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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
Soraa Inc

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Catalog Number
SM16-07-25DM-927/918-01

Order Number

12929416

Test Number

12929416.01A

Revised:

2019-07-15

Test Date

2019-07-11

Prepared By

Austin Duff, Technician

Approved By

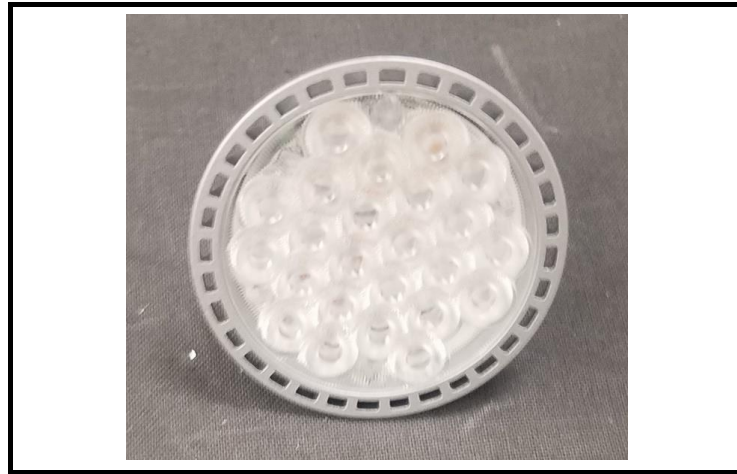
Eric Gaudreau, Engineering Leader

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: | 1890 mW |
| Luminous Flux: | 469.8 lm |
| Luminaire Efficacy: | 60.2 lm/W |
| CCT: | 2732 K |
| CRI (Ra): | 97.5 |
| Chromaticity (x): | 0.4579 |
| Chromaticity (y): | 0.4114 |
| Chromaticity (u): | 0.2609 |
| Chromaticity (v): | 0.3516 |
| Duv: | 0.0002 |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 24.9 °C |
| Voltage: | 12.09 VAC |
| Current: | 0.6956 A |
| Power: | 7.807 W |
| Power Factor: | 0.929 |
| Frequency: | 60 Hz |
| Current THD: | 38.2 % |

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



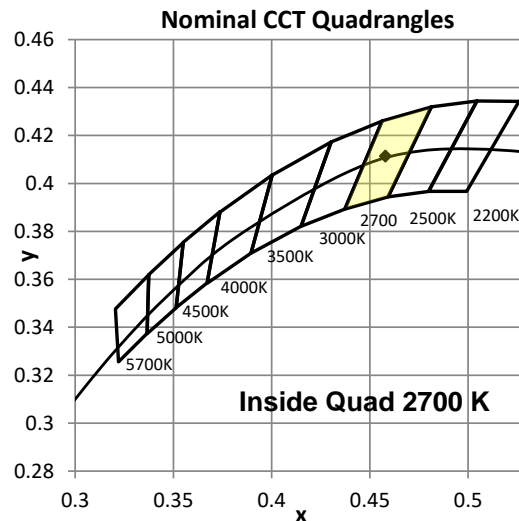
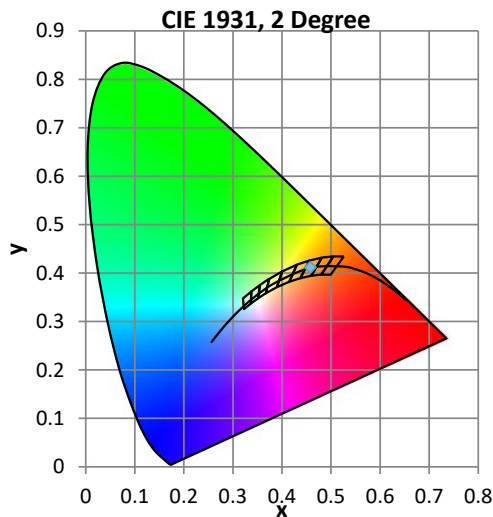
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 24.9 °C | 12.09 VAC | 0.6956 A | 7.807 W | 0.929 | 60 Hz | 38.2 % |

Summary of Results

| | | | |
|-----------------------------|------------|---------------------------|--------|
| Total Output: | 470 Lumens | Chromaticity (x): | 0.4579 |
| Efficacy: | 60.2 lm/w | Chromaticity (y): | 0.4114 |
| CCT: | 2732 K | Chromaticity (u'): | 0.2609 |
| CRI (Ra): | 97.5 | Chromaticity (v'): | 0.5274 |
| CRI (R9): | 91.3 | TM-30 Rf: | 94.9 |
| Peak Wavelength: | 633 nm | TM-30 Rg: | 100.7 |
| Dominant Wavelength: | 584 nm | Duv: | 0.0002 |
| S/P Ratio: | 1.36 | | |



Color Rendering Index Detail

| Ra (CRI) | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.5 | 98.0 | 99.3 | 97.6 | 96.0 | 97.5 | 96.5 | 98.3 | 96.8 | 91.3 | 99.4 | 92.9 | 95.0 | 98.0 | 97.6 | 98.9 |

