



UL LLC  
1075 W Lambert Rd Suite B  
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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-L17-SD12, BWM-LED-L17-SD10, BSM-LED-L17-SD12,**  
**BSM-LED-L17-SD10, SWM-LED-L17**

**Tested Catalog Number**  
**BWM-LED-L17-SD12**

Order Number  
11609588  
Test Number  
11609588.03A

Revised:  
2017-05-19  
Test Date

2017-04-21

Prepared By

Khang Nguyen, Technician

Approved By

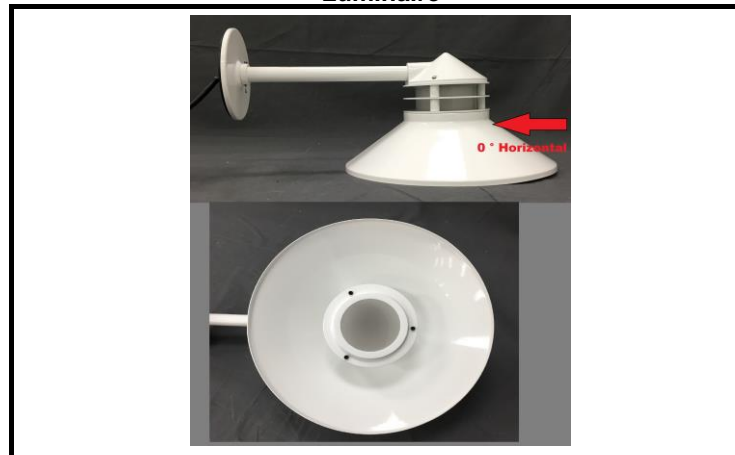
Eric Gaudreau, Senior Engineering Associate

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:	3475 mW
Luminous Flux:	958.7 lm
Luminaire Efficacy:	47.5 lm/W
CCT:	3982 K
CRI (Ra):	97.0
Chromaticity (x):	0.3805
Chromaticity (y):	0.3749
Chromaticity (u):	0.2259
Chromaticity (v):	0.3338
Duv:	-0.0009

#### **Test Conditions**

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.1719 A
Power:	20.17 W
Power Factor:	0.978
Frequency:	60 Hz
Current THD:	20.0 %

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



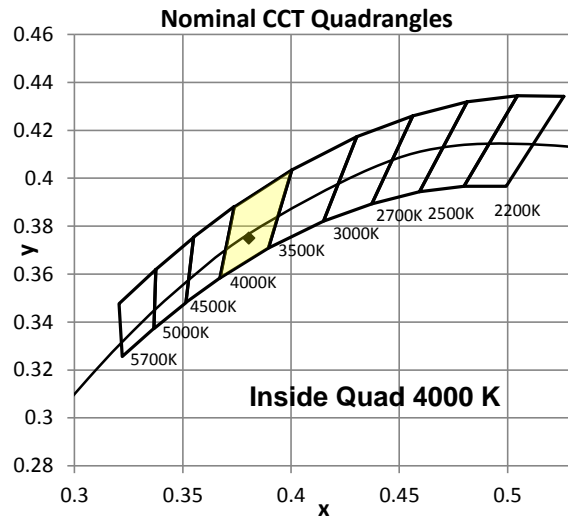
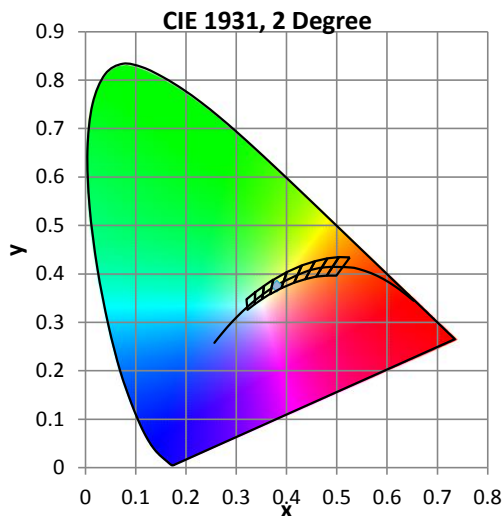
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.1719 A	20.17 W	0.978	60 Hz	20.0 %

### Summary of Results

Total Output:	959 Lumens	Chromaticity (x):	0.3805
Efficacy:	47.5 lm/w	Chromaticity (y):	0.3749
CCT:	3982 K	Chromaticity (u'):	0.2259
CRI (Ra):	97.0	Chromaticity (v'):	0.5008
CRI (R9):	90.3	TM-30 R <sub>f</sub> :	92.5
Peak Wavelength:	626 nm	TM-30 R <sub>g</sub> :	99.8
Dominant Wavelength:	579.6 nm	Duv:	-0.0009
S/P Ratio:	1.82		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
97.0	98.2	98.5	95.9	97.3	96.7	95.5	98.0	96.1	90.3	94.2	96.7	78.4	98.7	97.1

