



Photometric Test Report

Relevant Standards

- IES LM-79-2008
- ANSI C82.77-2002
- UL1598-2008/ UL1993-2012

Prepared For

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Catalog Number

HL-LI4880U

Project Number

4788153300

Report Number

4788153300-3a

Test Date

6/21/2017

Issue Date

10/19/2017

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Approved By

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The results contained in this report pertain only to the tested sample.
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2.0 Test List

Test Item	Test	Test Date	Model Number	Tests Conducted By
1	Integrating Sphere Test for the Lower Voltage	6/21/2017	HL-LI4880U	Yakima Yuan

Remark (if any)

1. UL test equipment information is recorded on Meter Use in UL's Aurora database.



3.0 Production Description

Luminaire Description: Specialty: Hazardous Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Model Number: HL-LI4880U

Rated Voltage: AC100-240V/277V

LED Package: LUXEON 5050

Photos of Luminaire Characteristics





4.0 LM-79 Measurement and Test Results

Model No.	HL-LI4880U	Sample ID.	1002578
Opreate time (Min.)	90	Stabilization time (Min.)	45

Test Method

1. The sample was tested according to the IES LM-79-2008.

2. Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C ± 1° C. The reference standard lamp is rated current 2.6A omni-directional Incandescent lamp and was calibrated by china seprei laboratory.

3. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. Coating reflectance of the integrating sphere was 90% to 98%. Photometric measurement conditions was using 4π geometry. The self-absorption factor is applied in the final test result. 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.

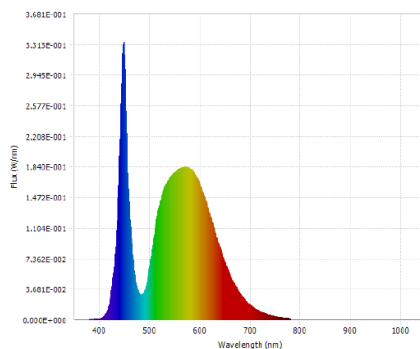
Integrating Sphere Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
25	119.95	60	0.6748	80.27	0.9918

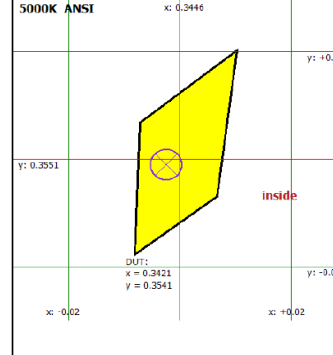
Test Results

CCT (K)	CRI (Ra)	Duv	Luminous Flux (lm)	Luminous Efficacy (lm/W)
5116	71.79	0.0024	11548	143.86

Spectral Flux Graph



Chromaticity Diagram 5000K ANSI



Spectral Result

Luminous Flux Φ(v)	11094.1 (lm)	Chrom x	0.3421
Chrom y	0.3541	Chrom u	0.2085
Chrom v	0.3236	Duv	0.0024
Chrom u'	0.2085	Chrom v'	0.4854
CCT	5118.0 (K)	Luminous Efficacy η	139.85 (lm/W)
Ra	71.79	R1	69.9
R2	75.8	R3	80.0
R4	73.3	R5	70.9
R6	67.2	R7	79.6
R8	57.6	R9	-28.3
R10	42.6	R11	71.4
R12	43.7	R13	70.2
R14	88.7	R15	64.3
Rf	70	Rg	95



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