



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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United States

Catalog Number  
**AR-LS-14-LED-2700K**

Order Number  
11609579  
Test Number  
11609579.04

Test Date

2017-01-25

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:** Formed aluminum housing, seven (7) louvers, and white plastic diffuse lens  
**Lamp:** 16 White LEDs  
**Mounting:** Surface – Wall  
**Ballast/Driver:** FX95100

**Luminaire**



**Summary of Results**

Radiant Flux:	534.1 mW
Luminous Flux:	142.1 lm
Luminaire Efficacy:	20.9 lm/W
CCT:	2642 K
CRI (Ra):	93.2
Chromaticity (x):	0.4655
Chromaticity (y):	0.4133
Chromaticity (u):	0.2649
Chromaticity (v):	0.3528
Duv:	0.0005

**Test Conditions**

Test Temperature:	25.9 °C
Voltage:	120.1 VAC
Current:	0.06136 A
Power:	6.790 W
Power Factor:	0.921
Frequency:	60 Hz
Current THD:	39.6 %

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



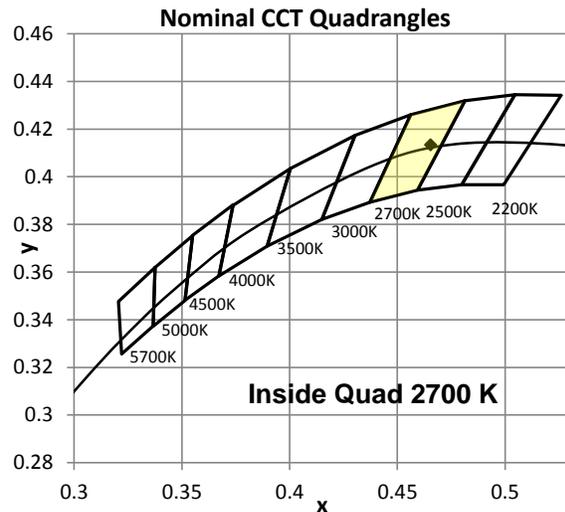
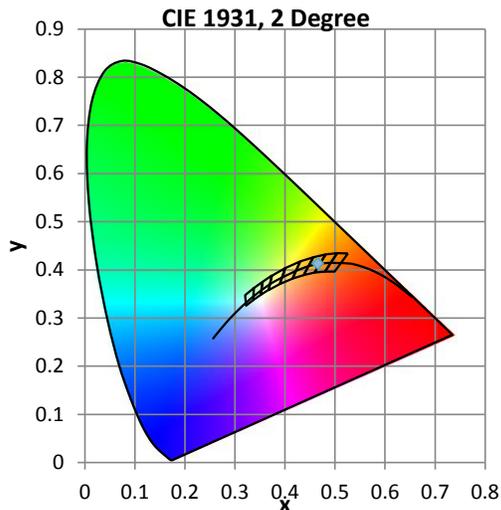
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.9 °C	120.1 VAC	0.06136 A	6.790 W	0.921	60 Hz	39.6 %

### Summary of Results

<b>Total Output:</b>	142 Lumens	<b>Chromaticity (x):</b>	0.4655
<b>Efficacy:</b>	20.9 lm/w	<b>Chromaticity (y):</b>	0.4133
<b>CCT:</b>	2642 K	<b>Chromaticity (u'):</b>	0.2649
<b>CRI (Ra):</b>	93.2	<b>Chromaticity (v'):</b>	0.5292
<b>CRI (R9):</b>	73.2	<b>TM-30 R<sub>f</sub>:</b>	89.6
<b>Peak Wavelength:</b>	633.4 nm	<b>TM-30 R<sub>g</sub>:</b>	103.0
<b>Dominant Wavelength:</b>	584.3 nm	<b>Duv:</b>	0.0005
<b>S/P Ratio:</b>	1.216		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
93.2	94.6	94.7	92.5	94.4	93.3	93.1	94.5	88.8	73.2	86.1	95.3	84.0	94.3	94.7

