



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  
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Catalog Number  
**YO-LED-X84-WHP-WW**  
Order Number  
**11827519**  
Test Number  
**11827519.08**

Test Date

2017-06-22

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:** White metal mount with cylindrical housing and clear glass lens.  
**Lamp:** One (1) white LED with optic attached  
**Mounting:** Surface - Ground  
**Ballast/Driver:** ECOdrive 561/S

**Luminaire**



**Summary of Results**

Radiant Flux:	5764 mW
Luminous Flux:	1883 lm
Luminaire Efficacy:	85.2 lm/W
CCT:	3047 K
CRI (Ra):	82.6
Chromaticity (x):	0.4320
Chromaticity (y):	0.3997
Chromaticity (u):	0.2492
Chromaticity (v):	0.3459
Duv:	-0.0011

**Test Conditions**

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.1864 A
Power:	22.09 W
Power Factor:	0.987
Frequency:	60 Hz
Current THD:	7.80 %

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



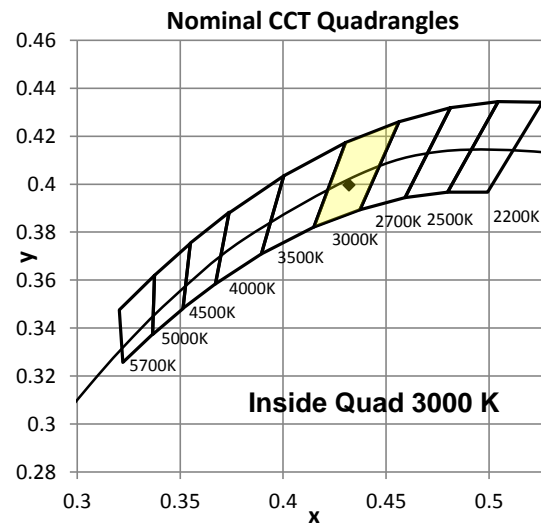
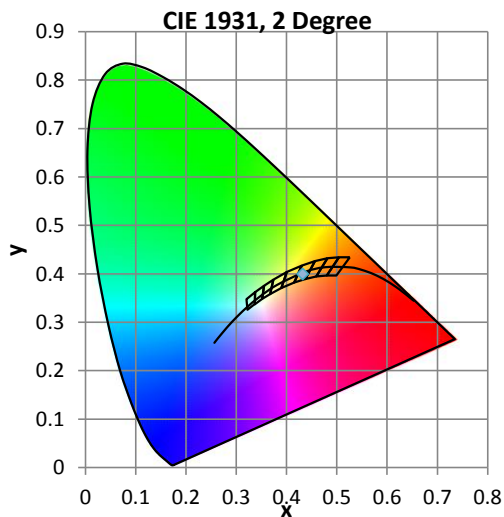
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.1864 A	22.09 W	0.987	60 Hz	7.80 %

### Summary of Results

<b>Total Output:</b>	1883 Lumens	<b>Chromaticity (x):</b>	0.4320
<b>Efficacy:</b>	85.2 lm/w	<b>Chromaticity (y):</b>	0.3997
<b>CCT:</b>	3047 K	<b>Chromaticity (u'):</b>	0.2492
<b>CRI (Ra):</b>	82.6	<b>Chromaticity (v'):</b>	0.5189
<b>CRI (R9):</b>	8.6	<b>TM-30 Rf:</b>	82.6
<b>Peak Wavelength:</b>	603.3 nm	<b>TM-30 Rg:</b>	94.7
<b>Dominant Wavelength:</b>	583 nm	<b>Duv:</b>	-0.0011
<b>S/P Ratio:</b>	1.382		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.6	81.4	92.2	95.2	79.3	81.5	90.2	82.0	59.0	8.6	81.8	78.0	71.5	84.1	98.2

