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7036 Snowdrift Road
Allentown, PA 18106
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Photometric 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
40429 Brickyard, Dr
Madera, CA 93636-9515
United States

Catalog Number
MYK-LED-e198-2-WHP-SD-B2-010-MT (3500K,80CRI)

Order Number
14692250
Test Number
14692250.03

Test Date

2023-02-27

Prepared By

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Approved By

Yilmaz Yucelidag, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.

Absorption correction was employed for Sphere measurement

Luminaire Description: Gray cast aluminum housing, white top, clear lens enclosure.
Lamp: Three white LEDs
Mounting: Recessed
Ballast/Driver: ESS010W-0750-12

Luminaire



Luminaire Characteristics

Luminous Length: 0.00 in.
 Luminous Width: 3.500 in.
 Luminous Height: 1.00 in.

Summary of Results

Integrating Sphere

Luminous Flux: 478.6 Lumens
 Efficacy: 60.45 lm/w
 CCT: 3328 K
 CRI (Ra): 80.5

Distribution

Roadway Classification: Type II, Very Short
 Cutoff Classification: Noncutoff
 BUG Rating: B0 U3 G1

Electrical Data at 120 VAC

Test Temperature: 25.0 °C
 Voltage: 120.0 VAC
 Current: 0.06726 A
 Power: 7.918 W
 Power Factor: 0.981
 Frequency: 60 Hz
 Current THD: 13.0 %

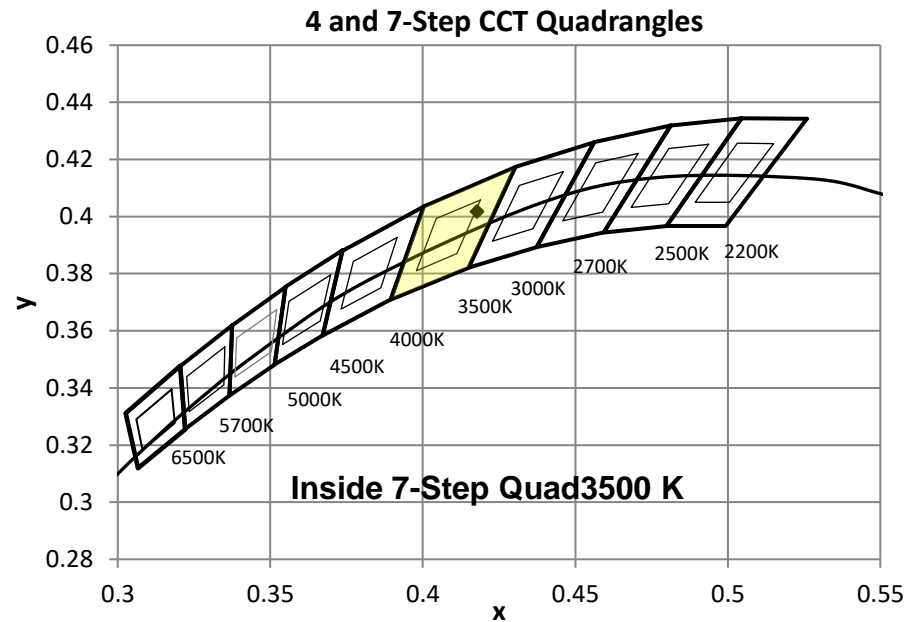
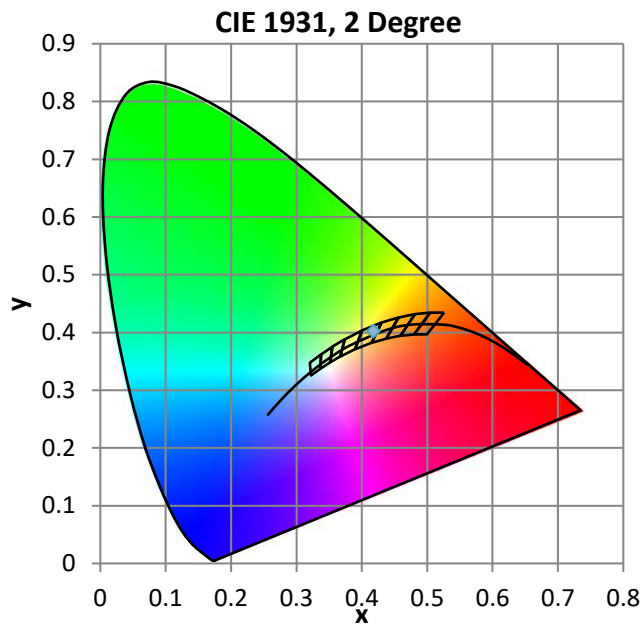
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.06726 A	7.918 W	0.981	60 Hz	13.0 %

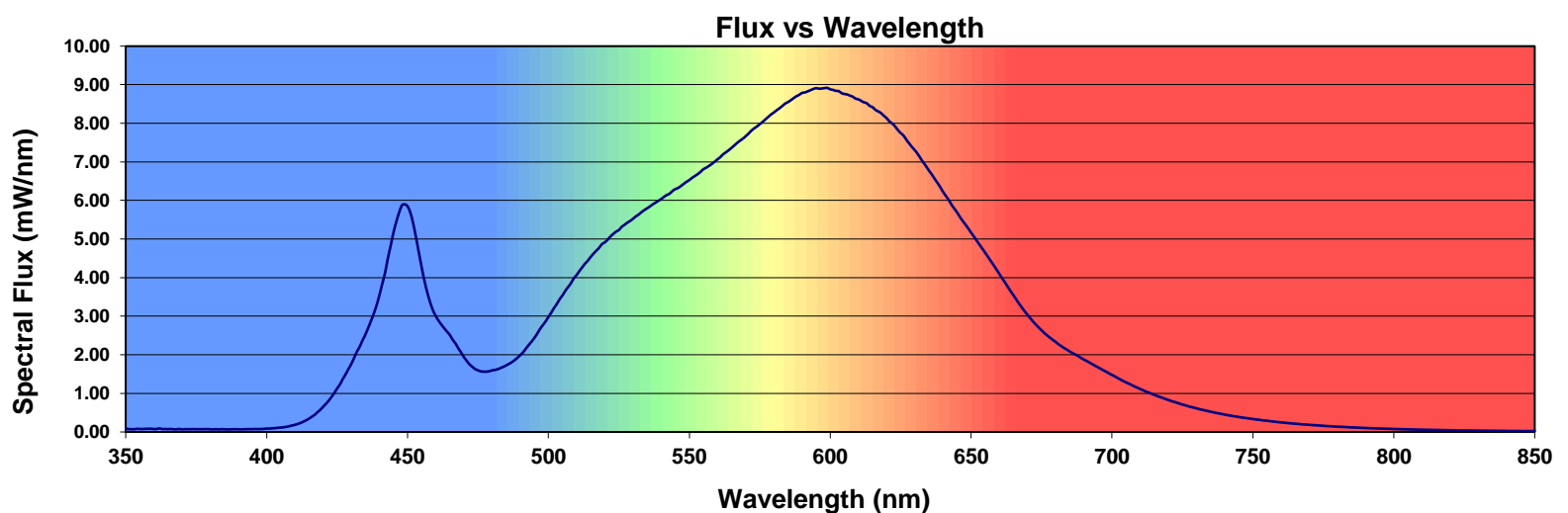
Summary of Results

Total Output:	479 Lumens	Chromaticity (x):	0.4178
Efficacy:	60.4 lm/w	Chromaticity (y):	0.4018
CCT:	3328 K	Chromaticity (u'):	0.2392
CRI (Ra):	80.5	Chromaticity (v'):	0.5176
CRI (R9):	4.2	TM-30 Rf:	83
Peak Wavelength:	598 nm	TM-30 Rg:	97
Dominant Wavelength:	555 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.4	Duv:	0.0022
M/P Ratio:	0.53	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	78.4	86.2	93.2	80.1	78.0	81.6	85.2	61.3	4.2	67.8	78.2	61.6	79.8	95.9	71.6



Distribution - Goniophotometer

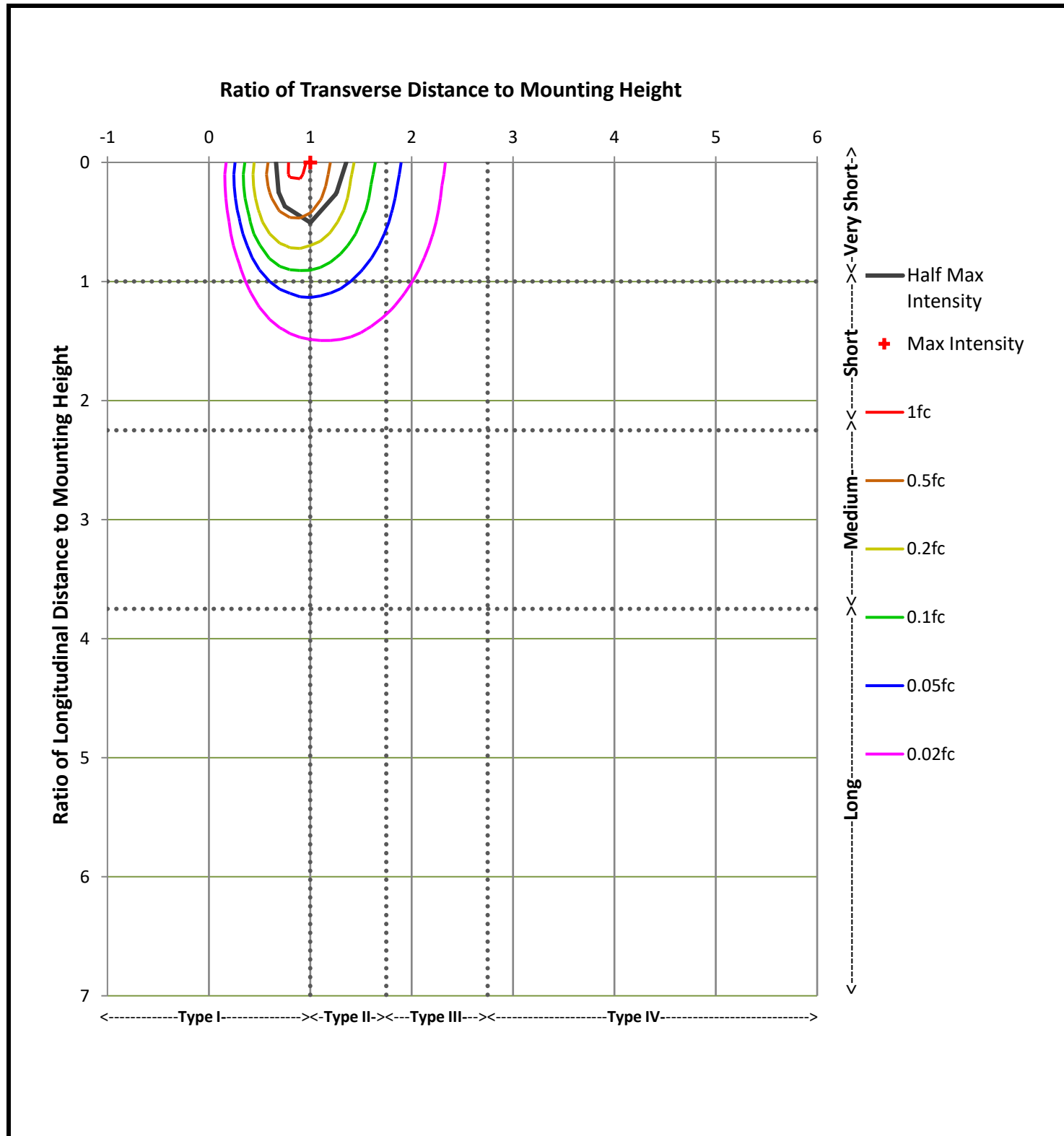
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.06731 A	7.921 W	0.981	60 Hz	13.0 %

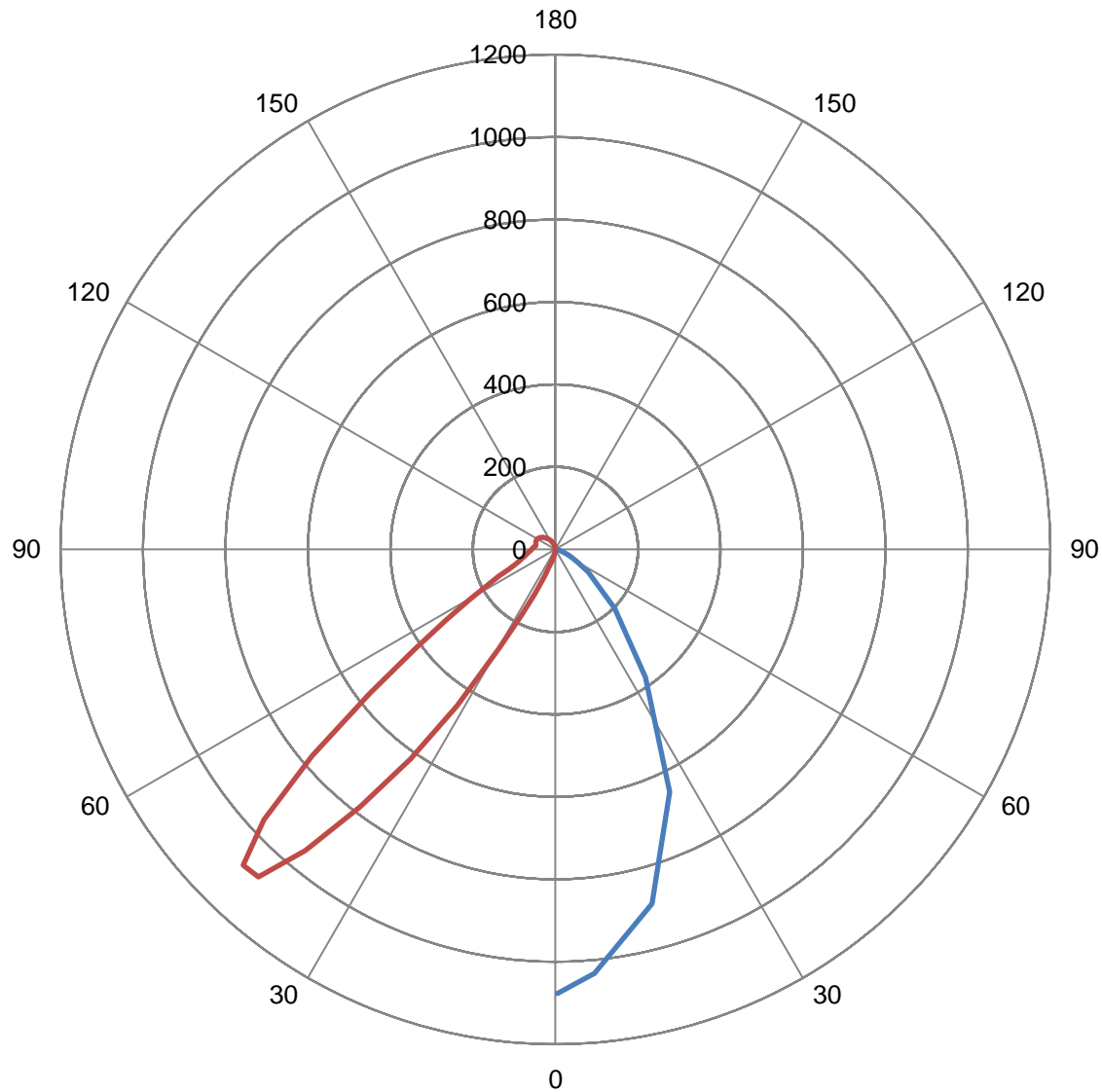
Summary of Results

IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	479 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	60.5 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	1077 Candela

ISO FootCandle Plot at 20 Feet



Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

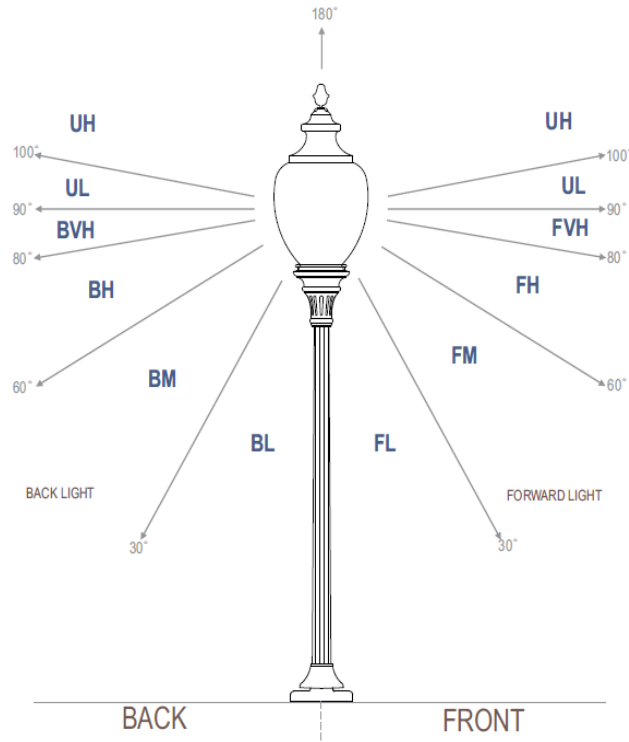
45 ° Vertical

Maximum Intensity (Candlepower): 1077 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	23.7	4.9%	120-125	7.1	1.5%
5-10	0.1	0.0%	65-70	18.1	3.8%	125-130	6.3	1.3%
10-15	0.5	0.1%	70-75	14.9	3.1%	130-135	5.3	1.1%
15-20	1.5	0.3%	75-80	13.0	2.7%	135-140	4.4	0.9%
20-25	3.9	0.8%	80-85	11.5	2.4%	140-145	3.4	0.7%
25-30	10.2	2.1%	85-90	10.3	2.2%	145-150	2.6	0.5%
30-35	25.1	5.2%	90-95	9.2	1.9%	150-155	1.8	0.4%
35-40	47.2	9.8%	95-100	8.4	1.8%	155-160	1.2	0.2%
40-45	66.5	13.9%	100-105	8.2	1.7%	160-165	0.6	0.1%
45-50	66.9	14.0%	105-110	8.2	1.7%	165-170	0.3	0.1%
50-55	49.7	10.4%	110-115	8.1	1.7%	170-175	0.1	0.0%
55-60	33.4	7.0%	115-120	7.7	1.6%	175-180	0.0	0.0%

IES "BUG" Rating
(Back Light, Uplight, Glare)
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	16.2	3.4%
FM	(30-60)	288.5	60.2%
FH	(60-80)	69.4	14.5%
FVH	(80-90)	21.7	4.5%
BL	(0-30)	0.1	0.0%
BM	(30-60)	0.2	0.0%
BH	(60-80)	0.3	0.1%
BVH	(80-90)	0.1	0.0%
UL	(90-100)	17.6	3.7%
UH	(100-180)	65.0	13.6%
Total		479.2	100.0%
BUG Rating	B0 U3 G1		

ANSI/IES TM-30-18 Color Rendition Report

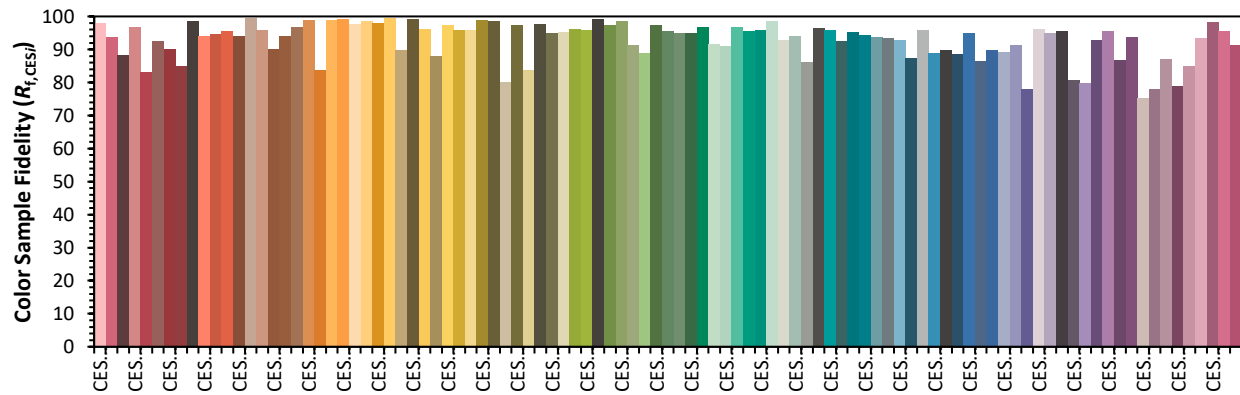
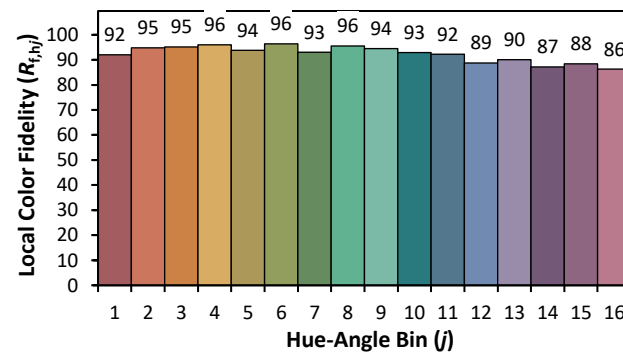
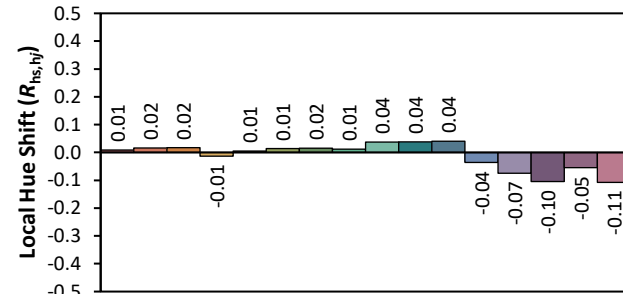
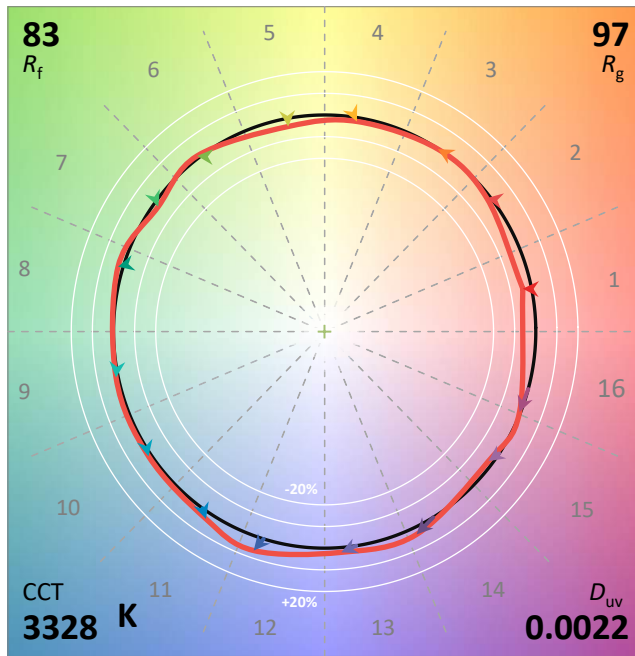
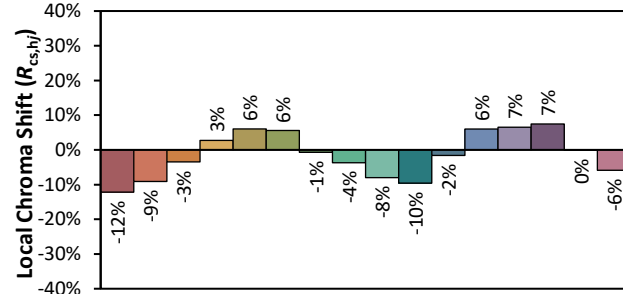
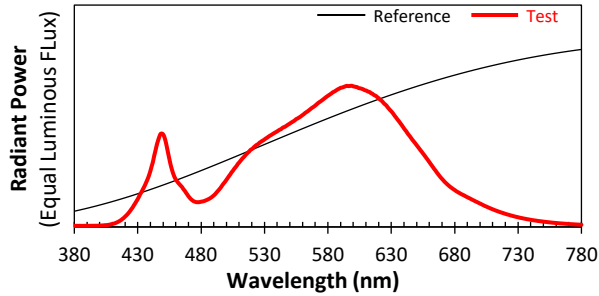
Date: 2023-02-27

Manufacturer:

B-K LIGHTING INC

Model:

MYK-LED-e198-2-WHP-SD-B2-010-MT (3500K,80CRI)



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

x 0.4178

y 0.4018

u' 0.2392

v' 0.5176

CIE 13.3-1995
(CRI)

R_a 81

R_g 4

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

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