



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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Catalog Number  
**SM-APII-x43-BW-12-C**

Order Number  
11708270  
Test Number  
11708270.06

Test Date

2017-07-27

Prepared By

Tony Rubio, Technician

Approved By

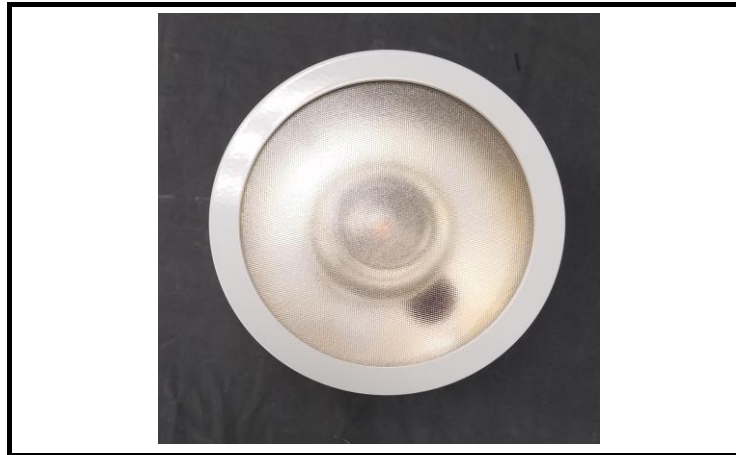
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Circular white metal housing and outer patterned glass lens  
**Lamp:** One (1) white LED with optic attached  
**Mounting:** VBU  
**Ballast/Driver:** SOLO DRIVE 561/S

**Luminaire**



**Summary of Results**

Radiant Flux:	8909 mW
Luminous Flux:	2843 lm
Luminaire Efficacy:	85.0 lm/W
CCT:	2688 K
CRI (Ra):	82.8
Chromaticity (x):	0.4611
Chromaticity (y):	0.4115
Chromaticity (u):	0.2629
Chromaticity (v):	0.3519
Duv:	0.0001

**Test Conditions**

Test Temperature:	24.8 °C
Voltage:	120.1 VAC
Current:	0.2824 A
Power:	33.44 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	6.24 %

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



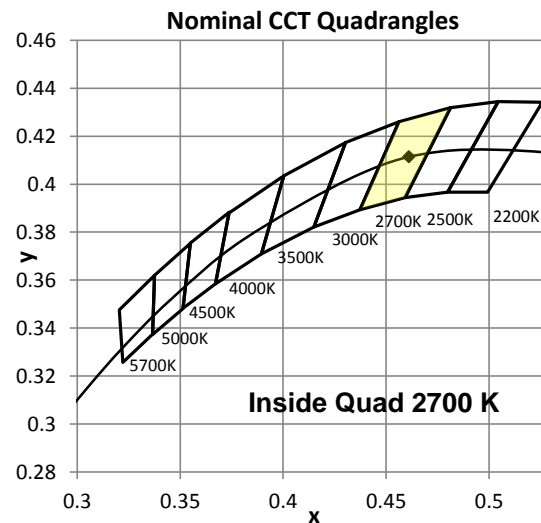
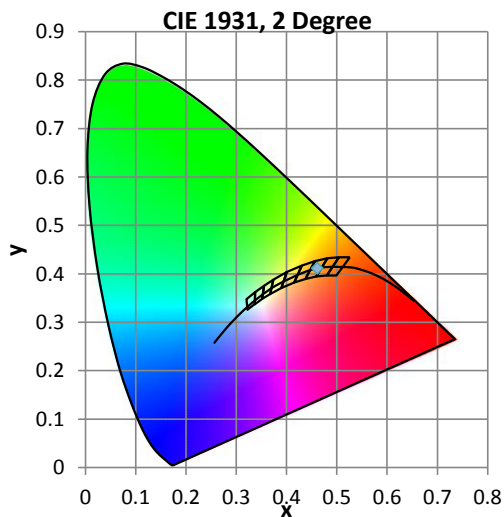
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.2824 A	33.44 W	0.986	60 Hz	6.24 %

### Summary of Results

Total Output:	2843 Lumens	Chromaticity (x):	0.4611
Efficacy:	85.0 lm/w	Chromaticity (y):	0.4115
CCT:	2688 K	Chromaticity (u'):	0.2629
CRI (Ra):	82.8	Chromaticity (v'):	0.5279
CRI (R9):	10.9	TM-30 Rf:	83.8
Peak Wavelength:	608.2 nm	TM-30 Rg:	94.9
Dominant Wavelength:	584.2 nm	Duv:	0.0001
S/P Ratio:	1.222		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.8	81.5	92.4	94.9	79.9	81.7	91.8	81.7	58.3	10.9	83.2	79.4	76.0	84.0	97.9

