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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-49X-BW-36
Order Number
11996651
Test Number
11996651.01

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) Thomas Research Products PLED75W-054-C1400-D

Luminaire



Summary of Results

Radiant Flux:	19330 mW
Luminous Flux:	6274 lm
Luminaire Efficacy:	111.0 lm/W
CCT:	2760 K
CRI (Ra):	80.9
Chromaticity (x):	0.4543
Chromaticity (y):	0.4084
Chromaticity (u):	0.2599
Chromaticity (v):	0.3504
Duv:	0.0005

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.4733 A
Power:	56.51 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	6.29 %

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



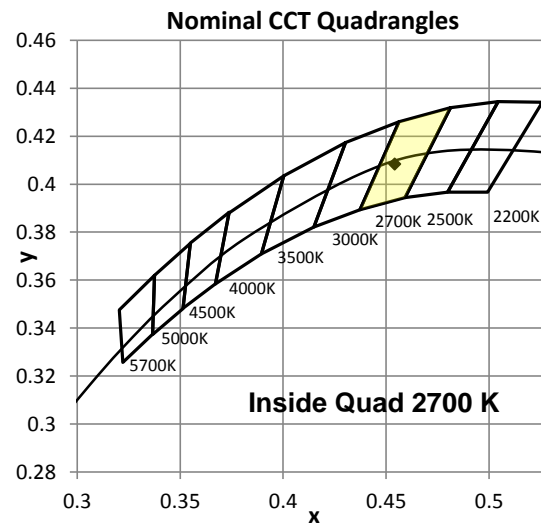
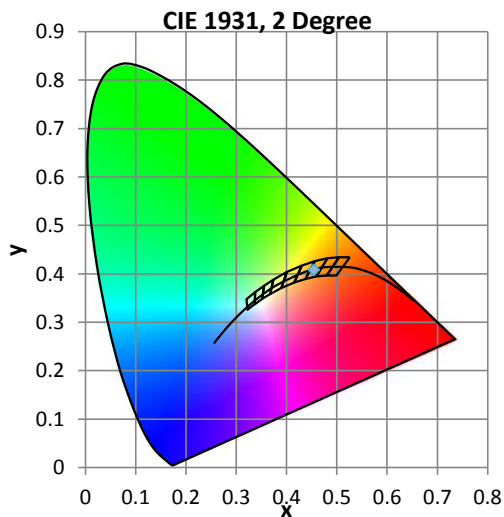
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.1 VAC	0.4733 A	56.51 W	0.994	60 Hz	6.29 %

Summary of Results

Total Output:	6274 Lumens	Chromaticity (x):	0.4543
Efficacy:	111.0 lm/w	Chromaticity (y):	0.4084
CCT:	2760 K	Chromaticity (u'):	0.2599
CRI (Ra):	80.9	Chromaticity (v'):	0.5257
CRI (R9):	2.1	TM-30 Rf:	82.3
Peak Wavelength:	605.1 nm	TM-30 Rg:	94.7
Dominant Wavelength:	584 nm	Duv:	0.0005
S/P Ratio:	1.243		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.9	79.3	91.4	94.4	77.6	79.6	90.1	80.2	54.7	2.1	80.8	76.4	74.3	82.1	97.6	71.5

