



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  
**TWB-LED-X82**  
Order Number  
12073427  
Test Number  
12073427.04

Test Date

2017-12-12

Prepared By

Luis Torres, Technician

Approved By

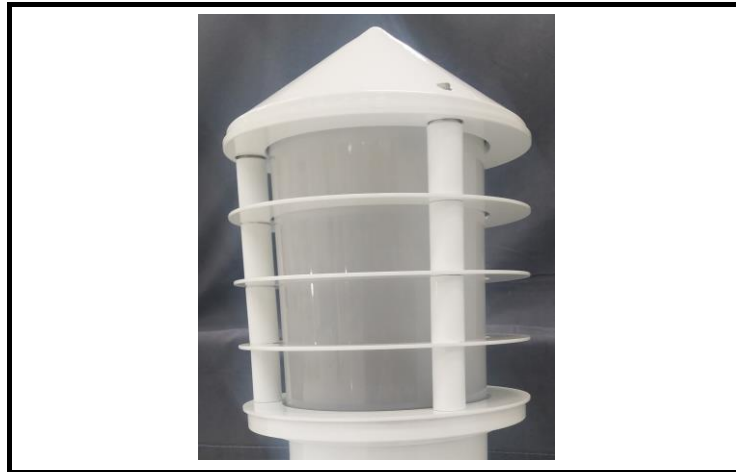
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Decorative white metal housing with louvers and frosted lens  
**Lamp:** One (1) white LED  
**Mounting:** Post  
**Ballast/Driver:** One (1) ECOdrive 261/S

**Luminaire**



**Summary of Results**

Radiant Flux:	2714 mW
Luminous Flux:	890.9 lm
Luminaire Efficacy:	84.3 lm/W
CCT:	3966 K
CRI (Ra):	82.9
Chromaticity (x):	0.3825
Chromaticity (y):	0.3798
Chromaticity (u):	0.2252
Chromaticity (v):	0.3355
Duv:	0.0008

**Test Conditions**

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.08999 A
Power:	10.57 W
Power Factor:	0.978
Frequency:	60 Hz
Current THD:	16.7 %

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



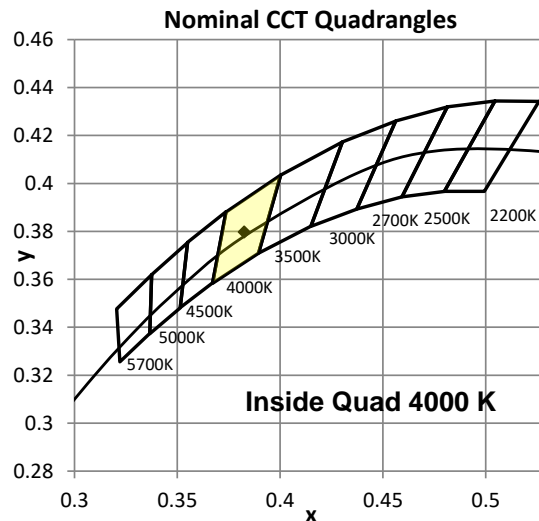
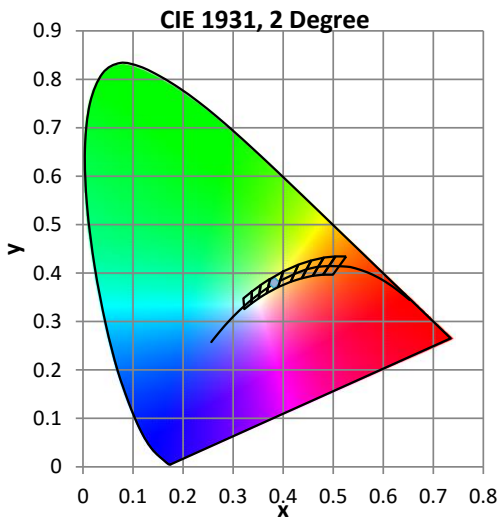
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.08999 A	10.57 W	0.978	60 Hz	16.7 %

### Summary of Results

<b>Total Output:</b>	891 Lumens	<b>Chromaticity (x):</b>	0.3825
<b>Efficacy:</b>	84.3 lm/w	<b>Chromaticity (y):</b>	0.3798
<b>CCT:</b>	3966 K	<b>Chromaticity (u'):</b>	0.2252
<b>CRI (Ra):</b>	82.9	<b>Chromaticity (v'):</b>	0.5032
<b>CRI (R9):</b>	10.7	<b>TM-30 Rf:</b>	81.6
<b>Peak Wavelength:</b>	452.5 nm	<b>TM-30 Rg:</b>	94.5
<b>Dominant Wavelength:</b>	578.8 nm	<b>Duv:</b>	0.0008
<b>S/P Ratio:</b>	1.68		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.9	81.3	89.6	94.9	80.8	80.8	84.8	86.3	65.0	10.7	74.6	78.9	59.1	83.4	97.3	75.6

