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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-E133-NSP-WHP-9-C-INC-MT-PROTO-(4000K)

Order Number

13742921

Test Number

13742921.13

Test Date

2021-04-30

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 Description: One (1) White LED with optic attached
Ballast/Driver: One (1) PowerSelect PS60U100C14R
Mounting Style: Pole/Arm

Luminaire



Summary of Results

Radiant Flux:	2699 mW
Luminous Flux:	846.7 lm
Luminaire Efficacy:	60.1 lm/W
CCT:	4451 K
CRI (Ra):	81.9
Chromaticity (x):	0.3610
Chromaticity (y):	0.3569
Chromaticity (u):	0.2201
Chromaticity (v):	0.3264
Duv:	-0.0041

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.1193 A
Power:	14.09 W
Power Factor:	0.984
Frequency:	60 Hz
Current THD:	12.6 %

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



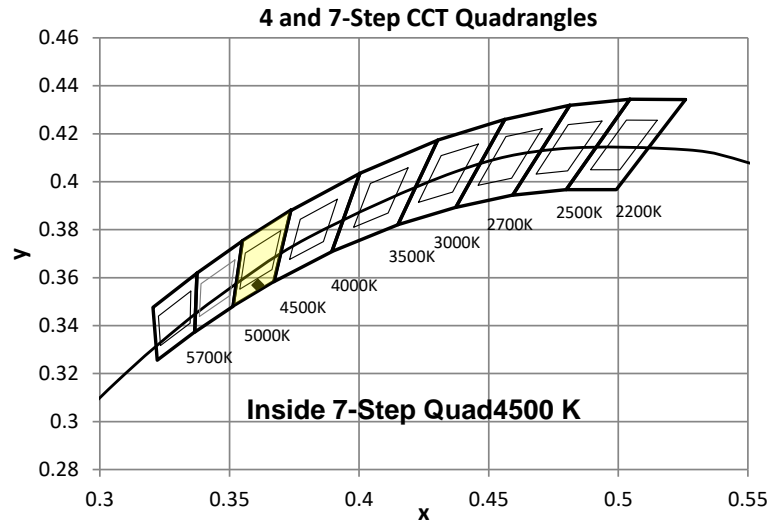
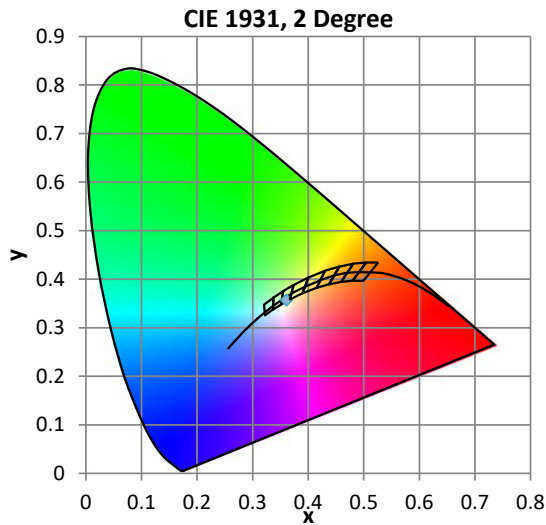
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1193 A	14.09 W	0.984	60 Hz	12.6 %

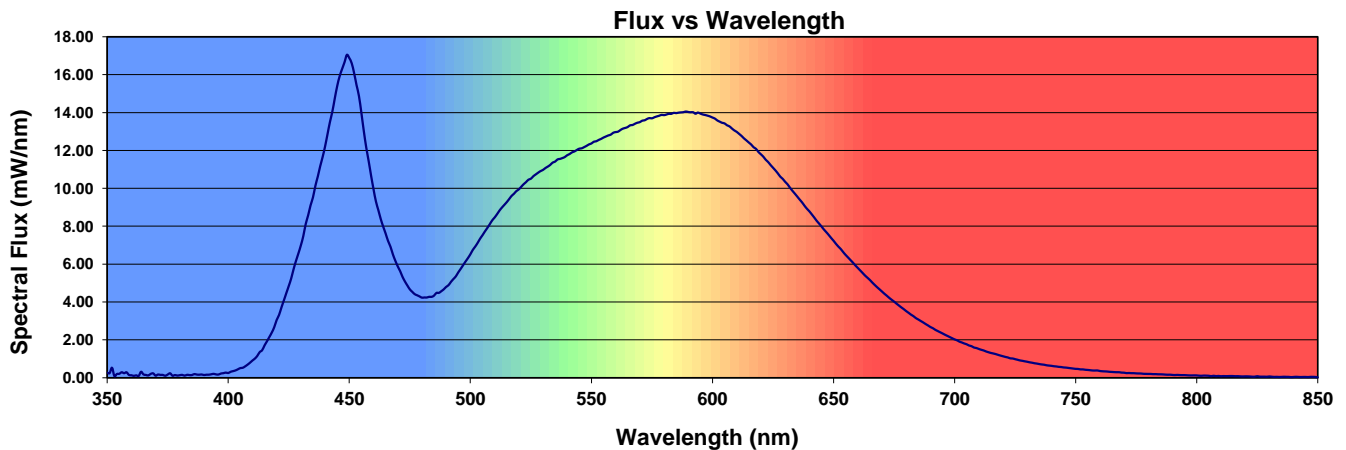
Summary of Results

Total Output:	847 Lumens	Chromaticity (x):	0.3610
Efficacy:	60.1 lm/w	Chromaticity (y):	0.3569
CCT:	4451 K	Chromaticity (u'):	0.2201
CRI (Ra):	81.9	Chromaticity (v'):	0.4896
CRI (R9):	12.9	TM-30 Rf:	81
Peak Wavelength:	449 nm	TM-30 Rg:	99
Dominant Wavelength:	580 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.76	Duv:	-0.0034



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.9	81.1	86.4	89.2	82.1	81.2	80.6	86.1	68.3	12.9	66.5	80.5	63.0	81.9	93.7	76.7



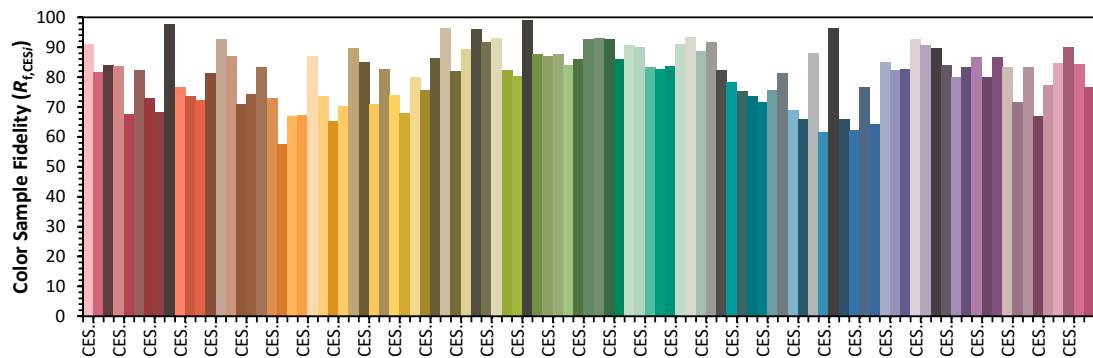
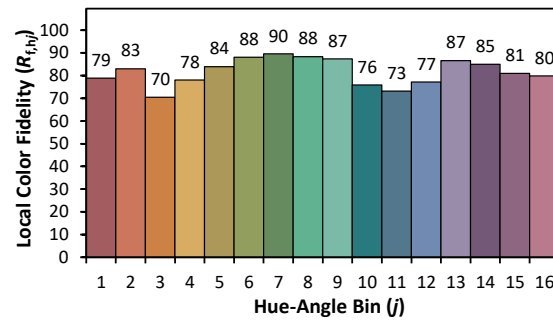
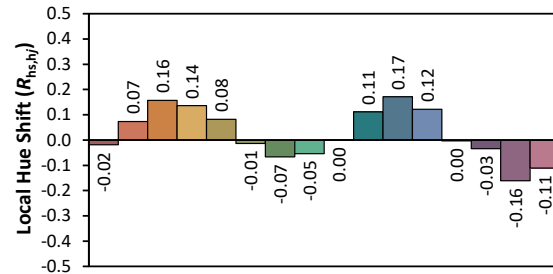
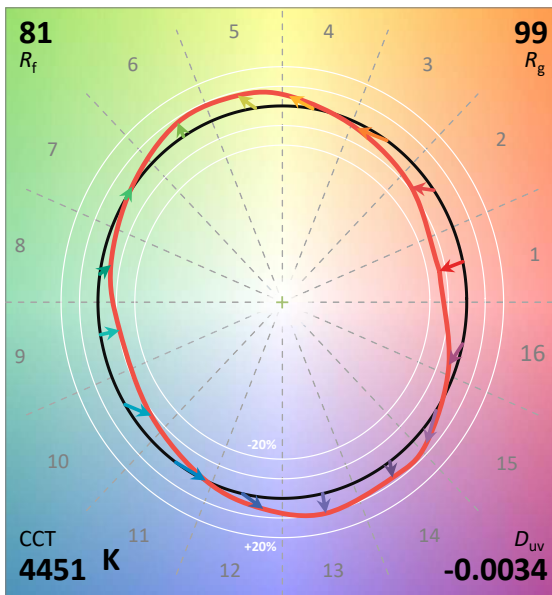
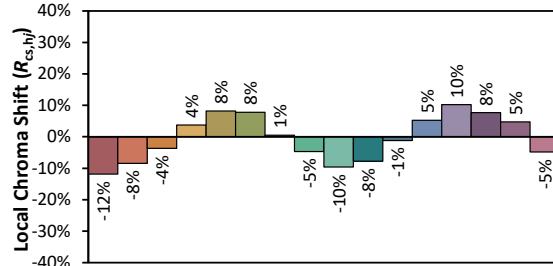
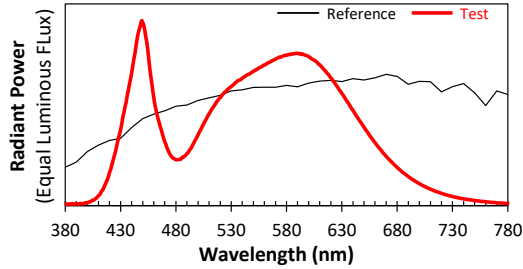
ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13742921.13

Manufacturer: B-K Lighting INC

Date: 2021-04-30

Model: RI-LED-TR-E132-NSP-WHP-9-C-INC-MT-PROTO-(4000K)



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

x 0.3610
y 0.3569
u' 0.2201
v' 0.4896

CIE 13.3-1995
(CRI)

R_a 82

R₉ 13

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