



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-x59-SP-9   SN-DE-LED-x59-SP-9   ST-DE-LED-x59-SP-9   SM-DE-LED-x59-SP-9**  
**UL-DE-LED-x59-SP-9   CK-LED-x59-SP-9   OL-LED-x59-SP-9**

Order Number  
11353040  
Test Number  
11353040.33

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:** PowerSelect PS60U700C14T

**Luminaire**



**Summary of Results**

Radiant Flux:	2392 mW
Luminous Flux:	773.1 lm
Luminaire Efficacy:	62.8 lm/W
CCT:	2944 K
CRI (Ra):	80.8
Chromaticity (x):	0.4470
Chromaticity (y):	0.4177
Chromaticity (u):	0.2512
Chromaticity (v):	0.3521
Duv:	0.0037

**Test Conditions**

Test Temperature:	25.1 °C
Voltage:	120.1 VAC
Current:	0.1055 A
Power:	12.32 W
Power Factor:	0.973
Frequency:	60 Hz
Current THD:	14.1 %

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



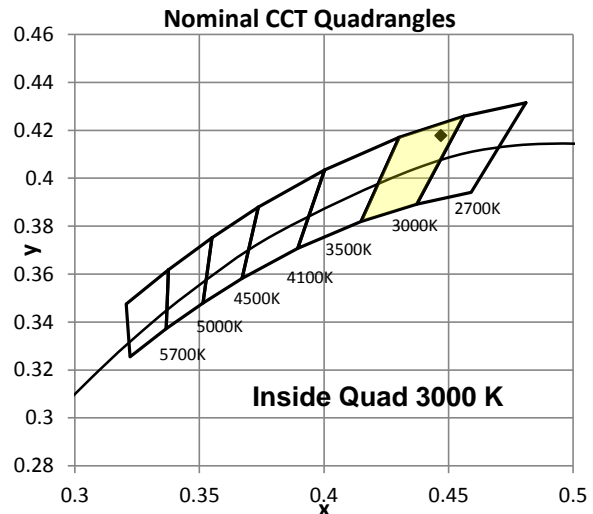
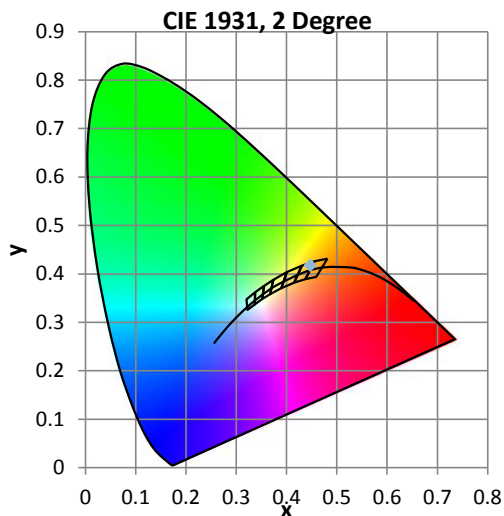
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.1055 A	12.32 W	0.973	60 Hz	14.1 %

### Summary of Results

Total Output:	773 Lumens	Chromaticity (x):	0.4470
Efficacy:	62.8 lm/w	Chromaticity (y):	0.4177
CCT:	2944 K	Chromaticity (u'):	0.2512
CRI (Ra):	80.8	Chromaticity (v'):	0.5281
CRI (R9):	10.1	TM-30 R <sub>f</sub> :	79.0
Peak Wavelength:	605.9 nm	TM-30 R <sub>g</sub> :	98.1
Dominant Wavelength:	581.8 nm	Duv:	0.0037
S/P Ratio:	1.235		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80.8	78.4	85.6	93.5	81.5	78.1	81.7	85.5	62.3	10.1	67.9	80.6	65.3	79.1	96.0

