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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 C78.377-2017, IES TM-30-2015

Prepared For
B-K Lighting Inc
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United States

Catalog Number
MA-LED-C26-SP-12-3000K

Order Number
12496749
Test Number
12496749.03A

Revised:
2018-11-19
Test Date

2018-11-14

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with specular prismatic reflector and glass prismatic lens above and below

Lamp: Two (2) Lumenetix CTM1C19 16-80K 2000L 35W 24V Module with diffuse lens and specular reflector. One (1) above and one (1) below.

Mounting: Pendant

Ballast/Driver: Two (2) EFORE RSLP070-24

Luminaire



Summary of Results

| | |
|---------------------|-----------|
| Radiant Flux: | 6020 mW |
| Luminous Flux: | 1913 lm |
| Luminaire Efficacy: | 32.3 lm/W |
| CCT: | 3005 K |
| CRI (Ra): | 95.3 |
| Chromaticity (x): | 0.4379 |
| Chromaticity (y): | 0.4069 |
| Chromaticity (u): | 0.2500 |
| Chromaticity (v): | 0.3484 |
| Duv: | 0.0009 |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.1 °C |
| Voltage: | 120.0 VAC |
| Current: | 0.5094 A |
| Power: | 59.30 W |
| Power Factor: | 0.969 |
| Frequency: | 60 Hz |
| Current THD: | 17.8 % |

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



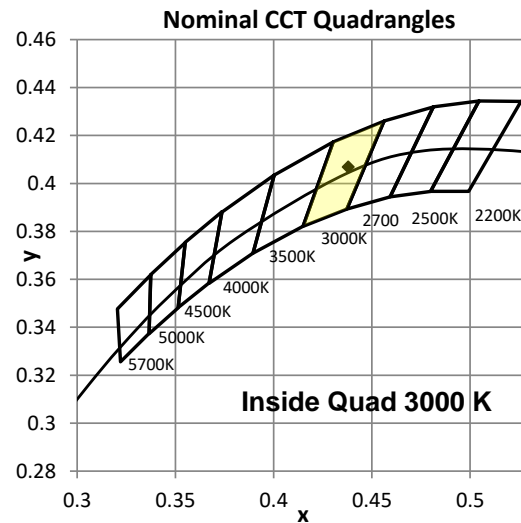
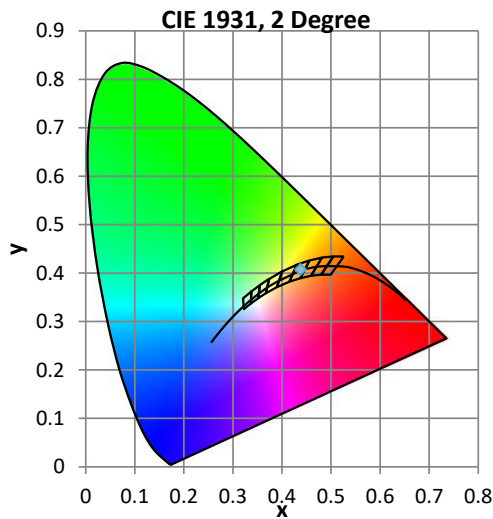
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 25.1 °C | 120.0 VAC | 0.5094 A | 59.30 W | 0.969 | 60 Hz | 17.8 % |

Summary of Results

| | | | |
|-----------------------------|-------------|---------------------------|--------|
| Total Output: | 1913 Lumens | Chromaticity (x): | 0.4379 |
| Efficacy: | 32.3 lm/w | Chromaticity (y): | 0.4069 |
| CCT: | 3005 K | Chromaticity (u'): | 0.2500 |
| CRI (Ra): | 95.3 | Chromaticity (v'): | 0.5226 |
| CRI (R9): | 95.5 | TM-30 Rf: | 93.4 |
| Peak Wavelength: | 640 nm | TM-30 Rg: | 102.9 |
| Dominant Wavelength: | 583 nm | Duv: | 0.0009 |
| S/P Ratio: | 1.41 | | |



Color Rendering Index Detail

| Ra (CRI) | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.3 | 97.9 | 95.8 | 90.1 | 96.2 | 97.1 | 94.4 | 95.8 | 95.5 | 95.5 | 88.5 | 96.1 | 86.8 | 96.8 | 93.3 | 98.6 |

