



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## 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**  
Chris McCarthy  
40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

Catalog Number  
**LBP-LED-46X-BW-36**  
Order Number  
11996651  
Test Number  
11996651.07

Test Date

2017-10-18

Prepared By

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

**Luminaire**



**Summary of Results**

Radiant Flux:	14940 mW
Luminous Flux:	4836 lm
Luminaire Efficacy:	120.2 lm/W
CCT:	2732 K
CRI (Ra):	81.1
Chromaticity (x):	0.4559
Chromaticity (y):	0.4078
Chromaticity (u):	0.2612
Chromaticity (v):	0.3504
Duv:	-0.0010

**Test Conditions**

Test Temperature:	24.1 °C
Voltage:	120.1 VAC
Current:	0.3387 A
Power:	40.24 W
Power Factor:	0.989
Frequency:	60 Hz
Current THD:	7.02 %

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



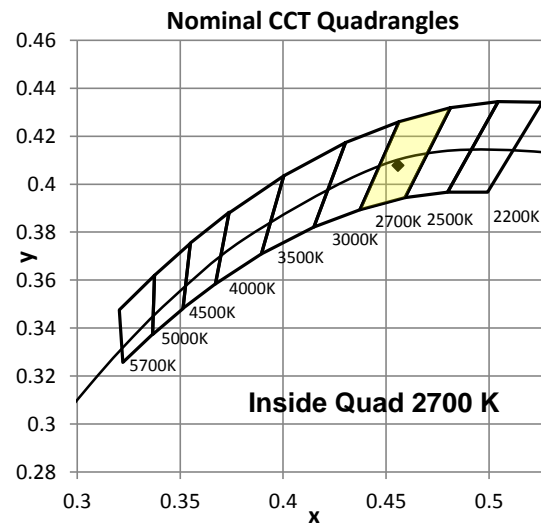
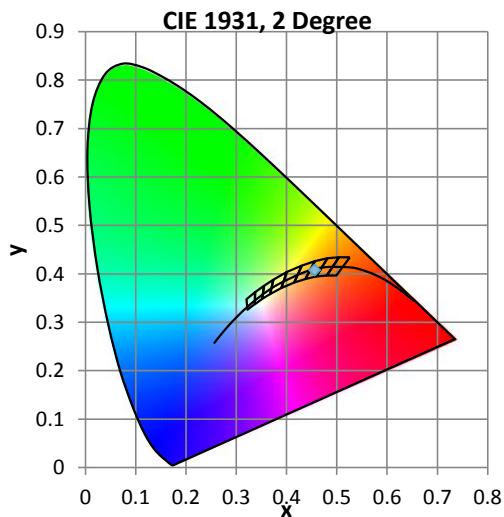
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.1 °C	120.1 VAC	0.3387 A	40.24 W	0.989	60 Hz	7.02 %

### Summary of Results

<b>Total Output:</b>	4836 Lumens	<b>Chromaticity (x):</b>	0.4559
<b>Efficacy:</b>	120.2 lm/w	<b>Chromaticity (y):</b>	0.4078
<b>CCT:</b>	2732 K	<b>Chromaticity (u'):</b>	0.2612
<b>CRI (Ra):</b>	81.1	<b>Chromaticity (v'):</b>	0.5257
<b>CRI (R9):</b>	3.0	<b>TM-30 Rf:</b>	82.3
<b>Peak Wavelength:</b>	605.6 nm	<b>TM-30 Rg:</b>	95.1
<b>Dominant Wavelength:</b>	584.3 nm	<b>Duv:</b>	-0.0010
<b>S/P Ratio:</b>	1.232		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.1	79.6	91.5	94.3	77.9	80.0	90.4	80.1	54.9	3.0	81.3	76.9	75.0	82.4	97.6	71.9

