



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

Catalog Number
SM-APII-LED-x45-WW-12-C
Order Number
11708270
Test Number
11708270.05

Test Date

2017-06-21

Prepared By

Tony Rubio, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Circular white metal housing and outer patterned glass lens
Lamp: One (1) white LED with optic attached
Mounting: Base Up
Ballast/Driver: SOLOdrive 561/S

Luminaire



Summary of Results

Radiant Flux:	9533 mW
Luminous Flux:	3118 lm
Luminaire Efficacy:	93.5 lm/W
CCT:	3868 K
CRI (Ra):	82.9
Chromaticity (x):	0.3862
Chromaticity (y):	0.3799
Chromaticity (u):	0.2276
Chromaticity (v):	0.3359
Duv:	0.0003

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.1 VAC
Current:	0.2811 A
Power:	33.35 W
Power Factor:	0.988
Frequency:	60 Hz
Current THD:	6.42 %

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



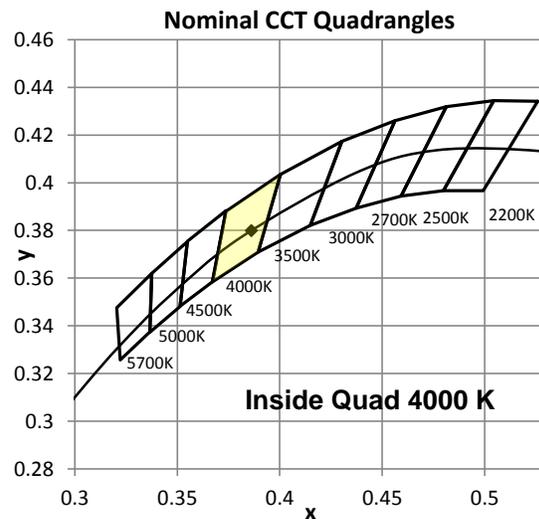
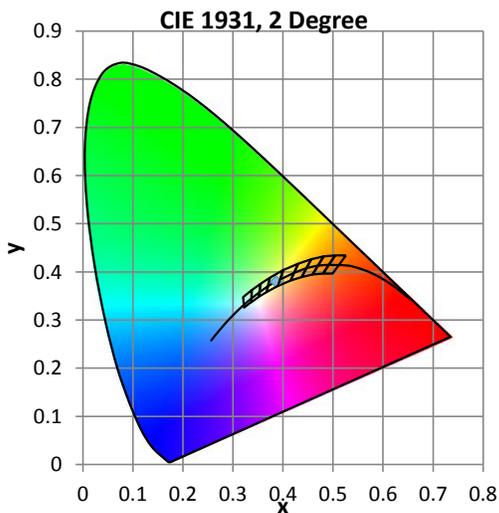
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.2811 A	33.35 W	0.988	60 Hz	6.42 %

Summary of Results

Total Output:	3118 Lumens	Chromaticity (x):	0.3862
Efficacy:	93.5 lm/w	Chromaticity (y):	0.3799
CCT:	3868 K	Chromaticity (u'):	0.2276
CRI (Ra):	82.9	Chromaticity (v'):	0.5038
CRI (R9):	10.6	TM-30 Rf:	82.2
Peak Wavelength:	449.6 nm	TM-30 Rg:	96.5
Dominant Wavelength:	579.7 nm	Duv:	0.0003
S/P Ratio:	1.638		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.9	81.2	88.8	94.2	81.9	81.2	84.3	86.1	65.1	10.6	73.1	80.5	63.7	82.9	96.8

