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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
B-K Lighting Inc
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United States

Catalog Number
LBP-LED-50X-BW-36
Order Number
11996651
Test Number
11996651.03

Test Date

2017-10-17

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: Decorative white metal housing with shade, reflector, clear plastic lens, and standing pole base
Lamp: One (1) white LED with optic
Mounting: Post
Ballast/Driver: One (1) Thomas Research Products PLED75W-054-C1400-D

Luminaire



Summary of Results

| | |
|---------------------|------------|
| Radiant Flux: | 21250 mW |
| Luminous Flux: | 7039 lm |
| Luminaire Efficacy: | 124.0 lm/W |
| CCT: | 3074 K |
| CRI (Ra): | 81.8 |
| Chromaticity (x): | 0.4338 |
| Chromaticity (y): | 0.4069 |
| Chromaticity (u): | 0.2474 |
| Chromaticity (v): | 0.3480 |
| Duv: | 0.0016 |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.5 °C |
| Voltage: | 120.1 VAC |
| Current: | 0.4756 A |
| Power: | 56.76 W |
| Power Factor: | 0.994 |
| Frequency: | 60 Hz |
| Current THD: | 6.28 % |

Testing was performed in a 3-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



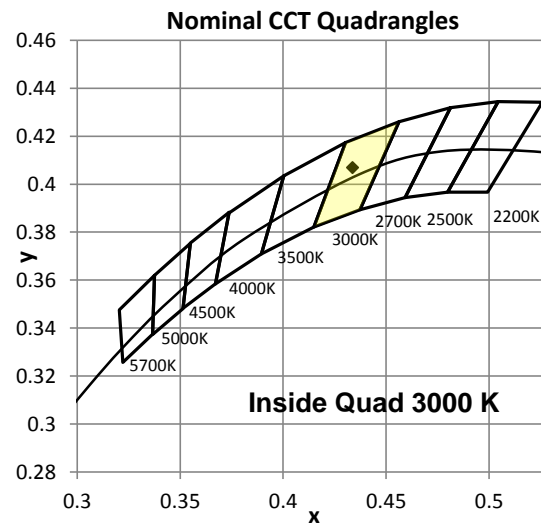
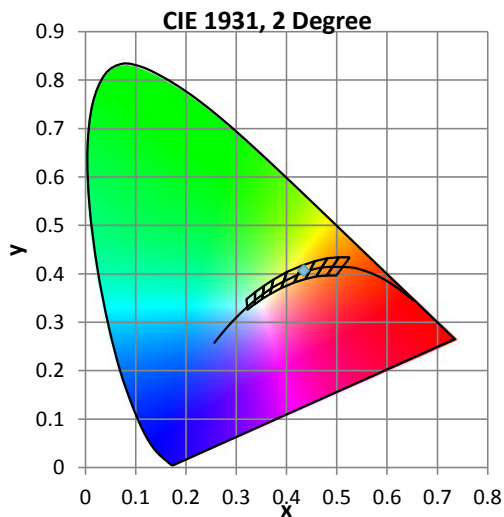
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 25.5 °C | 120.1 VAC | 0.4756 A | 56.76 W | 0.994 | 60 Hz | 6.28 % |

Summary of Results

| | | | |
|----------------------|-------------|--------------------|--------|
| Total Output: | 7039 Lumens | Chromaticity (x): | 0.4338 |
| Efficacy: | 124.0 lm/w | Chromaticity (y): | 0.4069 |
| CCT: | 3074 K | Chromaticity (u'): | 0.2474 |
| CRI (Ra): | 81.8 | Chromaticity (v'): | 0.5220 |
| CRI (R9): | 3.3 | TM-30 Rf: | 82.9 |
| Peak Wavelength: | 602.7 nm | TM-30 Rg: | 94.3 |
| Dominant Wavelength: | 582 nm | Duv: | 0.0016 |
| S/P Ratio: | 1.367 | | |



Color Rendering Index Detail

| Ra (CRI) | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 81.8 | 79.7 | 90.4 | 96.3 | 79.1 | 79.9 | 88.3 | 82.7 | 57.8 | 3.3 | 78.3 | 77.9 | 69.5 | 82.2 | 98.5 | 71.8 |

