



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-e116-VNSP-WHP-9-0-YM-MT(4000K)**

Order Number  
14151565  
Test Number  
14151565.04

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:	26760 mW
Luminous Flux:	8841 lm
Luminaire Efficacy:	98.6 lm/W
CCT:	4118 K
CRI (Ra):	81.8
Chromaticity (x):	0.3763
Chromaticity (y):	0.3777
Chromaticity (u):	0.2220
Chromaticity (v):	0.3343
Duv:	0.0012

**Test Conditions**

Test Temperature:	25.7 °C
Voltage:	120.0 VAC
Current:	0.7691 A
Power:	89.68 W
Power Factor:	0.972
Frequency:	60 Hz
Current THD:	21.7 %

Absorption correction was employed for this measurement.



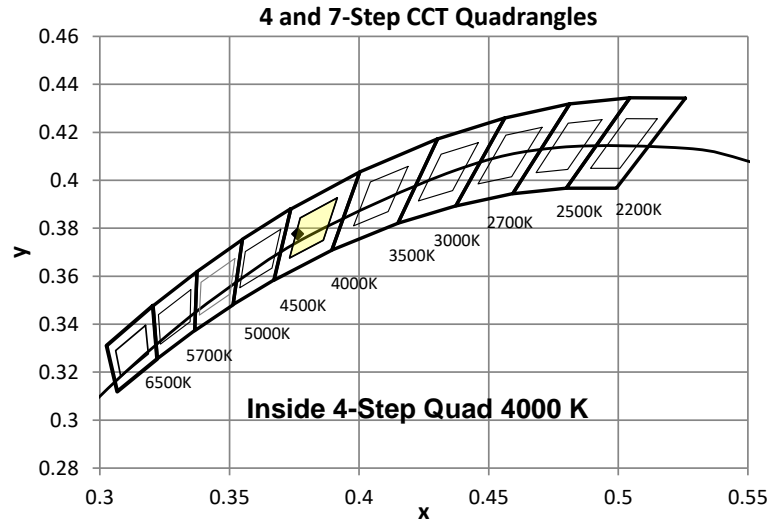
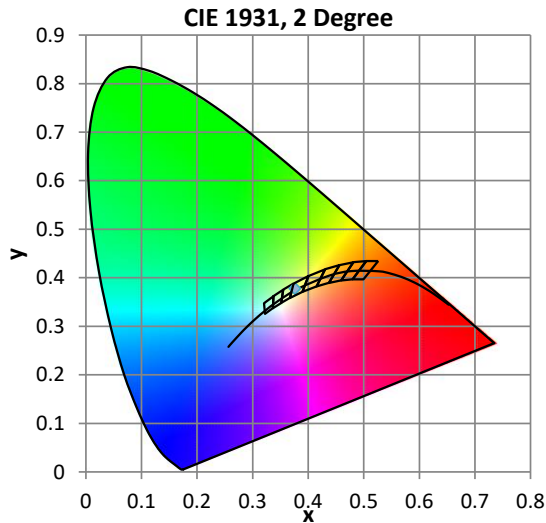
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	120.0 VAC	0.7691 A	89.68 W	0.972	60 Hz	21.7 %

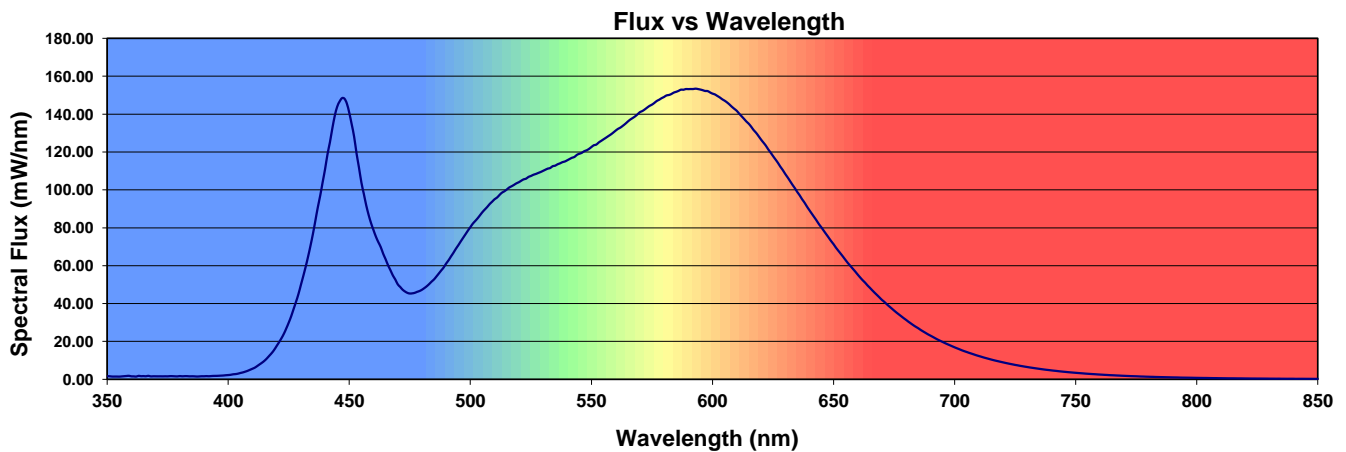
### Summary of Results

Total Output:	8841 Lumens	Chromaticity (x):	0.3763
Efficacy:	98.6 lm/w	Chromaticity (y):	0.3777
CCT:	4118 K	Chromaticity (u'):	0.2220
CRI (Ra):	81.8	Chromaticity (v'):	0.5014
CRI (R9):	-1.4	TM-30 Rf:	84
Peak Wavelength:	593 nm	TM-30 Rg:	96
Dominant Wavelength:	578 nm	TM-30 Rcs,h1:	-13%
S/P Ratio:	1.71	Duv:	0.0017
M/P Ratio:	0.69	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
81.8	79.3	87.4	94.6	81.7	80.3	83.8	85.2	61.9	-1.4	71.3	81.2	67.5	81.1	97.2	71.8



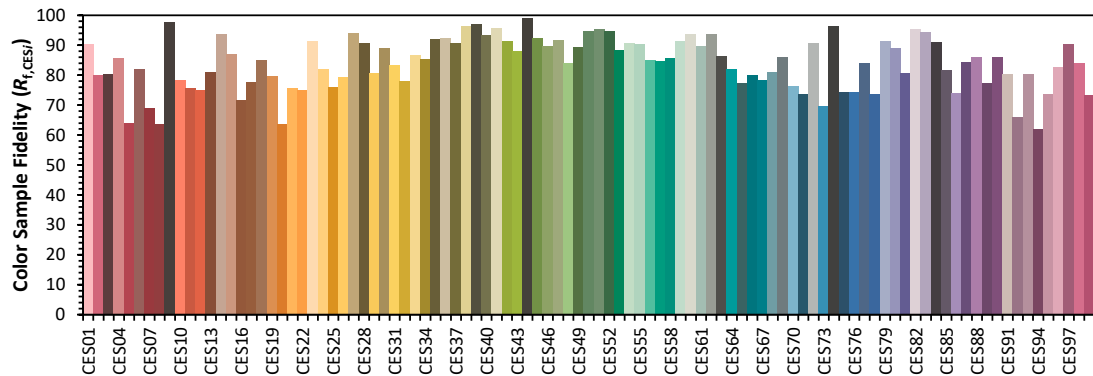
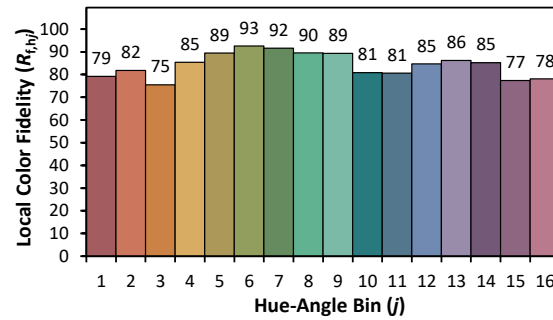
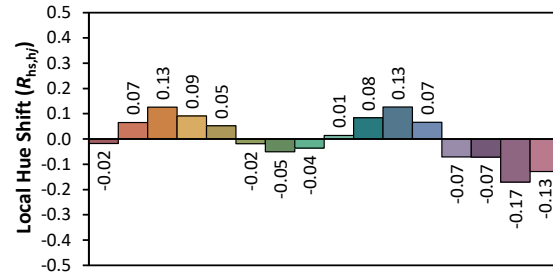
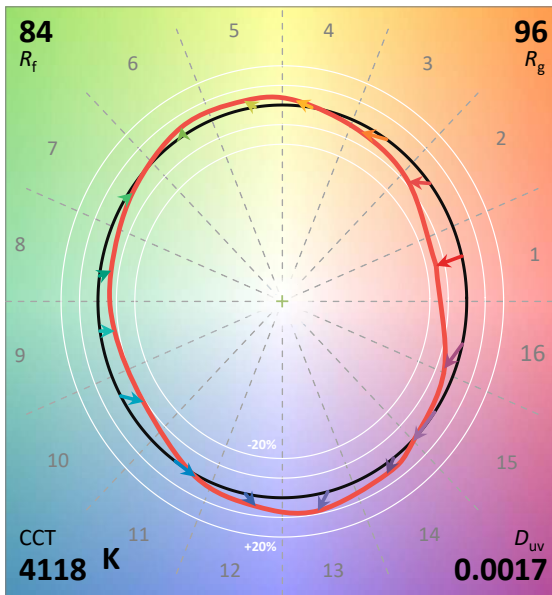
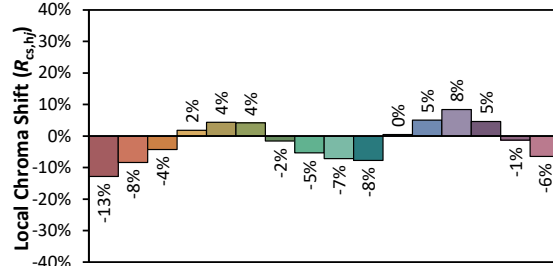
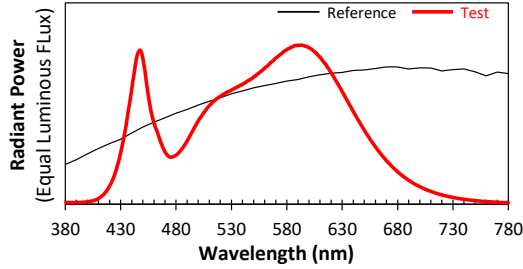
# ANSI/IES TM-30-18 Color Rendition Report

Date: 2022-01-10

Manufacturer: B-K Lighting INC

Model:

OR-LED-e116-VNSP-WHP-9-0-YM-MT(4000K)



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

x 0.3763

y 0.3777

u' 0.2220

v' 0.5014

CIE 13.3-1995  
(CRI)

R<sub>a</sub> 82

R<sub>9</sub> -1

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