



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**

**DI-LED-TR-e150-7°-VNSP-WHP-C-INC-MT**

Order Number  
14327079  
Test Number  
14327079.14

Test Date

2022-12-15

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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This report must not be used by the client to claim product certification, approval, or endorsement by  
NVLAP, NIST, or any agency of the Federal Government.

**Luminaire Description:** Circular white metal housing with glass lens  
**Lamp:** One (1) LED  
**Mounting:** Pendant  
**Ballast/Driver:** Integrated

**Luminaire**



**Summary of Results**

Radiant Flux:	1243 mW
Luminous Flux:	407.2 lm
Luminaire Efficacy:	43.9 lm/W
CCT:	2861 K
CRI (Ra):	80.7
Chromaticity (x):	0.4497
Chromaticity (y):	0.4124
Chromaticity (u):	0.2551
Chromaticity (v):	0.3510
Duv:	0.0011

**Test Conditions**

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.07912 A
Power:	9.275 W
Power Factor:	0.977
Frequency:	60 Hz
Current THD:	16.6 %

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

## Color Quality - Integrating Sphere

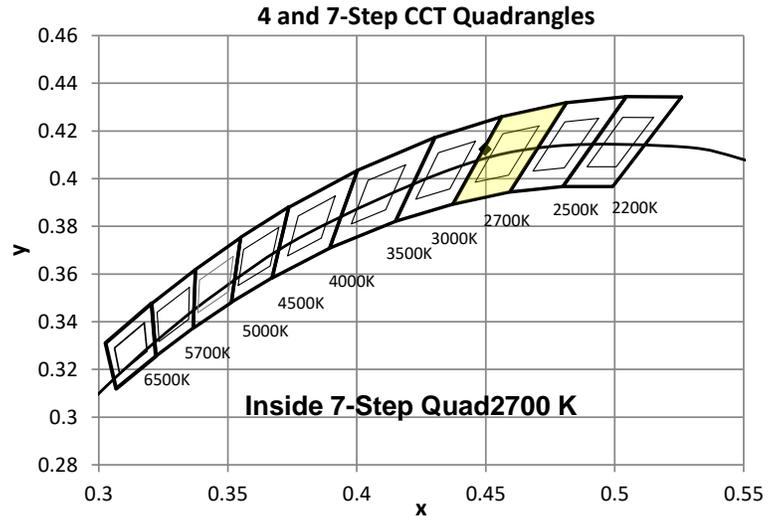
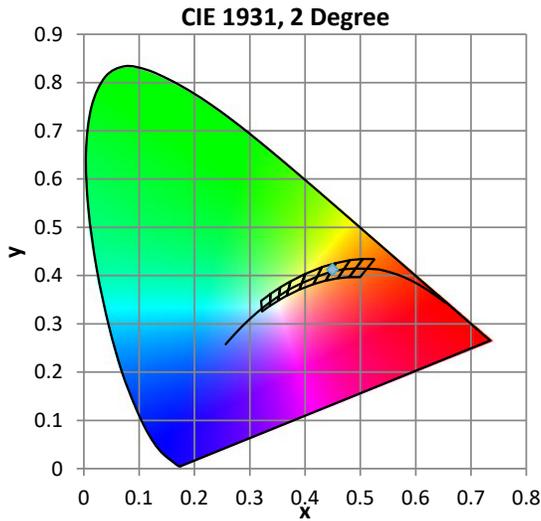
### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.07912 A	9.275 W	0.977	60 Hz	16.6 %

### Summary of Results

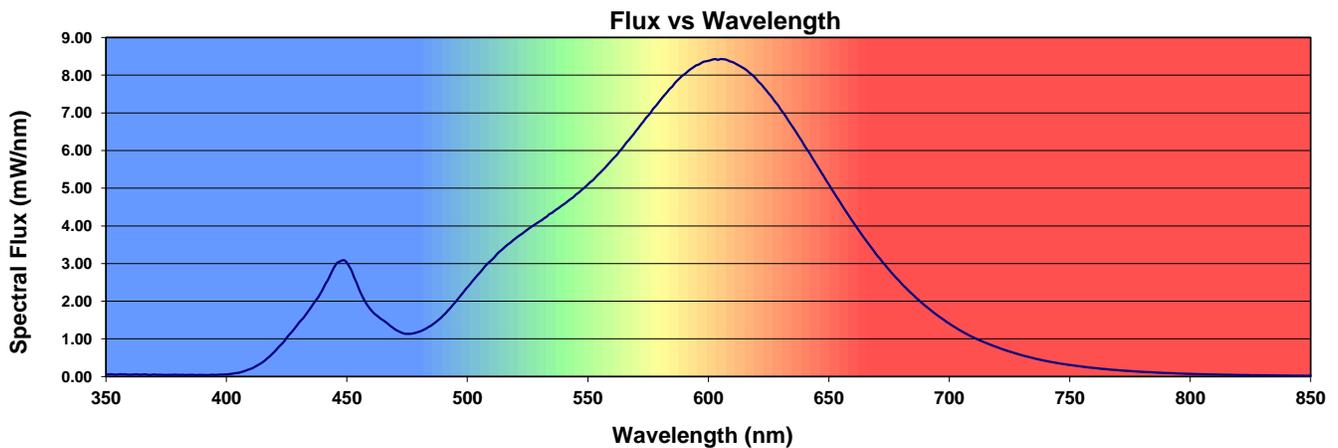
<b>Total Output:</b>	407 Lumens	<b>Chromaticity (x):</b>	0.4497
<b>Efficacy:</b>	43.9 lm/w	<b>Chromaticity (y):</b>	0.4124
<b>CCT:</b>	2861 K	<b>Chromaticity (u'):</b>	0.2551
<b>CRI (Ra):</b>	80.7	<b>Chromaticity (v'):</b>	0.5265
<b>CRI (R9):</b>	1.9	<b>TM-30 Rf:</b>	83
<b>Peak Wavelength:</b>	605 nm	<b>TM-30 Rg:</b>	97
<b>Dominant Wavelength:</b>	583 nm	<b>TM-30 Rcs,h1:</b>	-12%
<b>S/P Ratio:</b>	1.23	<b>Duv:</b>	0.0017
<b>M/P Ratio:</b>	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
80.7	78.2	87.9	96.7	79.2	78.1	85.1	83.1	57.1	1.9	72.7	77.9	69.5	80.0	98.1	70.7



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

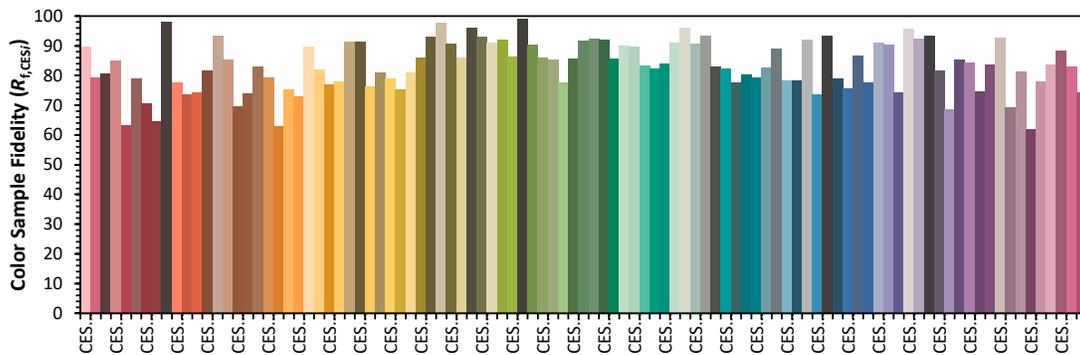
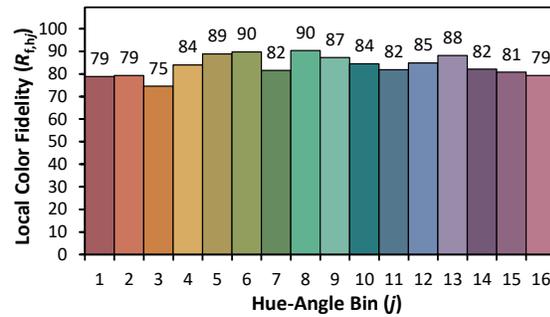
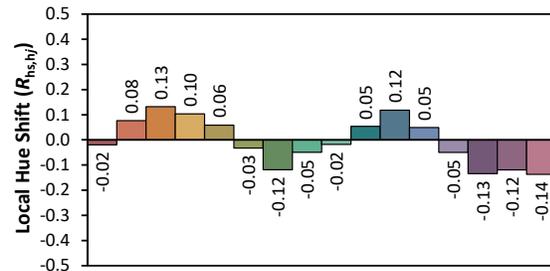
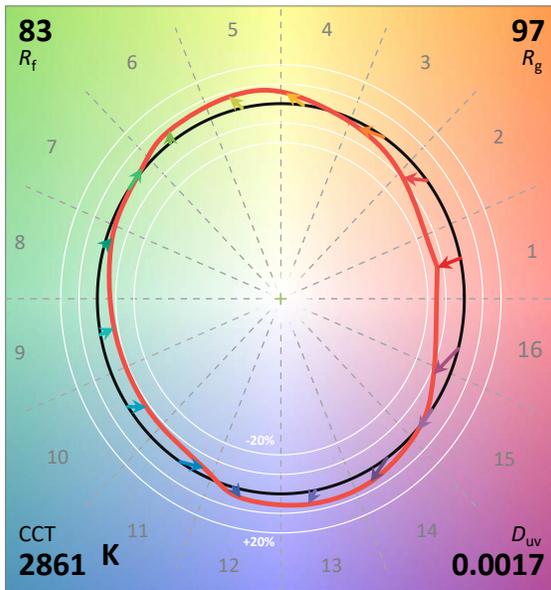
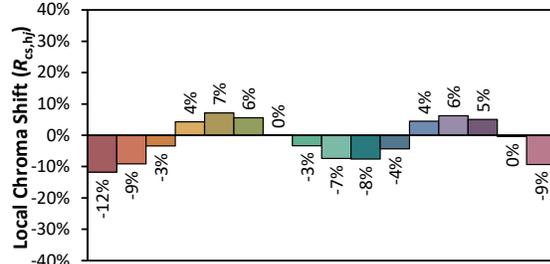
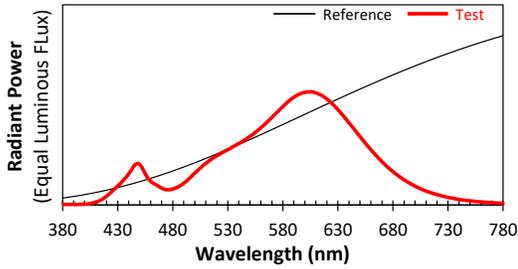
Date: 2022-12-15

Manufacturer:

B-K Lighting INC

Model:

DI-LED-TR-e150-7°-VNSP-WHP-C-INC-MT



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

x 0.4497  
y 0.4124  
u' 0.2551  
v' 0.5265

CIE 13.3-1995 (CRI)	
R <sub>a</sub>	81
R <sub>9</sub>	2

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