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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
YO-LED-X85-WHP-WW
Order Number
11827519
Test Number
11827519.10

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:	6065 mW
Luminous Flux:	1978 lm
Luminaire Efficacy:	87.4 lm/W
CCT:	3926 K
CRI (Ra):	83.1
Chromaticity (x):	0.3831
Chromaticity (y):	0.3768
Chromaticity (u):	0.2269
Chromaticity (v):	0.3347
Duv:	-0.0008

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.1908 A
Power:	22.62 W
Power Factor:	0.988
Frequency:	60 Hz
Current THD:	7.23 %

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



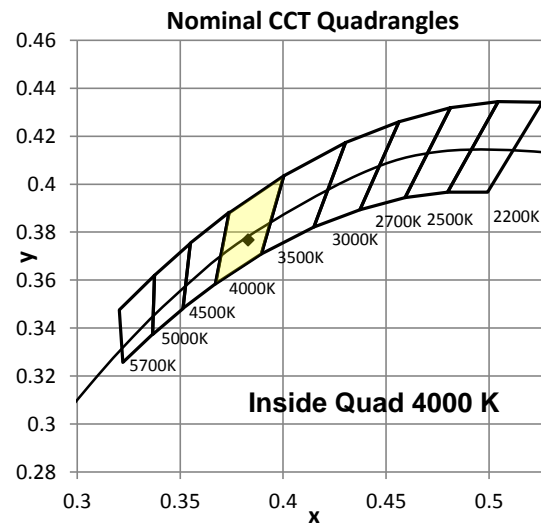
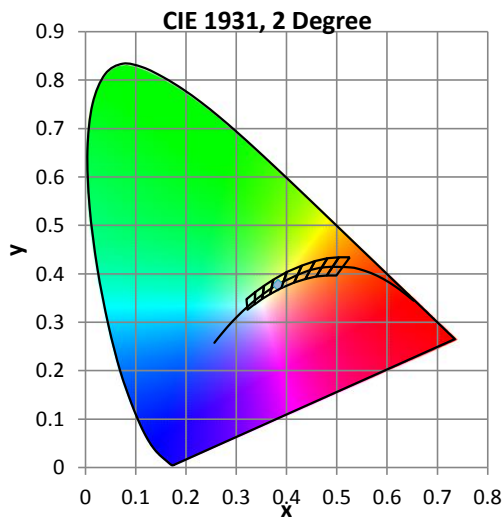
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.1908 A	22.62 W	0.988	60 Hz	7.23 %

Summary of Results

Total Output:	1978 Lumens	Chromaticity (x):	0.3831
Efficacy:	87.4 lm/w	Chromaticity (y):	0.3768
CCT:	3926 K	Chromaticity (u'):	0.2269
CRI (Ra):	83.1	Chromaticity (v'):	0.5020
CRI (R9):	12.1	TM-30 Rf:	82.1
Peak Wavelength:	450.2 nm	TM-30 Rg:	96.5
Dominant Wavelength:	579.8 nm	Duv:	-0.0008
S/P Ratio:	1.66		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.1	81.6	89.1	94.2	82.1	81.6	84.5	86.2	65.7	12.1	73.7	80.6	63.0	83.4	96.8

