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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
LTL-X45-LED
Order Number
12033910
Test Number
12033910.06

Test Date

2017-11-15

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 with optic
Mounting: Post
Ballast/Driver: One (1) ECOdrive 561/S

Luminaire



Summary of Results

Radiant Flux:	6769 mW
Luminous Flux:	2188 lm
Luminaire Efficacy:	65.8 lm/W
CCT:	4017 K
CRI (Ra):	83.4
Chromaticity (x):	0.3789
Chromaticity (y):	0.3736
Chromaticity (u):	0.2253
Chromaticity (v):	0.3333
Duv:	-0.0017

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.2793 A
Power:	33.25 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	7.38 %

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



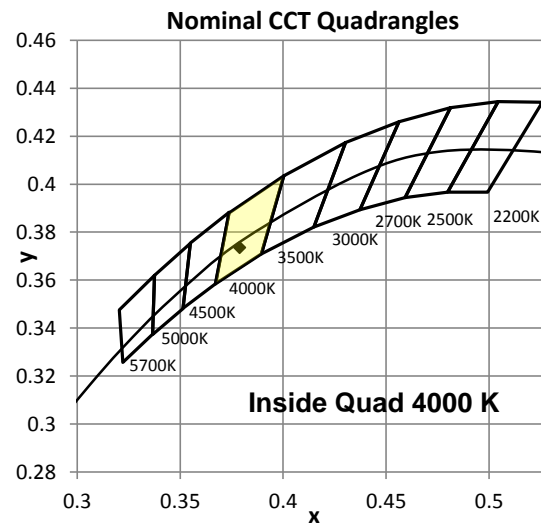
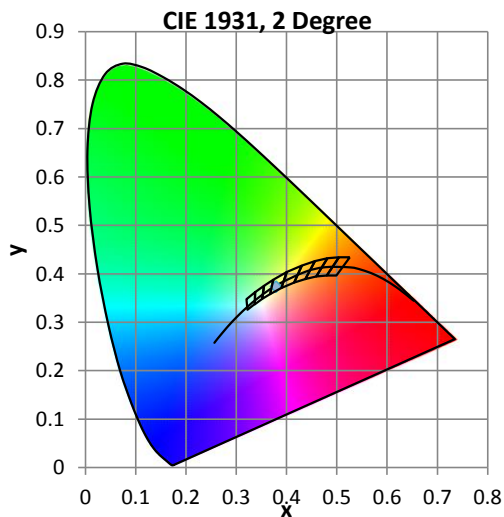
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.2793 A	33.25 W	0.991	60 Hz	7.38 %

Summary of Results

Total Output:	2188 Lumens	Chromaticity (x):	0.3789
Efficacy:	65.8 lm/w	Chromaticity (y):	0.3736
CCT:	4017 K	Chromaticity (u'):	0.2253
CRI (Ra):	83.4	Chromaticity (v'):	0.5000
CRI (R9):	13.2	TM-30 Rf:	81.7
Peak Wavelength:	453.7 nm	TM-30 Rg:	94.9
Dominant Wavelength:	579.6 nm	Duv:	-0.0017
S/P Ratio:	1.704		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.4	82.0	90.4	94.9	80.9	81.6	85.5	86.0	65.8	13.2	75.8	78.8	61.5	84.3	97.3	77.1

