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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
TWB-LED-X84
Order Number
12073427
Test Number
12073427.08

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:	5026 mW
Luminous Flux:	1650 lm
Luminaire Efficacy:	73.9 lm/W
CCT:	3129 K
CRI (Ra):	83.0
Chromaticity (x):	0.4270
Chromaticity (y):	0.3989
Chromaticity (u):	0.2464
Chromaticity (v):	0.3452
Duv:	-0.0010

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.1921 A
Power:	22.33 W
Power Factor:	0.968
Frequency:	60 Hz
Current THD:	13.6 %

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



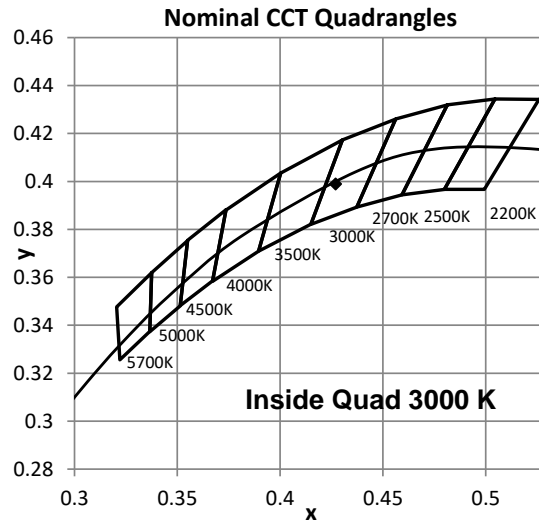
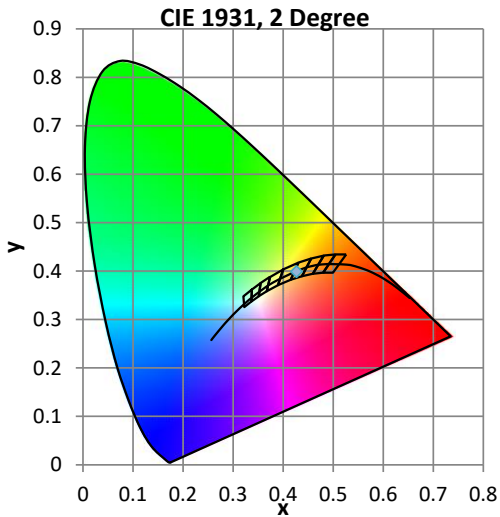
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.1921 A	22.33 W	0.968	60 Hz	13.6 %

Summary of Results

Total Output:	1650 Lumens	Chromaticity (x):	0.4270
Efficacy:	73.9 lm/w	Chromaticity (y):	0.3989
CCT:	3129 K	Chromaticity (u'):	0.2464
CRI (Ra):	83.0	Chromaticity (v'):	0.5178
CRI (R9):	7.8	TM-30 Rf:	83.4
Peak Wavelength:	602.5 nm	TM-30 Rg:	96.3
Dominant Wavelength:	582.5 nm	Duv:	-0.0010
S/P Ratio:	1.407		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.0	81.5	91.4	96.1	81.1	82.0	89.5	82.9	59.7	7.8	80.4	80.6	73.0	83.9	98.5	74.2

