



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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

Represented Catalog Numbers:
BWM-LED-L15-SD12, BWM-LED-L15-SD10, BSM-LED-L15-SD12,
BSM-LED-L15-SD10, SWM-LED-L15

Tested Catalog Number
BWM-LED-L15-SD12

Order Number
11609588
Test Number
11609588.01A

Revised:
2017-05-19
Test Date

2017-04-20

Prepared By

Khang Nguyen, 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 baffles, reflector and diffuse lens.
Lamp: White LED array
Mounting: Surface – Wall

Luminaire



Summary of Results

Radiant Flux:	3069 mW
Luminous Flux:	824.4 lm
Luminaire Efficacy:	42.3 lm/W
CCT:	2637 K
CRI (Ra):	93.9
Chromaticity (x):	0.4581
Chromaticity (y):	0.3997
Chromaticity (u):	0.2663
Chromaticity (v):	0.3486
Duv:	-0.0040

Test Conditions

Test Temperature:	25.8 °C
Voltage:	120.0 VAC
Current:	0.1659 A
Power:	19.51 W
Power Factor:	0.980
Frequency:	60 Hz
Current THD:	19.2 %

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



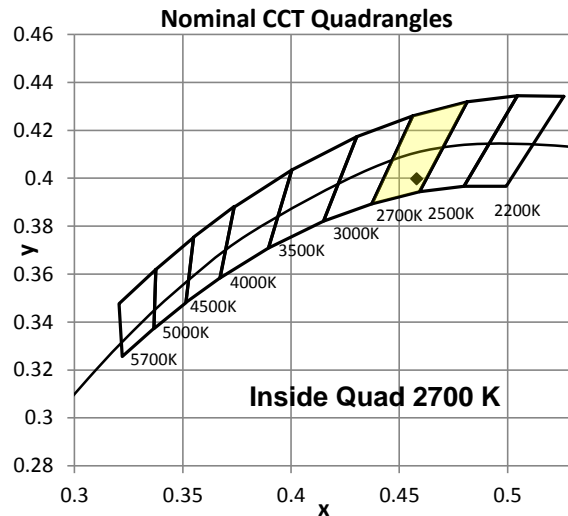
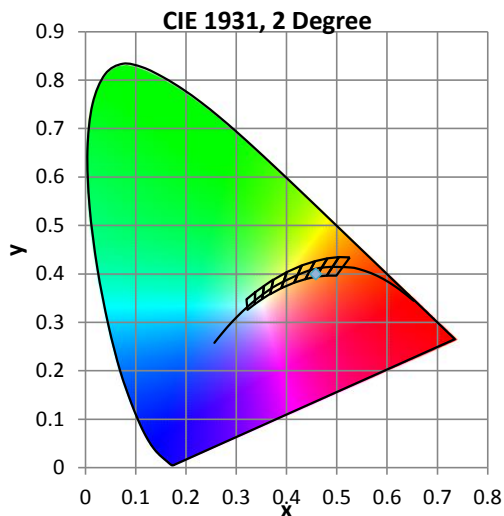
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.1659 A	19.51 W	0.980	60 Hz	19.2 %

Summary of Results

Total Output:	824 Lumens	Chromaticity (x):	0.4581
Efficacy:	42.3 lm/w	Chromaticity (y):	0.3997
CCT:	2637 K	Chromaticity (u'):	0.2663
CRI (Ra):	93.9	Chromaticity (v'):	0.5228
CRI (R9):	67.3	TM-30 R _f :	90.9
Peak Wavelength:	626 nm	TM-30 R _g :	100.7
Dominant Wavelength:	585.9 nm	Duv:	-0.0040
S/P Ratio:	1.299		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
93.9	95.8	98.9	97.4	93.5	95.9	95.9	90.3	83.3	67.3	97.3	94.4	86.9	97.3	99.4

