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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-E136-NSP-WHP-9-C-INC-MT-PROTO-(3500K)

Order Number
13742921
Test Number
13742921.03

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:	2609 mW
Luminous Flux:	783.4 lm
Luminaire Efficacy:	58.7 lm/W
CCT:	3783 K
CRI (Ra):	88.8
Chromaticity (x):	0.3914
Chromaticity (y):	0.3860
Chromaticity (u):	0.2286
Chromaticity (v):	0.3381
Duv:	0.0009

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.1 VAC
Current:	0.1131 A
Power:	13.35 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	12.4 %

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



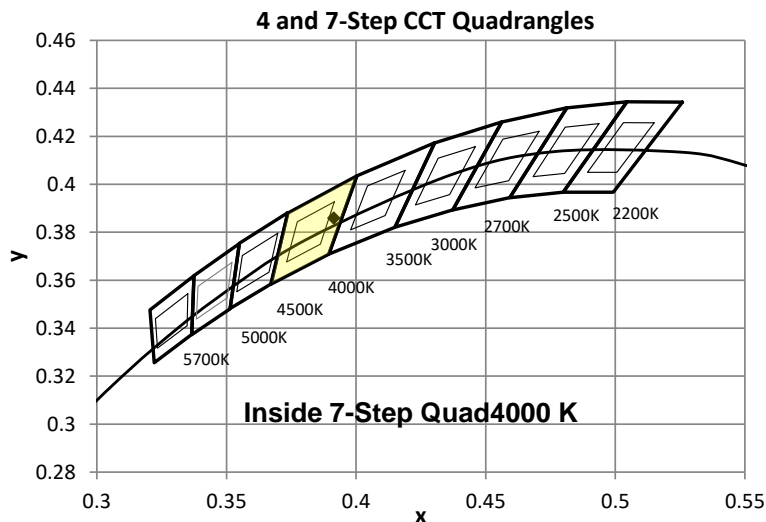
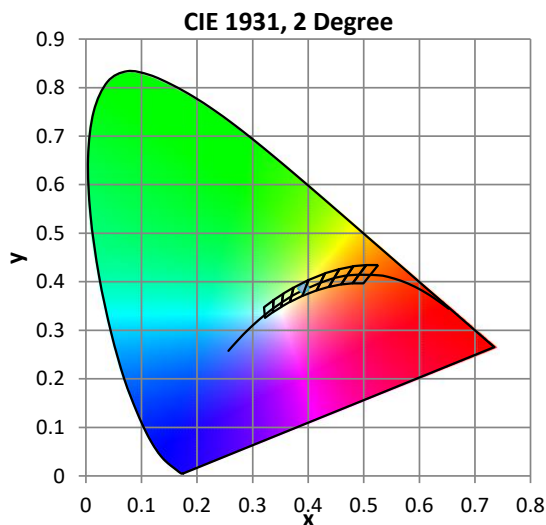
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.1131 A	13.35 W	0.983	60 Hz	12.4 %

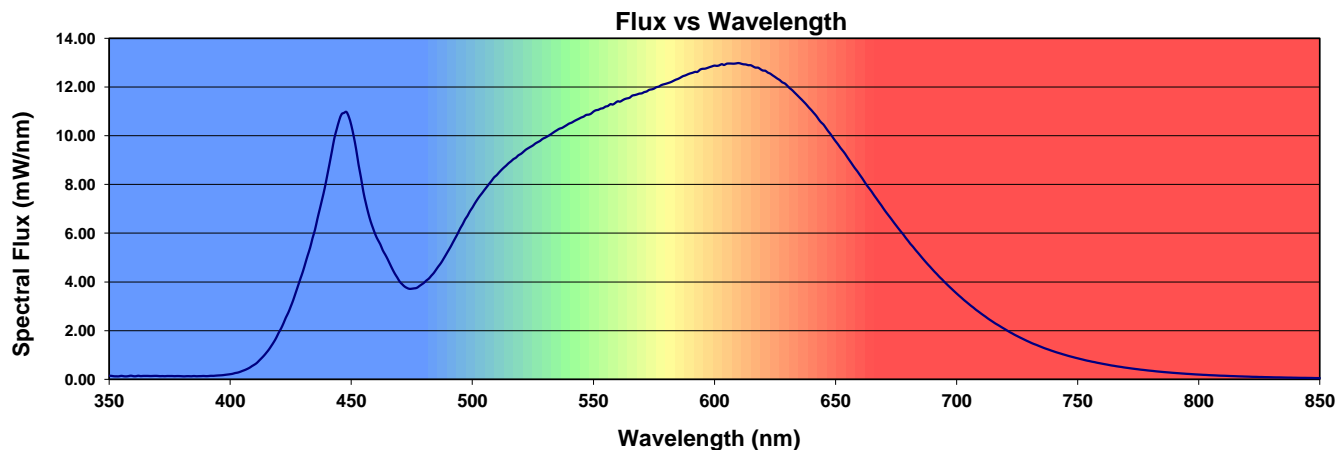
Summary of Results

Total Output:	783 Lumens	Chromaticity (x):	0.3914
Efficacy:	58.7 lm/w	Chromaticity (y):	0.3860
CCT:	3783 K	Chromaticity (u'):	0.2286
CRI (Ra):	88.8	Chromaticity (v'):	0.5072
CRI (R9):	47.2	TM-30 Rf:	89
Peak Wavelength:	610 nm	TM-30 Rg:	100
Dominant Wavelength:	579 nm	TM-30 Rcs,h1:	-6%
S/P Ratio:	1.65	Duv:	0.0012
M/P Ratio:	0.65	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
88.8	88.5	91.0	92.9	89.9	88.2	88.2	91.6	79.9	47.2	78.8	90.1	75.6	88.7	95.7	84.6



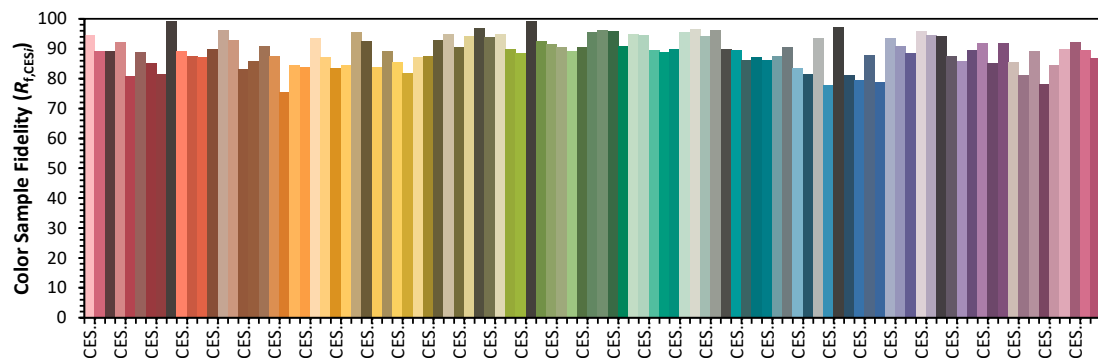
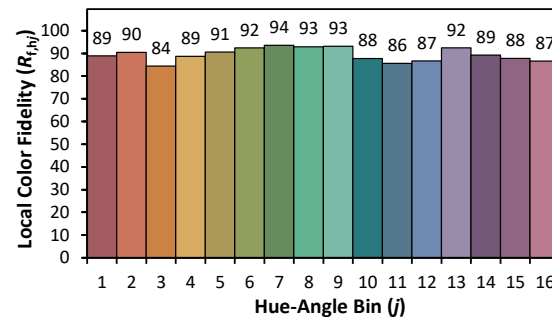
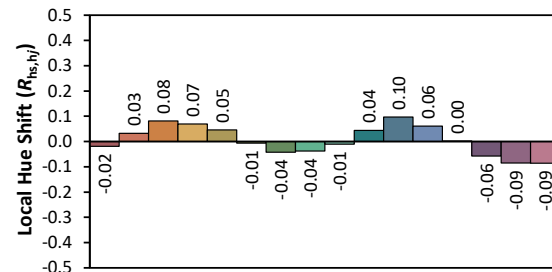
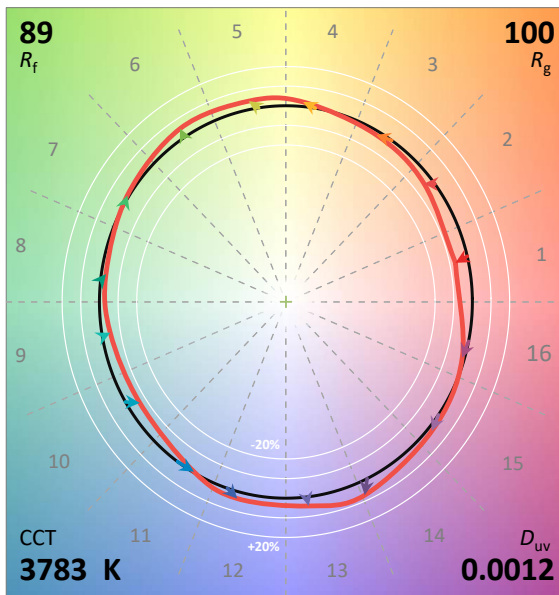
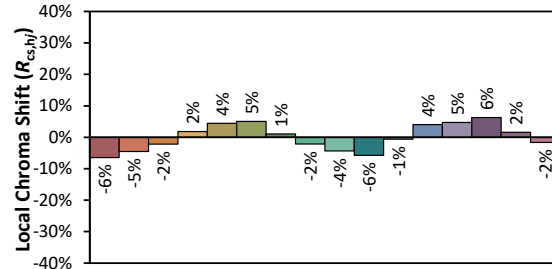
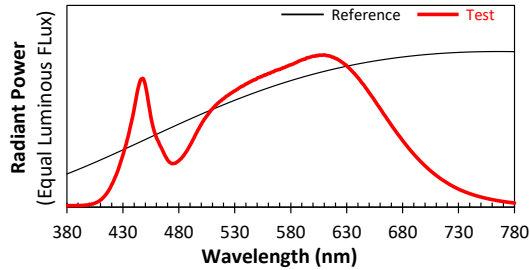
ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13742921.03

Manufacturer: B-K Lighting INC

Date: 2021-04-01

Model: RI-LED-TR-E136-NSP-WHP-9-C-INC-M



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

x 0.3914

y 0.3860

u' 0.2286

v' 0.5072

CIE 13.3-1995
(CRI)

R_a 89

R_g 47

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