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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
Chris McCarthy
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
LBP-LED-51X-BW-36
Order Number
11996651
Test Number
11996651.04

Test Date

2017-10-16

Prepared By

William Escobar, Technician

Approved By

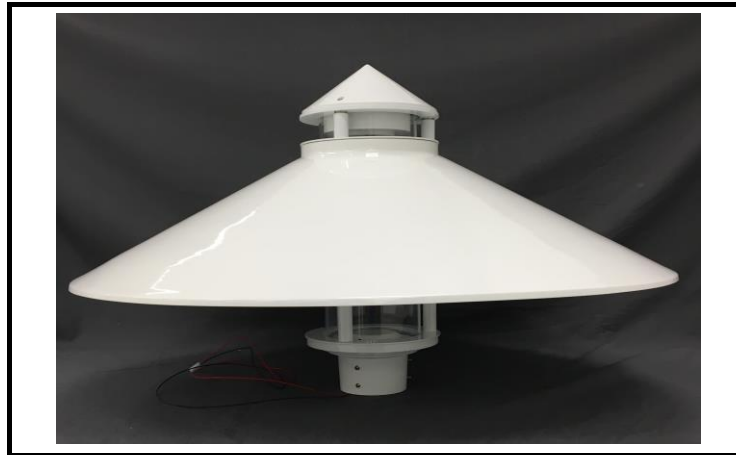
Eric Gaudreau, Senior Engineering Associate

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:	21970 mW
Luminous Flux:	7148 lm
Luminaire Efficacy:	126.4 lm/W
CCT:	4046 K
CRI (Ra):	82.9
Chromaticity (x):	0.3785
Chromaticity (y):	0.3761
Chromaticity (u):	0.2241
Chromaticity (v):	0.3340
Duv:	0.0004

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.4738 A
Power:	56.54 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.



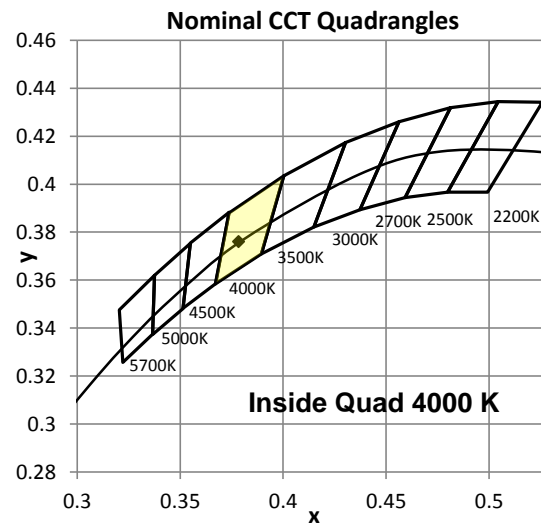
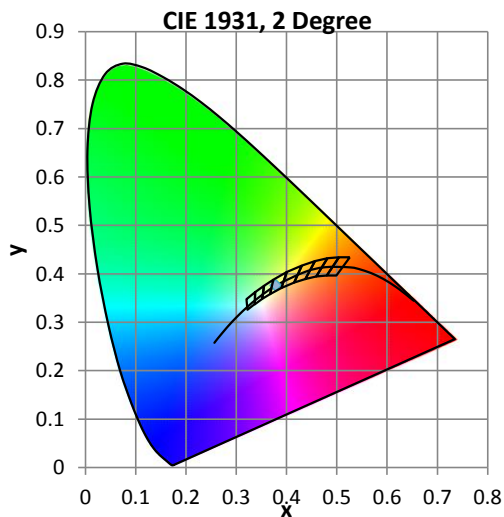
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.4738 A	56.54 W	0.994	60 Hz	6.29 %

Summary of Results

Total Output:	7148 Lumens	Chromaticity (x):	0.3785
Efficacy:	126.4 lm/w	Chromaticity (y):	0.3761
CCT:	4046 K	Chromaticity (u'):	0.2241
CRI (Ra):	82.9	Chromaticity (v'):	0.5010
CRI (R9):	10.8	TM-30 Rf:	81.9
Peak Wavelength:	451.6 nm	TM-30 Rg:	95.2
Dominant Wavelength:	578.7 nm	Duv:	0.0004
S/P Ratio:	1.7		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.9	81.2	89.2	94.4	81.3	81.0	84.4	86.4	65.5	10.8	73.7	79.4	61.1	83.2	97.0	75.6

