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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For
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Catalog Number
SR111-19-36DM-927/918-01

Order Number

12929416

Test Number

12929416.06A

Revised:

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Test Date

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Approved By

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The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular gray metal housing/heatsink
Lamp: LED array with optic attached
Mounting: VBU
Ballast/Driver: Integrated

Luminaire



Summary of Results

| | |
|---------------------|-----------|
| Radiant Flux: | 4314 mW |
| Luminous Flux: | 1087 lm |
| Luminaire Efficacy: | 57.1 lm/W |
| CCT: | 2738 K |
| CRI (Ra): | 97.6 |
| Chromaticity (x): | 0.4603 |
| Chromaticity (y): | 0.4166 |
| Chromaticity (u): | 0.2601 |
| Chromaticity (v): | 0.3531 |
| Duv: | 0.0019 |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.3 °C |
| Voltage: | 12.13 VAC |
| Current: | 1.698 A |
| Power: | 19.05 W |
| Power Factor: | 0.925 |
| Frequency: | 60 Hz |
| Current THD: | 37.8 % |

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



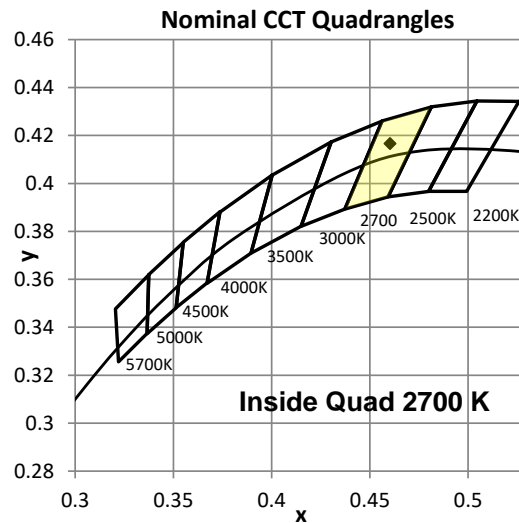
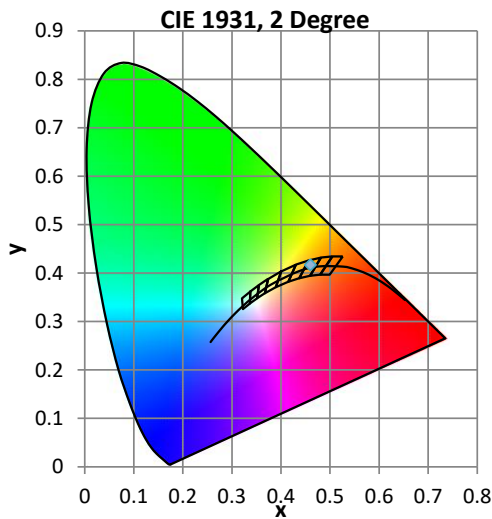
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|---------|---------|--------------|-----------|-------------|
| 25.3 °C | 12.13 VAC | 1.698 A | 19.05 W | 0.925 | 60 Hz | 37.8 % |

Summary of Results

| | | | |
|-----------------------------|-------------|---------------------------|--------|
| Total Output: | 1087 Lumens | Chromaticity (x): | 0.4603 |
| Efficacy: | 57.1 lm/w | Chromaticity (y): | 0.4166 |
| CCT: | 2738 K | Chromaticity (u'): | 0.2601 |
| CRI (Ra): | 97.6 | Chromaticity (v'): | 0.5297 |
| CRI (R9): | 86.6 | TM-30 Rf: | 92.8 |
| Peak Wavelength: | 627 nm | TM-30 Rg: | 100.6 |
| Dominant Wavelength: | 583 nm | Duv: | 0.0019 |
| S/P Ratio: | 1.33 | | |



Color Rendering Index Detail

| Ra (CRI) | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.6 | 99.3 | 98.6 | 95.7 | 96.2 | 98.3 | 98.9 | 98.2 | 95.4 | 86.6 | 95.9 | 93.7 | 92.2 | 99.6 | 96.6 | 96.7 |

