



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  
**BPM-SD15-LED-x45-A**  
Order Number  
11609603  
Test Number  
11609603.16

Test Date

2017-08-08

Prepared By

William Escobar, 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:** Decorative white metal housing, reflector, and diffuse lens.  
**Lamp:** One (1) White LEDs  
**Mounting:** Post  
**Ballast/Driver:** One (1) eldoLED ECOdrive 561/S

**Luminaire**



**Summary of Results**

Radiant Flux:	5898 mW
Luminous Flux:	1928 lm
Luminaire Efficacy:	86.3 lm/W
CCT:	3969 K
CRI (Ra):	83.3
Chromaticity (x):	0.3827
Chromaticity (y):	0.3810
Chromaticity (u):	0.2249
Chromaticity (v):	0.3359
Duv:	0.0013

**Test Conditions**

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.1889 A
Power:	22.34 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	7.74 %

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



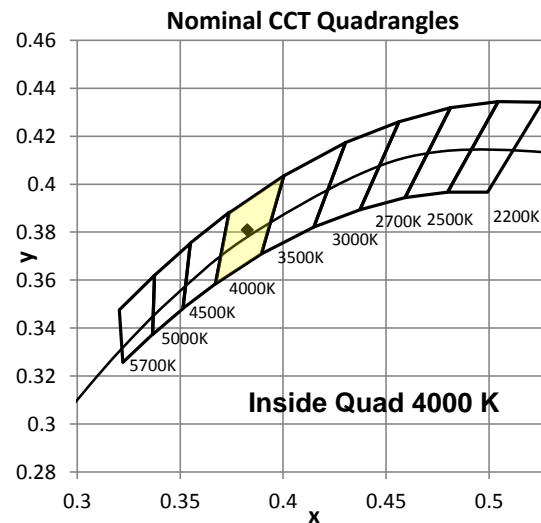
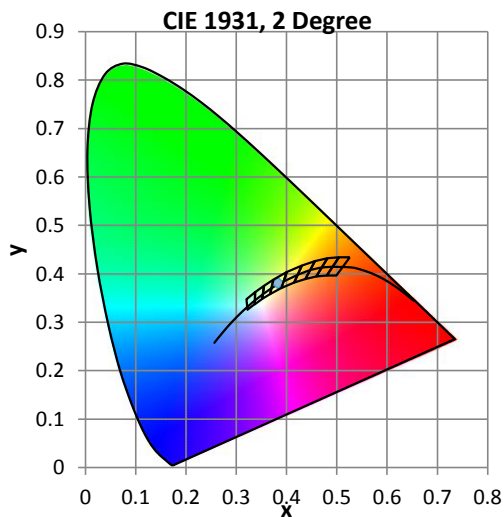
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.1889 A	22.34 W	0.985	60 Hz	7.74 %

### Summary of Results

Total Output:	1928 Lumens	Chromaticity (x):	0.3827
Efficacy:	86.3 lm/w	Chromaticity (y):	0.3810
CCT:	3969 K	Chromaticity (u'):	0.2249
CRI (Ra):	83.3	Chromaticity (v'):	0.5038
CRI (R9):	12.0	TM-30 Rf:	82.1
Peak Wavelength:	453.3 nm	TM-30 Rg:	94.2
Dominant Wavelength:	578.5 nm	Duv:	0.0013
S/P Ratio:	1.689		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.3	81.5	90.1	95.5	80.8	81.1	85.6	86.4	65.4	12.0	75.7	78.8	61.0	83.8	97.6

