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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-X44-WHP-WW
Order Number
11827519
Test Number
11827519.03

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: | 8072 mW |
| Luminous Flux: | 2631 lm |
| Luminaire Efficacy: | 78.6 lm/W |
| CCT: | 3064 K |
| CRI (Ra): | 82.2 |
| Chromaticity (x): | 0.4303 |
| Chromaticity (y): | 0.3981 |
| Chromaticity (u): | 0.2488 |
| Chromaticity (v): | 0.3453 |
| Duv: | -0.0015 |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 24.0 °C |
| Voltage: | 120.0 VAC |
| Current: | 0.2813 A |
| Power: | 33.47 W |
| Power Factor: | 0.992 |
| Frequency: | 60 Hz |
| Current THD: | 6.90 % |

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



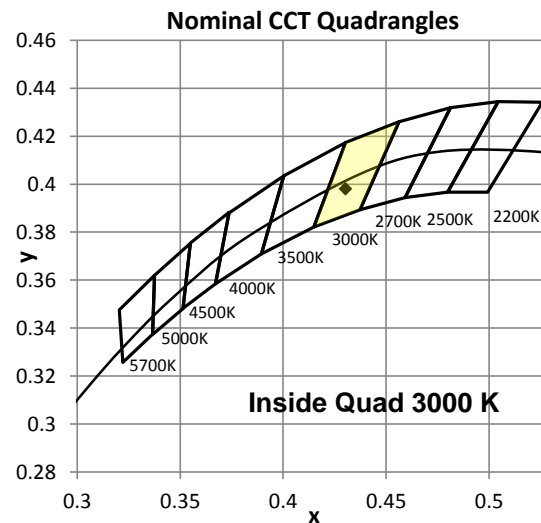
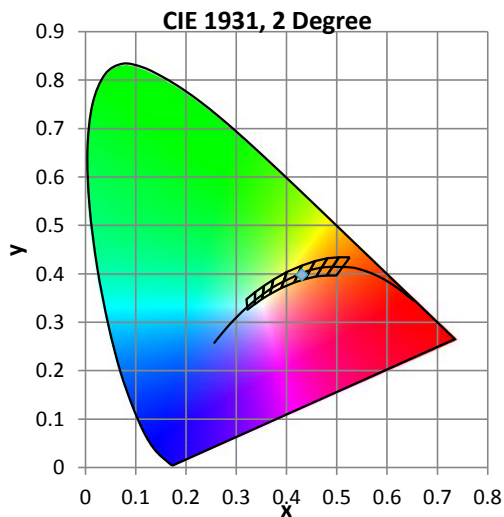
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 24.0 °C | 120.0 VAC | 0.2813 A | 33.47 W | 0.992 | 60 Hz | 6.90 % |

Summary of Results

| | | | |
|----------------------|-------------|--------------------|---------|
| Total Output: | 2631 Lumens | Chromaticity (x): | 0.4303 |
| Efficacy: | 78.6 lm/w | Chromaticity (y): | 0.3981 |
| CCT: | 3064 K | Chromaticity (u'): | 0.2488 |
| CRI (Ra): | 82.2 | Chromaticity (v'): | 0.5180 |
| CRI (R9): | 7.0 | TM-30 Rf: | 82.4 |
| Peak Wavelength: | 602.4 nm | TM-30 Rg: | 94.9 |
| Dominant Wavelength: | 583.1 nm | Duv: | -0.0015 |
| S/P Ratio: | 1.387 | | |



Color Rendering Index Detail

| Ra (CRI) | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|----------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|
| 82.2 | 80.9 | 92.0 | 95.0 | 78.7 | 81.1 | 89.9 | 81.6 | 58.3 | 7.0 | 81.3 | 77.1 | 72.2 | 83.7 | 98.0 |

