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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-e197-2-WHP-SD-B2-010-MT (3000K,80CRI)

Order Number
14692250
Test Number
14692250.02

Test Date

2023-02-24 - 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: 490 Lumens
 Efficacy: 61.58 lm/w
 CCT: 3103 K
 CRI (Ra): 81.8

Distribution

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

Electrical Data at 119 VAC

Test Temperature: 25.0 °C
 Voltage: 119.9 VAC
 Current: 0.06760 A
 Power: 7.957 W
 Power Factor: 0.981
 Frequency: 60 Hz
 Current THD: 12.8 %

Color Quality - Integrating Sphere

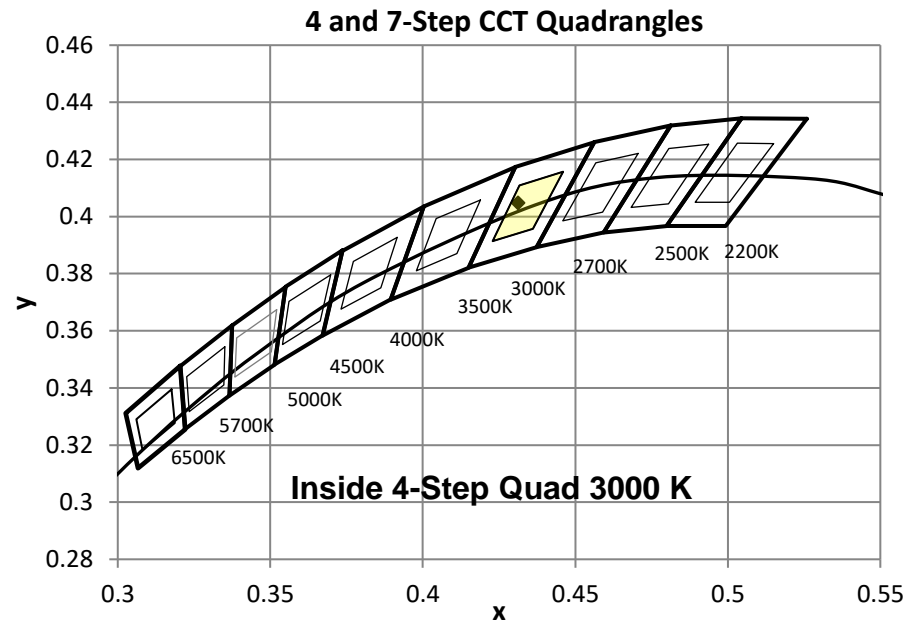
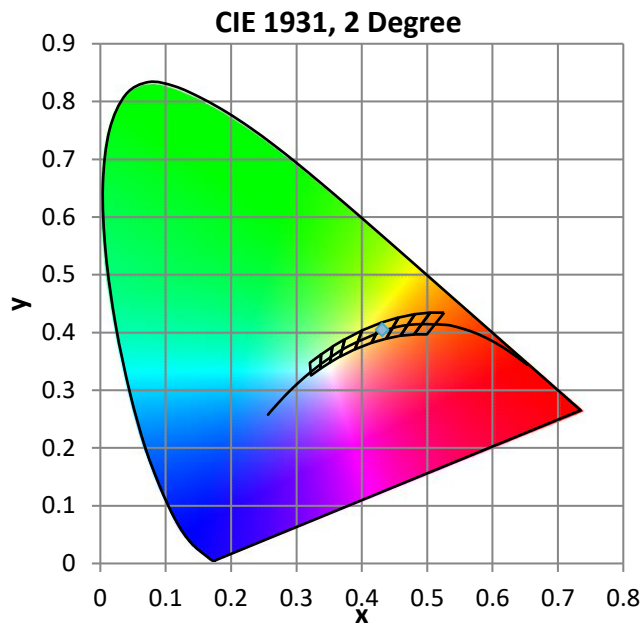
Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	119.9 VAC	0.06760 A	7.957 W	0.981	60 Hz	12.8 %

Summary of Results

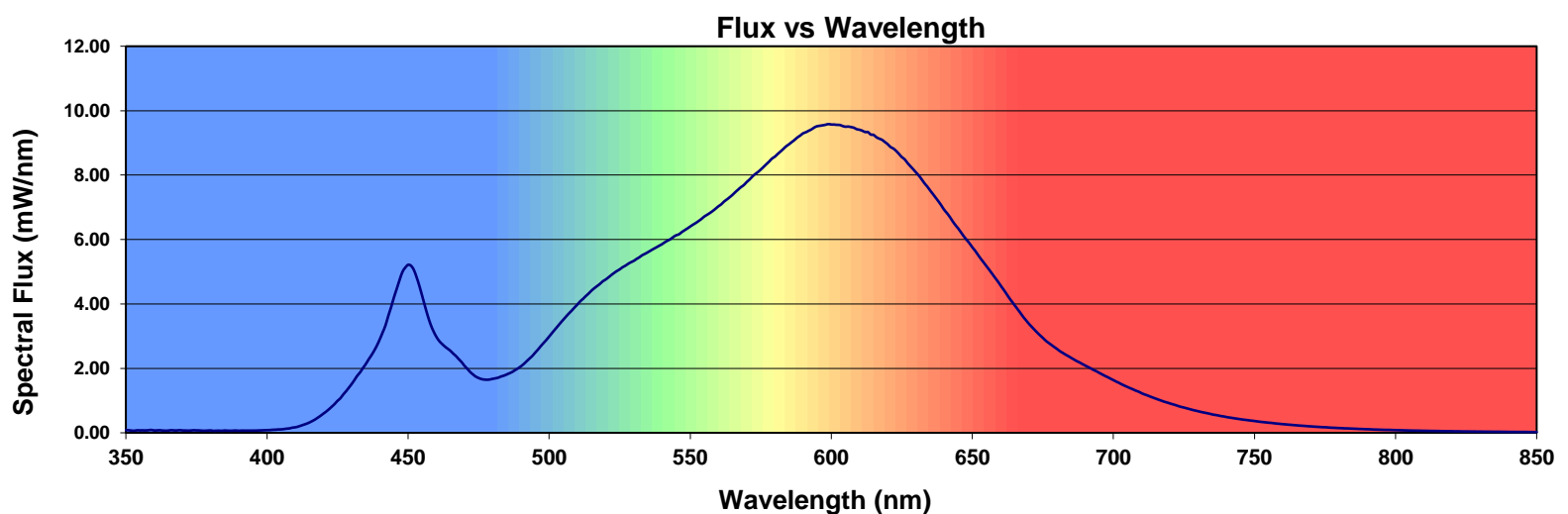
Total Output:	490 Lumens	Chromaticity (x):	0.4312
Efficacy:	61.6 lm/w	Chromaticity (y):	0.4048
CCT:	3103 K	Chromaticity (u'):	0.2466
CRI (Ra):	81.8	Chromaticity (v'):	0.5208
CRI (R9):	7.3	TM-30 Rf:	84
Peak Wavelength:	600 nm	TM-30 Rg:	97
Dominant Wavelength:	555 nm	TM-30 Rcs,h1:	-11%
S/P Ratio:	1.34	Duv:	0.0011
M/P Ratio:	0.5		

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
81.8	79.8	88.3	95.7	80.6	79.5	85.0	84.6	60.8	7.3	72.8	79.2	66.9	81.5	97.4	72.8



Distribution - Goniophotometer

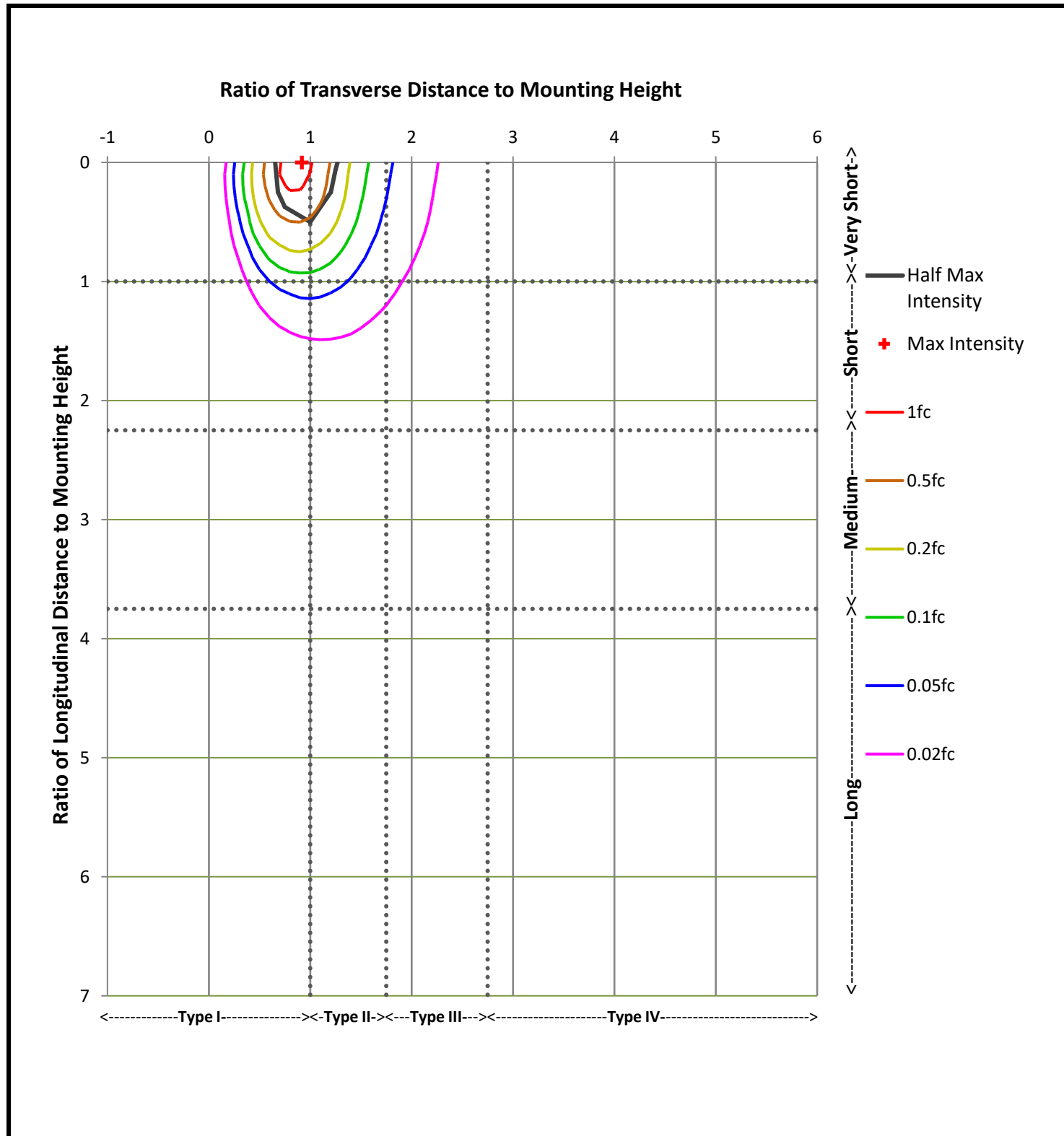
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.06747 A	7.952 W	0.982	60 Hz	12.7 %

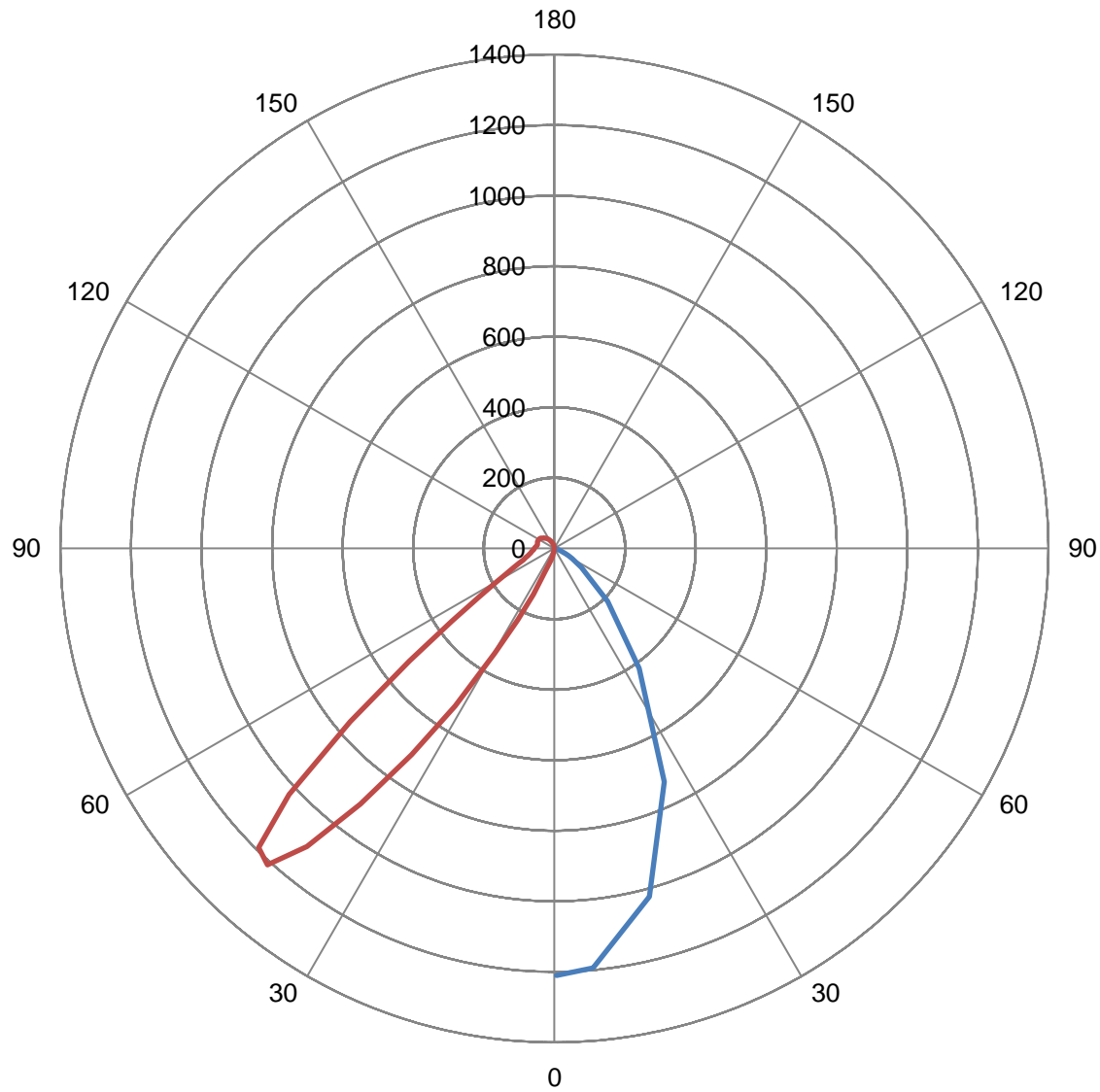
Summary of Results

IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	497 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	62.4 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	1210 Candela

ISO FootCandle Plot at 20 Feet



Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

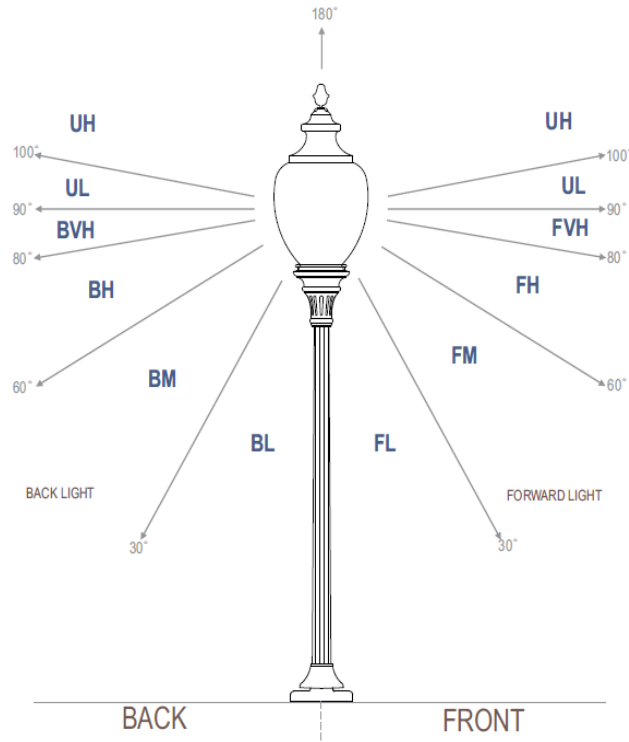
42.5 ° Vertical

Maximum Intensity (Candlepower): 1210 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	20.9	4.2%	120-125	7.2	1.4%
5-10	0.1	0.0%	65-70	16.6	3.3%	125-130	6.4	1.3%
10-15	0.5	0.1%	70-75	14.0	2.8%	130-135	5.5	1.1%
15-20	1.6	0.3%	75-80	12.4	2.5%	135-140	4.5	0.9%
20-25	4.2	0.8%	80-85	11.2	2.3%	140-145	3.6	0.7%
25-30	12.0	2.4%	85-90	10.1	2.0%	145-150	2.7	0.5%
30-35	28.8	5.8%	90-95	9.2	1.9%	150-155	1.9	0.4%
35-40	53.7	10.8%	95-100	8.4	1.7%	155-160	1.3	0.3%
40-45	74.8	15.1%	100-105	8.2	1.6%	160-165	0.7	0.2%
45-50	72.2	14.5%	105-110	8.2	1.7%	165-170	0.4	0.1%
50-55	49.1	9.9%	110-115	8.1	1.6%	170-175	0.1	0.0%
55-60	30.2	6.1%	115-120	7.8	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)	18.3	3.7%
FM	(30-60)	308.5	62.1%
FH	(60-80)	63.5	12.8%
FVH	(80-90)	21.2	4.3%
BL	(0-30)	0.1	0.0%
BM	(30-60)	0.3	0.1%
BH	(60-80)	0.3	0.1%
BVH	(80-90)	0.2	0.0%
UL	(90-100)	17.7	3.6%
UH	(100-180)	66.5	13.4%
Total		496.5	100.0%
BUG Rating	B0 U3 G1		

ANSI/IES TM-30-18 Color Rendition Report

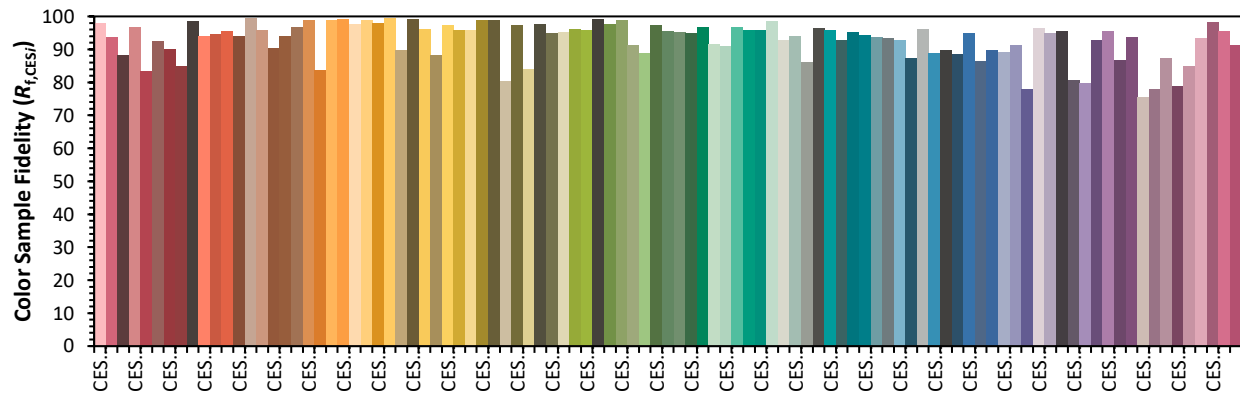
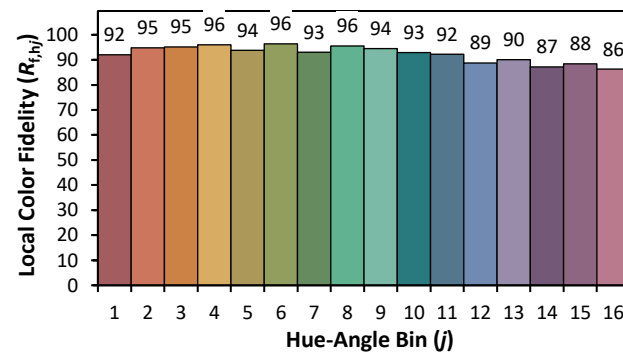
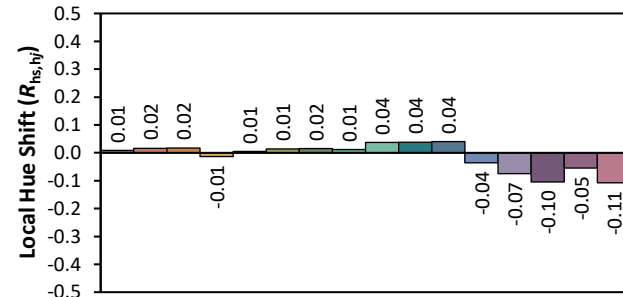
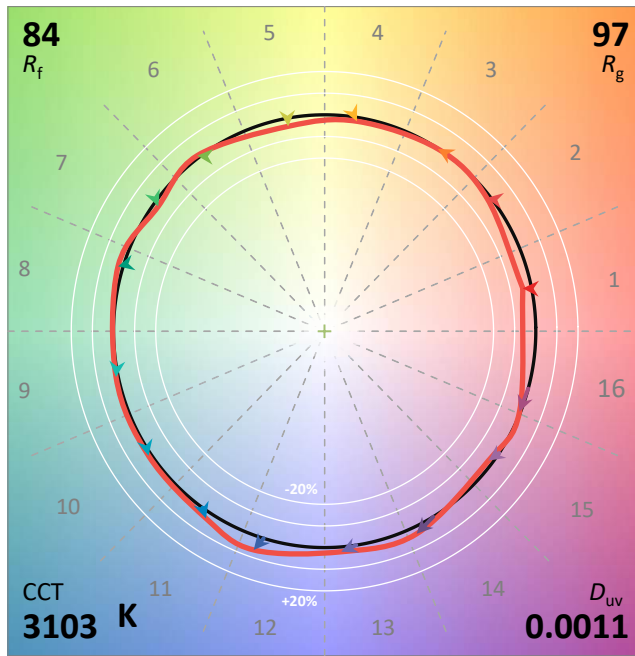
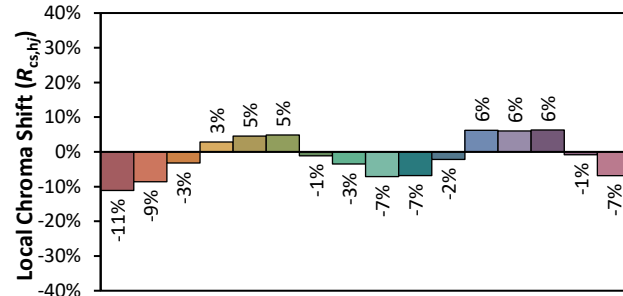
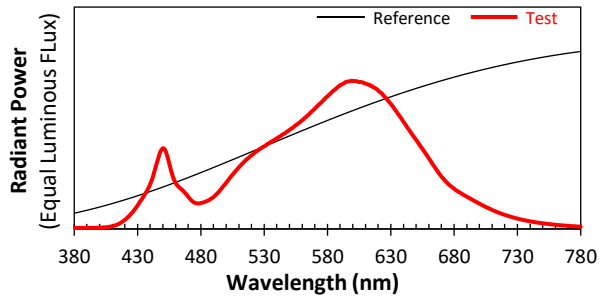
Date: 2023-02-27

Manufacturer:

B-K LIGHTING INC

Model:

MYK-LED-e197-2-WHP-SD-B2-010-MT (3000K,80CRI)



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

x 0.4312

y 0.4048

u' 0.2466

v' 0.5208

CIE 13.3-1995
(CRI)

R_a 82

R_g 7

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