



UL LLC  
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## 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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Catalog Number  
**DE-LED-x64-SP-9   SN-DE-LED-x64-SP-9   ST-DE-LED-x64-SP-9   SM-DE-LED-x64-SP-9**  
**UL-DE-LED-x64-SP-9   CK-LED-x64-SP-9   OL-LED-x63-SP-9**  
Order Number  
11353040  
Test Number  
11353040.31

Test Date

2016-09-09

Prepared By

Khang Nguyen, 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:** Circular black aluminum housing, specular linear reflector, and glass lens  
**Lamp:** One (1) White LED  
**Mounting:** VBU  
**Ballast/Driver:** Thomas Research Products LED25W-36-C0700-LE

**Luminaire**



**Summary of Results**

Radiant Flux:	5462 mW
Luminous Flux:	1807 lm
Luminaire Efficacy:	66.2 lm/W
CCT:	2832 K
CRI (Ra):	80.3
Chromaticity (x):	0.4508
Chromaticity (y):	0.4109
Chromaticity (u):	0.2565
Chromaticity (v):	0.3507
Duv:	0.0009

**Test Conditions**

Test Temperature:	25.8 °C
Voltage:	120.0 VAC
Current:	0.2318 A
Power:	27.28 W
Power Factor:	0.981
Frequency:	60 Hz
Current THD:	16.9 %

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



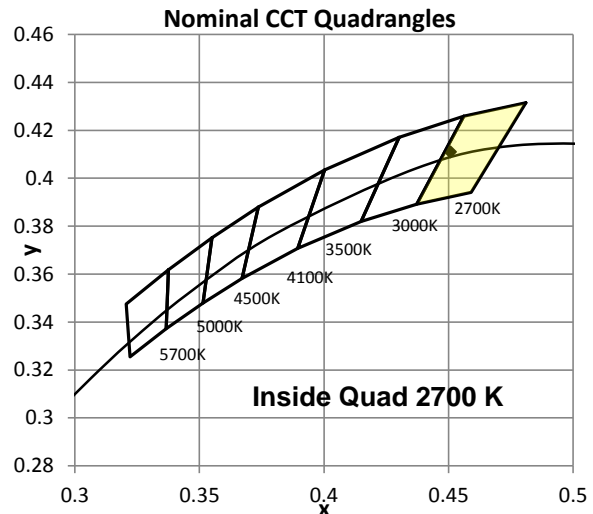
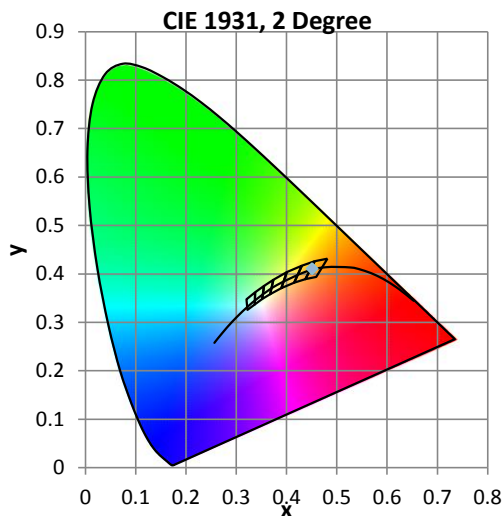
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.2318 A	27.28 W	0.981	60 Hz	16.9 %

### Summary of Results

Total Output:	1807 Lumens	Chromaticity (x):	0.4508
Efficacy:	66.2 lm/w	Chromaticity (y):	0.4109
CCT:	2832 K	Chromaticity (u'):	0.2565
CRI (Ra):	80.3	Chromaticity (v'):	0.5261
CRI (R9):	-2.2	TM-30 R <sub>f</sub> :	82.2
Peak Wavelength:	603.2 nm	TM-30 R <sub>g</sub> :	92.6
Dominant Wavelength:	583.2 nm	Duv:	0.0009
S/P Ratio:	1.279		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80.3	78.5	91.5	93.3	76.6	79.1	90.5	79.6	53.2	-2.2	81.3	75.3	74.6	81.6	96.8

