



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**  
**DE-LED-TR-X126-FL-9-C**

Order Number

13420816

Test Number

13420816.01A

Revision of Test # 13420816.01 on:

2020-07-31

Test Date

2020-07-20

Prepared By

William Escobar, Technician

Approved By

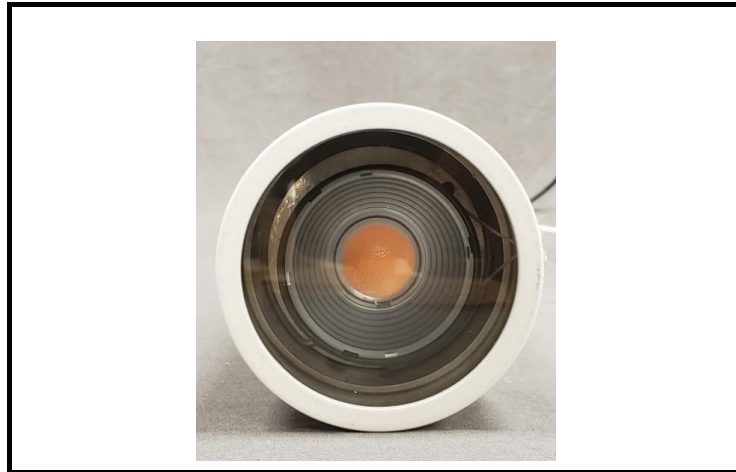
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White metal cylindrical housing and clear glass lens  
**Lamp:** One (1) White LED with optic below  
**Mounting:** Pendant  
**Ballast/Driver:** One (1) ERP EBR020U-0700-30

**Luminaire**



**Summary of Results**

Radiant Flux:	4554 mW
Luminous Flux:	1279 lm
Luminaire Efficacy:	59.6 lm/W
CCT:	2749 K
CRI (Ra):	90.7
Chromaticity (x):	0.4557
Chromaticity (y):	0.4095
Chromaticity (u):	0.2603
Chromaticity (v):	0.3509
Duv:	0.0003

**Test Conditions**

Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.1811 A
Power:	21.47 W
Power Factor:	0.987
Frequency:	60 Hz
Current THD:	14.9 %

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



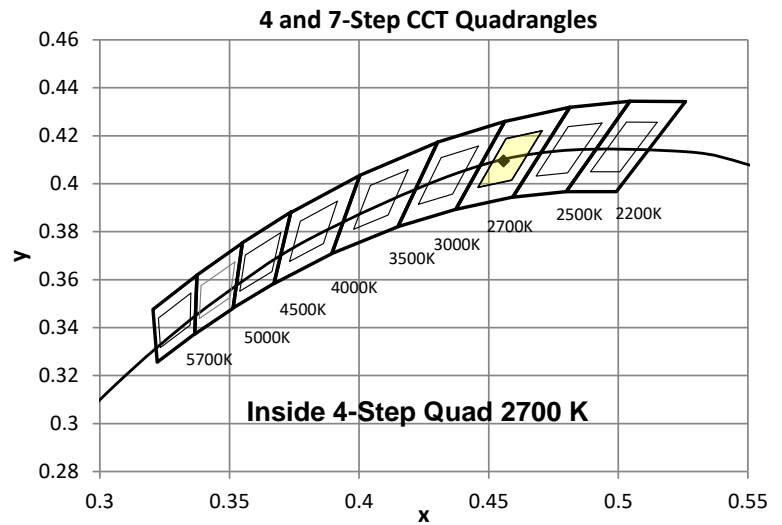
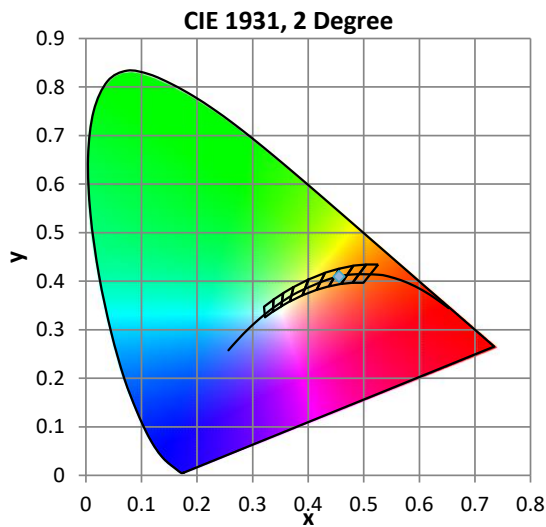
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1811 A	21.47 W	0.987	60 Hz	14.9 %

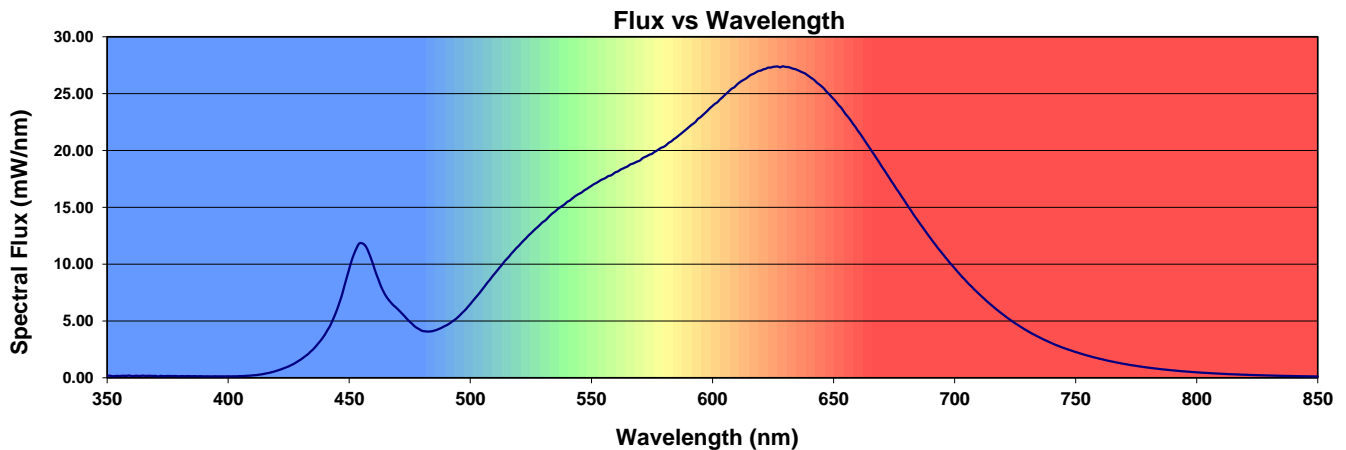
### Summary of Results

<b>Total Output:</b>	1279 Lumens	<b>Chromaticity (x):</b>	0.4557
<b>Efficacy:</b>	59.6 lm/w	<b>Chromaticity (y):</b>	0.4095
<b>CCT:</b>	2749 K	<b>Chromaticity (u'):</b>	0.2603
<b>CRI (Ra):</b>	90.7	<b>Chromaticity (v'):</b>	0.5263
<b>CRI (R9):</b>	61.4	<b>TM-30 Rf:</b>	90
<b>Peak Wavelength:</b>	628 nm	<b>TM-30 Rg:</b>	100
<b>Dominant Wavelength:</b>	584 nm	<b>TM-30 Rcs,h1:</b>	-5%
<b>S/P Ratio:</b>	1.25	<b>Duv:</b>	0.0000



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90.7	91.3	93.8	93.3	90.6	89.5	90.8	93.3	83.3	61.4	82.8	89.0	73.1	91.7	95.0	89.0



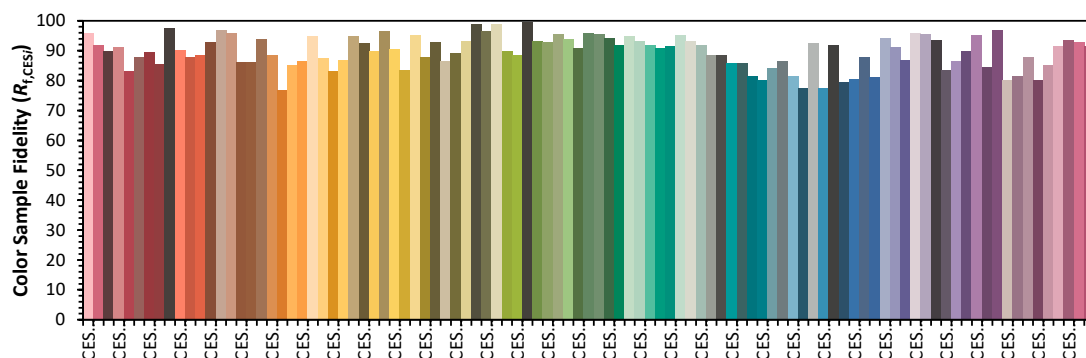
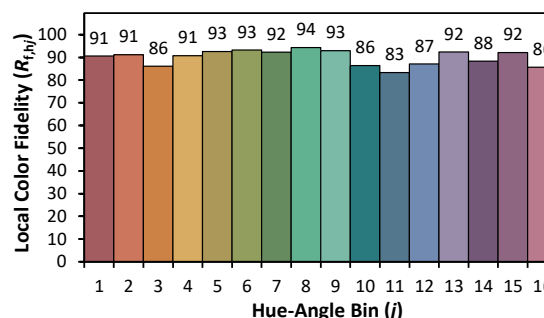
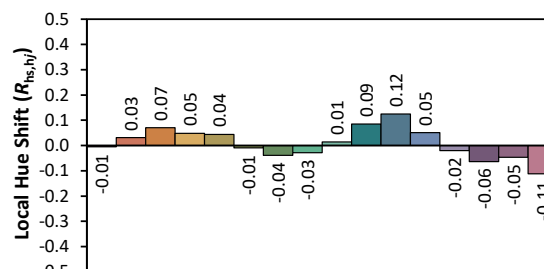
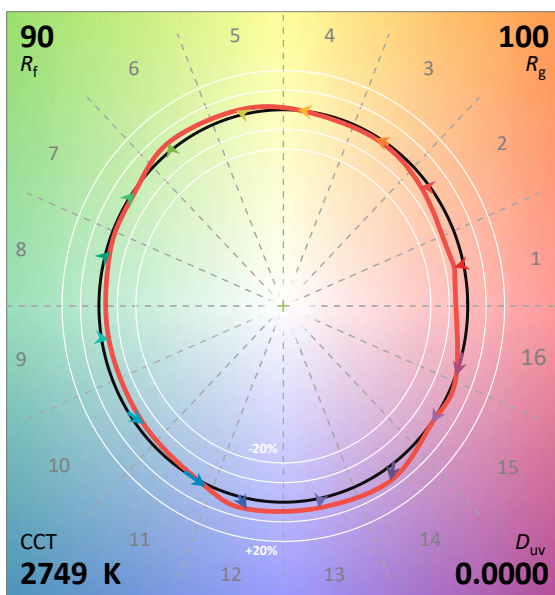
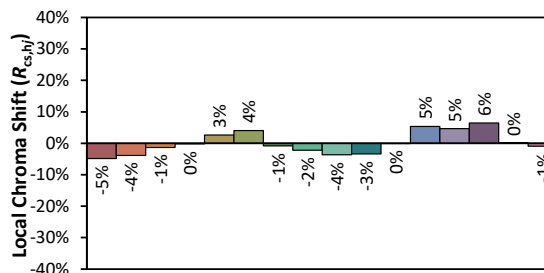
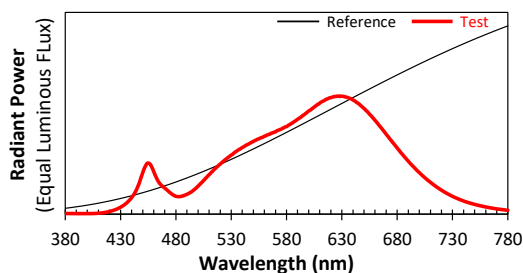
# ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13420816.01A

Manufacturer: B-K Lighting INC

Date: 2020-07-20

Model: DE-LED-TR-X126-FL-9-C



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

x 0.4557

y 0.4095

u' 0.2603

v' 0.5263

CIE 13.3-1995  
(CRI)

R<sub>a</sub> 91

R<sub>g</sub> 61

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



## Attachment A

## Amended Report Documentation

[illegible]