



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**

**UO-LED-3000K-WW-2-42-WHP-INC-MT**

Order Number  
13819078  
Test Number  
13819078.02

Test Date

2021-06-18

Prepared By

William Escobar, Technician

Approved By

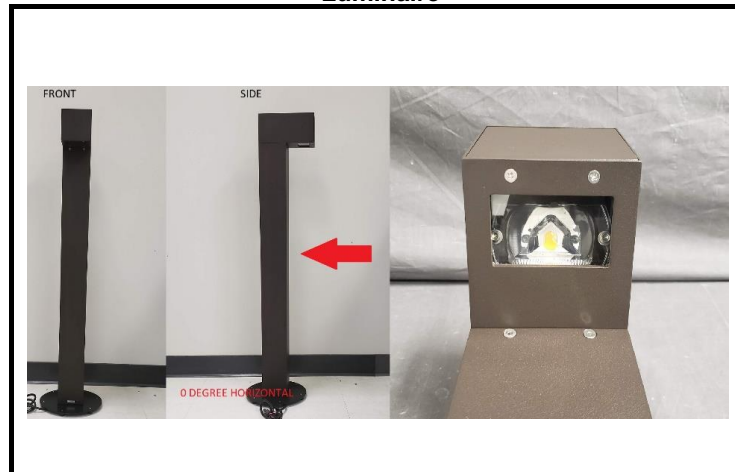
Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed brown metal housing with clear glass lens  
**Lamp:** 1 White LED with optic below  
**Mounting:** Bollard  
**Ballast/Driver:** ERP PTB30W-0700-42

### Luminaire



### Summary of Results

Radiant Flux:	2702 mW
Luminous Flux:	889.7 lm
Luminaire Efficacy:	44.2 lm/W
CCT:	3106 K
CRI (Ra):	82.8
Chromaticity (x):	0.4297
Chromaticity (y):	0.4020
Chromaticity (u):	0.2468
Chromaticity (v):	0.3463
Duv:	0.0003

### Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.1694 A
Power:	20.14 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	10.3 %

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



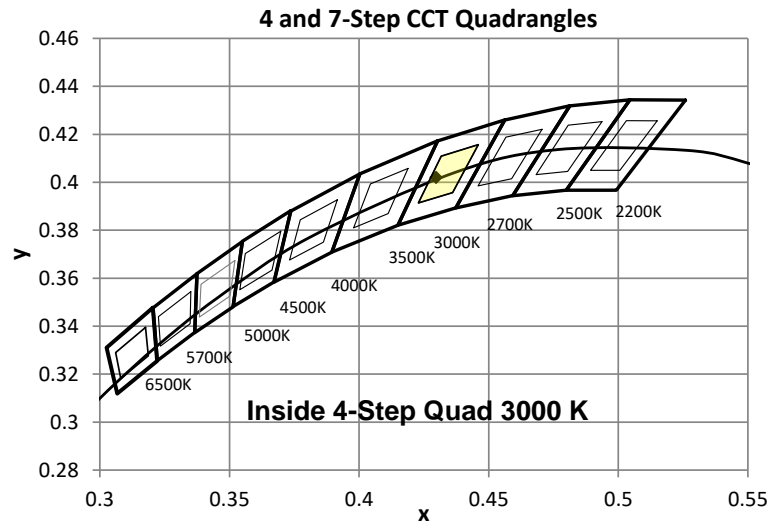
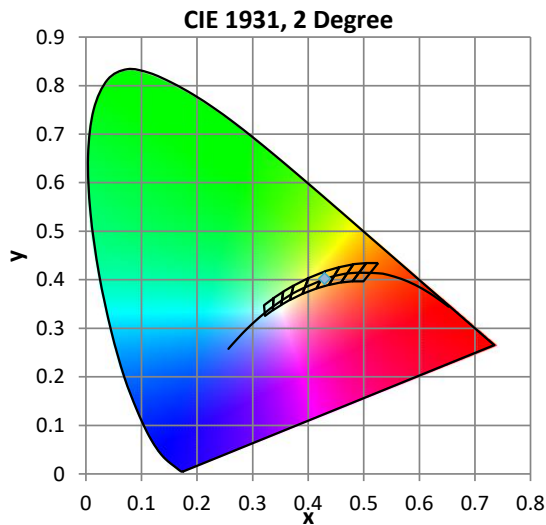
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.1694 A	20.14 W	0.991	60 Hz	10.3 %

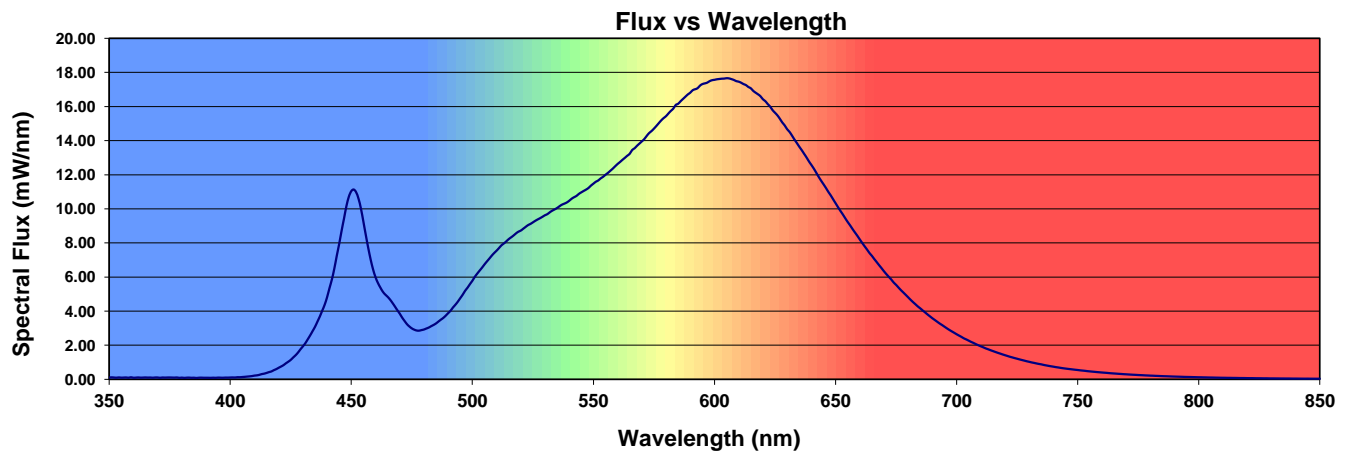
### Summary of Results

Total Output:	890 Lumens	Chromaticity (x):	0.4297
Efficacy:	44.2 lm/w	Chromaticity (y):	0.4020
CCT:	3106 K	Chromaticity (u'):	0.2468
CRI (Ra):	82.8	Chromaticity (v'):	0.5195
CRI (R9):	9.1	TM-30 Rf:	85
Peak Wavelength:	605 nm	TM-30 Rg:	97
Dominant Wavelength:	582 nm	TM-30 Rcs,h1:	-11%
S/P Ratio:	1.37	Duv:	0.0002
M/P Ratio:	0.52	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
82.8	81.2	89.7	96.4	81.7	81.0	86.9	84.3	61.1	9.1	76.0	81.0	68.2	83.1	98.1	74.1



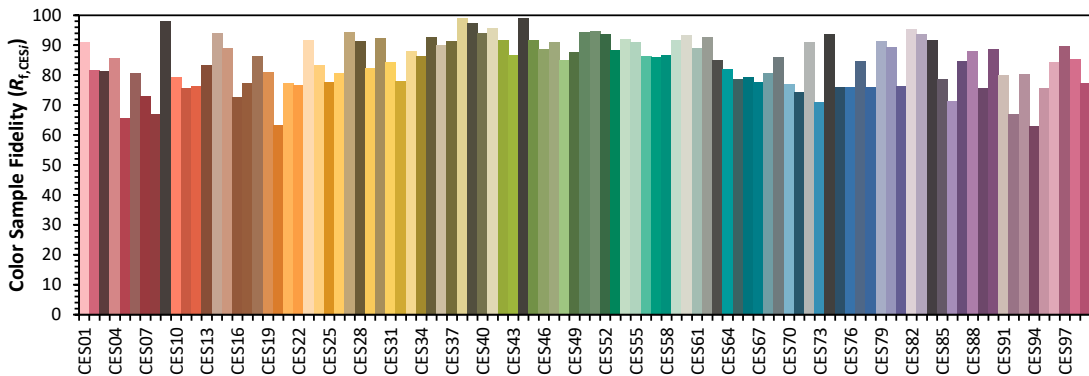
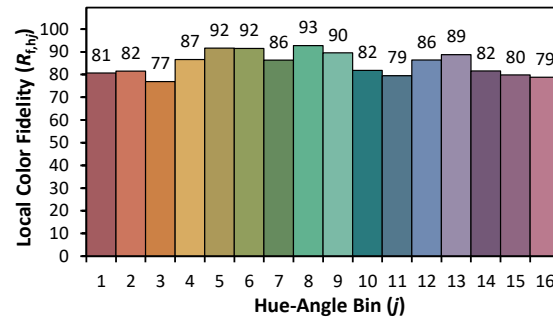
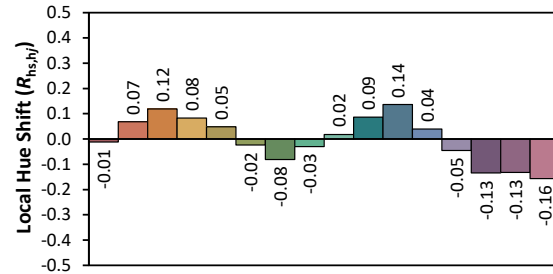
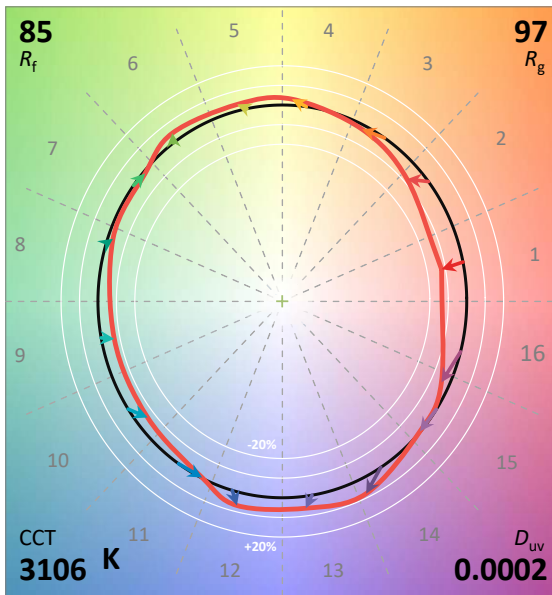
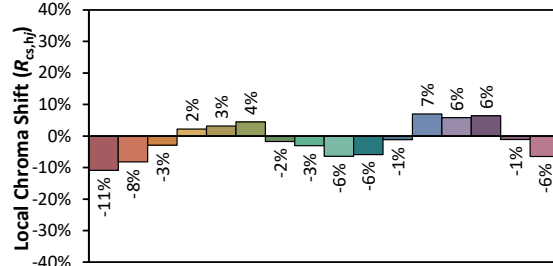
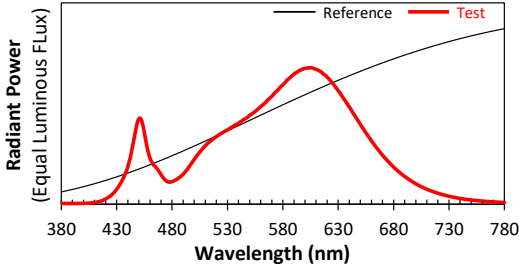
# ANSI/IES TM-30-18 Color Rendition Report

Date: 2021-06-18

Manufacturer: B-K Lighting INC

Model:

UO-LED-3000K-WW-2-42-WHP-INC-MT



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

x 0.4297  
y 0.4020  
u' 0.2468  
v' 0.5195

CIE 13.3-1995  
(CRI)  
R<sub>a</sub> 83  
R<sub>9</sub> 9

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