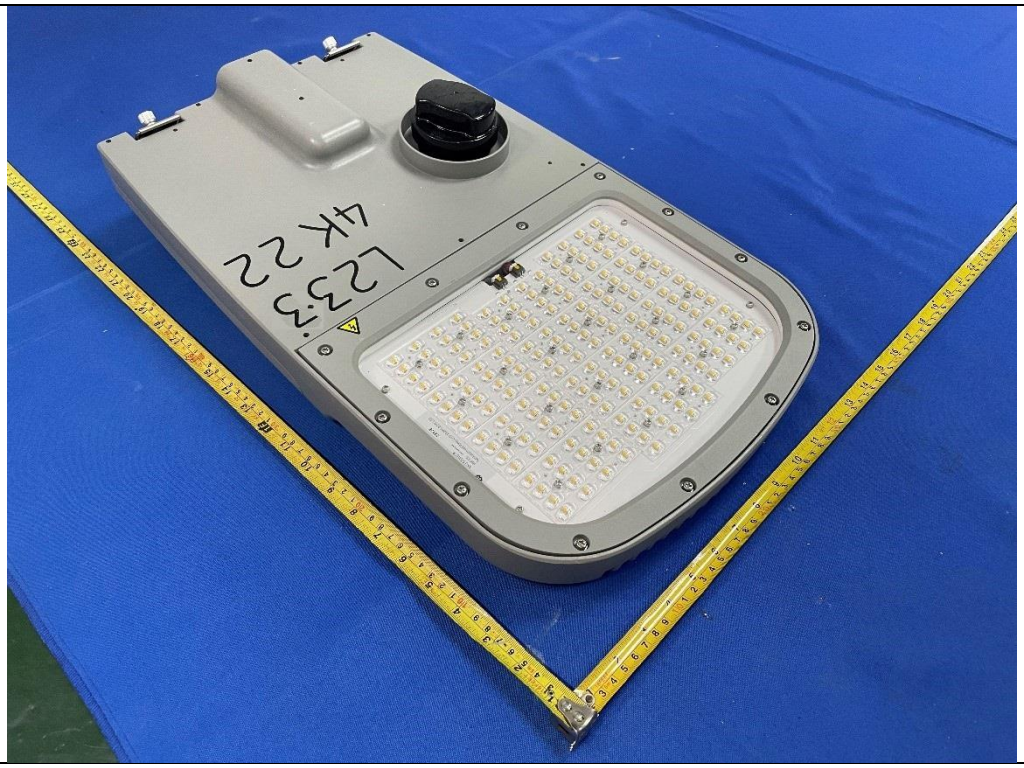
Annex 3: Photo document

Details of: Overview

Remark: All model



Details of: Overview

Remark: All model

--- End of Report ---

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