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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

DI-LED-TR-e154-41°-WFL-WHP-C-INC-MT

Order Number
14327079
Test Number
14327079.24

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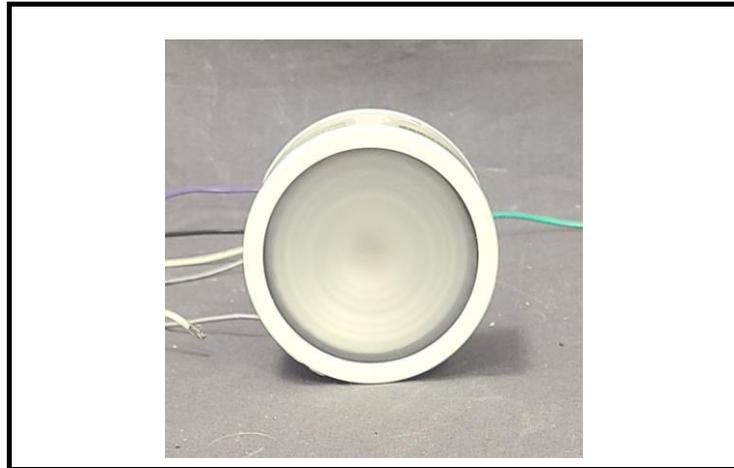
Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.

Absorption correction was employed for Sphere measurement

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

Luminaire



Summary of Results

Integrating Sphere

Luminous Flux: 369.9 Lumens
 Efficacy: 39.88 lm/w
 CCT: 2844 K
 CRI (Ra): 80.6

Electrical Data at 120 VAC

Test Temperature: 25.0 °C
 Voltage: 120.0 VAC
 Current: 0.07911 A
 Power: 9.275 W
 Power Factor: 0.977
 Frequency: 60 Hz
 Current THD: 16.6 %

In-Situ

LED Temperature: 47.4 °C
 Measured LED Current: 0.6300 A

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

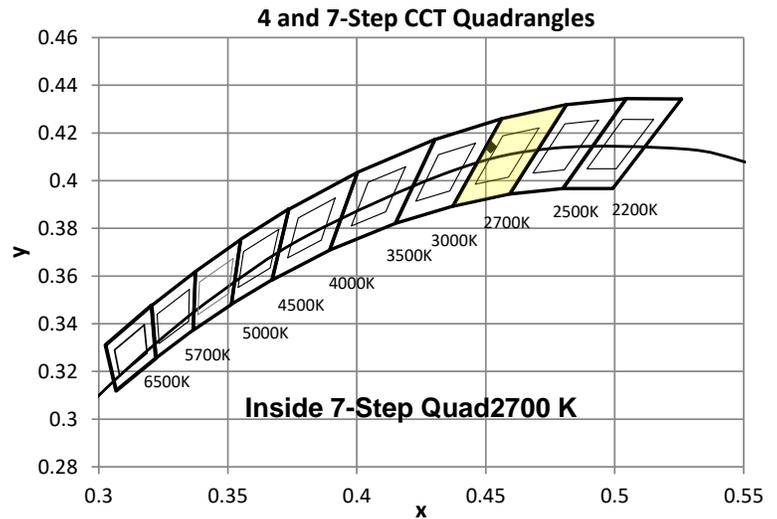
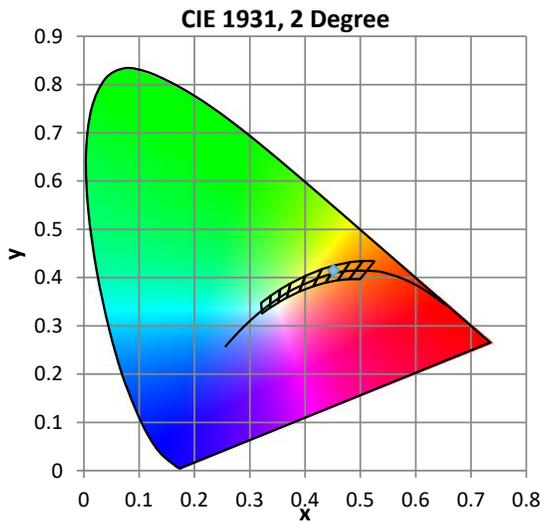
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.07911 A	9.275 W	0.977	60 Hz	16.6 %

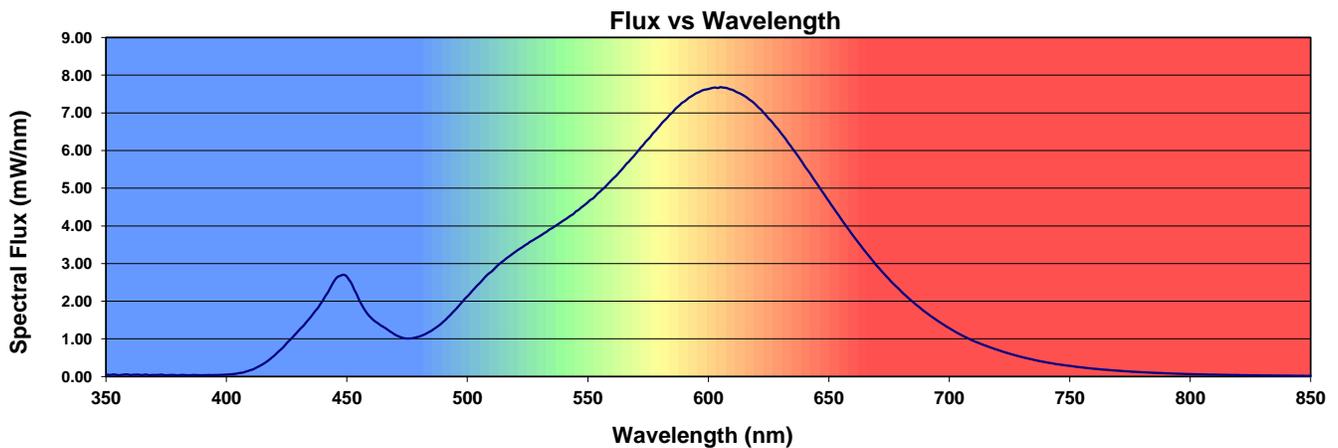
Summary of Results

Total Output:	370 Lumens	Chromaticity (x):	0.4518
Efficacy:	39.9 lm/w	Chromaticity (y):	0.4142
CCT:	2844 K	Chromaticity (u'):	0.2557
CRI (Ra):	80.6	Chromaticity (v'):	0.5275
CRI (R9):	1.4	TM-30 Rf:	83
Peak Wavelength:	605 nm	TM-30 Rg:	96
Dominant Wavelength:	583 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.22	Duv:	0.0022
M/P Ratio:	0.44	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	78.0	87.7	96.8	79.1	77.8	84.9	83.1	56.9	1.4	72.4	77.7	68.9	79.8	98.1	70.2



In-Situ Test

In-Situ Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
21.0 °C	120.0 VAC	N/A	N/A	N/A	60 Hz	N/A

Summary of Results

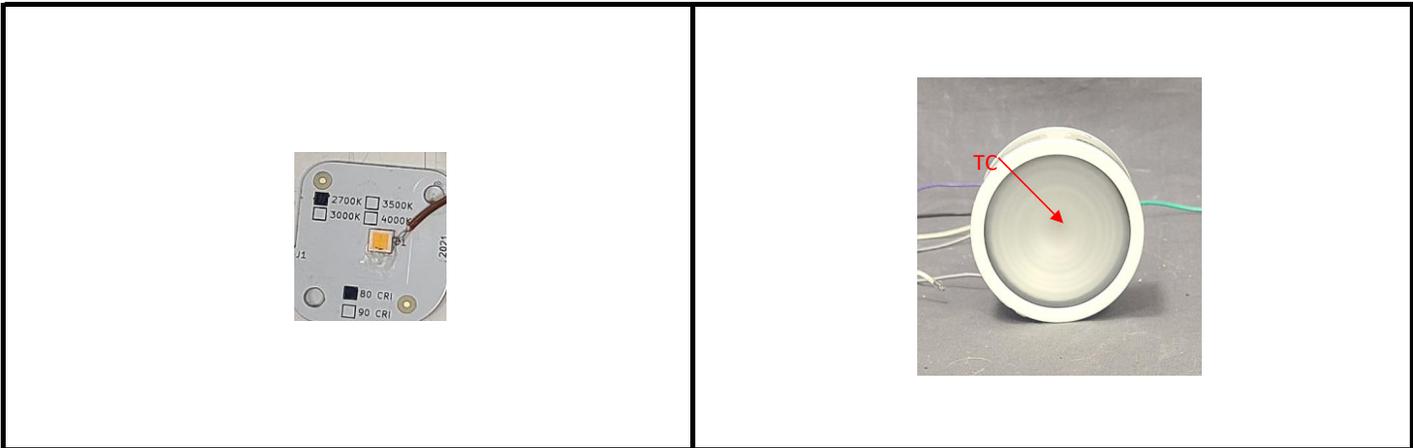
LED Temperature: 47.4 °C

Measured LED Current: 0.6300 A

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

LED Temperature Location

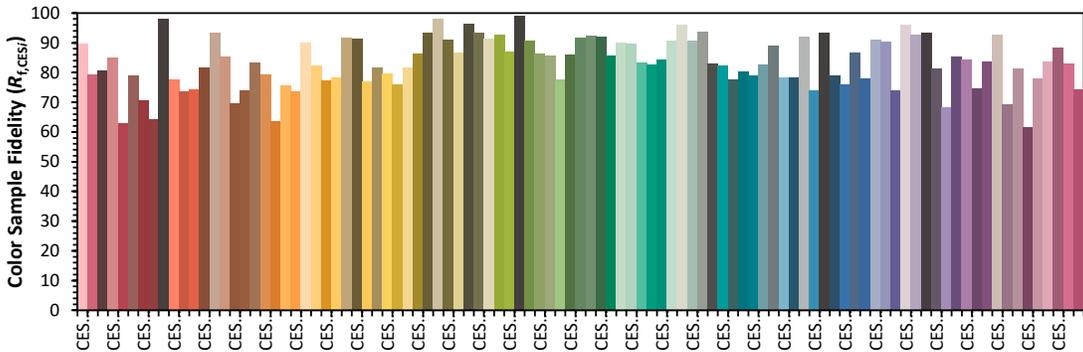
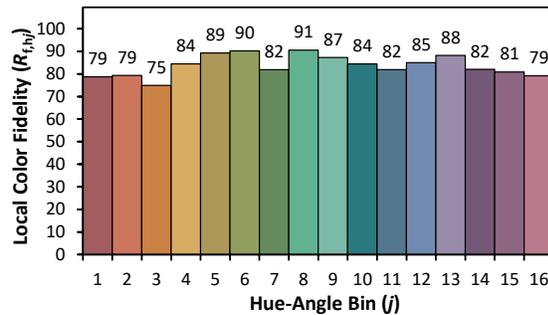
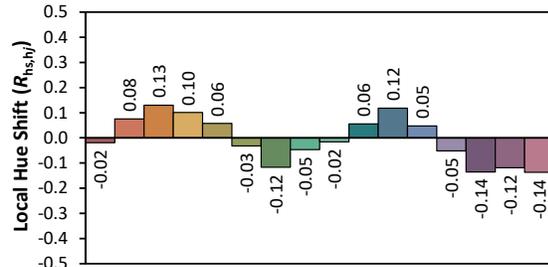
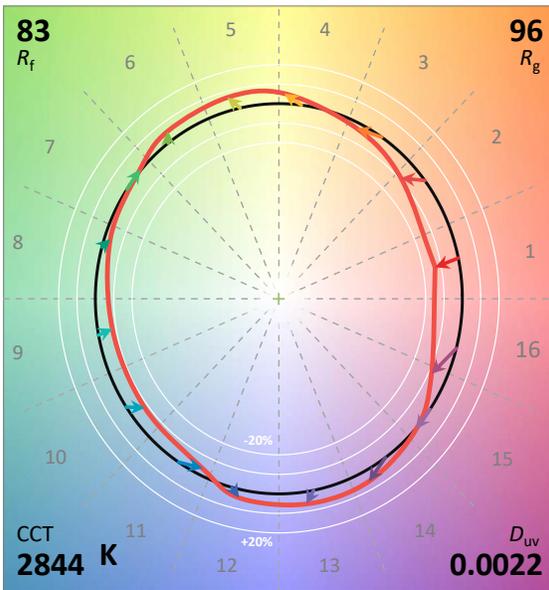
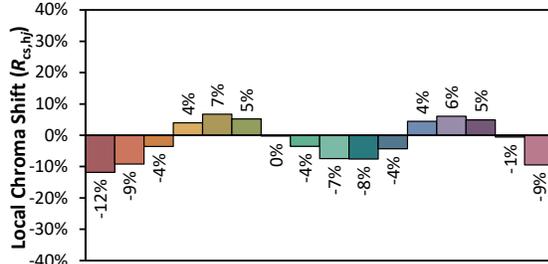
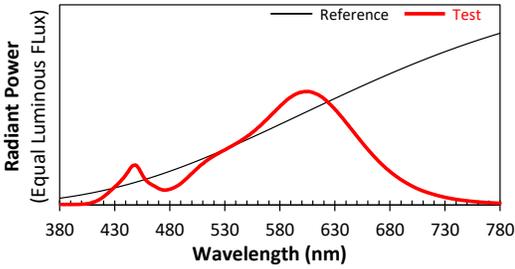
Thermocouple Reference



ANSI/IES TM-30-18 Color Rendition Report

Date: 202212-14 **Manufacturer:** B-K Lighting INC

Model: DI-LED-TR-e154-41°-WFL-WHP-C-INC-MT



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

x 0.4518
 y 0.4142
 u' 0.2557
 v' 0.5275

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.