



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**  
**RI-LED-TR-E130-NSP-WHP-9-C-INC-MT-PROTO-(2700K)**

Order Number  
13742921  
Test Number  
13742921.01

Test Date

2021-03-31

Prepared By

Khang Nguyen, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White formed metal housing and clear glass lens  
**Lamp:** One (1) White LED with optic attached  
**Mounting:** Pole/Arm  
**Ballast/Driver:** One (1) PowerSelect PS60U100C14R

**Luminaire**



**Summary of Results**

Radiant Flux:	2504 mW
Luminous Flux:	819 lm
Luminaire Efficacy:	60.1 lm/W
CCT:	2872 K
CRI (Ra):	80.6
Chromaticity (x):	0.4473
Chromaticity (y):	0.4093
Chromaticity (u):	0.2550
Chromaticity (v):	0.3500
Duv:	0.0003

**Test Conditions**

Test Temperature:	25.4 °C
Voltage:	120.1 VAC
Current:	0.1154 A
Power:	13.62 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	12.4 %

Testing was performed in a 2-meter integrating sphere using the 4 $\pi$  geometry method.  
Absorption correction was employed for this measurement.



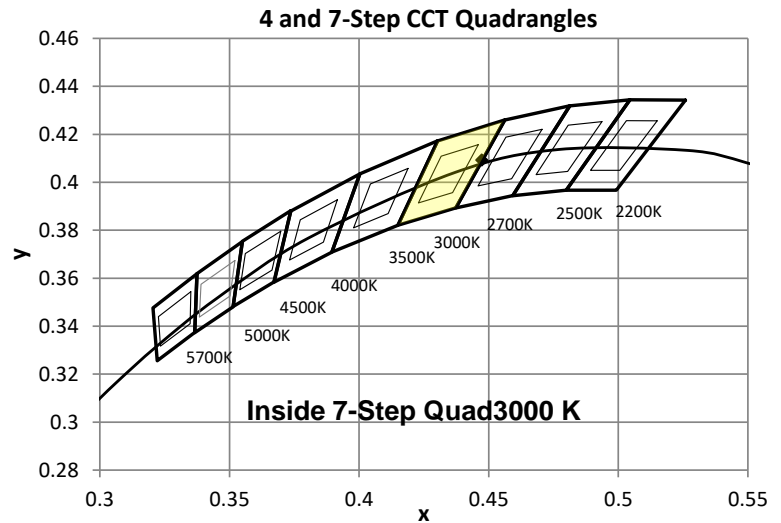
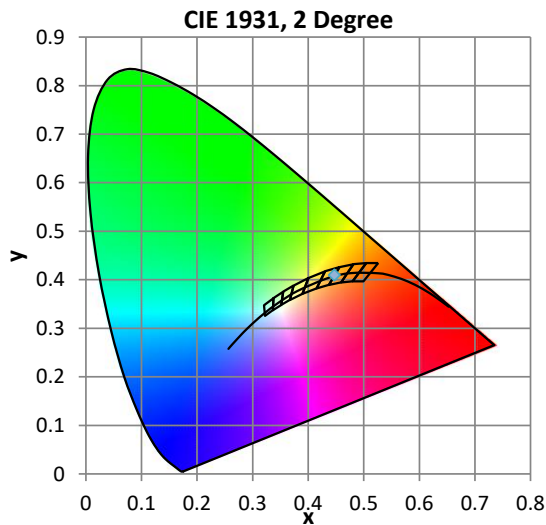
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.1 VAC	0.1154 A	13.62 W	0.983	60 Hz	12.4 %

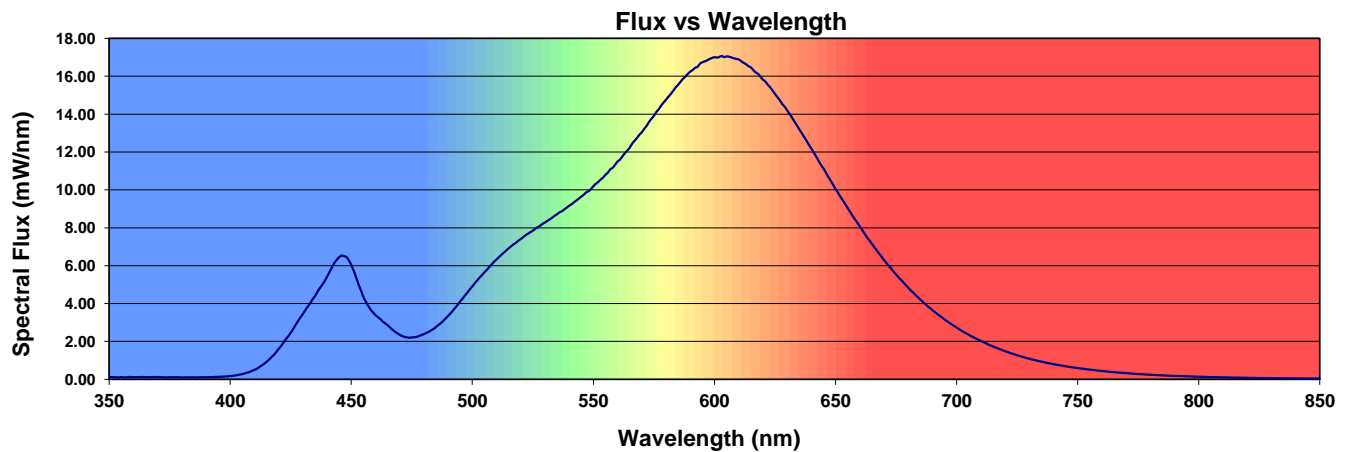
### Summary of Results

Total Output:	819 Lumens	Chromaticity (x):	0.4473
Efficacy:	60.1 lm/w	Chromaticity (y):	0.4093
CCT:	2872 K	Chromaticity (u'):	0.2550
CRI (Ra):	80.6	Chromaticity (v'):	0.5250
CRI (R9):	0.7	TM-30 Rf:	82
Peak Wavelength:	604 nm	TM-30 Rg:	97
Dominant Wavelength:	583 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.24	Duv:	0.0008
M/P Ratio:	0.45	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
80.6	78.3	88.0	96.7	79.4	78.4	85.5	82.5	56.5	0.7	73.2	78.5	71.2	80.2	98.2	70.5



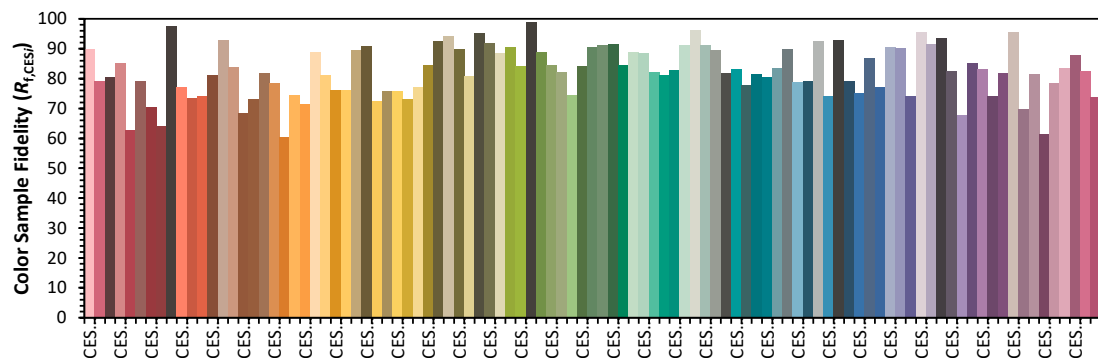
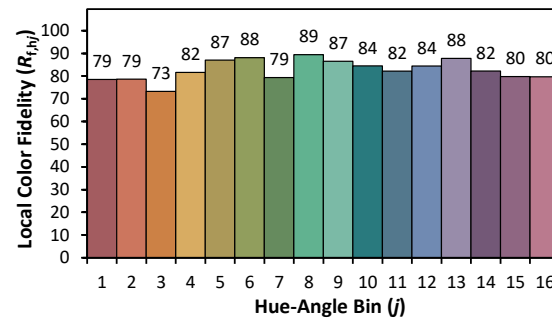
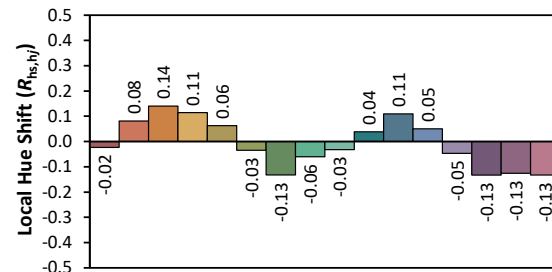
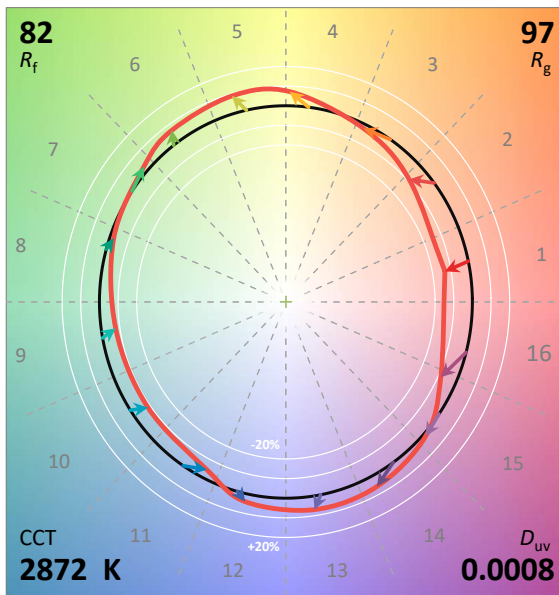
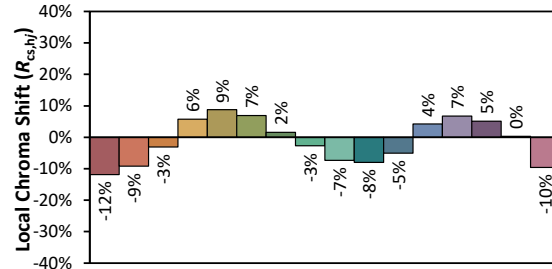
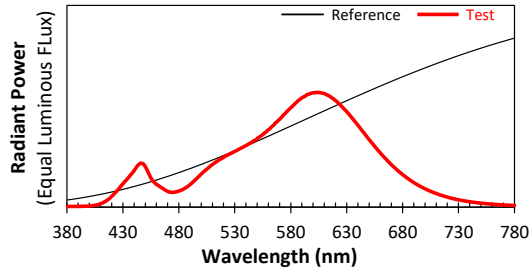
## ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13742921.01

Manufacturer: B-K Lighting INC

Date: 2021-03-31

Model: RI-LED-TR-E130-NSP-WHP-9-C-INC-M



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

$x$  0.4473

$y$  0.4093

$u'$  0.2550

$v'$  0.5250

CIE 13.3-1995  
(CRI)

$R_a$  81

$R_g$  1

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