



UL LLC  
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Brea, CA 92821

## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C78.377-2011, ANSI C82.77-2002  
CIE 13.3-1995, CIE 15-2004, IES TM-30-15

Prepared For  
**B-K LIGHTING INC**

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Madera, CA 93636-9515  
United States

Catalog Number  
**HP2-LED-x43-NFL-9    CO2-LED-x43-NFL-9**

Order Number  
11353040  
Test Number  
11353040.55

Test Date

2016-09-13

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:** Circular black plastic housing, semi-specular reflector, and glass lens  
**Lamp:** One (1) White LED  
**Mounting:** Surface  
**Ballast/Driver:** PowerSelect PS60U1050C31T

**Luminaire**



**Summary of Results**

Radiant Flux:	4563 mW
Luminous Flux:	1455 lm
Luminaire Efficacy:	52.0 lm/W
CCT:	2787 K
CRI (Ra):	80.9
Chromaticity (x):	0.4527
Chromaticity (y):	0.4089
Chromaticity (u):	0.2587
Chromaticity (v):	0.3504
Duv:	0.0001

**Test Conditions**

Test Temperature:	24.3 °C
Voltage:	120.1 VAC
Current:	0.2367 A
Power:	27.98 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	14.2 %

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



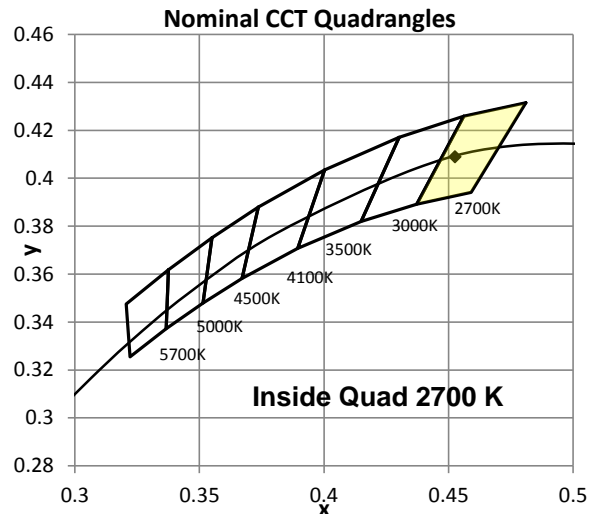
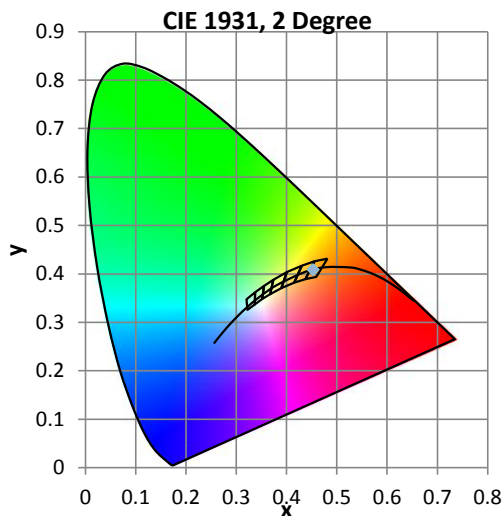
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.1 VAC	0.2367 A	27.98 W	0.985	60 Hz	14.2 %

### Summary of Results

Total Output:	1455 Lumens	Chromaticity (x):	0.4527
Efficacy:	52.0 lm/w	Chromaticity (y):	0.4089
CCT:	2787 K	Chromaticity (u'):	0.2587
CRI (Ra):	80.9	Chromaticity (v'):	0.5256
CRI (R9):	8.3	TM-30 R <sub>f</sub> :	81.7
Peak Wavelength:	606.1 nm	TM-30 R <sub>g</sub> :	94.5
Dominant Wavelength:	583.8 nm	Duv:	0.0001
S/P Ratio:	1.237		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80.9	78.8	90.3	96.1	76.5	78.3	87.4	82.1	57.9	8.3	77.5	73.3	69.0	81.2	98.5

