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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-e196-2-WHP-SD-B2-010-MT (2700K,80CRI)

Order Number
14692250
Test Number
14692250.01

Test Date
2023-02-23 - 2023-02-24

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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Table of Contents

Summary of Results	Page 3
Integrating Sphere Results	Page 4
Distribution Results	
Test Conditions / Summary of Results / ISOPlot	Page 5
Maximum Plane and Cone Plot / Zonal Lumen Summary	Page 6
IES BUG Rating	Page 7
Full TM-30 Report	Page 8

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: 423.5 Lumens
 Efficacy: 53.48 lm/w
 CCT: 2771 K
 CRI (Ra): 82.1

Distribution

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

Electrical Data at 120 VAC

Test Temperature: 25.1 °C
 Voltage: 120.0 VAC
 Current: 0.06721 A
 Power: 7.919 W
 Power Factor: 0.982
 Frequency: 60 Hz
 Current THD: 12.9 %

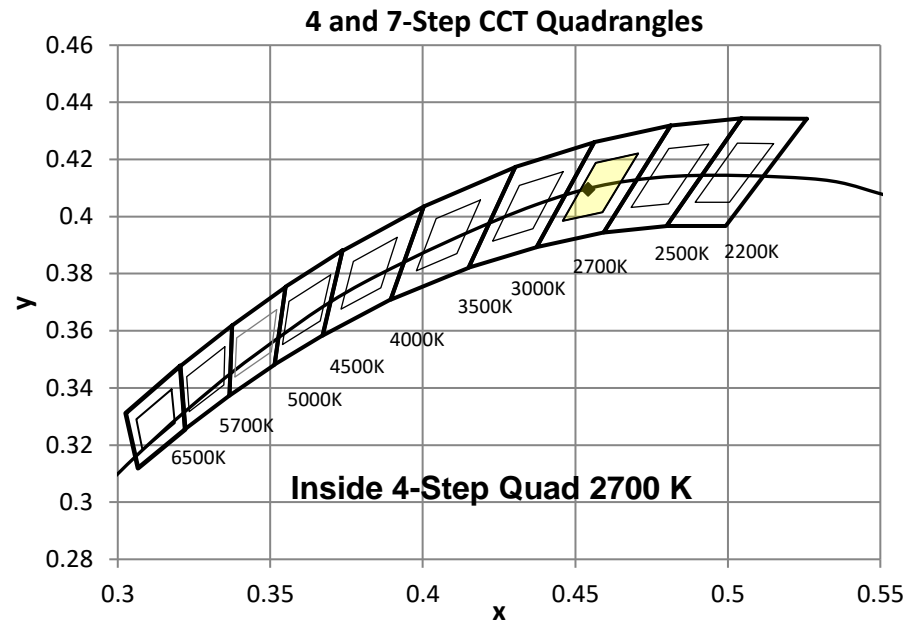
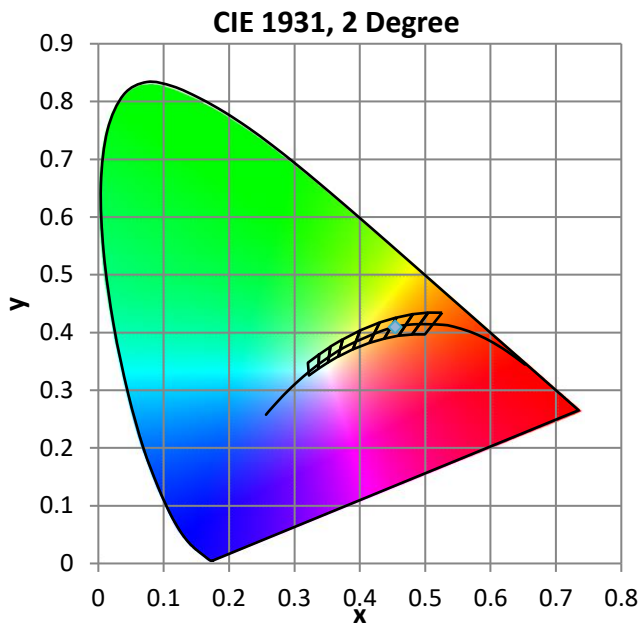
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.06721 A	7.919 W	0.982	60 Hz	12.9 %

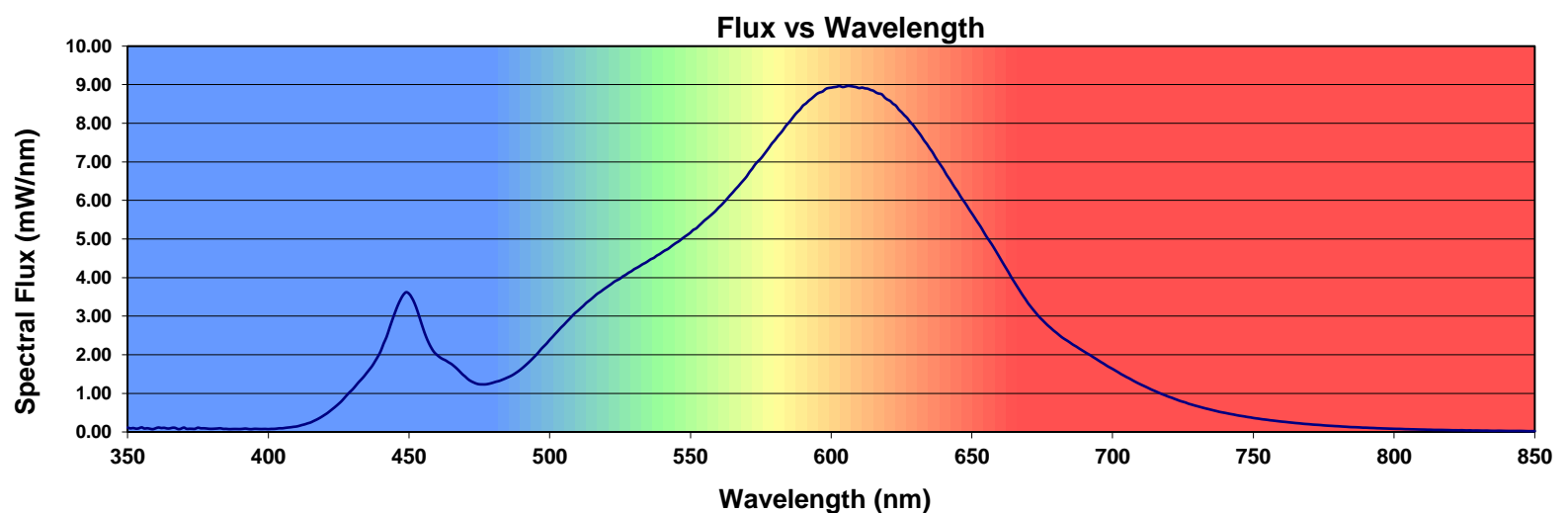
Summary of Results

Total Output:	424 Lumens	Chromaticity (x):	0.4542
Efficacy:	53.5 lm/w	Chromaticity (y):	0.4095
CCT:	2771 K	Chromaticity (u'):	0.2593
CRI (Ra):	82.1	Chromaticity (v'):	0.5261
CRI (R9):	7.5	TM-30 Rf:	84
Peak Wavelength:	606 nm	TM-30 Rg:	97
Dominant Wavelength:	555 nm	TM-30 Rcs,h1:	-11%
S/P Ratio:	1.22	Duv:	0.0001
M/P Ratio:	0.45	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
82.1	80.2	89.8	97.0	80.4	80.1	87.9	82.7	58.4	7.5	76.7	79.7	72.8	82.3	98.6	72.8



Distribution - Goniophotometer

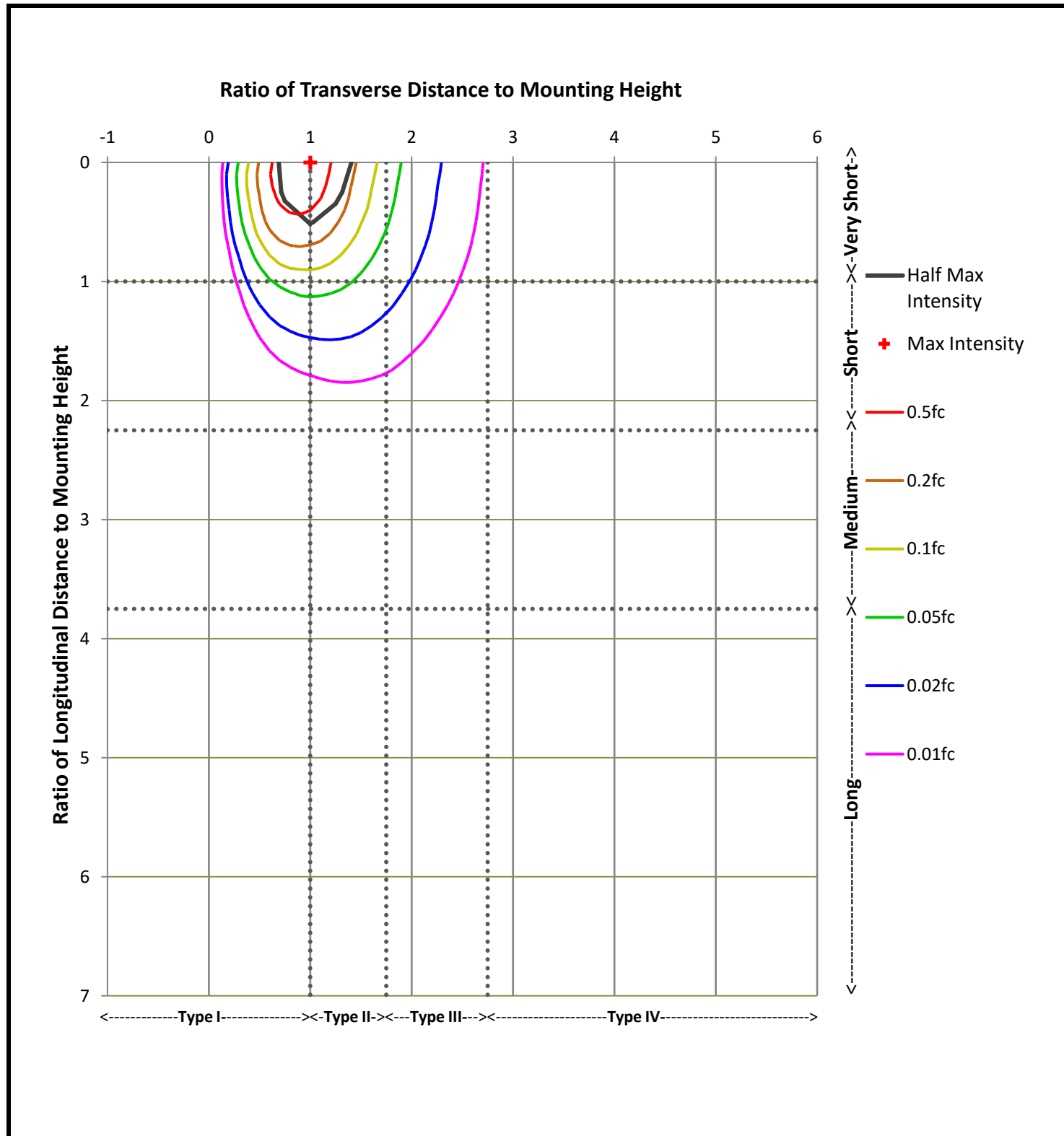
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.06723 A	7.920 W	0.982	60 Hz	12.9 %

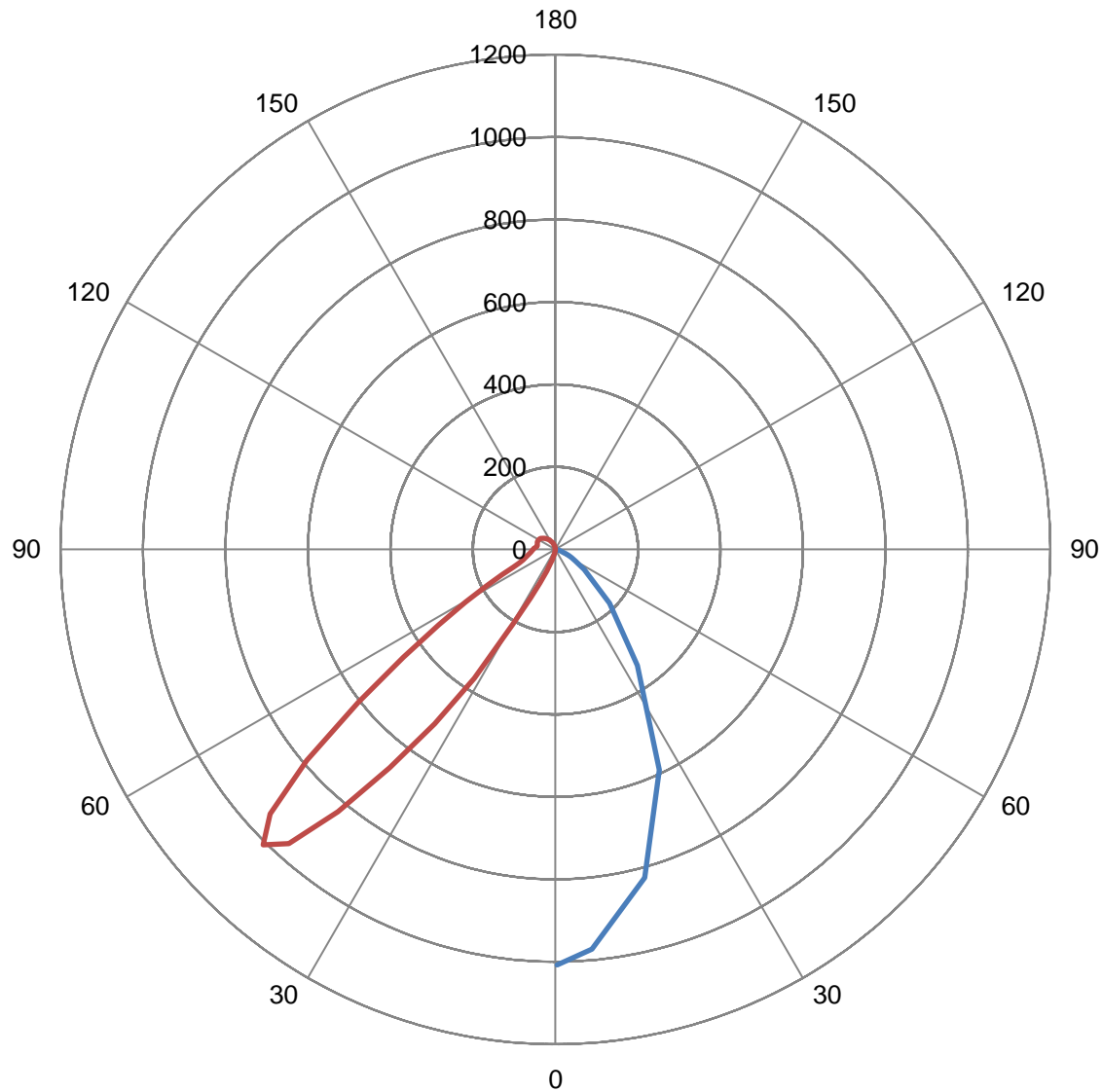
Summary of Results

IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	440 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	55.6 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	1008 Candela

ISO FootCandle Plot at 20 Feet



Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

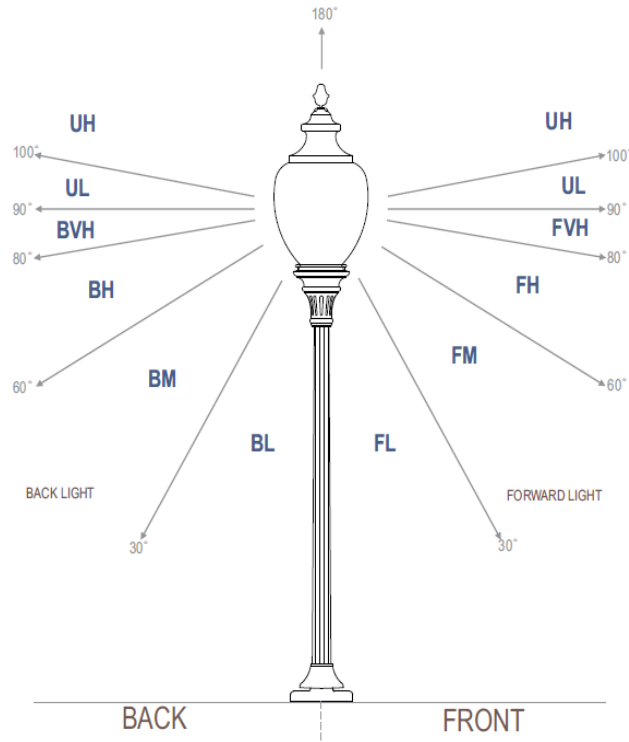
45 ° Vertical

Maximum Intensity (Candlepower): 1008 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	23.1	5.3%	120-125	6.4	1.4%
5-10	0.0	0.0%	65-70	16.8	3.8%	125-130	5.6	1.3%
10-15	0.3	0.1%	70-75	13.5	3.1%	130-135	4.8	1.1%
15-20	1.2	0.3%	75-80	11.7	2.7%	135-140	3.9	0.9%
20-25	3.1	0.7%	80-85	10.5	2.4%	140-145	3.1	0.7%
25-30	7.9	1.8%	85-90	9.5	2.1%	145-150	2.3	0.5%
30-35	20.5	4.6%	90-95	8.4	1.9%	150-155	1.6	0.4%
35-40	40.2	9.1%	95-100	7.6	1.7%	155-160	1.0	0.2%
40-45	59.5	13.5%	100-105	7.4	1.7%	160-165	0.6	0.1%
45-50	63.8	14.5%	105-110	7.4	1.7%	165-170	0.3	0.1%
50-55	50.1	11.4%	110-115	7.3	1.7%	170-175	0.0	0.0%
55-60	33.9	7.7%	115-120	7.0	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)	12.5	2.8%
FM	(30-60)	268.0	60.9%
FH	(60-80)	65.1	14.8%
FVH	(80-90)	19.9	4.5%
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)	16.0	3.6%
UH	(100-180)	58.6	13.3%
Total		440.2	100.0%
BUG Rating	B0 U3 G1		

ANSI/IES TM-30-18 Color Rendition Report

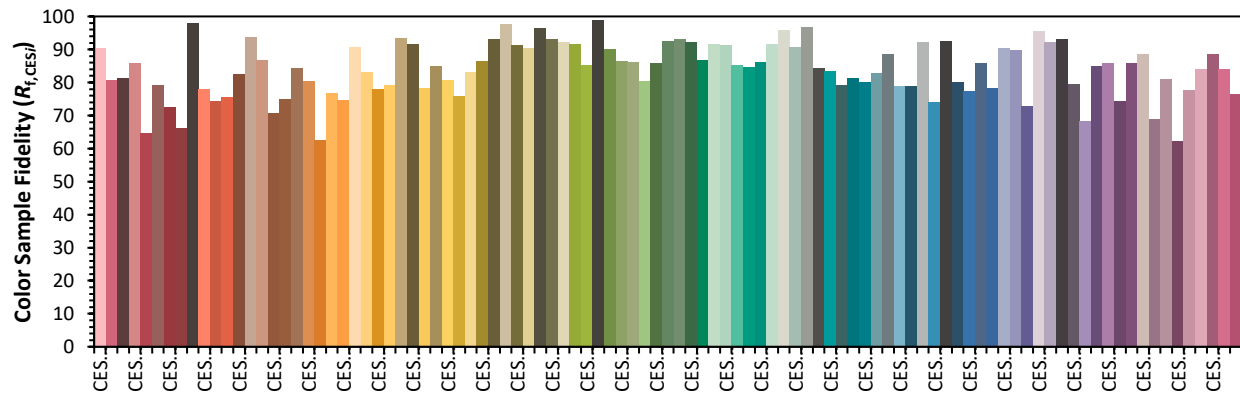
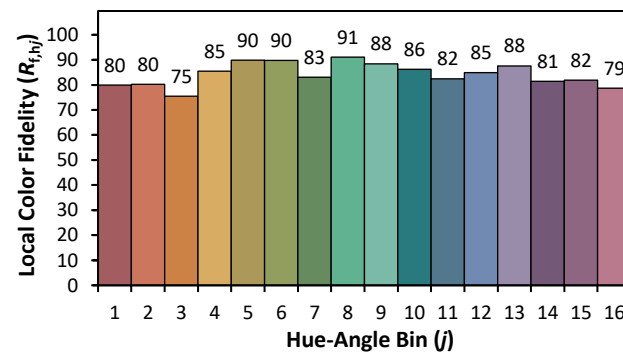
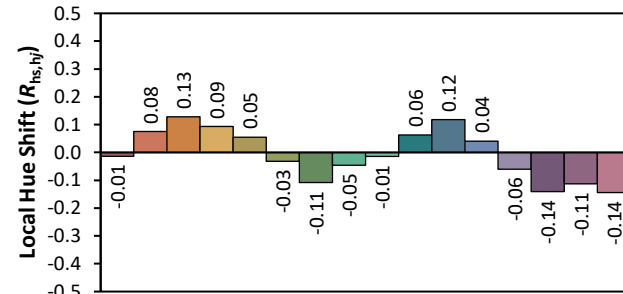
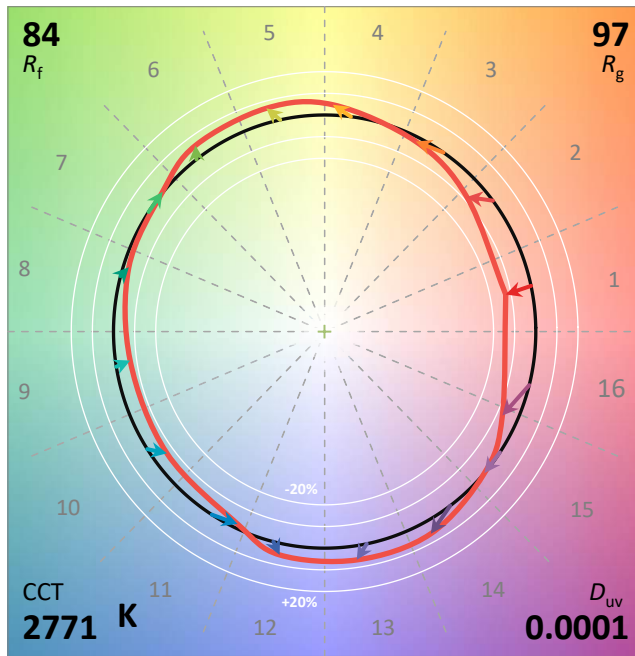
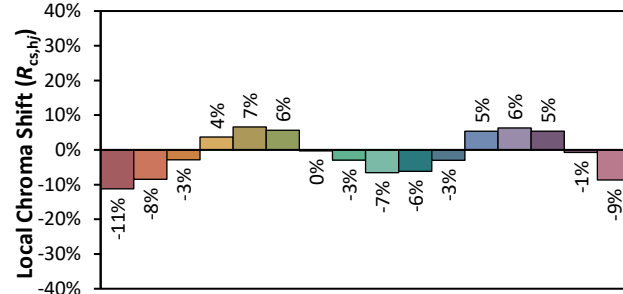
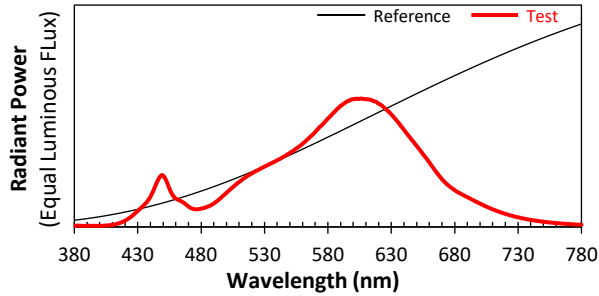
Date: 2023-02-23

Manufacturer:

B-K LIGHTING INC

Model:

MYK-LED-e196-2-WHP-SD-B2-010-MT (2700K,80CRI)



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

x 0.4542

y 0.4095

u' 0.2593

v' 0.5261

CIE 13.3-1995
(CRI)

R_a 82

R_g 8

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

Test Number 14692250.01 - Page 8 of 8