



UL LLC  
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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

**Represented Catalog Numbers:**  
**BWM-LED-L16-SD12, BWM-LED-L16-SD10, BSM-LED-L16-SD12,**  
**BSM-LED-L16-SD10, SWM-LED-L16**

**Tested Catalog Number**  
**BWM-LED-L16-SD12**

Order Number

11609588

Test Number

11609588.02A

Revised:

2017-05-19

Test Date

2017-04-20

Prepared By

William Escobar, 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:	3117 mW
Luminous Flux:	871.3 lm
Luminaire Efficacy:	44.4 lm/W
CCT:	3004 K
CRI (Ra):	93.3
Chromaticity (x):	0.4329
Chromaticity (y):	0.3966
Chromaticity (u):	0.2512
Chromaticity (v):	0.3452
Duv:	-0.0026

**Test Conditions**

Test Temperature:	25.4 °C
Voltage:	120.1 VAC
Current:	0.1667 A
Power:	19.60 W
Power Factor:	0.979
Frequency:	60 Hz
Current THD:	19.9 %

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



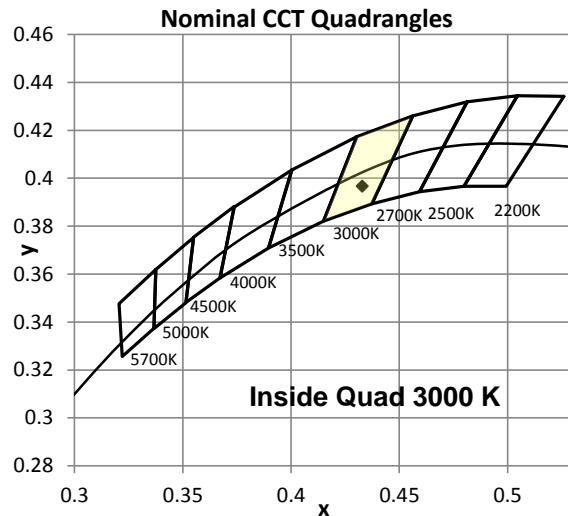
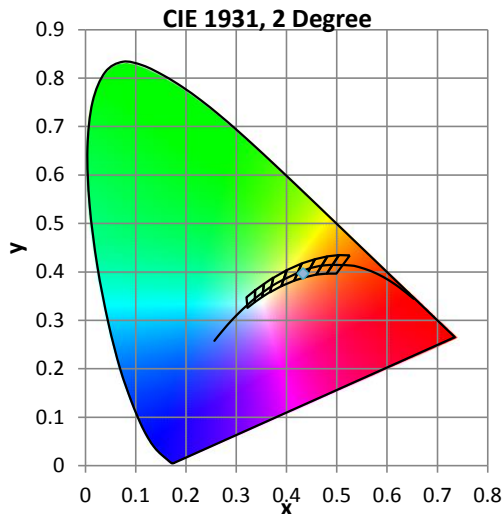
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.1 VAC	0.1667 A	19.60 W	0.979	60 Hz	19.9 %

### Summary of Results

Total Output:	871 Lumens	Chromaticity (x):	0.4329
Efficacy:	44.4 lm/w	Chromaticity (y):	0.3966
CCT:	3004 K	Chromaticity (u'):	0.2512
CRI (Ra):	93.3	Chromaticity (v'):	0.5178
CRI (R9):	66.6	TM-30 R <sub>f</sub> :	90.5
Peak Wavelength:	623.1 nm	TM-30 R <sub>g</sub> :	101.0
Dominant Wavelength:	583.7 nm	Duv:	-0.0026
S/P Ratio:	1.421		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
93.3	94.1	96.5	96.5	93.0	93.4	94.7	92.9	85.1	66.6	90.1	93.0	82.0	94.8	97.3

