



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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United States

Catalog Number  
**LBP-LED-X43-BW-27-WHP**  
Order Number  
12003486  
Test Number  
12003486.02

Test Date

2017-10-23

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 with shade, reflector, clear plastic lens, and standing pole base  
**Lamp:** One (1) white LED with optic  
**Mounting:** Post  
**Ballast/Driver:** One (1) ECOdrive 561/S

**Luminaire**



**Summary of Results**

Radiant Flux:	10780 mW
Luminous Flux:	3428 lm
Luminaire Efficacy:	105.6 lm/W
CCT:	2745 K
CRI (Ra):	83.1
Chromaticity (x):	0.4547
Chromaticity (y):	0.4072
Chromaticity (u):	0.2607
Chromaticity (v):	0.3502
Duv:	-0.0010

**Test Conditions**

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.2746 A
Power:	32.46 W
Power Factor:	0.984
Frequency:	60 Hz
Current THD:	8.74 %

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



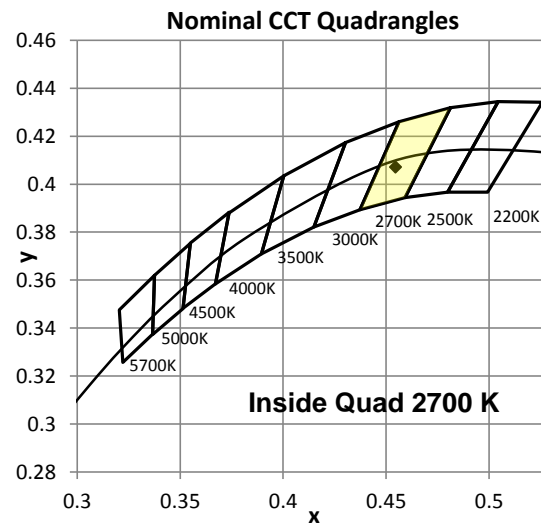
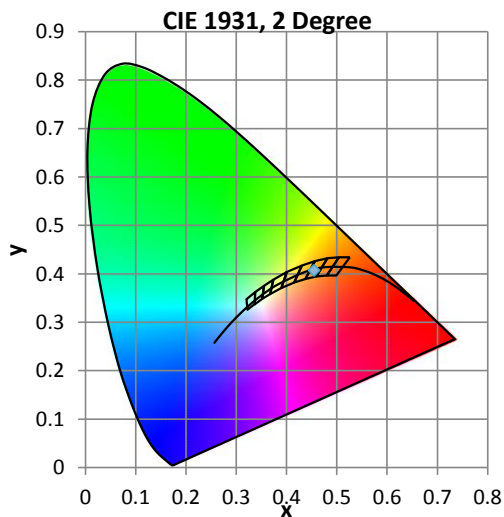
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.2746 A	32.46 W	0.984	60 Hz	8.74 %

### Summary of Results

<b>Total Output:</b>	3428 Lumens	<b>Chromaticity (x):</b>	0.4547
<b>Efficacy:</b>	105.6 lm/w	<b>Chromaticity (y):</b>	0.4072
<b>CCT:</b>	2745 K	<b>Chromaticity (u'):</b>	0.2607
<b>CRI (Ra):</b>	83.1	<b>Chromaticity (v'):</b>	0.5253
<b>CRI (R9):</b>	12.2	<b>TM-30 Rf:</b>	83.7
<b>Peak Wavelength:</b>	606.8 nm	<b>TM-30 Rg:</b>	94.6
<b>Dominant Wavelength:</b>	584.3 nm	<b>Duv:</b>	-0.0010
<b>S/P Ratio:</b>	1.267		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.1	82.3	93.6	93.7	80.0	82.7	93.0	81.1	58.6	12.2	85.5	79.4	78.0	85.1	97.3	75.0

