



UL LLC
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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2011, ANSI C82.77-2002
CIE 13.3-1995, CIE 15-2004, IES TM-30-15

Prepared For
B-K LIGHTING INC

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Catalog Number

DE-LED-x59-SP-9 SN-DE-LED-x59-SP-9 ST-DE-LED-x59-SP-9 SM-DE-LED-x59-SP-9
UL-DE-LED-x59-SP-9 CK-LED-x59-SP-9 OL-LED-x59-SP-9

Order Number
11353040
Test Number
11353040.33

Test Date

2016-09-09

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: Circular black aluminum housing, specular linear reflector, and glass lens
Lamp: One (1) White LED
Mounting: VBU
Ballast/Driver: PowerSelect PS60U700C14T

Luminaire



Summary of Results

| | |
|---------------------|-----------|
| Radiant Flux: | 2392 mW |
| Luminous Flux: | 773.1 lm |
| Luminaire Efficacy: | 62.8 lm/W |
| CCT: | 2944 K |
| CRI (Ra): | 80.8 |
| Chromaticity (x): | 0.4470 |
| Chromaticity (y): | 0.4177 |
| Chromaticity (u): | 0.2512 |
| Chromaticity (v): | 0.3521 |
| Duv: | 0.0037 |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.1 °C |
| Voltage: | 120.1 VAC |
| Current: | 0.1055 A |
| Power: | 12.32 W |
| Power Factor: | 0.973 |
| Frequency: | 60 Hz |
| Current THD: | 14.1 % |

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



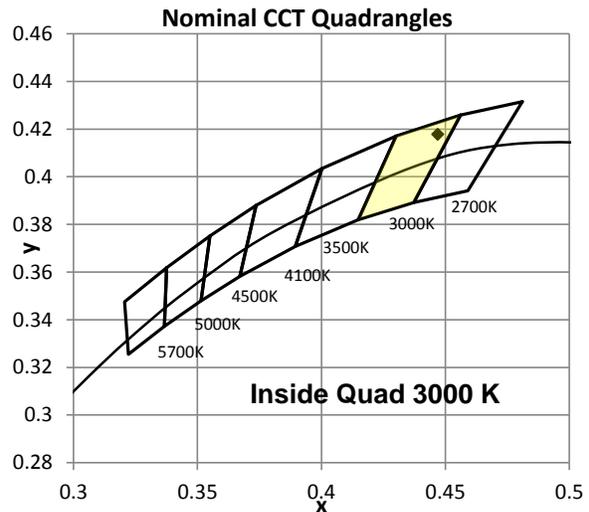
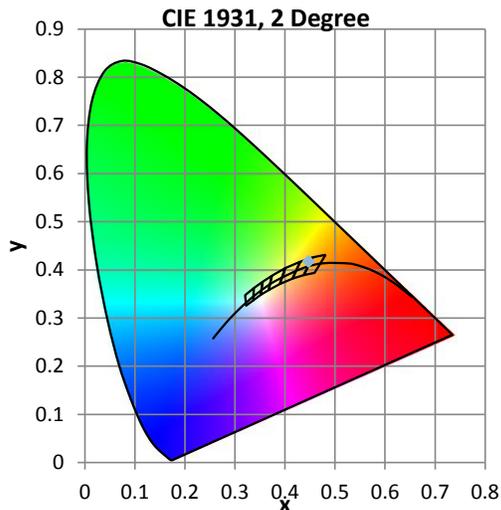
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 25.1 °C | 120.1 VAC | 0.1055 A | 12.32 W | 0.973 | 60 Hz | 14.1 % |

Summary of Results

| | | | |
|-----------------------------|------------|-----------------------------|--------|
| Total Output: | 773 Lumens | Chromaticity (x): | 0.4470 |
| Efficacy: | 62.8 lm/w | Chromaticity (y): | 0.4177 |
| CCT: | 2944 K | Chromaticity (u'): | 0.2512 |
| CRI (Ra): | 80.8 | Chromaticity (v'): | 0.5281 |
| CRI (R9): | 10.1 | TM-30 R_f: | 79.0 |
| Peak Wavelength: | 605.9 nm | TM-30 R_g: | 98.1 |
| Dominant Wavelength: | 581.8 nm | Duv: | 0.0037 |
| S/P Ratio: | 1.235 | | |



Color Rendering Index Detail

| Ra (CRI) | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.8 | 78.4 | 85.6 | 93.5 | 81.5 | 78.1 | 81.7 | 85.5 | 62.3 | 10.1 | 67.9 | 80.6 | 65.3 | 79.1 | 96.0 |

