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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

UO-LED-3500K-WW-2-42-WHP-INC-MT

Order Number
13819078
Test Number
13819078.03

Test Date

2021-06-16

Prepared By

William Escobar, Technician

Approved By

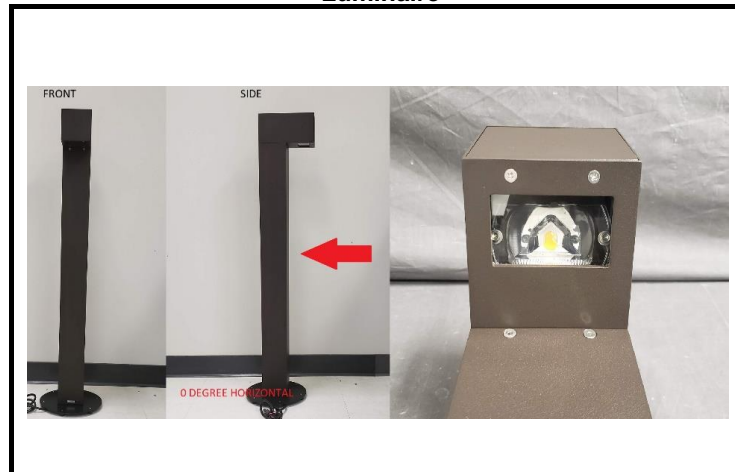
Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed brown metal housing with clear glass lens
Lamp: 1 White LED with optic below
Mounting: Bollard
Ballast/Driver: ERP PTB30W-0700-42

Luminaire



Summary of Results

Radiant Flux:	2749 mW
Luminous Flux:	917.8 lm
Luminaire Efficacy:	45.8 lm/W
CCT:	3521 K
CRI (Ra):	80.5
Chromaticity (x):	0.4053
Chromaticity (y):	0.3936
Chromaticity (u):	0.2345
Chromaticity (v):	0.3417
Duv:	0.0011

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.1683 A
Power:	20.04 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	10.4 %

Testing was performed in a 3-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



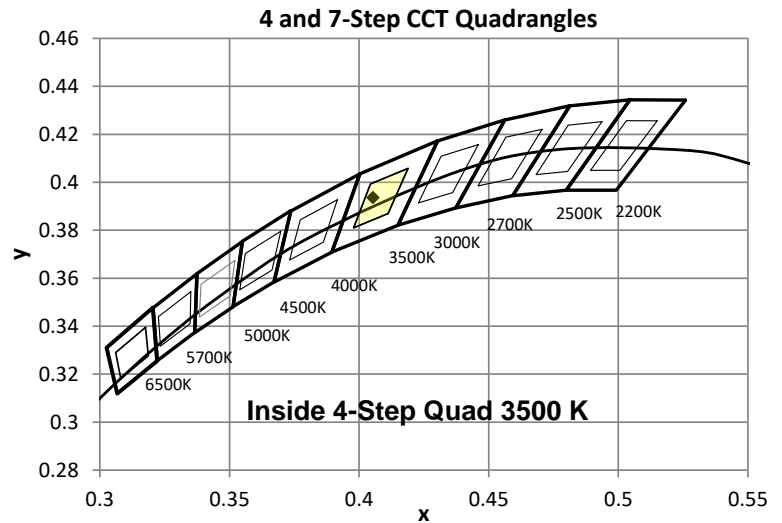
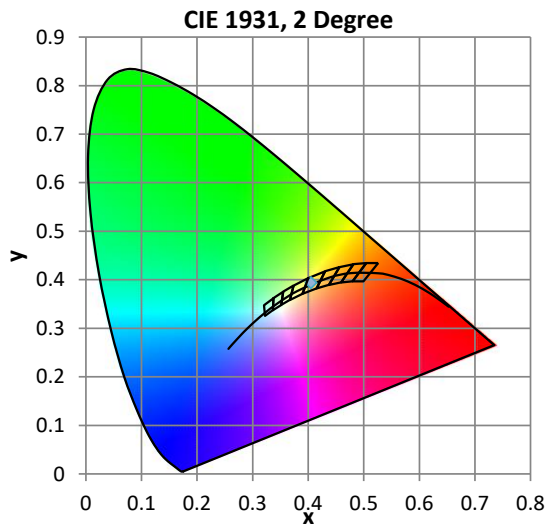
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1683 A	20.04 W	0.991	60 Hz	10.4 %

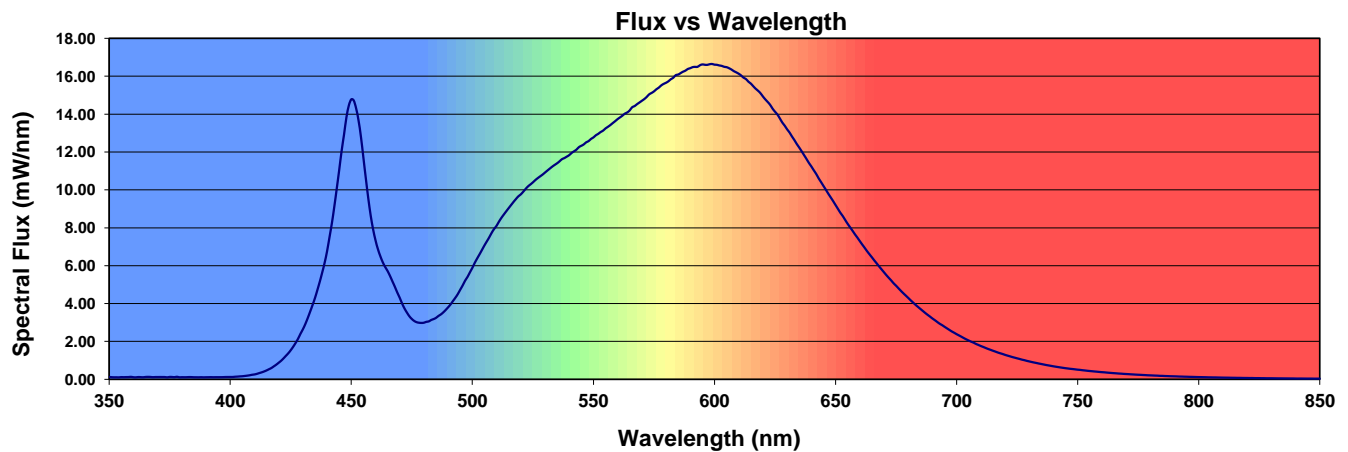
Summary of Results

Total Output:	918 Lumens	Chromaticity (x):	0.4053
Efficacy:	45.8 lm/w	Chromaticity (y):	0.3936
CCT:	3521 K	Chromaticity (u'):	0.2345
CRI (Ra):	80.5	Chromaticity (v'):	0.5125
CRI (R9):	4.1	TM-30 Rf:	82
Peak Wavelength:	599 nm	TM-30 Rg:	97
Dominant Wavelength:	580 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.48	Duv:	0.0013
M/P Ratio:	0.57	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
80.5	78.7	86.3	92.5	80.0	78.2	81.2	85.4	62.0	4.1	67.5	78.0	58.2	80.1	95.6	72.4



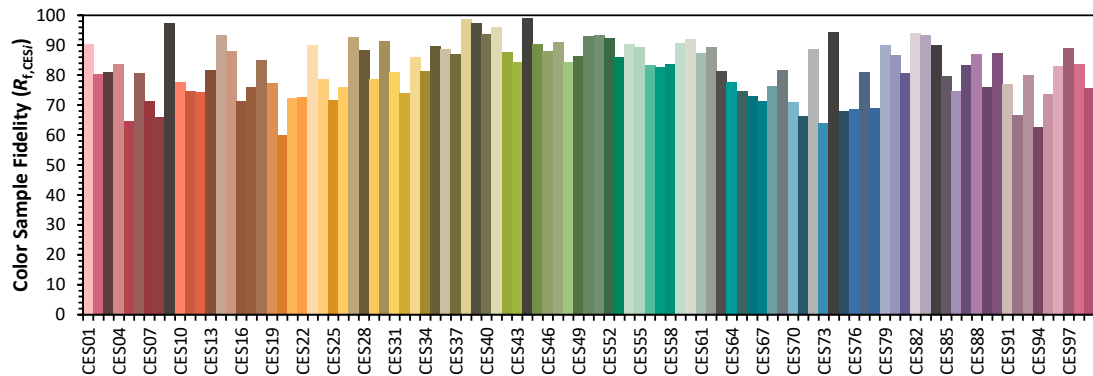
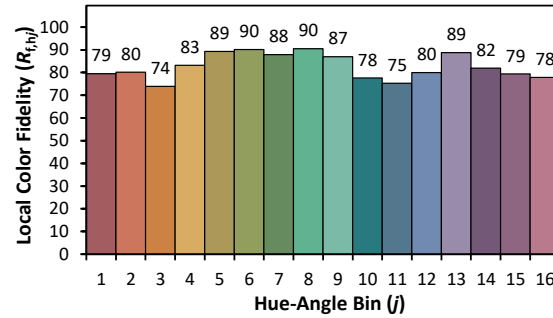
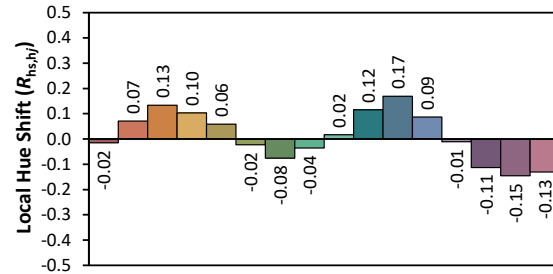
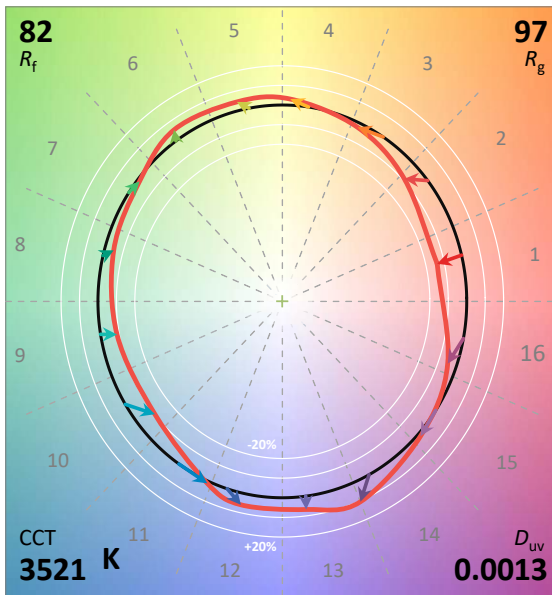
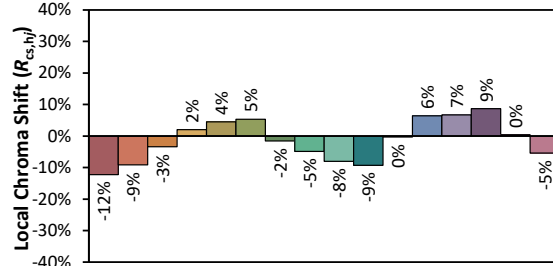
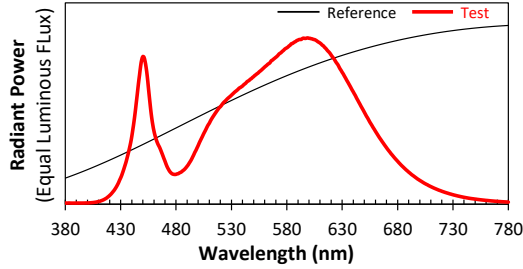
ANSI/IES TM-30-18 Color Rendition Report

Date: 2021-06-16

Manufacturer: B-K Lighting INC

Model:

UO-LED-3500K-WW-2-42-WHP-INC-MT



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

x 0.4053
y 0.3936
u' 0.2345
v' 0.5125

CIE 13.3-1995
(CRI)
R_a 81
R₉ 4

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