



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-x50-BW-12-C**

Order Number

11708270

Test Number

11708270.13

Test Date

2017-08-02

Prepared By

Tony Rubio, Technician

Approved By

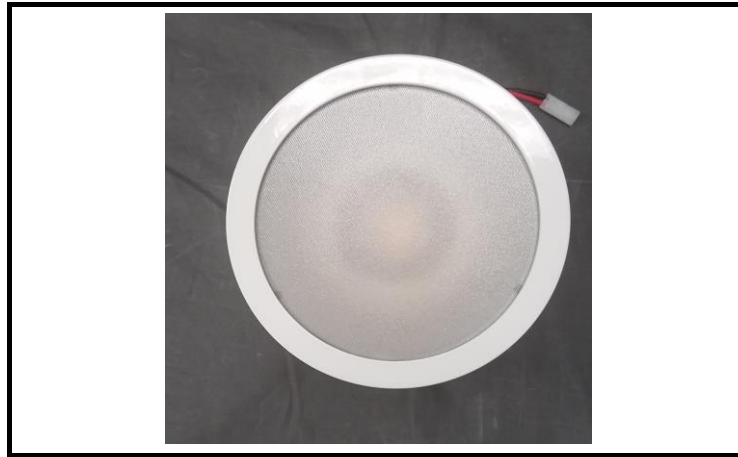
Eric Gaudreau, Senior Engineering Associate

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:** SM-APII-25W

**Luminaire**



**Summary of Results**

Radiant Flux:	12240 mW
Luminous Flux:	4022 lm
Luminaire Efficacy:	68.3 lm/W
CCT:	3001 K
CRI (Ra):	82.4
Chromaticity (x):	0.4370
Chromaticity (y):	0.4046
Chromaticity (u):	0.2504
Chromaticity (v):	0.3477
Duv:	0.0001

**Test Conditions**

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.4934 A
Power:	58.86 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	6.48 %

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



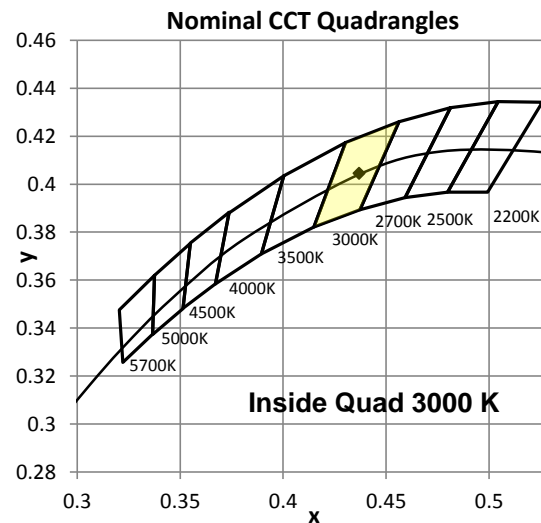
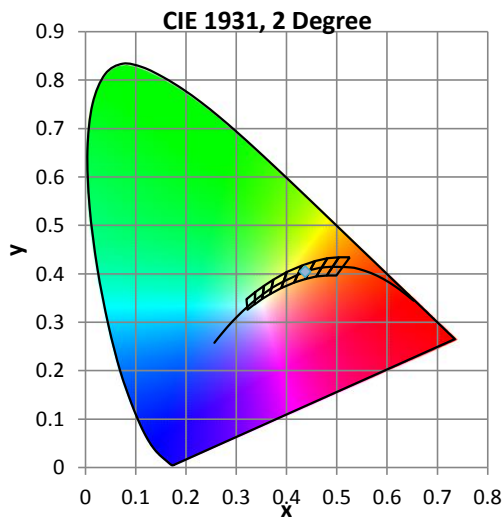
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.4934 A	58.86 W	0.994	60 Hz	6.48 %

### Summary of Results

<b>Total Output:</b>	4022 Lumens	<b>Chromaticity (x):</b>	0.4370
<b>Efficacy:</b>	68.3 lm/w	<b>Chromaticity (y):</b>	0.4046
<b>CCT:</b>	3001 K	<b>Chromaticity (u'):</b>	0.2504
<b>CRI (Ra):</b>	82.4	<b>Chromaticity (v'):</b>	0.5216
<b>CRI (R9):</b>	5.9	<b>TM-30 Rf:</b>	83.3
<b>Peak Wavelength:</b>	605.2 nm	<b>TM-30 Rg:</b>	95
<b>Dominant Wavelength:</b>	582.7 nm	<b>Duv:</b>	0.0001
<b>S/P Ratio:</b>	1.352		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.4	80.8	91.5	95.7	79.8	81.1	89.8	82.2	58.1	5.9	80.7	79.0	72.8	83.3	98.2

