



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  
**HLP-LED-e70-WHP-B**  
Order Number  
11717110  
Test Number  
11717110.01

Test Date

2017-04-24

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:** White metal shade/reflector, clear plastic lens, and metal base  
**Lamp:** One (1) white LED  
**Mounting:** Ground recessed  
**Ballast/Driver:** Unmarked power supply

**Luminaire**



**Summary of Results**

Radiant Flux:	253 mW
Luminous Flux:	81.72 lm
Luminaire Efficacy:	24.4 lm/W
CCT:	2651 K
CRI (Ra):	81.5
Chromaticity (x):	0.4643
Chromaticity (y):	0.4123
Chromaticity (u):	0.2646
Chromaticity (v):	0.3525
Duv:	0.0003

**Test Conditions**

Test Temperature:	25.0 °C
Voltage:	120.2 VAC
Current:	0.05046 A
Power:	3.354 W
Power Factor:	0.553
Frequency:	60 Hz
Current THD:	150 %

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



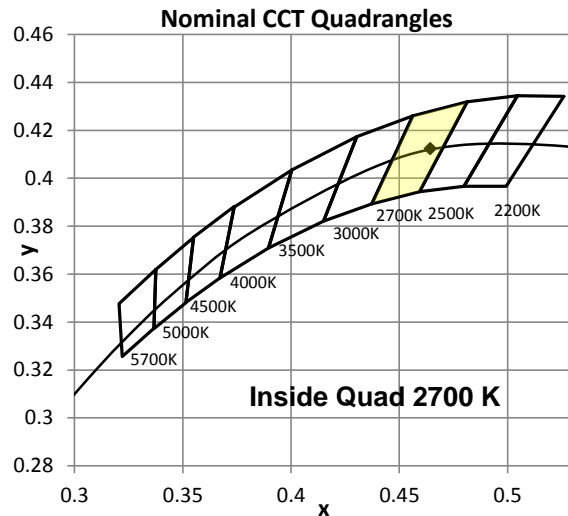
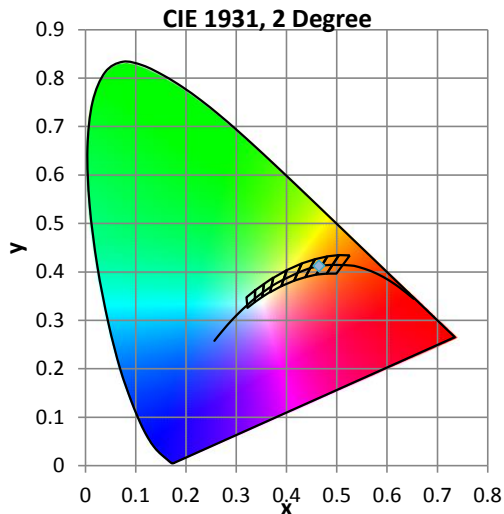
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.2 VAC	0.05046 A	3.354 W	0.553	60 Hz	150 %

### Summary of Results

Total Output:	82 Lumens	Chromaticity (x):	0.4643
Efficacy:	24.4 lm/w	Chromaticity (y):	0.4123
CCT:	2651 K	Chromaticity (u'):	0.2646
CRI (Ra):	81.5	Chromaticity (v'):	0.5287
CRI (R9):	5.6	TM-30 R <sub>f</sub> :	81.9
Peak Wavelength:	607.3 nm	TM-30 R <sub>g</sub> :	96.9
Dominant Wavelength:	584.4 nm	Duv:	0.0003
S/P Ratio:	1.162		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.5	79.7	89.9	97.0	79.4	79.4	88.2	81.9	56.8	5.6	77.0	78.4	72.7	81.9	98.8

