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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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United States

Catalog Number
YO-LED-X45-WHP-WW
Order Number
11827519
Test Number
11827519.05

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: White metal mount with cylindrical housing and clear glass lens.
Lamp: One (1) white LED with optic attached
Mounting: Surface - Ground
Ballast/Driver: ECOdrive 561/S

Luminaire



Summary of Results

Radiant Flux:	8840 mW
Luminous Flux:	2888 lm
Luminaire Efficacy:	86.6 lm/W
CCT:	3962 K
CRI (Ra):	82.7
Chromaticity (x):	0.3818
Chromaticity (y):	0.3769
Chromaticity (u):	0.2259
Chromaticity (v):	0.3345
Duv:	-0.0004

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.2804 A
Power:	33.34 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	7.58 %

Testing was performed in a 2-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



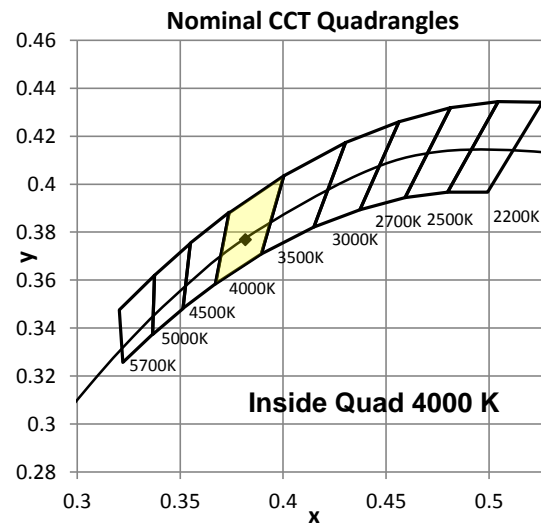
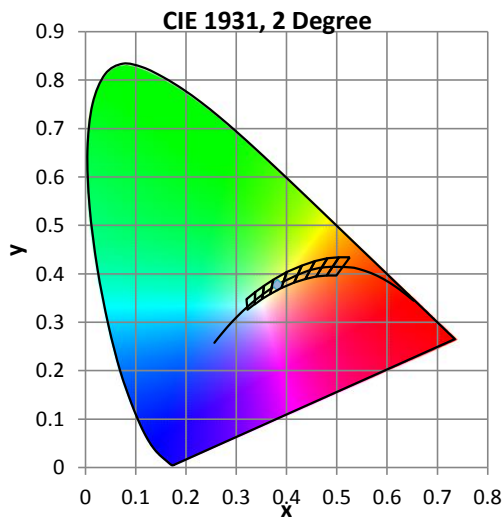
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.2804 A	33.34 W	0.991	60 Hz	7.58 %

Summary of Results

Total Output:	2888 Lumens	Chromaticity (x):	0.3818
Efficacy:	86.6 lm/w	Chromaticity (y):	0.3769
CCT:	3962 K	Chromaticity (u'):	0.2259
CRI (Ra):	82.7	Chromaticity (v'):	0.5018
CRI (R9):	9.7	TM-30 Rf:	81.9
Peak Wavelength:	450.7 nm	TM-30 Rg:	95.8
Dominant Wavelength:	579.4 nm	Duv:	-0.0004
S/P Ratio:	1.669		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.7	81.0	88.9	94.2	81.4	81.0	84.2	86.0	64.9	9.7	73.2	79.7	62.3	82.9	96.9

