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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-E131-NSP-WHP-9-C-INC-MT-PROTO-(3000K)

Order Number
13742921
Test Number
13742921.02

Test Date

2021-04-01

Prepared By

Austin Duff, 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:	2468 mW
Luminous Flux:	811.3 lm
Luminaire Efficacy:	62.6 lm/W
CCT:	3215 K
CRI (Ra):	80.2
Chromaticity (x):	0.4228
Chromaticity (y):	0.3998
Chromaticity (u):	0.2433
Chromaticity (v):	0.3450
Duv:	0.0002

Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.1 VAC
Current:	0.1099 A
Power:	12.97 W
Power Factor:	0.982
Frequency:	60 Hz
Current THD:	12.3 %

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



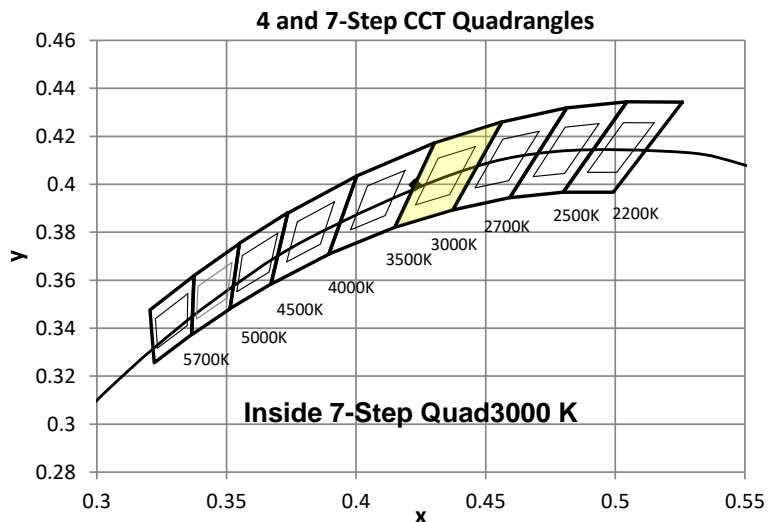
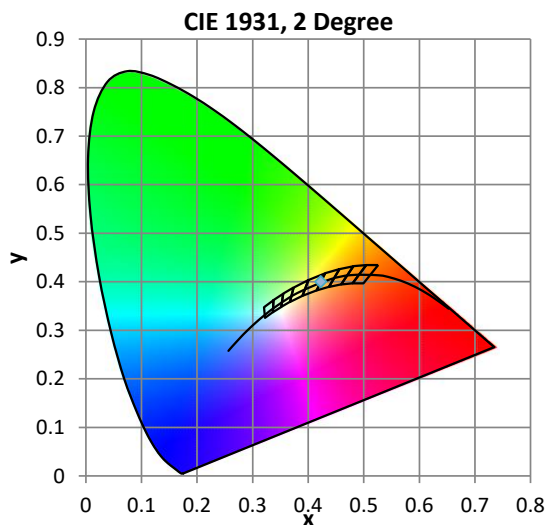
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.1 VAC	0.1099 A	12.97 W	0.982	60 Hz	12.3 %

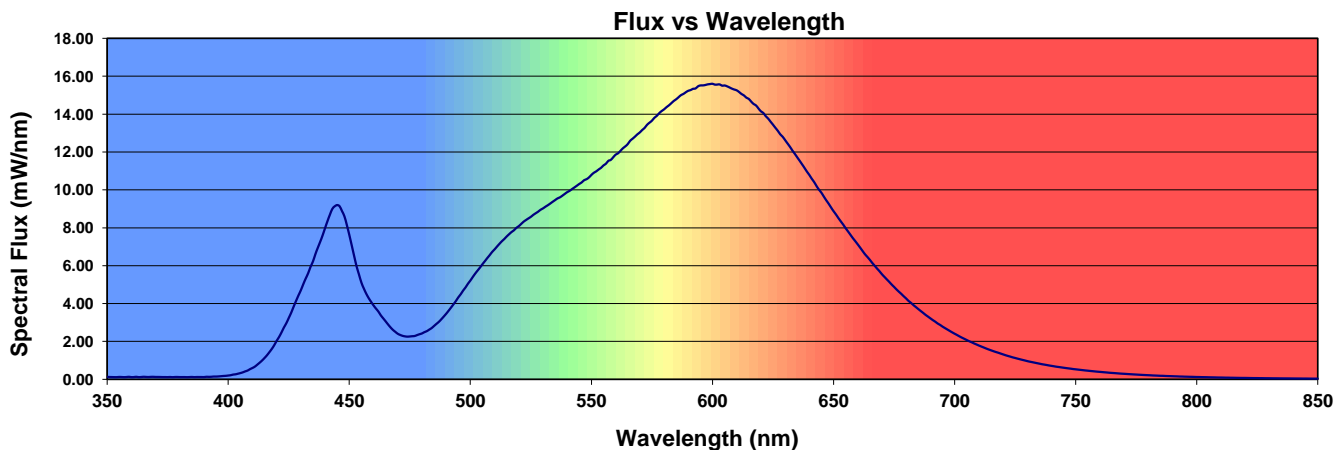
Summary of Results

Total Output:	811 Lumens	Chromaticity (x):	0.4228
Efficacy:	62.6 lm/w	Chromaticity (y):	0.3998
CCT:	3215 K	Chromaticity (u'):	0.2433
CRI (Ra):	80.2	Chromaticity (v'):	0.5176
CRI (R9):	2.0	TM-30 Rf:	81
Peak Wavelength:	600 nm	TM-30 Rg:	99
Dominant Wavelength:	582 nm	TM-30 Rcs,h1:	-11%
S/P Ratio:	1.36	Duv:	0.0004
M/P Ratio:	0.51	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
80.2	78.2	86.1	93.6	80.0	78.2	82.2	83.7	59.6	2.0	68.3	79.0	66.5	79.5	96.1	71.0



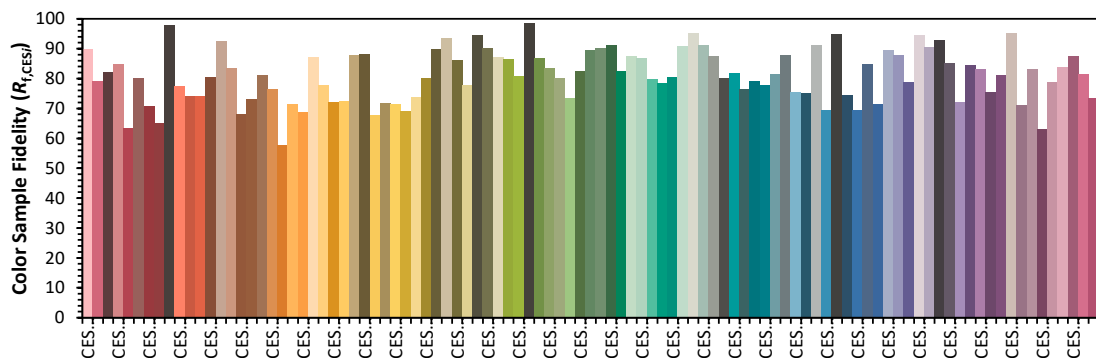
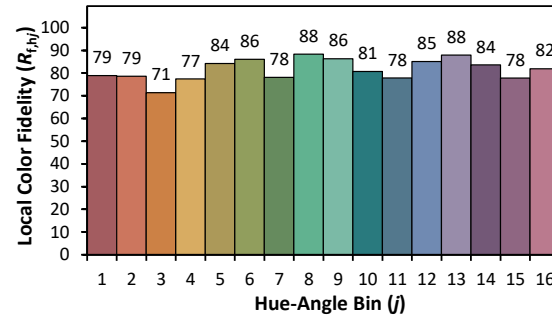
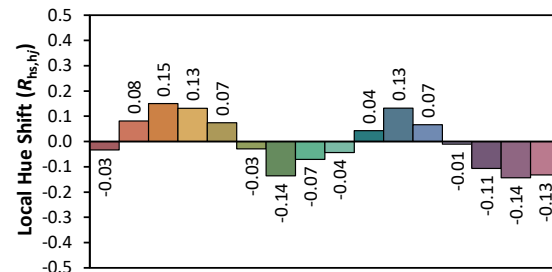
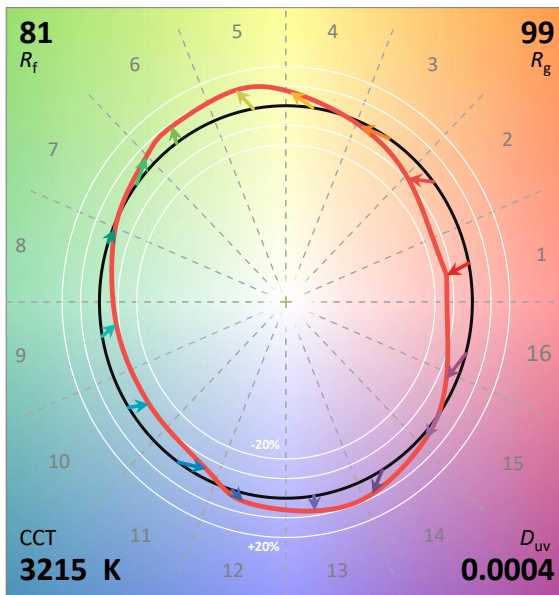
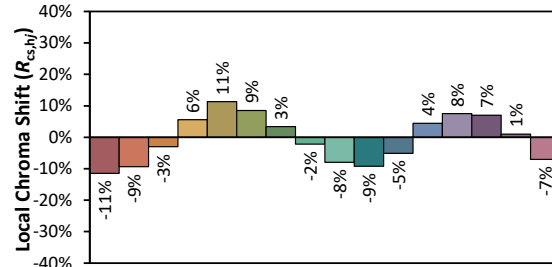
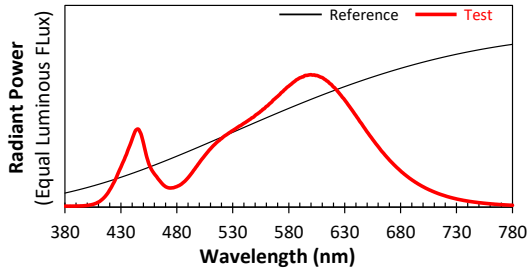
ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13742921.02

Manufacturer: B-K Lighting INC

Date: 2021-04-01

Model: RI-LED-TR-E131-NSP-WHP-9-C-INC-N



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

x 0.4228

y 0.3998

u' 0.2433

v' 0.5176

CIE 13.3-1995
(CRI)

R_a 80

R_g 2

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