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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
MBP-LED-e94-SD8

Order Number
11609588
Test Number
11609588.26

Test Date

2017-07-13

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 reflector and diffuse lens.
Lamp: Three (3) white LEDs
Mounting: Ground recessed
Ballast/Driver: Unmarked power supply

Luminaire



Summary of Results

Radiant Flux:	906.6 mW
Luminous Flux:	297.5 lm
Luminaire Efficacy:	47.5 lm/W
CCT:	2984 K
CRI (Ra):	82.1
Chromaticity (x):	0.4405
Chromaticity (y):	0.4097
Chromaticity (u):	0.2505
Chromaticity (v):	0.3494
Duv:	0.0016

Test Conditions

Test Temperature:	25.5 °C
Voltage:	120.1 VAC
Current:	0.05932 A
Power:	6.267 W
Power Factor:	0.880
Frequency:	60 Hz
Current THD:	36.3 %

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



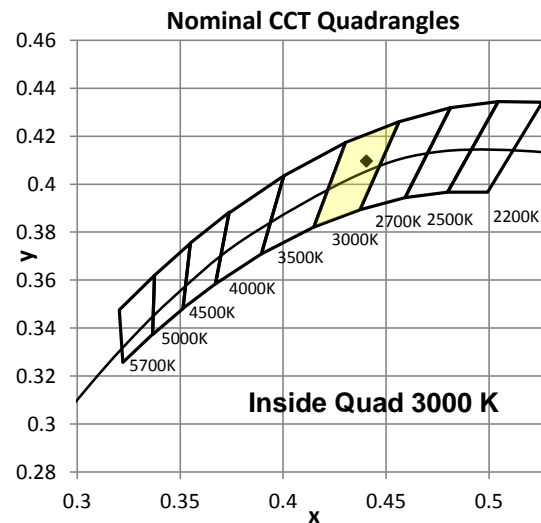
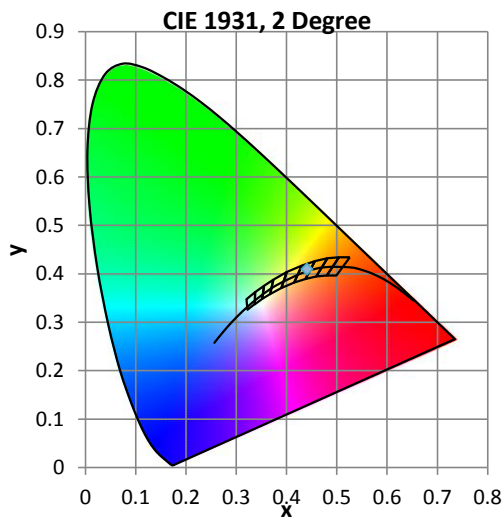
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.05932 A	6.267 W	0.880	60 Hz	36.3 %

Summary of Results

Total Output:	298 Lumens	Chromaticity (x):	0.4405
Efficacy:	47.5 lm/w	Chromaticity (y):	0.4097
CCT:	2984 K	Chromaticity (u'):	0.2505
CRI (Ra):	82.1	Chromaticity (v'):	0.5241
CRI (R9):	10.4	TM-30 Rf:	82.1
Peak Wavelength:	605.6 nm	TM-30 Rg:	97.5
Dominant Wavelength:	582.3 nm	Duv:	0.0016
S/P Ratio:	1.287		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.1	80.4	88.1	95.2	81.6	79.8	84.7	85.2	61.9	10.4	72.4	80.5	66.2	81.8	96.9

