



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-e151-7°-VNSP-WHP-C-INC-MT

Order Number
14327079
Test Number
14327079.15

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

Luminaire



Summary of Results

Radiant Flux:	1375 mW
Luminous Flux:	446.7 lm
Luminaire Efficacy:	47.0 lm/W
CCT:	3176 K
CRI (Ra):	81.9
Chromaticity (x):	0.4235
Chromaticity (y):	0.3967
Chromaticity (u):	0.2450
Chromaticity (v):	0.3443
Duv:	-0.0012

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.08112 A
Power:	9.502 W
Power Factor:	0.976
Frequency:	60 Hz
Current THD:	17.2 %

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

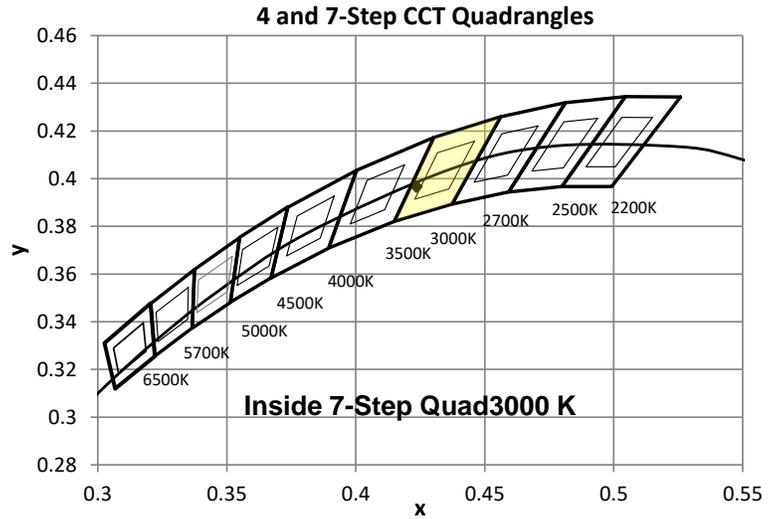
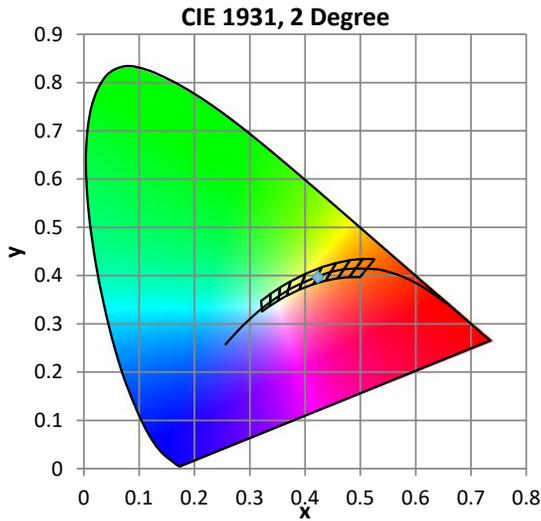
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.08112 A	9.502 W	0.976	60 Hz	17.2 %

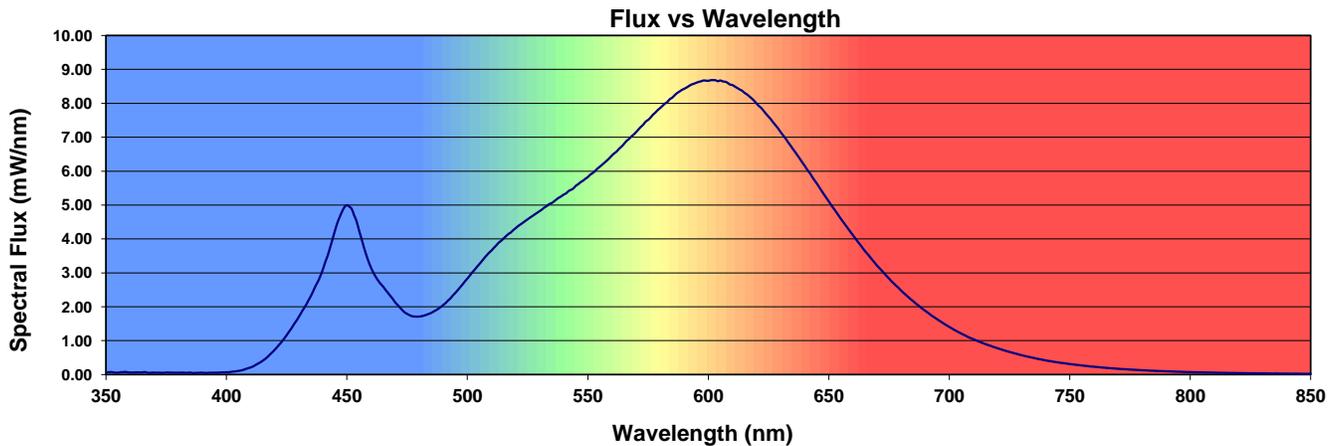
Summary of Results

Total Output:	447 Lumens	Chromaticity (x):	0.4235
Efficacy:	47.0 lm/w	Chromaticity (y):	0.3967
CCT:	3176 K	Chromaticity (u'):	0.2450
CRI (Ra):	81.9	Chromaticity (v'):	0.5165
CRI (R9):	7.5	TM-30 Rf:	84
Peak Wavelength:	602 nm	TM-30 Rg:	97
Dominant Wavelength:	583 nm	TM-30 Rcs,h1:	-11%
S/P Ratio:	1.39	Duv:	-0.0009
M/P Ratio:	0.53 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
81.9	80.1	89.0	95.8	80.2	80.0	85.7	83.8	60.7	7.5	74.3	78.7	69.6	82.0	97.7	73.8



ANSI/IES TM-30-18 Color Rendition Report

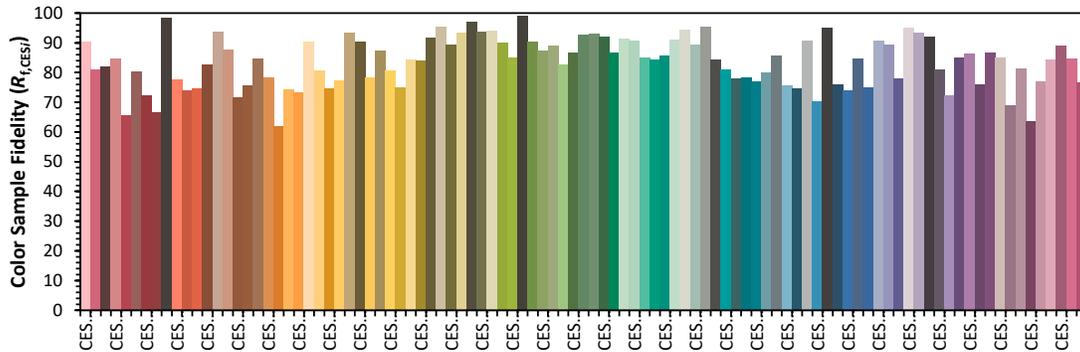
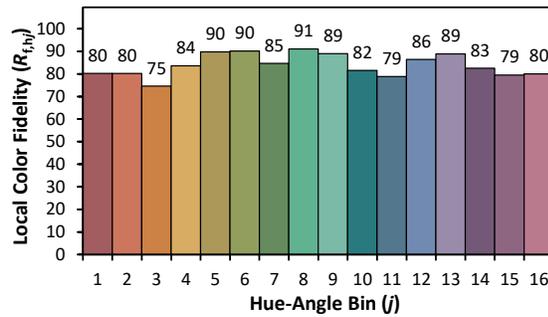
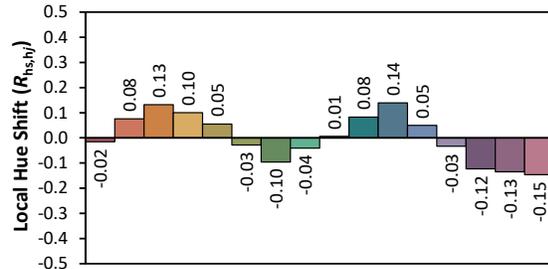
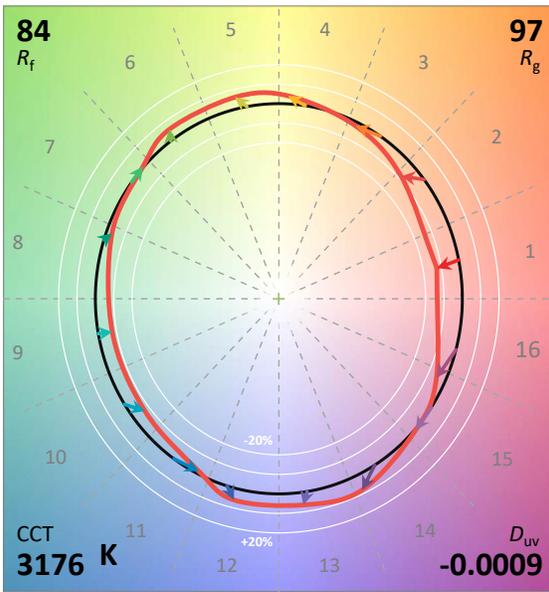
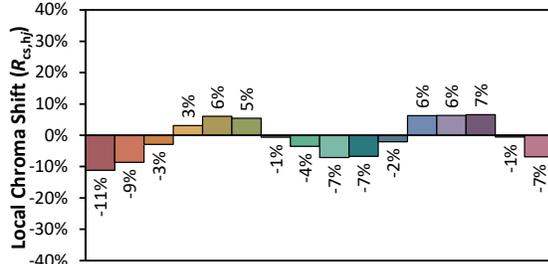
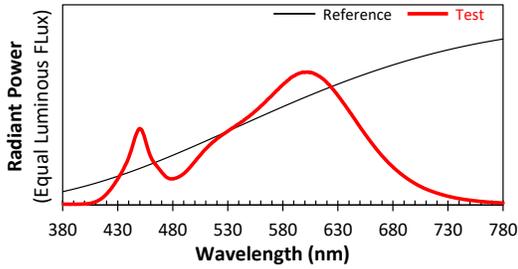
Date: 2022-12-15

Manufacturer:

B-K Lighting INC

Model:

DI-LED-TR-e151-7°-VNSP-WHP-C-INC-MT



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

x 0.4235
y 0.3967
u' 0.2450
v' 0.5165

CIE 13.3-1995 (CRI)	
R_a	82
R_g	8

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