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Allentown, PA 18106
610-774-1300



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-e203-2-WHP-SD-B2-010-MT (Amber)

Order Number
14692250
Test Number
14692250.07

Test Date

2023-02-28 - 2023-03-01

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 amber 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: 118.7 Lumens
 Efficacy: 17.83 lm/w
 CCT: 1478 K
 CRI (Ra): -15.1

Distribution

Roadway Classification: Type II, Very Short
 Cutoff Classification: Noncutoff
 BUG Rating: B0 U2 G0

Electrical Data at 120 VAC

Test Temperature: 25.1 °C
 Voltage: 120.0 VAC
 Current: 0.05651 A
 Power: 6.659 W
 Power Factor: 0.982
 Frequency: 60 Hz
 Current THD: 13.8 %

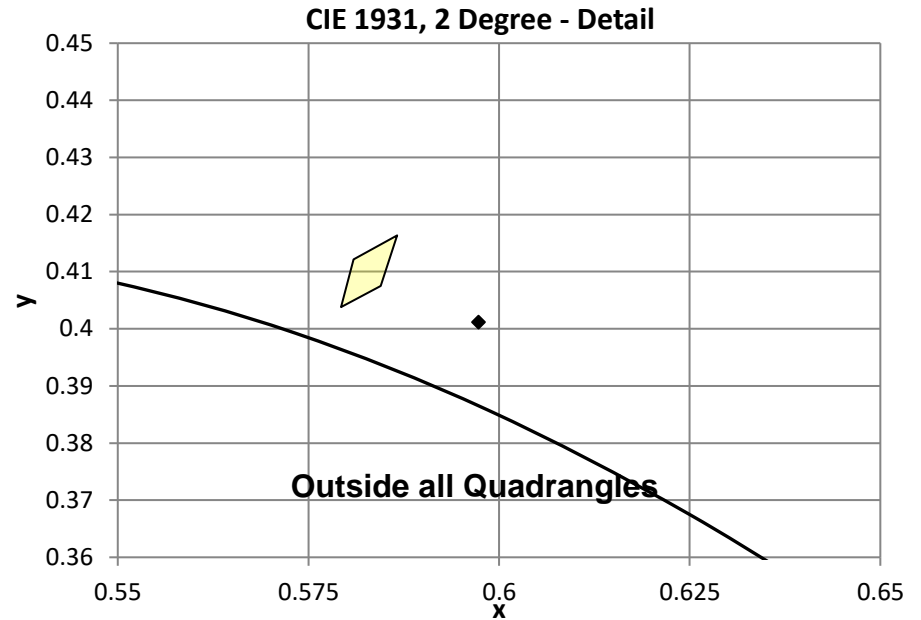
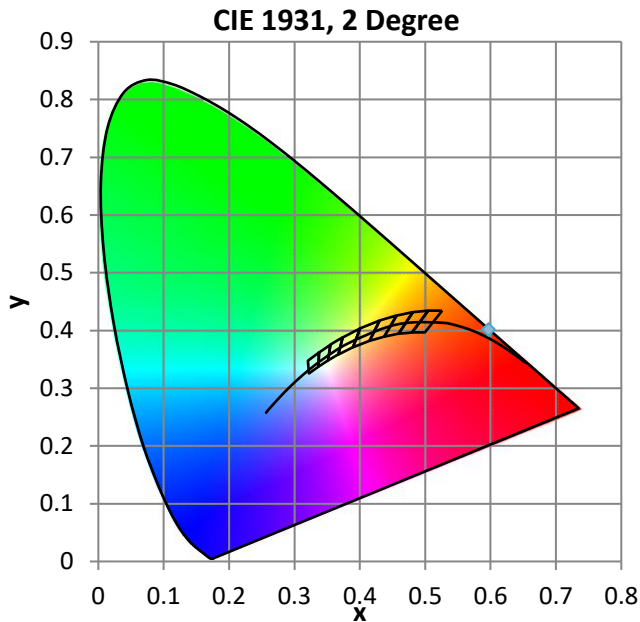
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.05651 A	6.659 W	0.982	60 Hz	13.8 %

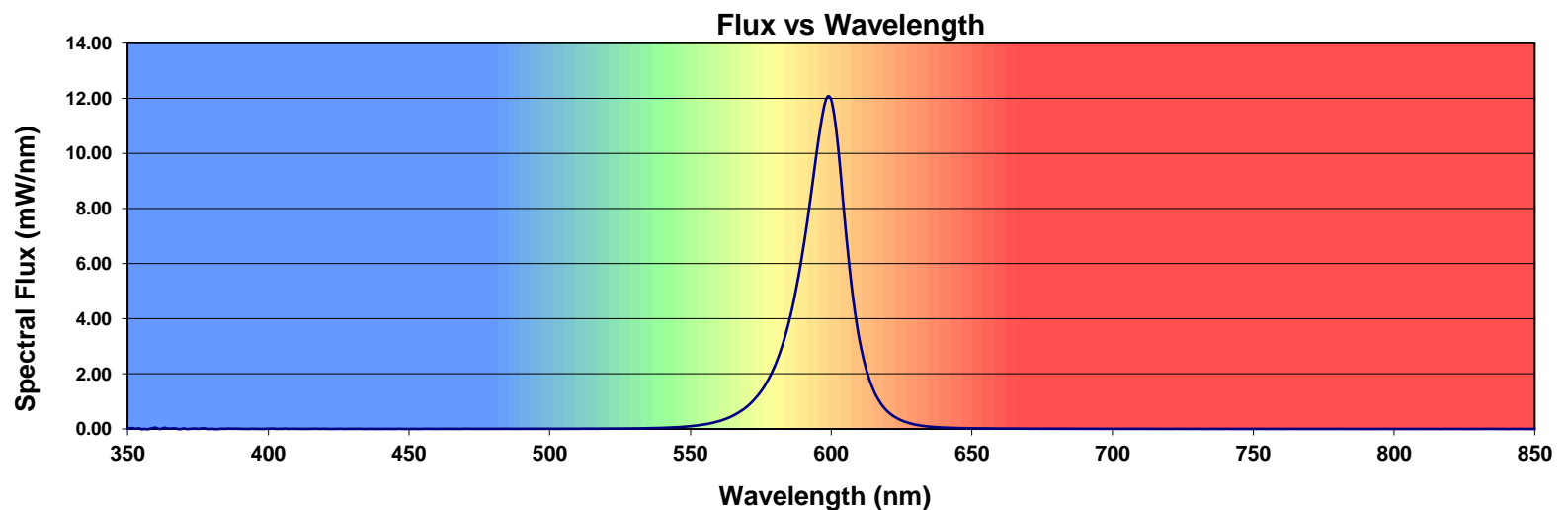
Summary of Results

Total Output:	119 Lumens	Chromaticity (x):	0.5973
Efficacy:	17.8 lm/w	Chromaticity (y):	0.4012
CCT:	1478 K	Chromaticity (u'):	0.3609
CRI (Ra):	-15.1	Chromaticity (v'):	0.5455
CRI (R9):	-360.1	TM-30 Rf:	5
Peak Wavelength:	599 nm	TM-30 Rg:	8
Dominant Wavelength:	555 nm	TM-30 Rcs,h1:	-74%
S/P Ratio:	0.22	Duv:	0.0140
M/P Ratio:	0.03	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
-15.1	-25.1	57.6	19.7	-59.5	-32.2	51.6	-5.7	-127.2	-360.1	37.6	-82.6	8.3	-6.5	48.5	-59.2



Distribution - Goniophotometer

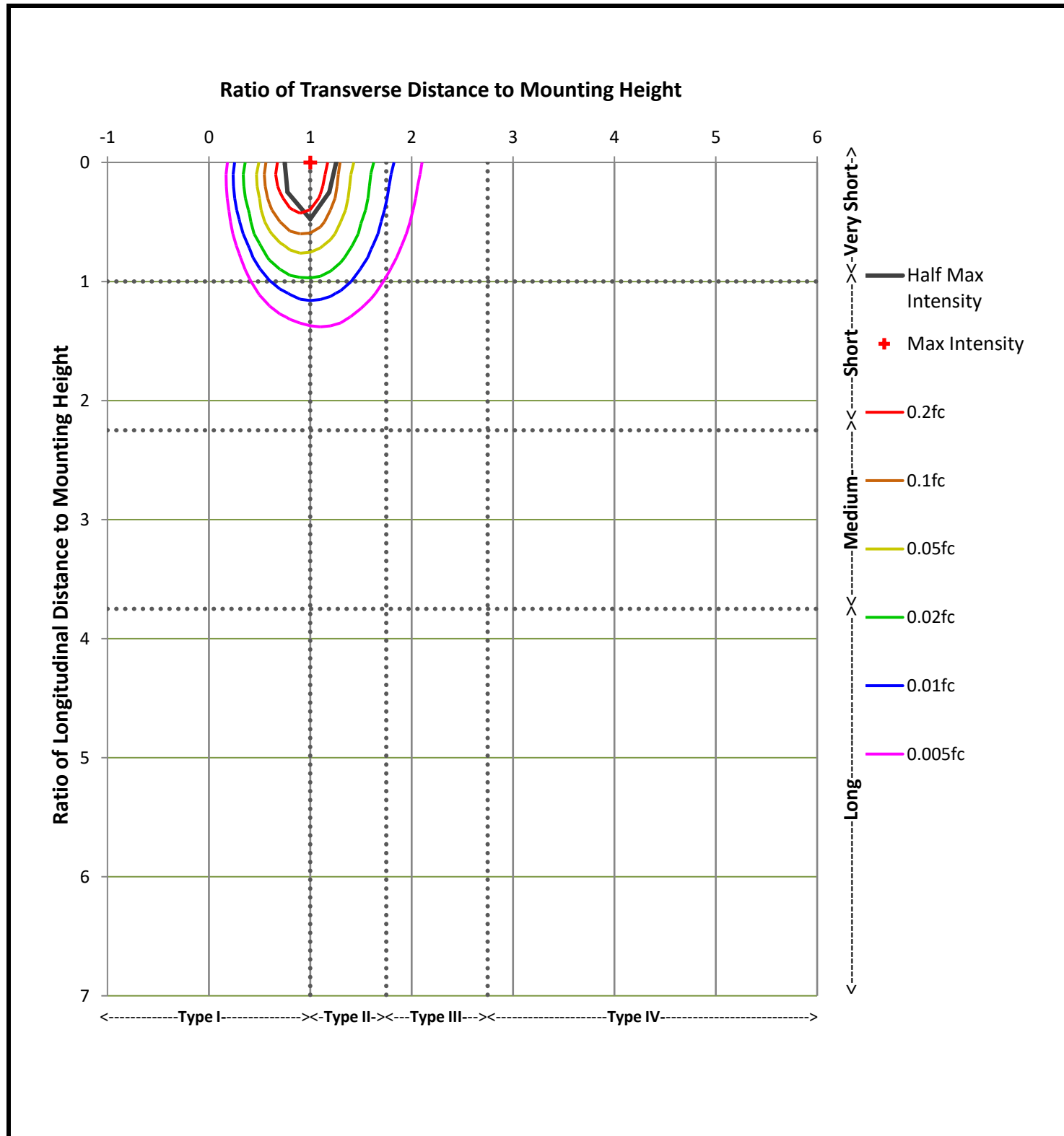
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.05658 A	6.659 W	0.981	60 Hz	13.6 %

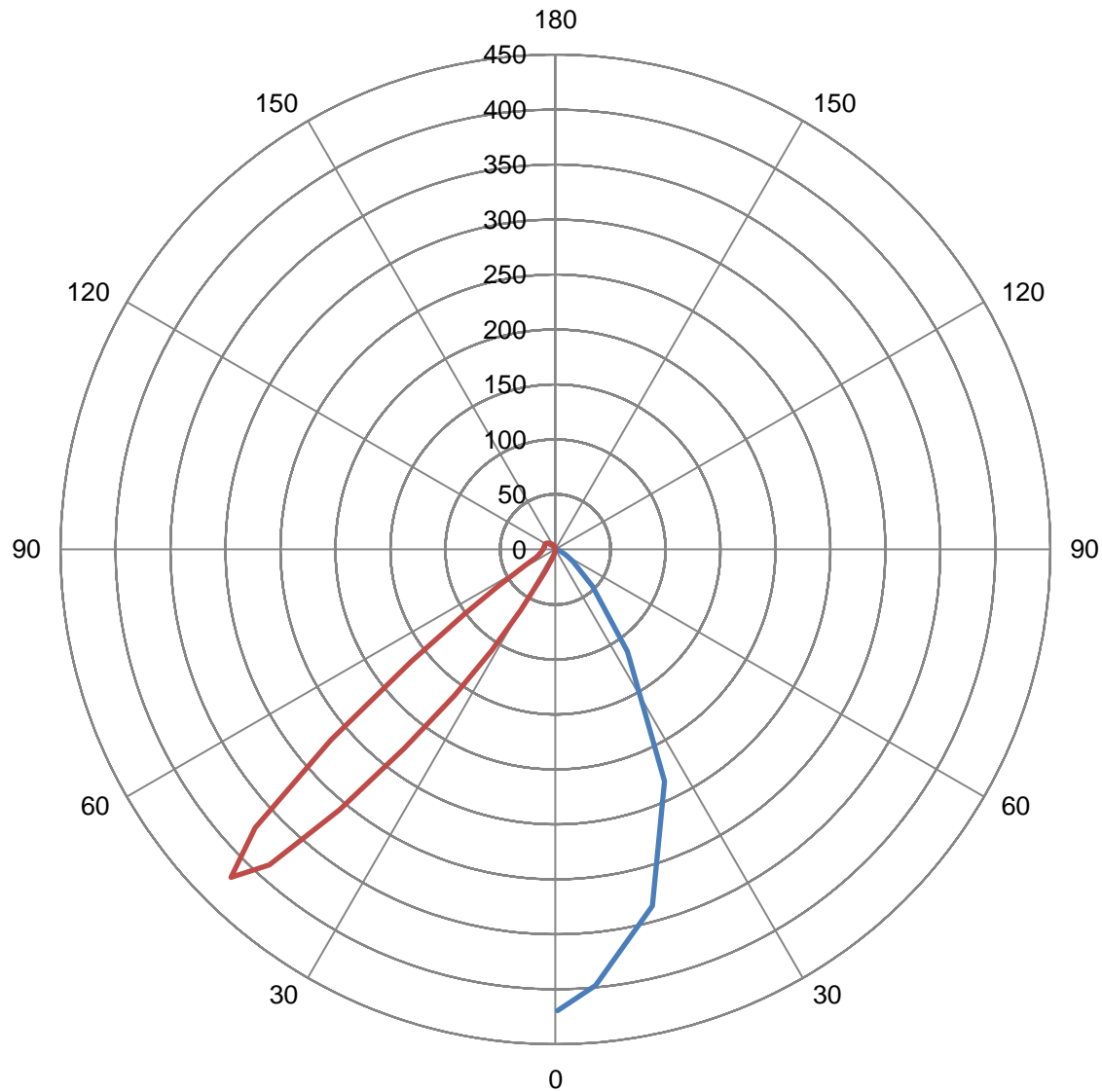
Summary of Results

IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	121 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	18.2 lm/w
BUG Rating:	B0 U2 G0	Maximum Candela:	420 Candela

ISO FootCandle Plot at 20 Feet



Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

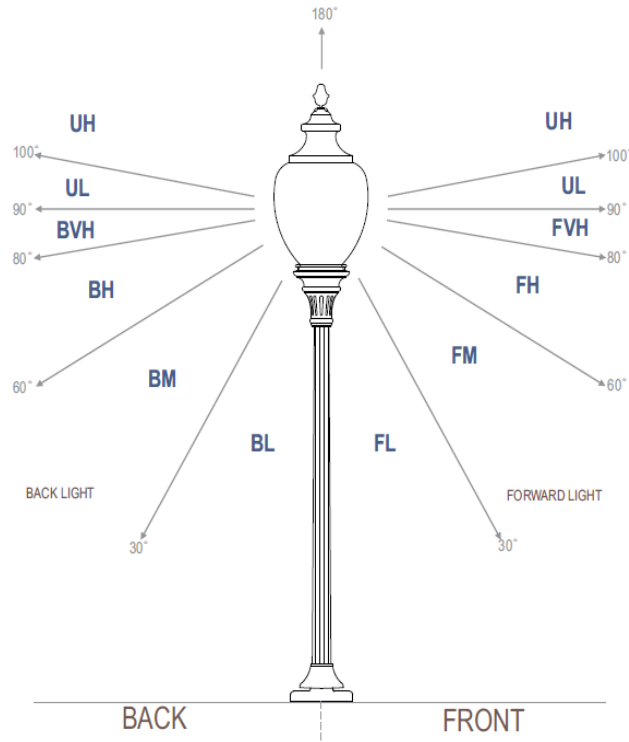
45 ° Vertical

Maximum Intensity (Candlepower): 420 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	4.0	3.3%	120-125	1.4	1.1%
5-10	0.0	0.0%	65-70	3.0	2.5%	125-130	1.2	1.0%
10-15	0.1	0.1%	70-75	2.5	2.1%	130-135	1.0	0.8%
15-20	0.3	0.3%	75-80	2.3	1.9%	135-140	0.8	0.7%
20-25	0.8	0.6%	80-85	2.1	1.7%	140-145	0.6	0.5%
25-30	2.1	1.7%	85-90	2.0	1.6%	145-150	0.5	0.4%
30-35	6.0	5.0%	90-95	1.8	1.5%	150-155	0.3	0.3%
35-40	13.1	10.8%	95-100	1.7	1.4%	155-160	0.2	0.2%
40-45	21.9	18.1%	100-105	1.7	1.4%	160-165	0.1	0.1%
45-50	23.1	19.1%	105-110	1.7	1.4%	165-170	0.1	0.0%
50-55	14.4	11.9%	110-115	1.6	1.3%	170-175	0.0	0.0%
55-60	7.1	5.9%	115-120	1.5	1.3%	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)	3.3	2.7%
FM	(30-60)	85.7	70.7%
FH	(60-80)	11.8	9.7%
FVH	(80-90)	4.1	3.3%
BL	(0-30)	0.0	0.0%
BM	(30-60)	0.0	0.0%
BH	(60-80)	0.0	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	3.5	2.9%
UH	(100-180)	12.7	10.5%
Total		121.1	100.0%
BUG Rating	B0 U2 G0		

ANSI/IES TM-30-18 Color Rendition Report

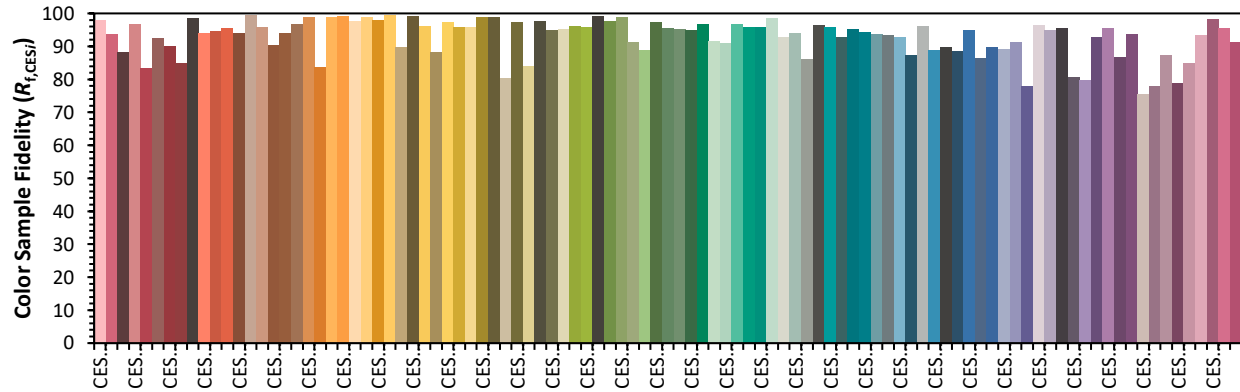
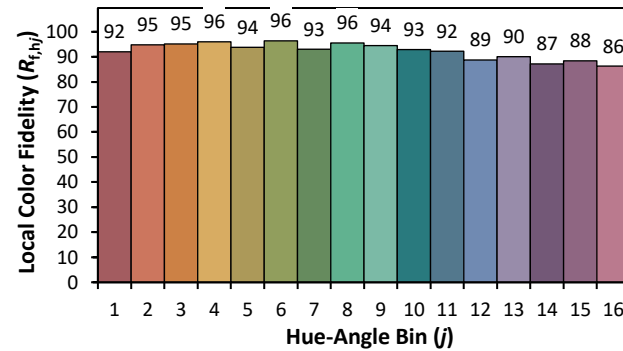
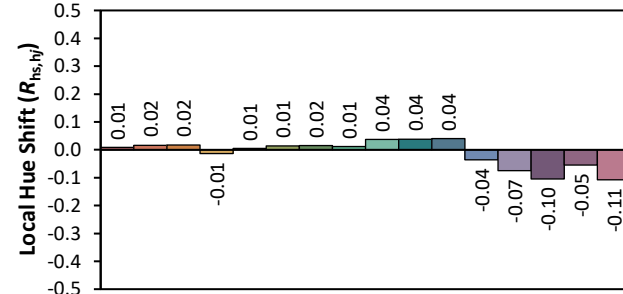
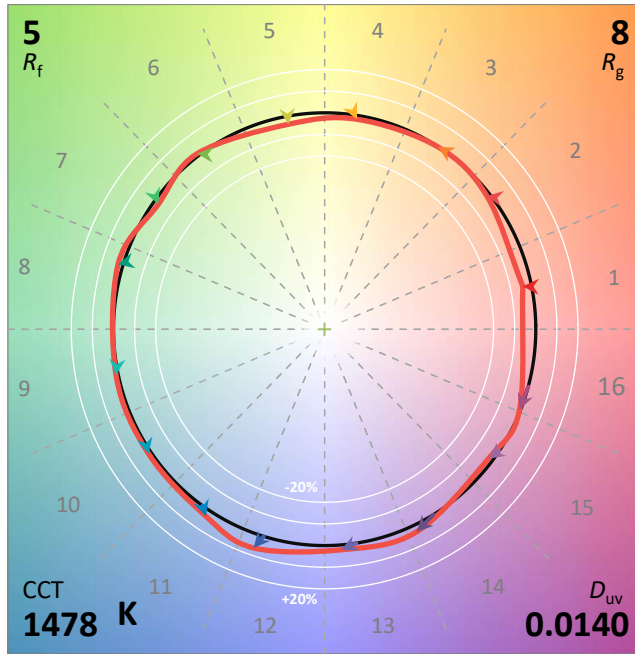
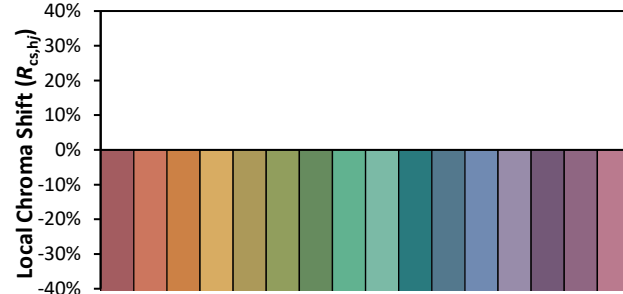
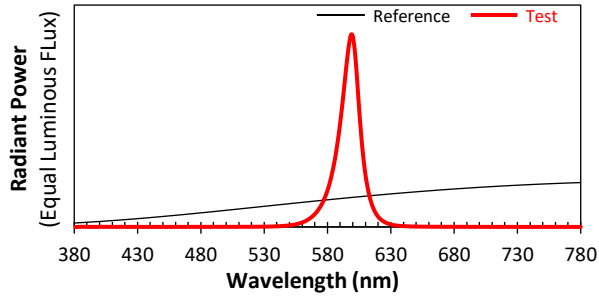
Date: 2023-02-28

Manufacturer:

B-K LIGHTING INC

Model:

MYK-LED-e203-2-WHP-SD-B2-010-MT (Amber)



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

x 0.5973

y 0.4012

u' 0.3609

v' 0.5455

CIE 13.3-1995
(CRI)

R_a -15

R_g -360

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