



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

## Photometric Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, UL 1598-2008  
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-2700K-WW-2-42-WHP-INC-MT**

Order Number  
13819078  
Test Number  
13819078.01

**Test Date**

2021-06-16 - 2021-06-23

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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Laboratory results may not be representative of field performance  
Ballast factors have not been applied

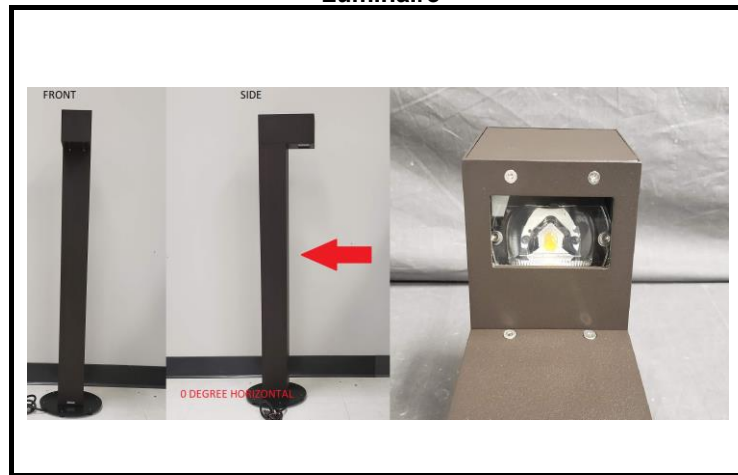
Testing was performed in a 3-meter integrating sphere using the  $4\pi$  geometry method.

Absorption correction was employed for Sphere measurement



**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

#### Integrating Sphere

Luminous Flux: 802.2 Lumens  
Efficacy: 40.23 lm/w  
CCT: 2810 K  
CRI (Ra): 82.2

#### Electrical Data at 120 VAC

Test Temperature: 24.4 °C  
Voltage: 120.0 VAC  
Current: 0.1677 A  
Power: 19.94 W  
Power Factor: 0.991  
Frequency: 60 Hz  
Current THD: 10.4 %

#### In-Situ

LED Temperature: 76.4 °C  
Driver Temperature: 56.3 °C  
Measured LED Current: 0.5059 A

Temperature is offset to an ambient temperature of 25°C as described in UL1598-2008.



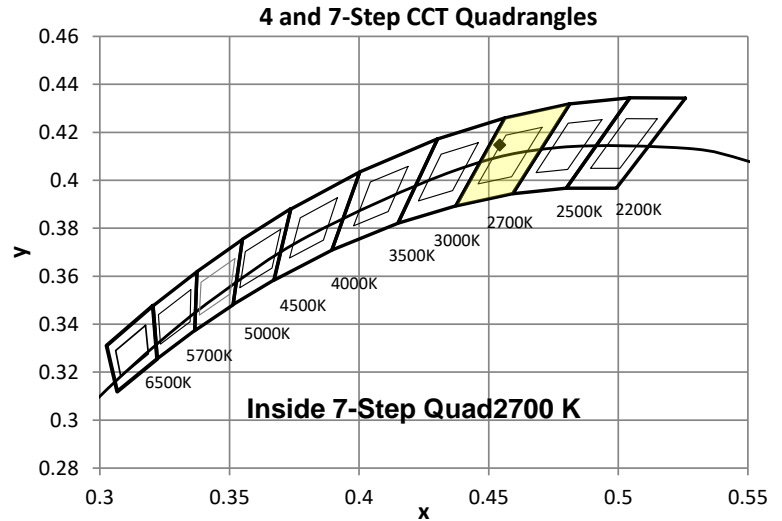
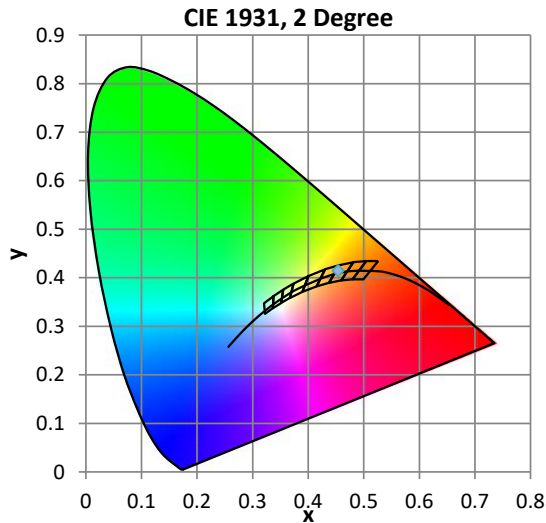
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.0 VAC	0.1677 A	19.94 W	0.991	60 Hz	10.4 %

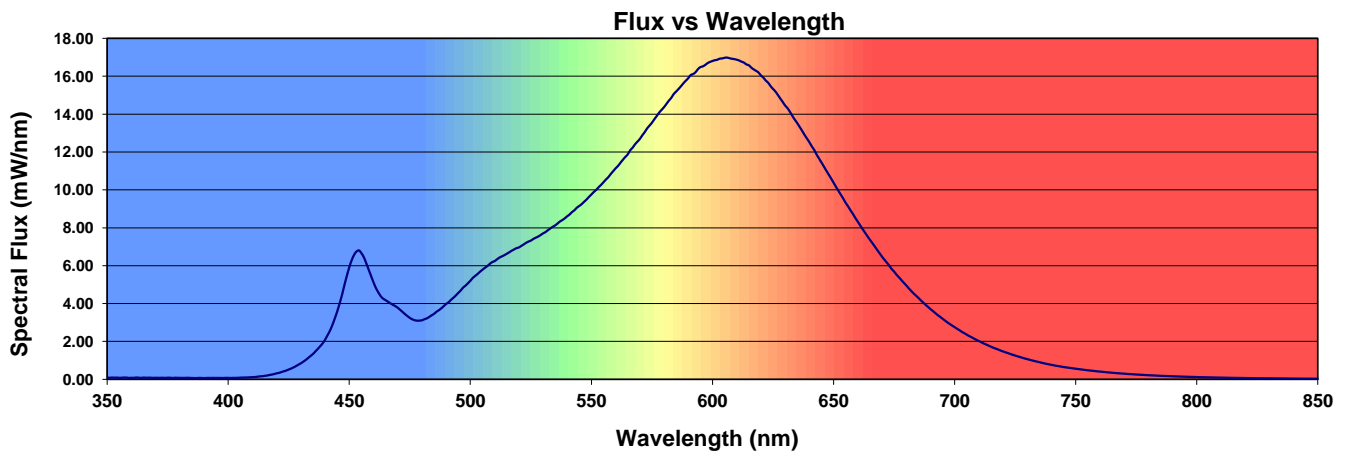
### Summary of Results

Total Output:	802 Lumens	Chromaticity (x):	0.4542
Efficacy:	40.2 lm/w	Chromaticity (y):	0.4147
CCT:	2810 K	Chromaticity (u'):	0.2571
CRI (Ra):	82.2	Chromaticity (v'):	0.5281
CRI (R9):	6.5	TM-30 Rf:	85
Peak Wavelength:	606 nm	TM-30 Rg:	93
Dominant Wavelength:	583 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.26	Duv:	0.0020
M/P Ratio:	0.47	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
82.2	80.4	91.4	95.6	79.4	80.6	90.4	82.1	57.5	6.5	81.0	78.5	72.9	82.9	98.2	72.3





## In-Situ Test

### In-Situ Test Conditions

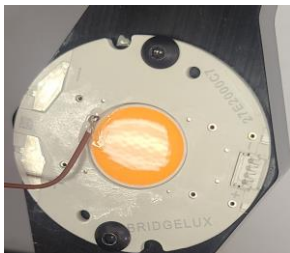
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	N/A	N/A	N/A	60 Hz	N/A

### Summary of Results

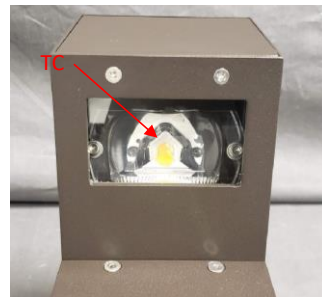
LED Temperature: 76.4 °C  
Driver Temperature: 56.3 °C  
Measured LED Current: 0.5059 A

Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

### LED Temperature Location



### Thermocouple Reference



### Driver Temperature Location



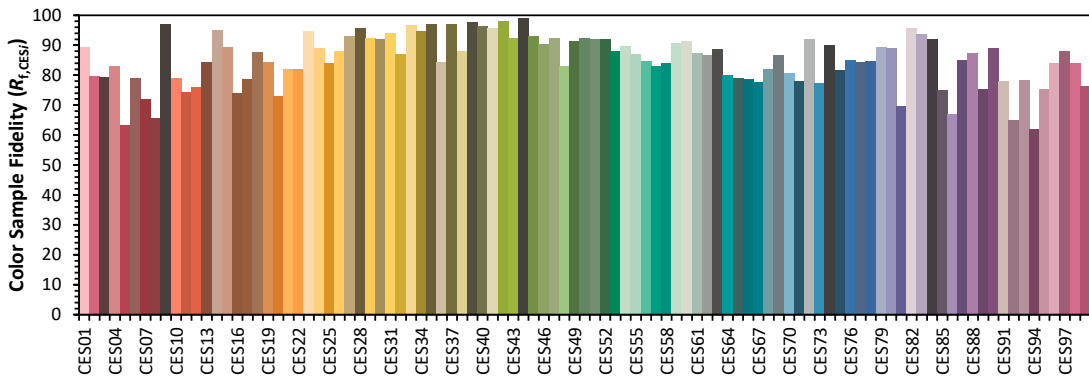
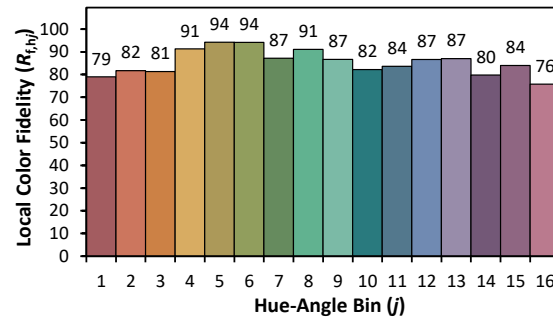
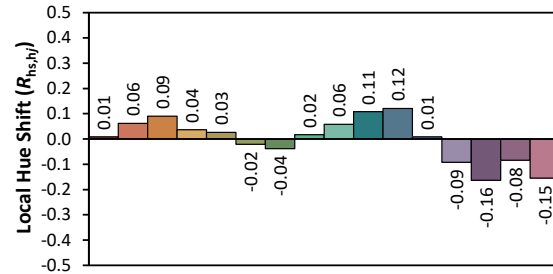
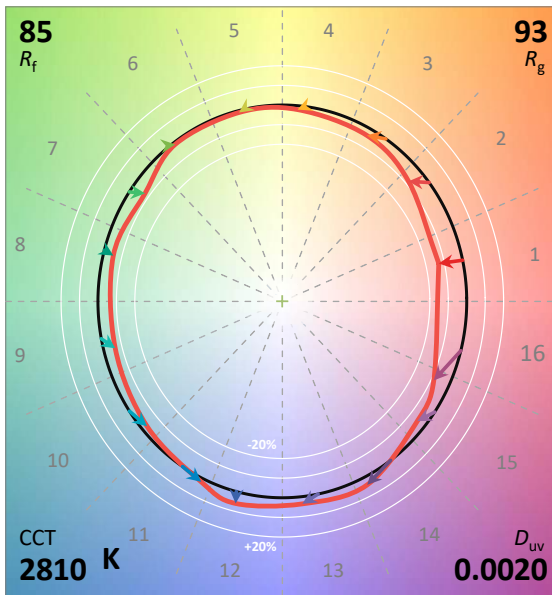
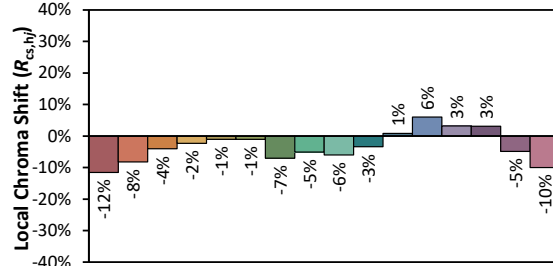
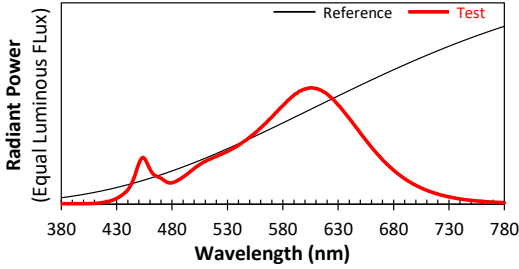
# ANSI/IES TM-30-18 Color Rendition Report

Date: 2021-06-16

Manufacturer: B-K Lighting INC

Model:

UO-LED-2700K-WW-2-42-WHP-INC-MT



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

x 0.4542  
y 0.4147  
u' 0.2571  
v' 0.5281

CIE 13.3-1995  
(CRI)  
R<sub>a</sub> 82  
R<sub>9</sub> 7

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