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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
LBS-LED-X48-BW-36
Order Number
12012109
Test Number
12012109.01A
Revised Date:
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Test Date

2017-10-31

Prepared By

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The results contained in this report pertain only to the tested sample.
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Luminaire Description: Decorative white metal housing, reflector, clear plastic lens, and standing pole base
Lamp: One (1) white LED with optic
Mounting: Post
Ballast/Driver: One (1) ECOdrive 561/S

Luminaire



Summary of Results

Radiant Flux:	15930 mW
Luminous Flux:	5180 lm
Luminaire Efficacy:	129.4 lm/W
CCT:	4045 K
CRI (Ra):	83.1
Chromaticity (x):	0.3785
Chromaticity (y):	0.3760
Chromaticity (u):	0.2241
Chromaticity (v):	0.3340
Duv:	0.0004

Test Conditions

Test Temperature:	24.2 °C
Voltage:	120.1 VAC
Current:	0.3368 A
Power:	40.03 W
Power Factor:	0.990
Frequency:	60 Hz
Current THD:	6.60 %

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



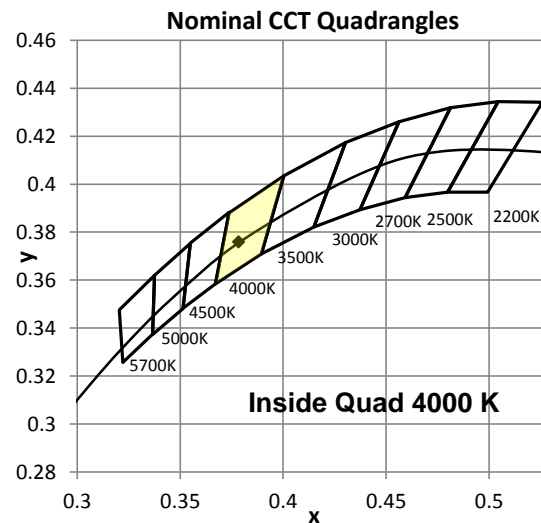
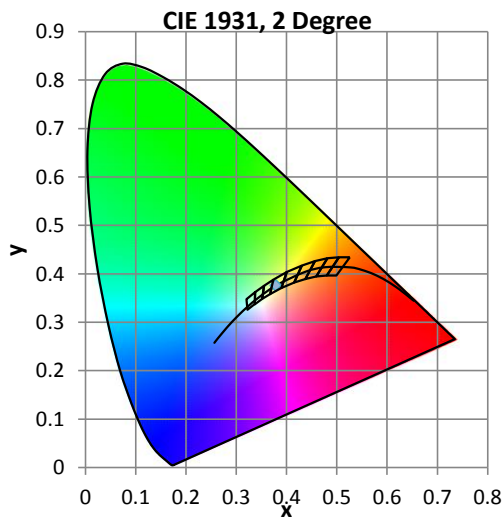
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.2 °C	120.1 VAC	0.3368 A	40.03 W	0.990	60 Hz	6.60 %

Summary of Results

Total Output:	5180 Lumens	Chromaticity (x):	0.3785
Efficacy:	129.4 lm/w	Chromaticity (y):	0.3760
CCT:	4045 K	Chromaticity (u'):	0.2241
CRI (Ra):	83.1	Chromaticity (v'):	0.5010
CRI (R9):	11.2	TM-30 Rf:	81.9
Peak Wavelength:	452 nm	TM-30 Rg:	95.1
Dominant Wavelength:	578.8 nm	Duv:	0.0004
S/P Ratio:	1.703		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.1	81.3	89.5	94.6	81.2	81.1	84.7	86.4	65.5	11.2	74.3	79.4	61.1	83.4	97.2	75.9

