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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
SQ-LT-12-LED-E70-WHP

Order Number
13460989
Test Number
13460989.01

Test Date

2020-08-21

Prepared By

William Escobar, Technician

Approved By

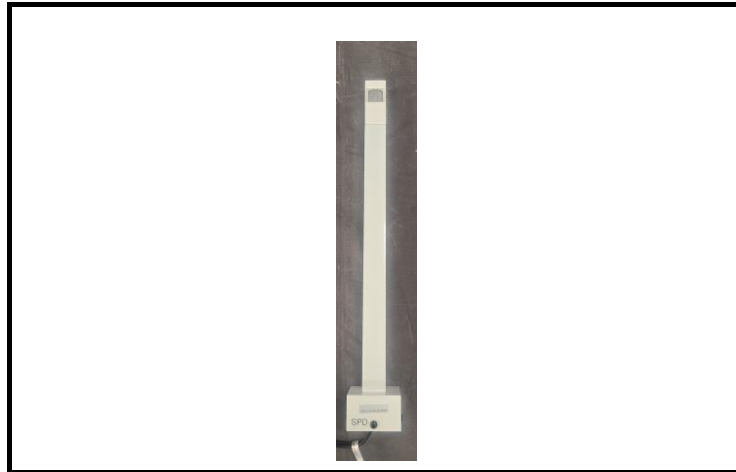
Eric Gaudreau, Engineering Leader

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:	379.1 mW
Luminous Flux:	120.2 lm
Luminaire Efficacy:	33.2 lm/W
CCT:	2706 K
CRI (Ra):	82.3
Chromaticity (x):	0.4546
Chromaticity (y):	0.4021
Chromaticity (u):	0.2629
Chromaticity (v):	0.3488
Duv:	-0.0031

Test Conditions

Test Temperature:	24.1 °C
Voltage:	120.2 VAC
Current:	0.05469 A
Power:	3.617 W
Power Factor:	0.551
Frequency:	60 Hz
Current THD:	151 %

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



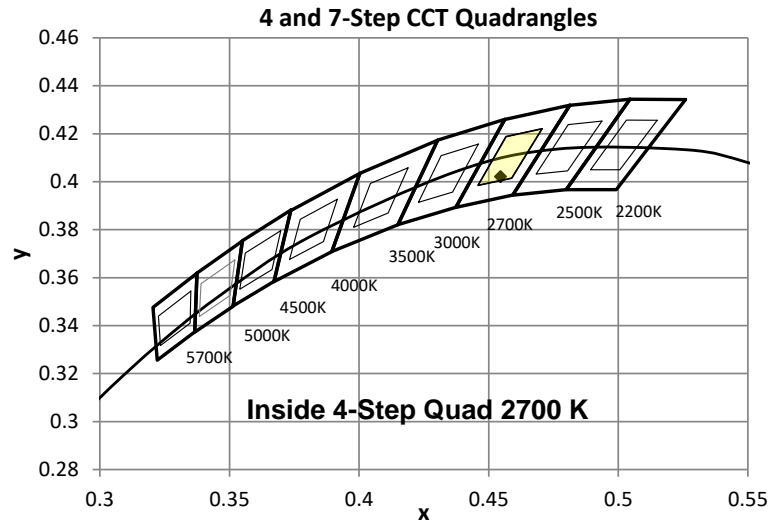
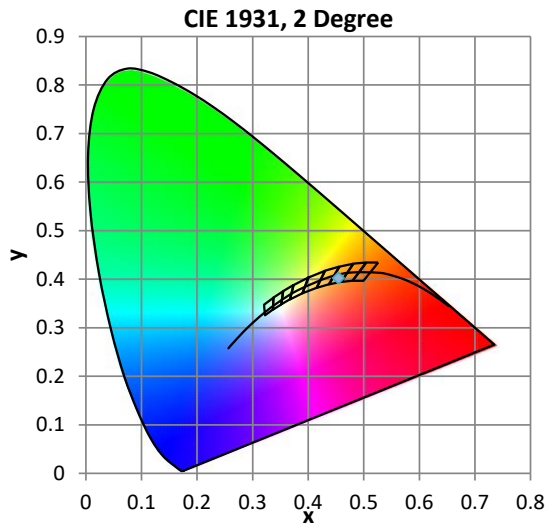
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.1 °C	120.2 VAC	0.05469 A	3.617 W	0.551	60 Hz	151 %

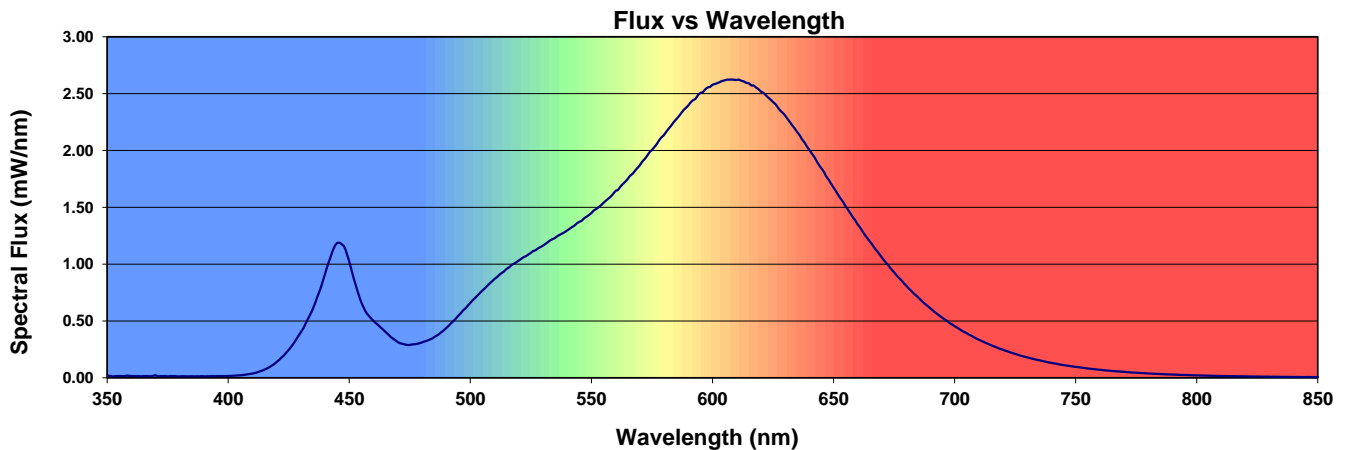
Summary of Results

Total Output:	120 Lumens	Chromaticity (x):	0.4546
Efficacy:	33.2 lm/w	Chromaticity (y):	0.4021
CCT:	2706 K	Chromaticity (u'):	0.2629
CRI (Ra):	82.3	Chromaticity (v'):	0.5232
CRI (R9):	10.3	TM-30 Rf:	82
Peak Wavelength:	607 nm	TM-30 Rg:	100
Dominant Wavelength:	585 nm	TM-30 Rcs,h1:	-11%
S/P Ratio:	1.2	Duv:	-0.0028



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.3	81.0	90.1	96.5	80.7	80.9	88.2	82.0	58.9	10.3	77.4	80.4	75.5	82.9	98.2	74.2



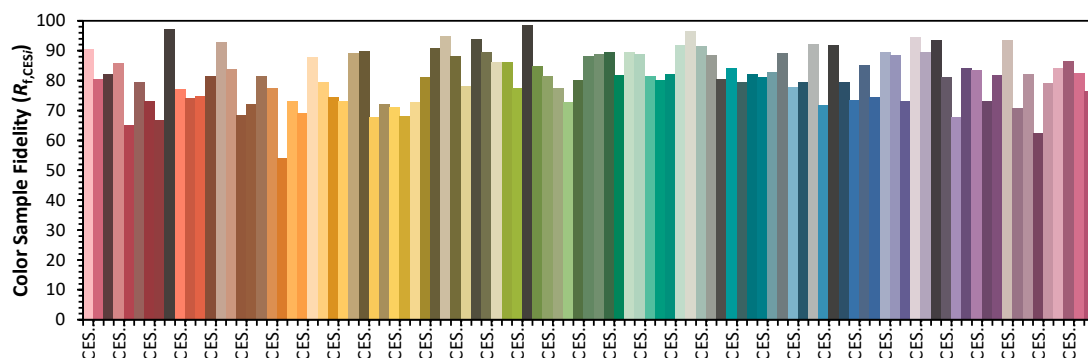
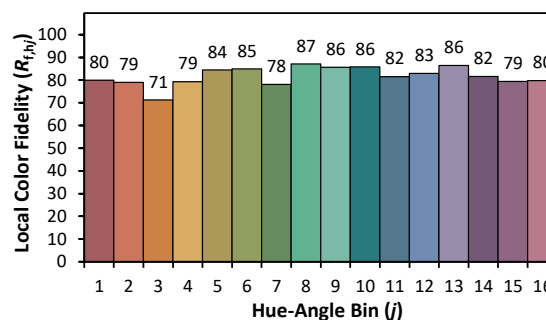
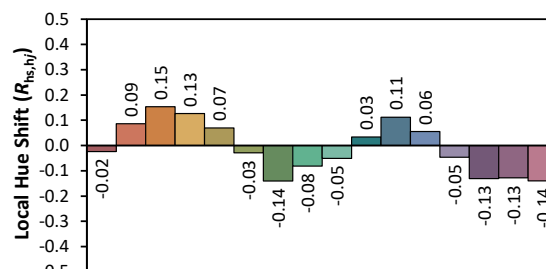
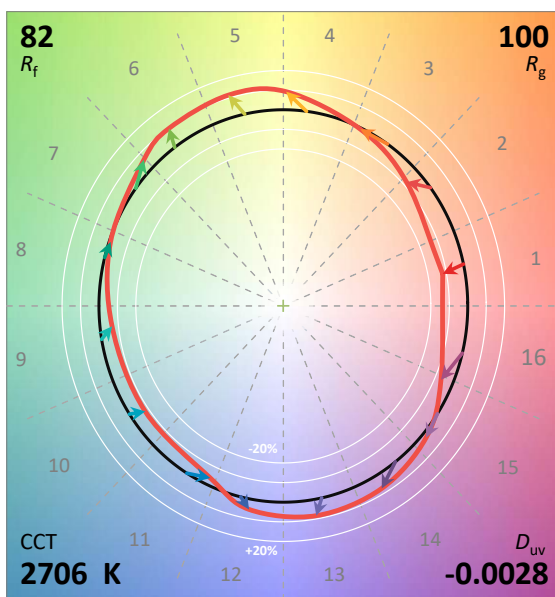
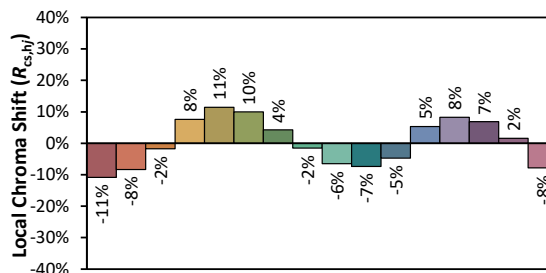
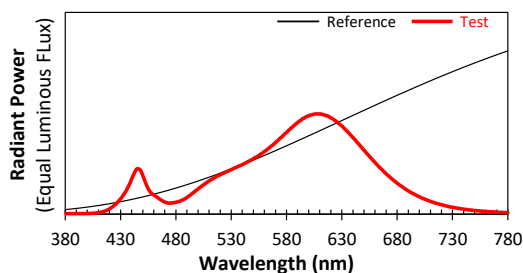
ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13460989.01

Manufacturer: B-K Lighting INC

Date: 2020-08-21

Model: SQ-LT-12-LED-E70-WHP



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

x 0.4546

y 0.4021

u' 0.2629

v' 0.5232

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.