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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
SQ-LT-12-LED-E71-WHP-PROTOTYPE(3000K)

Order Number
13290547
Test Number
13290547.02

Test Date

2020-06-15

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 rectangular metal housing and diffuse plastic lens
Lamp: One (1) White LED
Mounting: VBD
Ballast/Driver: One (1) PowerSelect PS20U15K

Luminaire



Summary of Results

Radiant Flux:	388.5 mW
Luminous Flux:	125.9 lm
Luminaire Efficacy:	34.2 lm/W
CCT:	3024 K
CRI (Ra):	81.9
Chromaticity (x):	0.4327
Chromaticity (y):	0.3984
Chromaticity (u):	0.2503
Chromaticity (v):	0.3457
Duv:	-0.0018

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.05550 A
Power:	3.684 W
Power Factor:	0.553
Frequency:	60 Hz
Current THD:	150 %

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



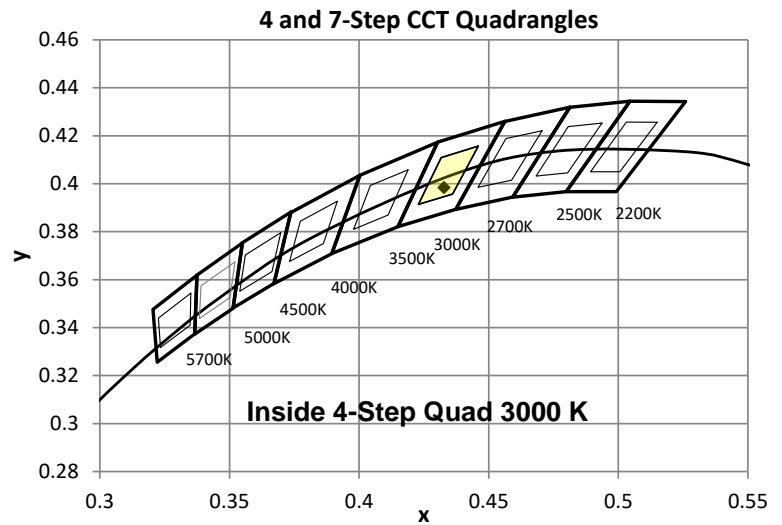
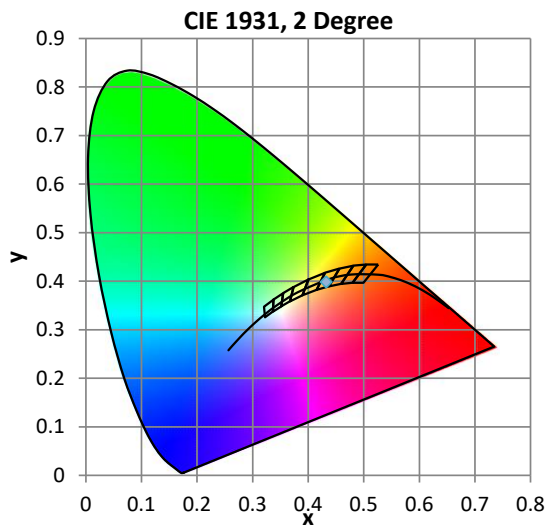
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.05550 A	3.684 W	0.553	60 Hz	150 %

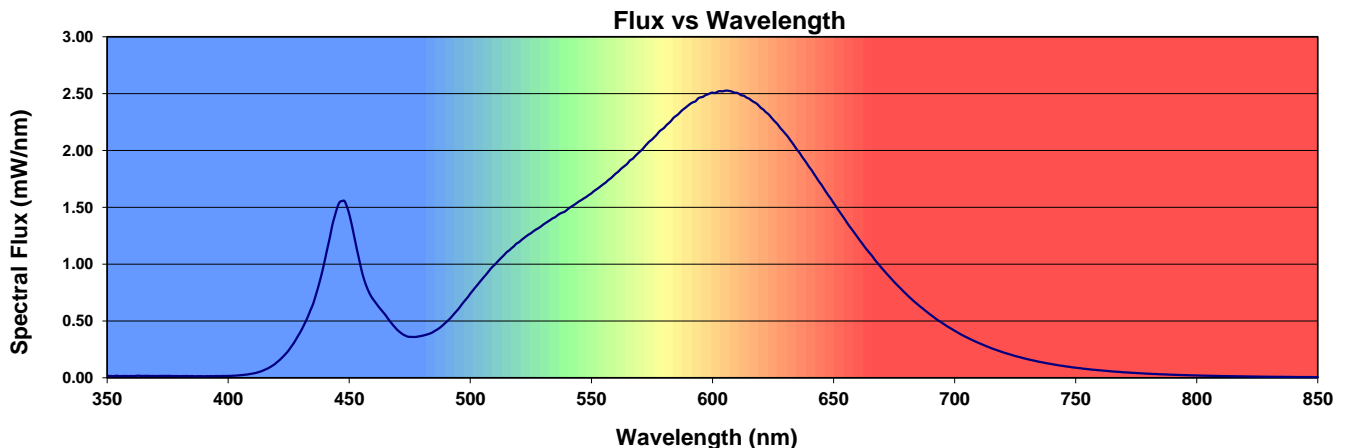
Summary of Results

Total Output:	126 Lumens	Chromaticity (x):	0.4327
Efficacy:	34.2 lm/w	Chromaticity (y):	0.3984
CCT:	3024 K	Chromaticity (u'):	0.2503
CRI (Ra):	81.9	Chromaticity (v'):	0.5185
CRI (R9):	10.1	TM-30 Rf:	82
Peak Wavelength:	606 nm	TM-30 Rg:	99
Dominant Wavelength:	583 nm	TM-30 Rcs,h1:	-11%
S/P Ratio:	1.32	Duv:	-0.0017



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.9	80.6	88.6	94.9	81.0	80.3	85.2	83.8	61.3	10.1	73.3	80.0	68.8	82.2	96.9	74.1



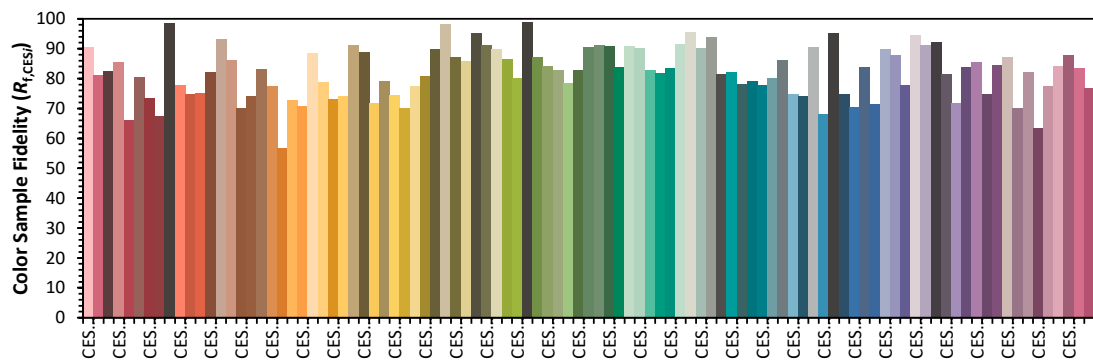
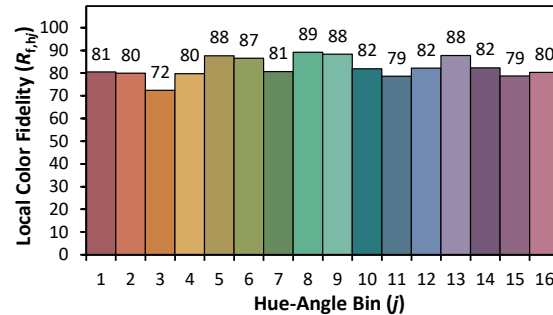
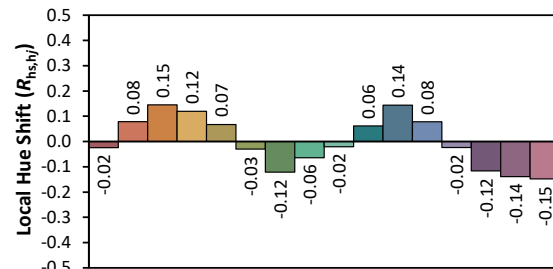
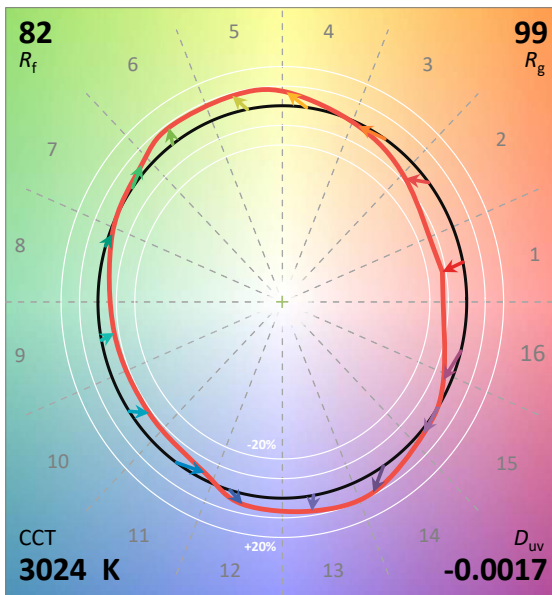
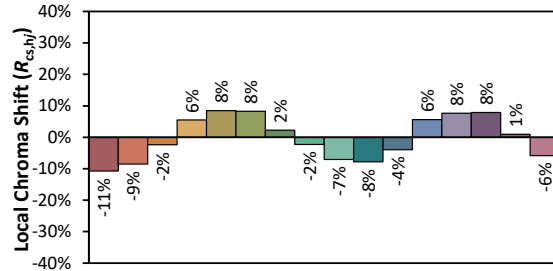
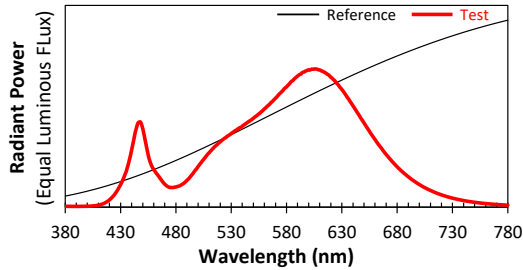
ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13290547.02

Manufacturer: B-K Lighting INC

Date: 2020-06-15

Model: SQ-LT-12-LED-E71-WHP-PROTOTYPE



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

x 0.4327

y 0.3984

u' 0.2503

v' 0.5185

CIE 13.3-1995
(CRI)

R_a 82

R_g 10

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