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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-X44-BW-27-WHP
Order Number
12003486
Test Number
12003486.03

Test Date

2017-10-19

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:	10870 mW
Luminous Flux:	3553 lm
Luminaire Efficacy:	109.0 lm/W
CCT:	3071 K
CRI (Ra):	82.9
Chromaticity (x):	0.4306
Chromaticity (y):	0.3997
Chromaticity (u):	0.2484
Chromaticity (v):	0.3458
Duv:	-0.0009

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.2757 A
Power:	32.60 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	8.77 %

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



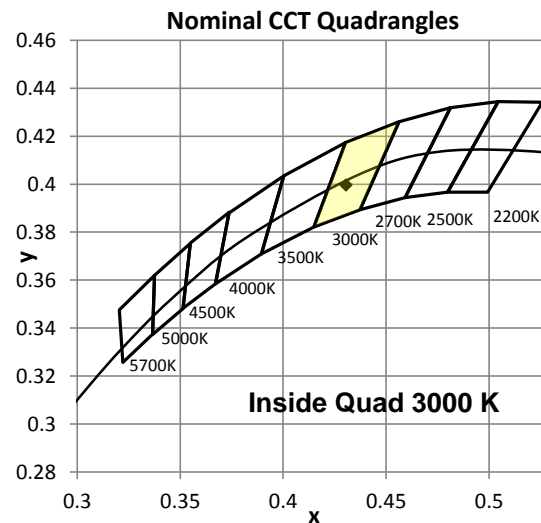
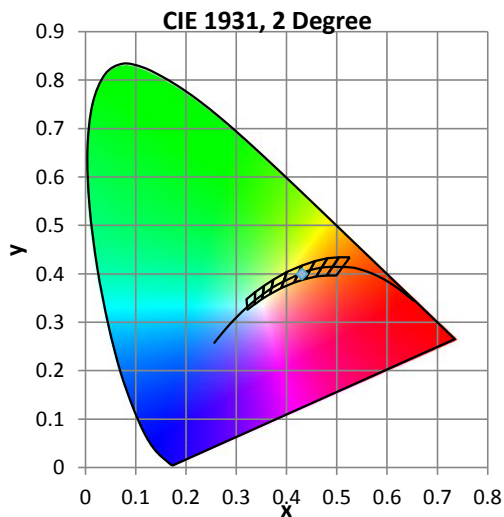
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.2757 A	32.60 W	0.985	60 Hz	8.77 %

Summary of Results

Total Output:	3553 Lumens	Chromaticity (x):	0.4306
Efficacy:	109.0 lm/w	Chromaticity (y):	0.3997
CCT:	3071 K	Chromaticity (u'):	0.2484
CRI (Ra):	82.9	Chromaticity (v'):	0.5187
CRI (R9):	8.6	TM-30 Rf:	83.2
Peak Wavelength:	603.6 nm	TM-30 Rg:	96.8
Dominant Wavelength:	582.8 nm	Duv:	-0.0009
S/P Ratio:	1.377		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.9	81.3	91.1	96.3	81.0	81.7	89.0	83.0	59.9	8.6	79.7	80.5	72.9	83.6	98.6	74.2

