



UL LLC  
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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**

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United States

**Catalog Number**  
**MBP-LED-e93-SD8**

Order Number  
11609588  
Test Number  
11609588.25

Test Date

2017-07-07

Prepared By

Austin Duff, 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 reflector and diffuse lens.  
**Lamp:** Three (3) white LEDs  
**Mounting:** Ground recessed  
**Ballast/Driver:** Unmarked power supply

**Luminaire**



**Summary of Results**

Radiant Flux:	928.2 mW
Luminous Flux:	298.6 lm
Luminaire Efficacy:	45.9 lm/W
CCT:	2699 K
CRI (Ra):	81.9
Chromaticity (x):	0.4588
Chromaticity (y):	0.4088
Chromaticity (u):	0.2626
Chromaticity (v):	0.3510
Duv:	-0.0009

**Test Conditions**

Test Temperature:	25.5 °C
Voltage:	120.1 VAC
Current:	0.06203 A
Power:	6.505 W
Power Factor:	0.873
Frequency:	60 Hz
Current THD:	36.3 %

Testing was performed in a 3-meter integrating sphere using the 4 $\pi$  geometry method.  
Absorption correction was employed for this measurement.



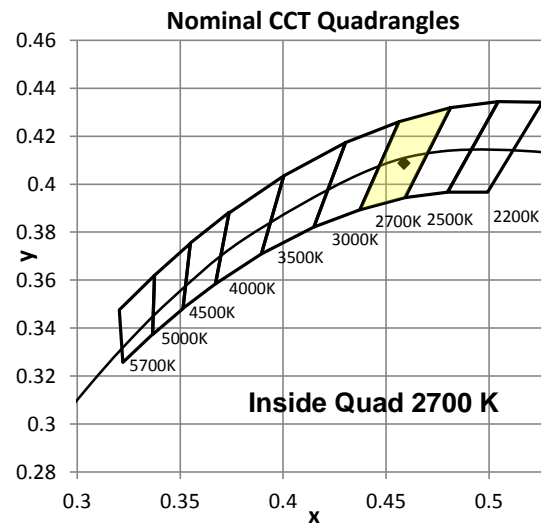
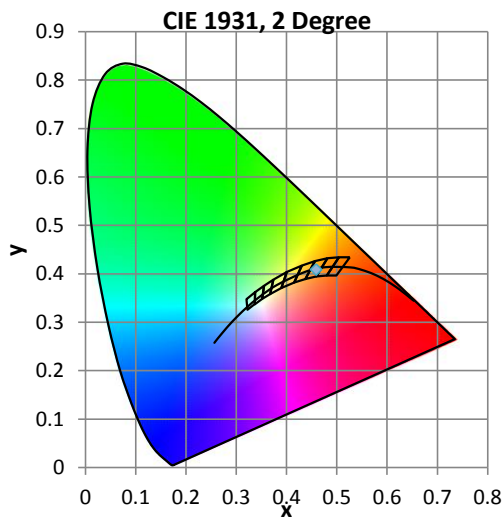
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.06203 A	6.505 W	0.873	60 Hz	36.3 %

### Summary of Results

Total Output:	299 Lumens	Chromaticity (x):	0.4588
Efficacy:	45.9 lm/w	Chromaticity (y):	0.4088
CCT:	2699 K	Chromaticity (u'):	0.2626
CRI (Ra):	81.9	Chromaticity (v'):	0.5265
CRI (R9):	8.4	TM-30 Rf:	81
Peak Wavelength:	608.3 nm	TM-30 Rg:	98.3
Dominant Wavelength:	584.4 nm	Duv:	-0.0009
S/P Ratio:	1.183		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.9	80.3	89.7	96.8	80.2	80.0	87.5	82.5	58.4	8.4	76.3	79.5	71.8	82.3	98.3

