



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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
B-K Lighting INC

Daniel Carrejo
40429 Brickyard Dr.
Madera, CA 93636
United States

Catalog Number
OR-LED-e119-VNSP-WHP-9-0-YM-MT(3500K)

Order Number
14151565
Test Number
14151565.03

Test Date

2022-01-10

Prepared By

Austin Duff, Technician

Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white metal housing with clear glass lens
Lamp: 49 White LED with optic below
Mounting: Pole/Arm
Ballast/Driver: DELTA USCI-200140GA

Luminaire



Summary of Results

| | |
|---------------------|------------|
| Radiant Flux: | 27050 mW |
| Luminous Flux: | 9089 lm |
| Luminaire Efficacy: | 101.4 lm/W |
| CCT: | 3595 K |
| CRI (Ra): | 81.4 |
| Chromaticity (x): | 0.4020 |
| Chromaticity (y): | 0.3935 |
| Chromaticity (u): | 0.2324 |
| Chromaticity (v): | 0.3413 |
| Duv: | 0.0019 |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.1 °C |
| Voltage: | 120.1 VAC |
| Current: | 0.7688 A |
| Power: | 89.66 W |
| Power Factor: | 0.971 |
| Frequency: | 60 Hz |
| Current THD: | 21.9 % |

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

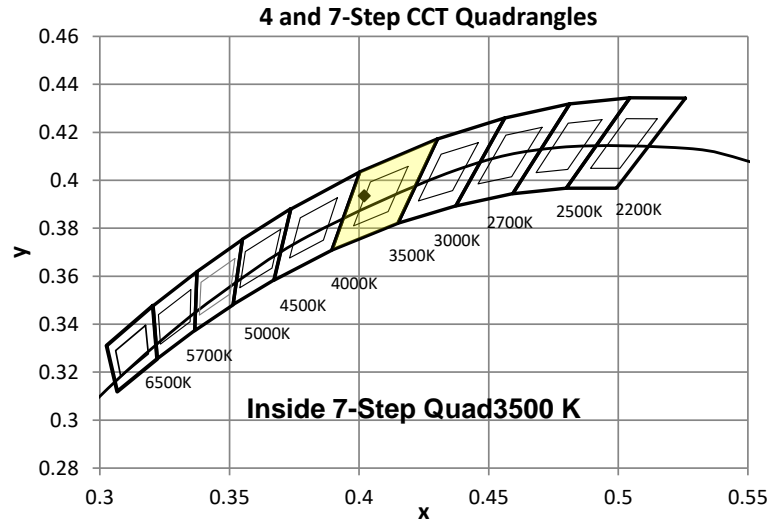
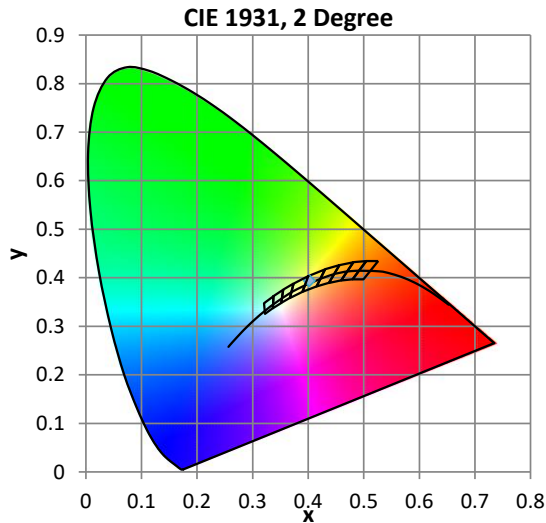
Integrating Sphere Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 25.1 °C | 120.1 VAC | 0.7688 A | 89.66 W | 0.971 | 60 Hz | 21.9 % |

Summary of Results

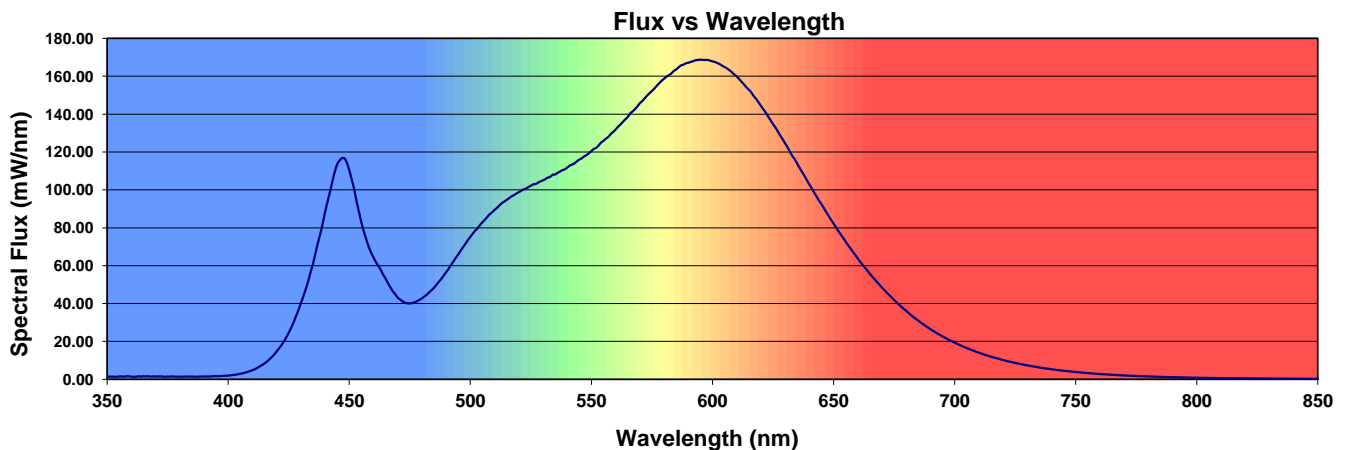
| | | | |
|-----------------------------|-------------|---------------------------|--------|
| Total Output: | 9089 Lumens | Chromaticity (x): | 0.4020 |
| Efficacy: | 101.4 lm/w | Chromaticity (y): | 0.3935 |
| CCT: | 3595 K | Chromaticity (u'): | 0.2324 |
| CRI (Ra): | 81.4 | Chromaticity (v'): | 0.5119 |
| CRI (R9): | -3.8 | TM-30 Rf: | 85 |
| Peak Wavelength: | 595 nm | TM-30 Rg: | 96 |
| Dominant Wavelength: | 580 nm | TM-30 Rcs,h1: | -13% |
| S/P Ratio: | 1.54 | Duv: | 0.0020 |
| M/P Ratio: | 0.6 | | |

WELL Building Standard v2



Color Rendering Index Detail

| Ra (CRI) | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.4 | 78.8 | 88.1 | 96.3 | 80.8 | 79.8 | 85.4 | 83.9 | 58.5 | -3.8 | 73.4 | 80.4 | 70.0 | 80.8 | 98.1 | 70.4 |



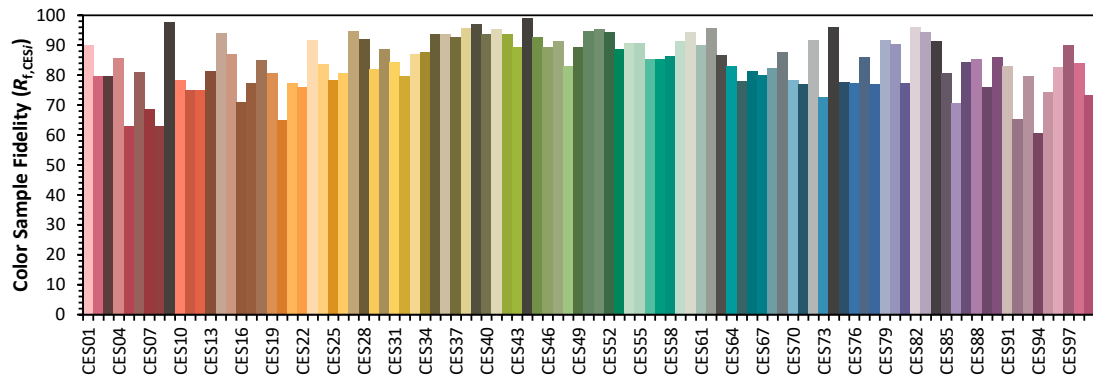
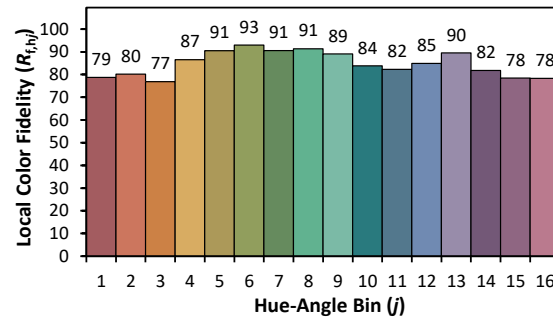
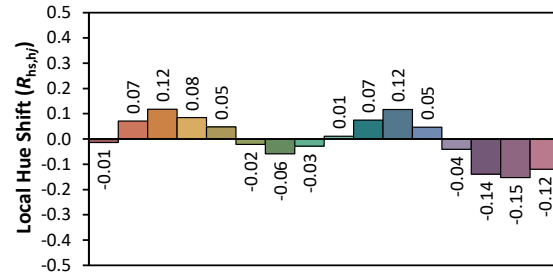
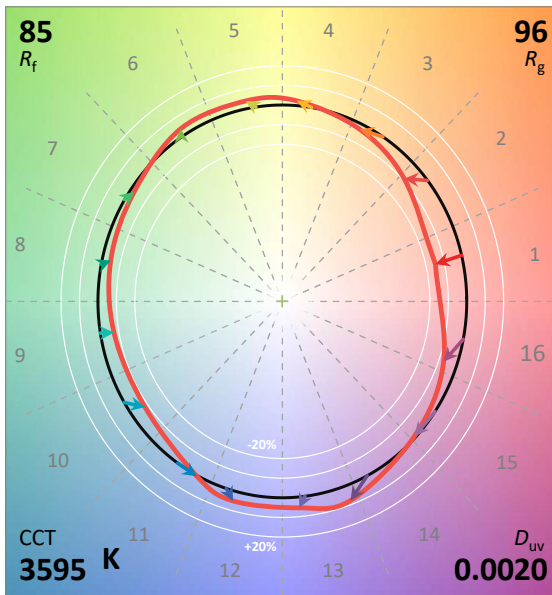
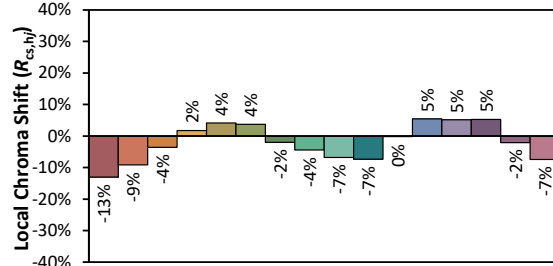
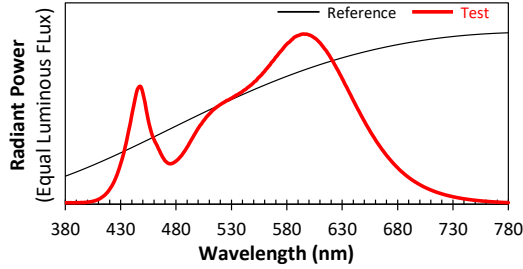
ANSI/IES TM-30-18 Color Rendition Report

Date: 2022-01-10

Manufacturer: B-K Lighting INC

Model:

OR-LED-e119-VNSP-WHP-9-0-YM-MT(3500K)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4020
 y 0.3935
 u' 0.2324
 v' 0.5119

CIE 13.3-1995
(CRI)

R_a 81

R_g -4

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.