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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
B-K Lighting Inc
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United States

Catalog Number
LBP-LED-X45-BW-27-WHP
Order Number
12003486
Test Number
12003486.05

Test Date

2017-10-20

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: Decorative white metal housing with shade, 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:	11440 mW
Luminous Flux:	3728 lm
Luminaire Efficacy:	116.2 lm/W
CCT:	4011 K
CRI (Ra):	83.2
Chromaticity (x):	0.3798
Chromaticity (y):	0.3763
Chromaticity (u):	0.2249
Chromaticity (v):	0.3342
Duv:	0.0008

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.1 VAC
Current:	0.2713 A
Power:	32.07 W
Power Factor:	0.984
Frequency:	60 Hz
Current THD:	8.97 %

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



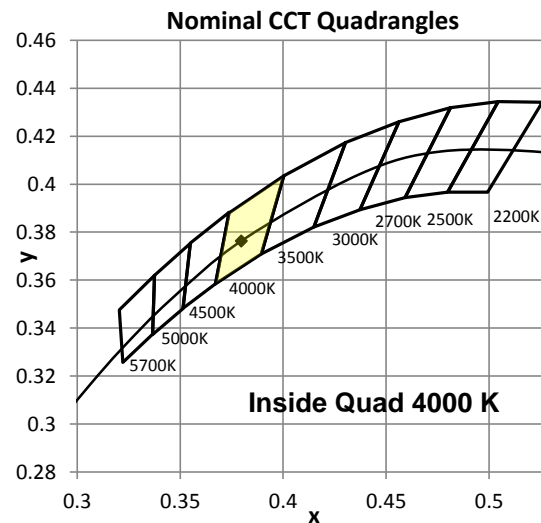
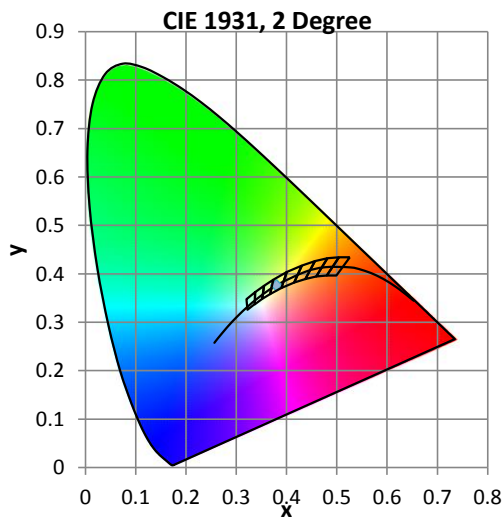
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.2713 A	32.07 W	0.984	60 Hz	8.97 %

Summary of Results

Total Output:	3728 Lumens	Chromaticity (x):	0.3798
Efficacy:	116.2 lm/w	Chromaticity (y):	0.3763
CCT:	4011 K	Chromaticity (u'):	0.2249
CRI (Ra):	83.2	Chromaticity (v'):	0.5013
CRI (R9):	11.8	TM-30 Rf:	81.3
Peak Wavelength:	454.5 nm	TM-30 Rg:	94
Dominant Wavelength:	579 nm	Duv:	0.0008
S/P Ratio:	1.706		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.2	81.8	90.6	95.3	80.3	81.2	85.8	85.8	65.1	11.8	76.4	78.2	60.1	84.2	97.7	76.3

