



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**  
**BSB-LED-X83-SD15**

Order Number  
11609594  
Test Number  
11609594.01

Test Date

2017-08-14

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:** Decorative white metal housing, reflector, diffuse lens, and standing pole housing  
**Lamp:** One (1) White LED  
**Mounting:** Post  
**Ballast/Driver:** One (1) eldoLED ECOdrive 561/M

**Luminaire**



**Summary of Results**

Radiant Flux:	5930 mW
Luminous Flux:	1902 lm
Luminaire Efficacy:	85.7 lm/W
CCT:	2780 K
CRI (Ra):	82.8
Chromaticity (x):	0.4530
Chromaticity (y):	0.4084
Chromaticity (u):	0.2590
Chromaticity (v):	0.3503
Duv:	0.0003

**Test Conditions**

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1868 A
Power:	22.20 W
Power Factor:	0.990
Frequency:	60 Hz
Current THD:	5.43 %

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



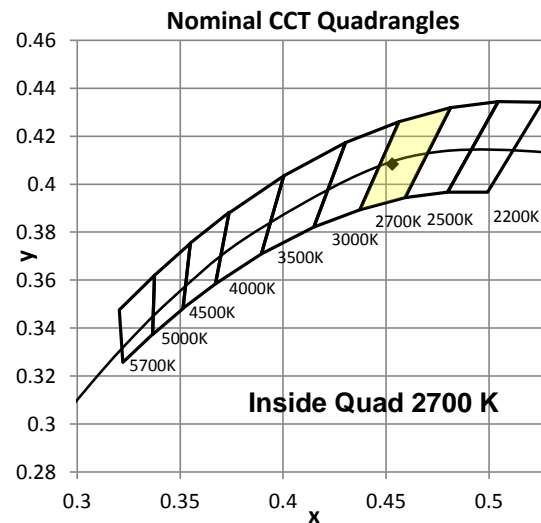
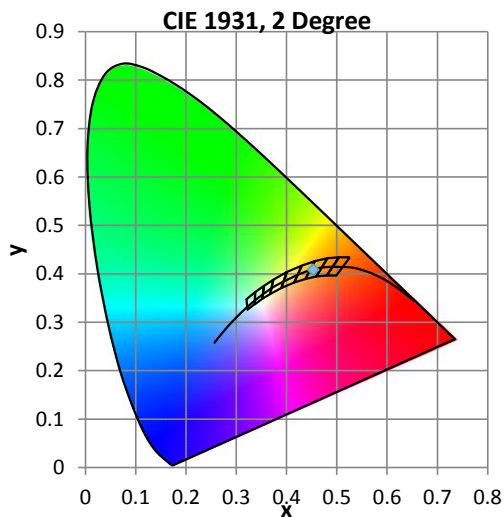
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1868 A	22.20 W	0.990	60 Hz	5.43 %

### Summary of Results

Total Output:	1902 Lumens	Chromaticity (x):	0.4530
Efficacy:	85.7 lm/w	Chromaticity (y):	0.4084
CCT:	2780 K	Chromaticity (u'):	0.2590
CRI (Ra):	82.8	Chromaticity (v'):	0.5255
CRI (R9):	10.5	TM-30 Rf:	83.6
Peak Wavelength:	606 nm	TM-30 Rg:	94.5
Dominant Wavelength:	583.9 nm	Duv:	0.0003
S/P Ratio:	1.271		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.8	81.7	92.8	94.6	79.8	82.0	91.9	81.5	58.4	10.5	83.7	79.0	75.9	84.4	97.7

