



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-X43-WHP-WW**  
Order Number  
**11827519**  
Test Number  
**11827519.01**

Test Date

2017-06-20

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:	8080 mW
Luminous Flux:	2611 lm
Luminaire Efficacy:	78.9 lm/W
CCT:	2768 K
CRI (Ra):	82.3
Chromaticity (x):	0.4552
Chromaticity (y):	0.4111
Chromaticity (u):	0.2593
Chromaticity (v):	0.3512
Duv:	0.0005

#### Test Conditions

Test Temperature:	25.6 °C
Voltage:	120.0 VAC
Current:	0.2780 A
Power:	33.09 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	6.92 %

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



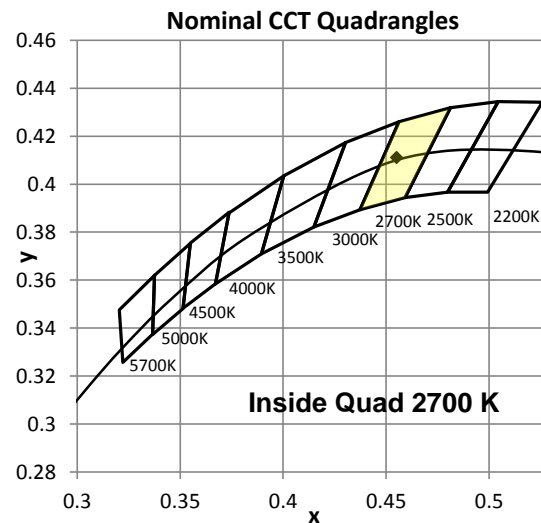
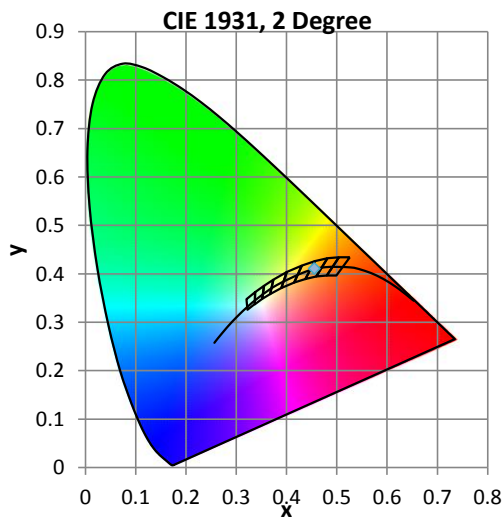
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.6 °C	120.0 VAC	0.2780 A	33.09 W	0.991	60 Hz	6.92 %

### Summary of Results

Total Output:	2611 Lumens	Chromaticity (x):	0.4552
Efficacy:	78.9 lm/w	Chromaticity (y):	0.4111
CCT:	2768 K	Chromaticity (u'):	0.2593
CRI (Ra):	82.3	Chromaticity (v'):	0.5268
CRI (R9):	8.0	TM-30 Rf:	83.4
Peak Wavelength:	606.2 nm	TM-30 Rg:	94.1
Dominant Wavelength:	583.7 nm	Duv:	0.0005
S/P Ratio:	1.254		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.3	80.8	92.1	94.9	79.2	81.0	91.1	81.5	57.5	8.0	82.3	78.4	74.6	83.5	97.9

