



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-X85**  
Order Number  
12073427  
Test Number  
12073427.09

Test Date

2017-12-12

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:** Decorative white metal housing with louvers and frosted lens  
**Lamp:** One (1) white LED  
**Mounting:** Post  
**Ballast/Driver:** One (1) ECOdrive 361/S

**Luminaire**



**Summary of Results**

Radiant Flux:	5332 mW
Luminous Flux:	1745 lm
Luminaire Efficacy:	78.6 lm/W
CCT:	4003 K
CRI (Ra):	82.8
Chromaticity (x):	0.3804
Chromaticity (y):	0.3772
Chromaticity (u):	0.2249
Chromaticity (v):	0.3345
Duv:	0.0005

**Test Conditions**

Test Temperature:	25.5 °C
Voltage:	120.1 VAC
Current:	0.1905 A
Power:	22.21 W
Power Factor:	0.971
Frequency:	60 Hz
Current THD:	12.5 %

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



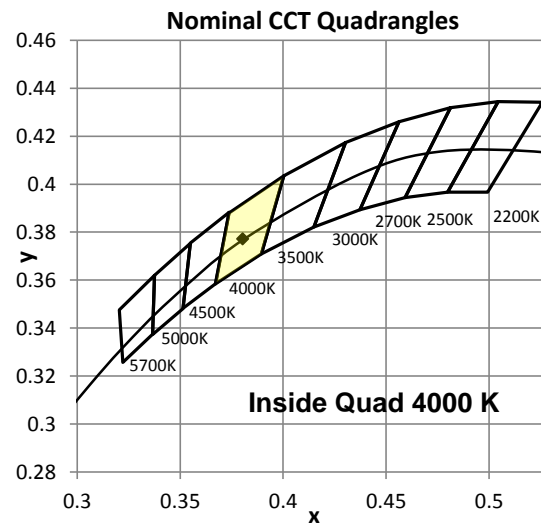
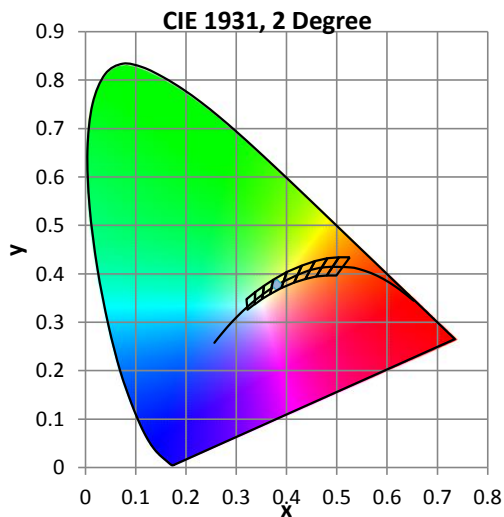
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.1905 A	22.21 W	0.971	60 Hz	12.5 %

### Summary of Results

Total Output:	1745 Lumens	Chromaticity (x):	0.3804
Efficacy:	78.6 lm/w	Chromaticity (y):	0.3772
CCT:	4003 K	Chromaticity (u'):	0.2249
CRI (Ra):	82.8	Chromaticity (v'):	0.5018
CRI (R9):	9.8	TM-30 Rf:	81.1
Peak Wavelength:	453.3 nm	TM-30 Rg:	94.2
Dominant Wavelength:	578.9 nm	Duv:	0.0005
S/P Ratio:	1.695		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.8	81.2	89.9	95.0	80.1	80.6	85.0	85.8	64.5	9.8	75.0	78.0	59.1	83.5	97.4	75.5

