



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-WW-12-C**

Order Number  
11708270  
Test Number  
11708270.11

Test Date

2017-07-31

Prepared By

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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:	9128 mW
Luminous Flux:	2914 lm
Luminaire Efficacy:	87.1 lm/W
CCT:	2703 K
CRI (Ra):	83.0
Chromaticity (x):	0.4598
Chromaticity (y):	0.4111
Chromaticity (u):	0.2622
Chromaticity (v):	0.3517
Duv:	0.0001

**Test Conditions**

Test Temperature:	25.8 °C
Voltage:	120.1 VAC
Current:	0.2827 A
Power:	33.44 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	6.22 %

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



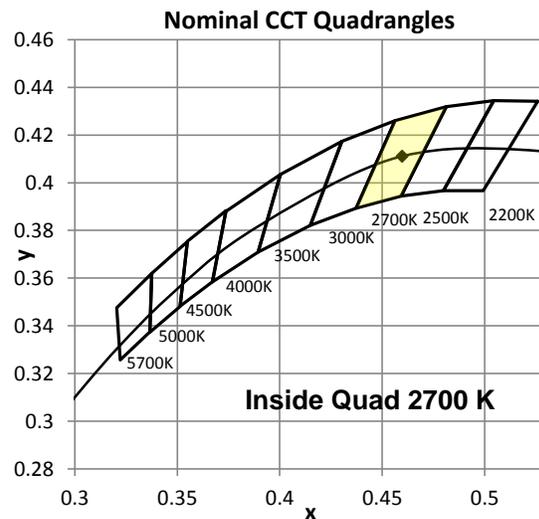
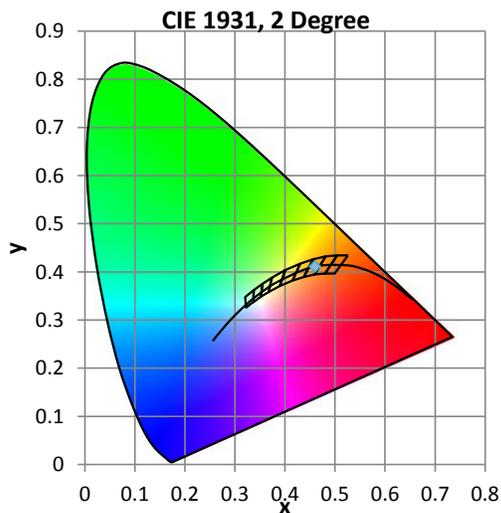
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.1 VAC	0.2827 A	33.44 W	0.985	60 Hz	6.22 %

### Summary of Results

<b>Total Output:</b>	2914 Lumens	<b>Chromaticity (x):</b>	0.4598
<b>Efficacy:</b>	87.1 lm/w	<b>Chromaticity (y):</b>	0.4111
<b>CCT:</b>	2703 K	<b>Chromaticity (u'):</b>	0.2622
<b>CRI (Ra):</b>	83.0	<b>Chromaticity (v'):</b>	0.5275
<b>CRI (R9):</b>	11.5	<b>TM-30 Rf:</b>	84
<b>Peak Wavelength:</b>	607.3 nm	<b>TM-30 Rg:</b>	94.6
<b>Dominant Wavelength:</b>	584.1 nm	<b>Duv:</b>	0.0001
<b>S/P Ratio:</b>	1.234		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.0	81.8	92.7	94.7	80.2	82.1	92.2	81.7	58.6	11.5	83.9	79.7	77.1	84.4	97.8

