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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

Prepared For
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Catalog Number
SM-APII-LED-x44-WW-12-C
Order Number
11708270
Test Number
11708270.03

Test Date

2017-06-21

Prepared By

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Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular white metal housing and outer patterned glass lens
Lamp: One (1) white LED with optic attached
Mounting: Base Up
Ballast/Driver: SOLOdrive 561/S

Luminaire



Summary of Results

Radiant Flux:	9311 mW
Luminous Flux:	3040 lm
Luminaire Efficacy:	90.8 lm/W
CCT:	2999 K
CRI (Ra):	82.9
Chromaticity (x):	0.4355
Chromaticity (y):	0.4013
Chromaticity (u):	0.2509
Chromaticity (v):	0.3467
Duv:	-0.0010

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.2828 A
Power:	33.49 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	6.28 %

Testing was performed in a 3-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



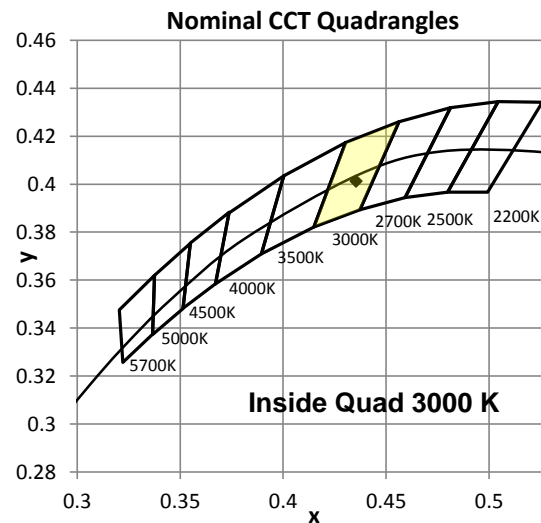
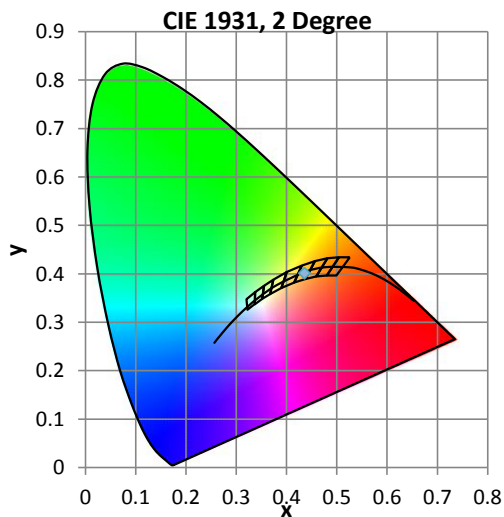
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.2828 A	33.49 W	0.986	60 Hz	6.28 %

Summary of Results

Total Output:	3040 Lumens	Chromaticity (x):	0.4355
Efficacy:	90.8 lm/w	Chromaticity (y):	0.4013
CCT:	2999 K	Chromaticity (u'):	0.2509
CRI (Ra):	82.9	Chromaticity (v'):	0.5201
CRI (R9):	9.0	TM-30 Rf:	83.2
Peak Wavelength:	605.2 nm	TM-30 Rg:	96.9
Dominant Wavelength:	583.1 nm	Duv:	-0.0010
S/P Ratio:	1.349		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.9	81.4	91.2	96.3	81.1	81.8	89.4	82.8	59.6	9.0	80.1	80.6	73.8	83.7	98.6

