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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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Madera, CA 93636-9515
United States

Catalog Number
TWB-LED-X83
Order Number
12073427
Test Number
12073427.07

Test Date

2017-12-12

Prepared By

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Approved By

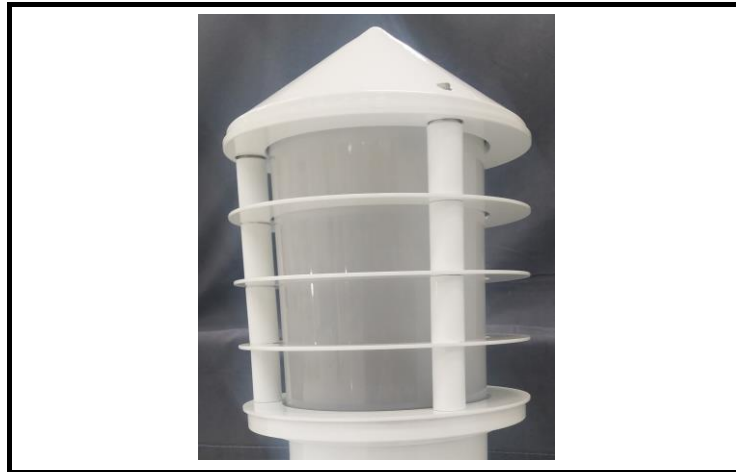
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Decorative white metal housing with louvers and frosted lens
Lamp: One (1) white LED
Mounting: Post
Ballast/Driver: One (1) ECOdrive 361/S

Luminaire



Summary of Results

Radiant Flux:	4885 mW
Luminous Flux:	1583 lm
Luminaire Efficacy:	71.6 lm/W
CCT:	2767 K
CRI (Ra):	81.9
Chromaticity (x):	0.4562
Chromaticity (y):	0.4127
Chromaticity (u):	0.2592
Chromaticity (v):	0.3517
Duv:	0.0010

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.1 VAC
Current:	0.1904 A
Power:	22.12 W
Power Factor:	0.968
Frequency:	60 Hz
Current THD:	13.3 %

Testing was performed in a 2-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



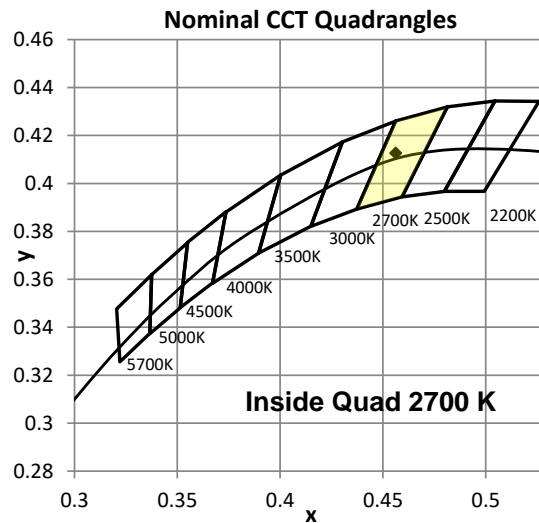
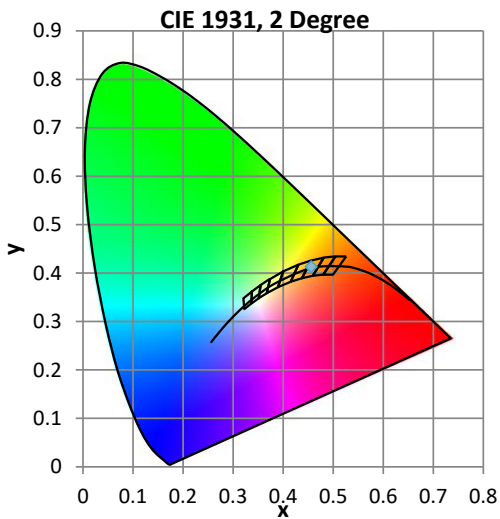
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.1904 A	22.12 W	0.968	60 Hz	13.3 %

Summary of Results

Total Output:	1583 Lumens	Chromaticity (x):	0.4562
Efficacy:	71.6 lm/w	Chromaticity (y):	0.4127
CCT:	2767 K	Chromaticity (u'):	0.2592
CRI (Ra):	81.9	Chromaticity (v'):	0.5276
CRI (R9):	6.8	TM-30 Rf:	83.2
Peak Wavelength:	606.4 nm	TM-30 Rg:	94.2
Dominant Wavelength:	583.5 nm	Duv:	0.0010
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
81.9	80.2	91.3	95.6	79.0	80.3	90.0	81.8	57.3	6.8	80.6	77.8	73.0	82.7	98.3	72.5

