



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-x48-BW-12-C**

Order Number  
11708270  
Test Number  
11708270.09

Test Date

2017-08-10

Prepared By

William Escobar, Technician

Approved By

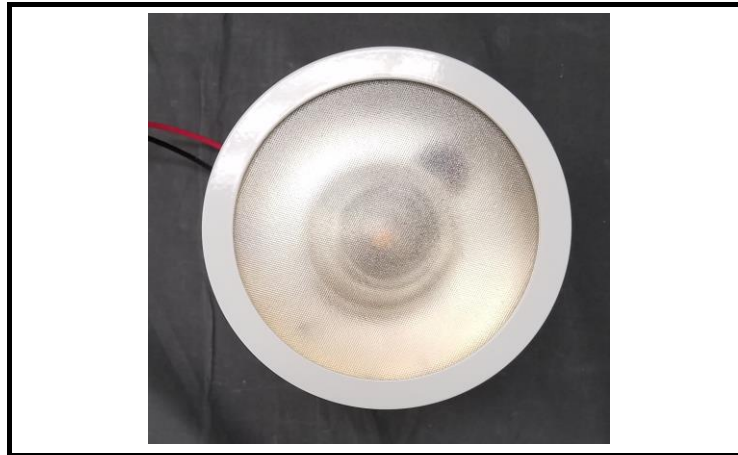
Eric Gaudreau, Senior Engineering Associate

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:	9618 mW
Luminous Flux:	3162 lm
Luminaire Efficacy:	76.0 lm/W
CCT:	3932 K
CRI (Ra):	83.1
Chromaticity (x):	0.3844
Chromaticity (y):	0.3821
Chromaticity (u):	0.2256
Chromaticity (v):	0.3363
Duv:	0.0013

**Test Conditions**

Test Temperature:	25.5 °C
Voltage:	120.1 VAC
Current:	0.3492 A
Power:	41.60 W
Power Factor:	0.992
Frequency:	60 Hz
Current THD:	4.90 %

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



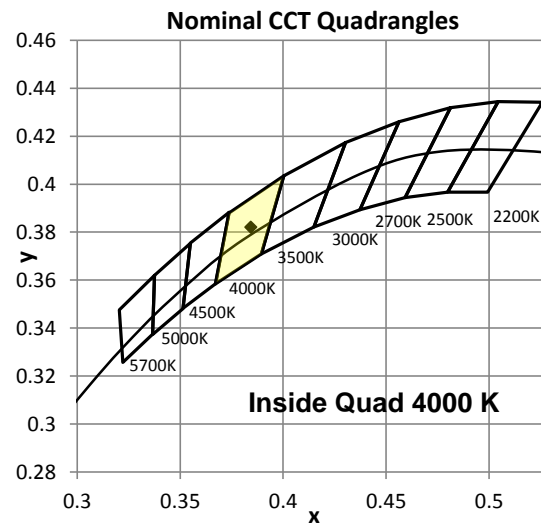
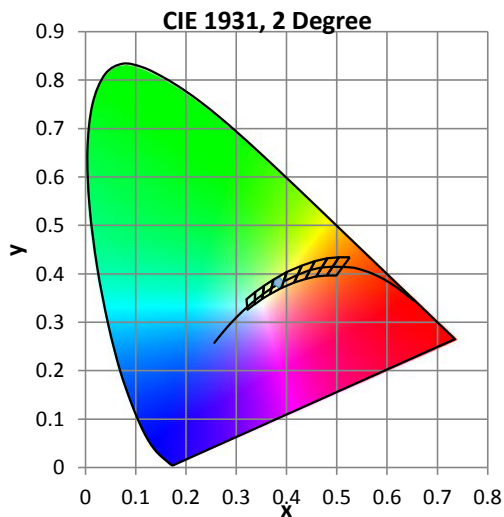
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.3492 A	41.60 W	0.992	60 Hz	4.90 %

### Summary of Results

Total Output:	3162 Lumens	Chromaticity (x):	0.3844
Efficacy:	76.0 lm/w	Chromaticity (y):	0.3821
CCT:	3932 K	Chromaticity (u'):	0.2256
CRI (Ra):	83.1	Chromaticity (v'):	0.5045
CRI (R9):	9.9	TM-30 Rf:	82.5
Peak Wavelength:	451.5 nm	TM-30 Rg:	95.1
Dominant Wavelength:	578.6 nm	Duv:	0.0013
S/P Ratio:	1.669		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.1	81.1	89.4	95.2	81.4	81.0	85.1	86.4	64.8	9.9	74.5	79.8	62.1	83.2	97.4

