



UL LLC  
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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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Catalog Number  
**LBP-LED-47X-BW-36**  
Order Number  
11996651  
Test Number  
11996651.09

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) eldoLED ECOdrive 561/S

**Luminaire**



**Summary of Results**

|                     |            |
|---------------------|------------|
| Radiant Flux:       | 15930 mW   |
| Luminous Flux:      | 5279 lm    |
| Luminaire Efficacy: | 130.3 lm/W |
| CCT:                | 3043 K     |
| CRI (Ra):           | 82.2       |
| Chromaticity (x):   | 0.4362     |
| Chromaticity (y):   | 0.4082     |
| Chromaticity (u):   | 0.2484     |
| Chromaticity (v):   | 0.3486     |
| Duv:                | 0.0017     |

**Test Conditions**

|                   |           |
|-------------------|-----------|
| Test Temperature: | 25.0 °C   |
| Voltage:          | 120.1 VAC |
| Current:          | 0.3406 A  |
| Power:            | 40.53 W   |
| Power Factor:     | 0.990     |
| Frequency:        | 60 Hz     |
| Current THD:      | 6.53 %    |

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



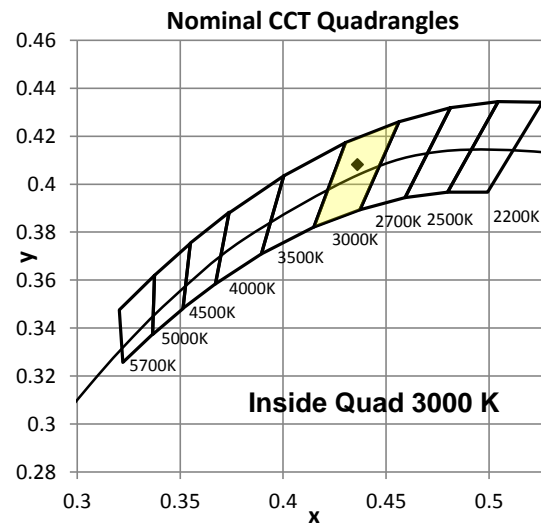
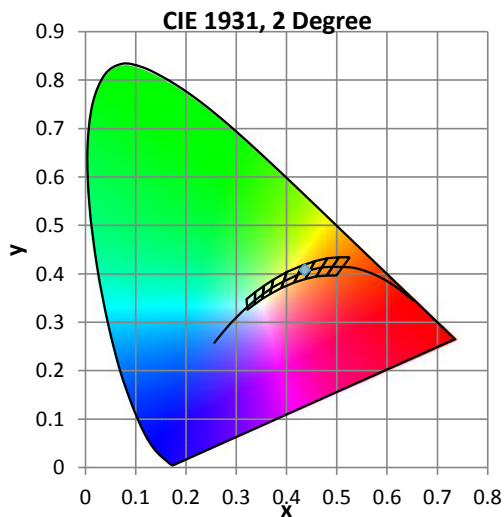
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

| Temperature | Voltage   | Current  | Power   | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 25.0 °C     | 120.1 VAC | 0.3406 A | 40.53 W | 0.990        | 60 Hz     | 6.53 %      |

### Summary of Results

|                             |             |                           |        |
|-----------------------------|-------------|---------------------------|--------|
| <b>Total Output:</b>        | 5279 Lumens | <b>Chromaticity (x):</b>  | 0.4362 |
| <b>Efficacy:</b>            | 130.3 lm/w  | <b>Chromaticity (y):</b>  | 0.4082 |
| <b>CCT:</b>                 | 3043 K      | <b>Chromaticity (u'):</b> | 0.2484 |
| <b>CRI (Ra):</b>            | 82.2        | <b>Chromaticity (v'):</b> | 0.5229 |
| <b>CRI (R9):</b>            | 4.9         | <b>TM-30 Rf:</b>          | 83.3   |
| <b>Peak Wavelength:</b>     | 603.3 nm    | <b>TM-30 Rg:</b>          | 94.5   |
| <b>Dominant Wavelength:</b> | 582 nm      | <b>Duv:</b>               | 0.0017 |
| <b>S/P Ratio:</b>           | 1.355       |                           |        |



### Color Rendering Index Detail

| Ra (CRI) | R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9  | R10  | R11  | R12  | R13  | R14  | R15  |
|----------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 82.2     | 80.1 | 90.5 | 96.6 | 79.9 | 80.3 | 88.5 | 83.1 | 58.4 | 4.9 | 78.6 | 78.9 | 69.8 | 82.5 | 98.6 | 72.3 |

