



Testing Lab.

Shenzhen LCS Compliance Testing Laboratory Ltd.



TESTING
NVLAP LAB CODE 600112-01

Report No.: LCS1701141732S

TEST REPORT of IES LM-79-08

Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products

Client..... : Shenzhen Hipower Optronics Co.,Ltd

Address..... : A Bldg, Ying HaoSheng Industrial Park, Da Yang Development Zone, Fu Yong
Town,Baoan District, Shenzhen City Guangdong Province 518103 China

Brand Name..... : LED VISION

Testing laboratory..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address..... : B Area, 2F, Building B, Zhongyu Green High-tech Industrial Park, Wenge Road,
Heshuikou, Gongming Street, Guangming New District, Shenzhen, Guangdong,
China

Product description .. : Fuel Pump Canopy Luminaires

Models..... : SPS70-CL1-CW

Rating..... : 70W AC100-277V 50/60HZ 0.9A Max

Test by: Ian Luo

Signature: Ian Luo

Reviewed by: Jesse Liu

Signature:



Test date: May 25, 2017

Reviewed date: June 01, 2017

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1. Test Method

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Test Item.....	: Integrating Sphere Test
Ambient Condition	: 25.1°C
Stabilization time	(h): 0.5h
Orientation(burning position) of SSL product during test	: down
Test Method	: The sample was tested according to the IES LM-79-2008.
	: The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

2. Product Information

Product description.....	: LED Canopy Light
Model Number.....	: SPS70-CL1-CW
Rated Inputs.....	: AC100-277V 50/60HZ
Rated Power.....	: 70W
Declared CCT.....	: 5700K
LED Manufacturer.....	: Philips
LED Model.....	: LUXEON 3030 2D
Forward current of the LED chip.....	: 150 mA
Date of Receipt Samples.....	: April 10, 2017
Quantity of Receipt Samples.....	: 1 unit

3. Test equipment list:

Manufacturer	Description	Equipment ID	Model	Calibration Date	Calibration Due Date
SENSING	Integrating Sphere System	LCS-S-183	SPR-3000	2016/08/20	2017/08/19
YOKOGAWA	Digital Power Meter	LCS-S-244	WT310	2016/08/08	2017/08/07
ALL POWER ELECTRONIC	AC Testing Power Source	LCS-S-301	APW-105N	2016/08/08	2017/08/07
SENSING	Standard Lamp	LCS-S-227	S11010017	2016/08/18	2017/08/18

4. Integrating Sphere Test Results :

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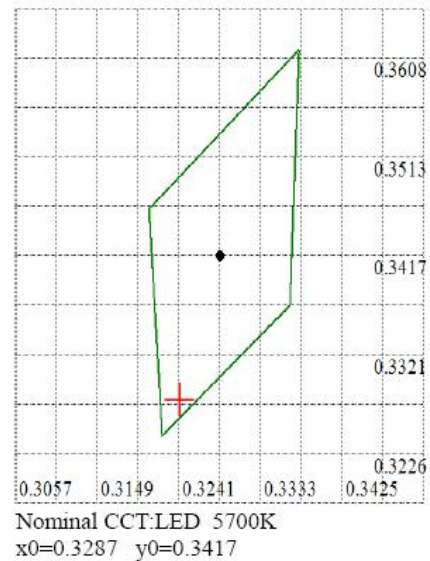
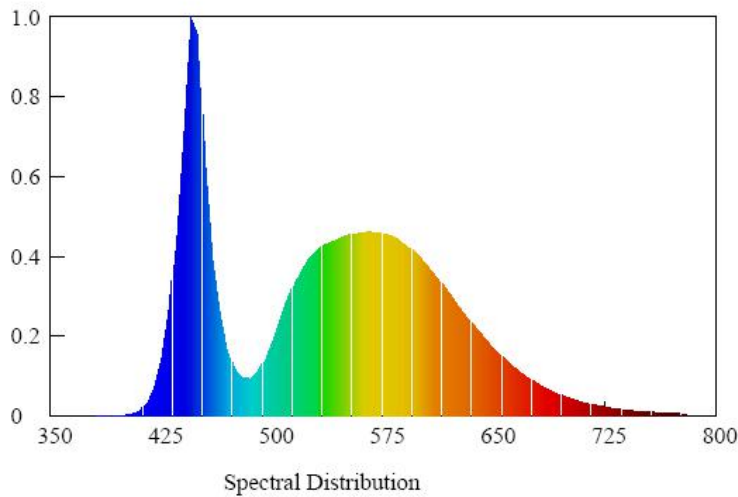
4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (w)
Input	120.1	60.0	0.594	0.997	71.2

Test type	CCT (K)	CRI	Luminous flux (lm)	Luminous efficacy(lm/w)
Output	5988	75.1	9142.08	128.4

4.2 Spectrum

Spectroradiometric Parameters



Chromaticity Coordinates: x=0.3241 y=0.3278 u'=0.2063 v'=0.4694

Correlated Color Temperature: 5988 K

Dominant Wavelength: 483.0 nm(E)

Colour Fidelity Index: Rf=69

Gamut Index: Rg=97

Luminous Flux: 9142.08 lm

Purity: 0.0354

Chromaticity Difference: -0.004Duv

Peak Wavelength: 445.0 nm

Color Ratio: Kr=31.6% Kg=58.8% Kb=9.6%

Bandwidth: 21.4nm

Radiant Flux: 24.419 W

Photosynthetically Active Radiation(PAR): 24.05W

Photosynthetic Photon Flux(PPF):108.82μmol/s

Rendering Index: Ra=75.1

R1=76 R2=78 R3=77 R4=78 R5=76 R6=69 R7=81 R8=67

R9=-5 R10=45 R11=77 R12=48 R13=75 R14=86 R15=73 Re=67



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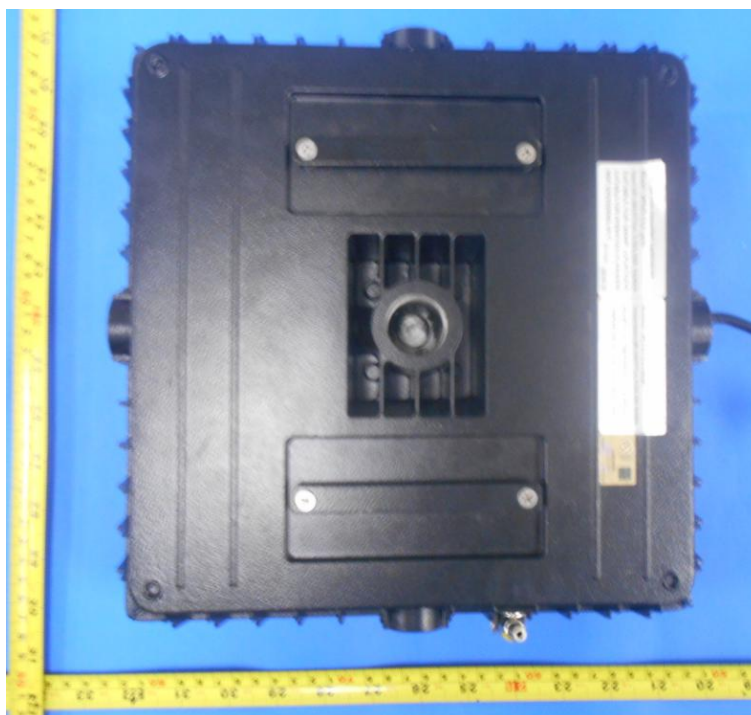
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5. Photo of sample:

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