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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-4000K-1-BLP-SD-B2-010-MT

Order Number
14510829
Test Number
14510829.01

Test Date

2022-12-20 - 2022-12-22

Prepared By

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Approved By

Jeffrey Lockner, Staff Engineer

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.
Mounting: Surface – Wall
Ballast/Driver: ESS010W-0750-12

Luminaire



Luminaire Characteristics

Luminous Length: 0.00 in.
 3.500

Summary of Results

Integrating Sphere

Luminous Flux: 390.4 Lumens
 Efficacy: 48.68 lm/w
 CCT: 4128 K
 CRI (Ra): 82.0

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: 120.1 VAC
 Current: 0.06789 A
 Power: 8.020 W
 Power Factor: 0.984
 Frequency: 60 Hz
 Current THD: 12.6 %

Color Quality - Integrating Sphere

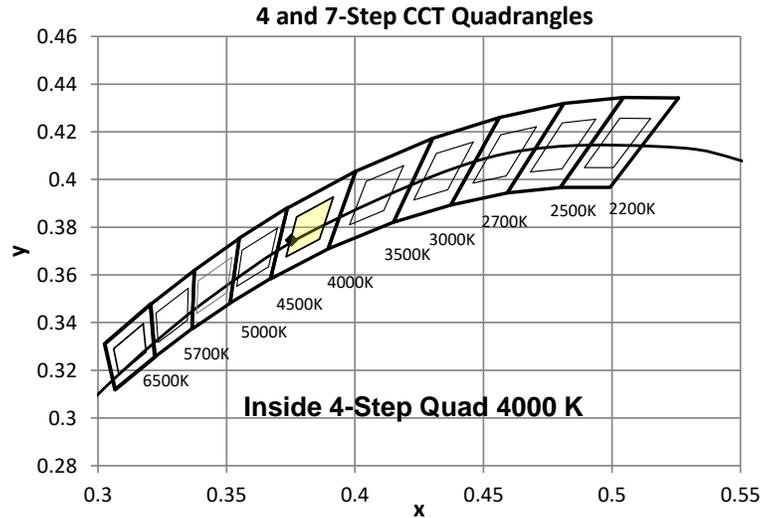
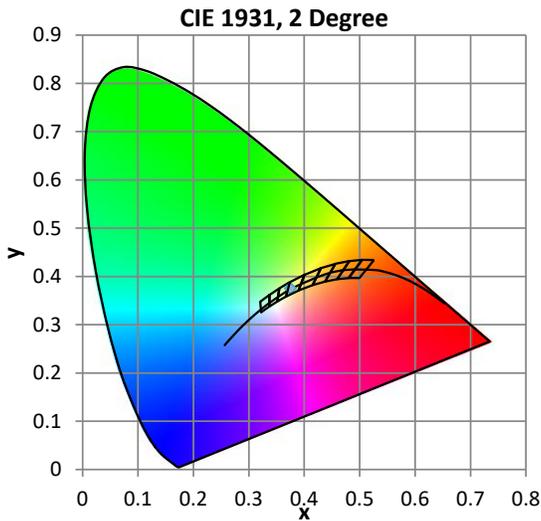
Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.06789 A	8.020 W	0.984	60 Hz	12.6 %

Summary of Results

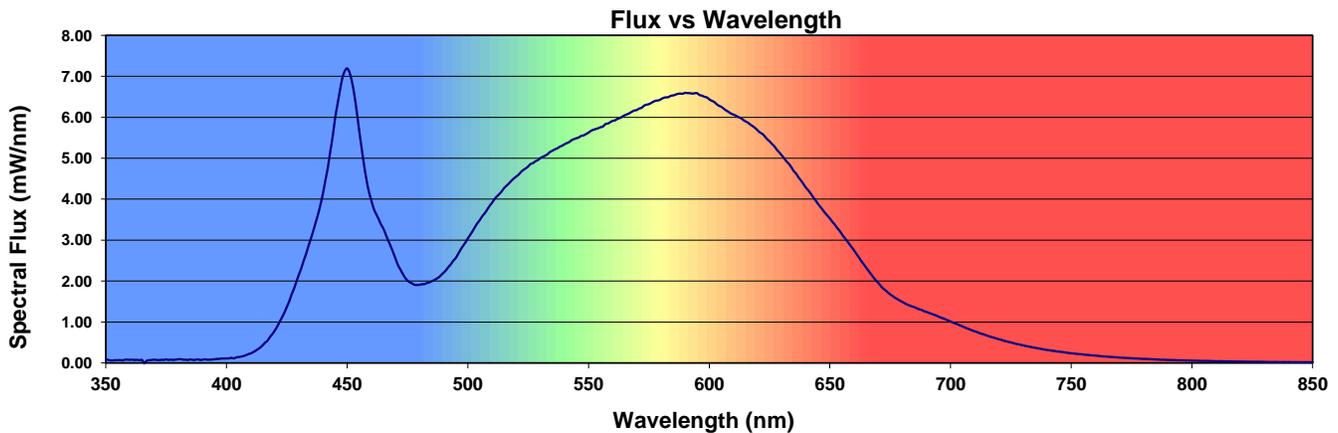
Total Output:	390 Lumens	Chromaticity (x):	0.3752
Efficacy:	48.7 lm/w	Chromaticity (y):	0.3747
CCT:	4128 K	Chromaticity (u'):	0.2225
CRI (Ra):	82.0	Chromaticity (v'):	0.4999
CRI (R9):	10.2	TM-30 Rf:	83
Peak Wavelength:	450 nm	TM-30 Rg:	97
Dominant Wavelength:	555 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.69	Duv:	0.0006
M/P Ratio:	0.68		

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
82.0	80.3	86.8	91.7	81.8	80.3	81.7	86.8	66.5	10.2	68.4	80.0	61.7	81.5	95.2	74.6



Distribution - Goniophotometer

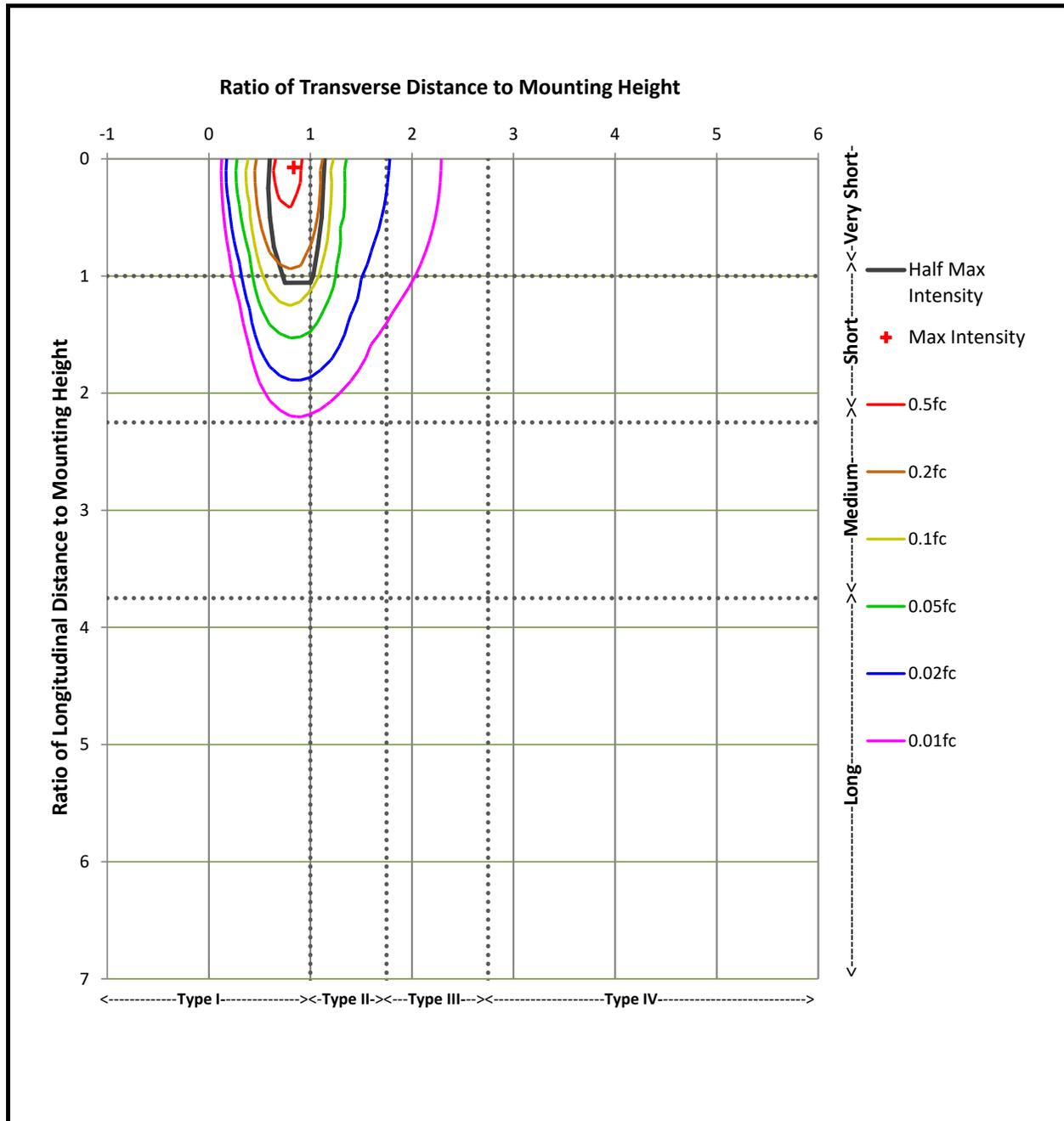
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.06803 A	8.024 W	0.983	60 Hz	12.6 %

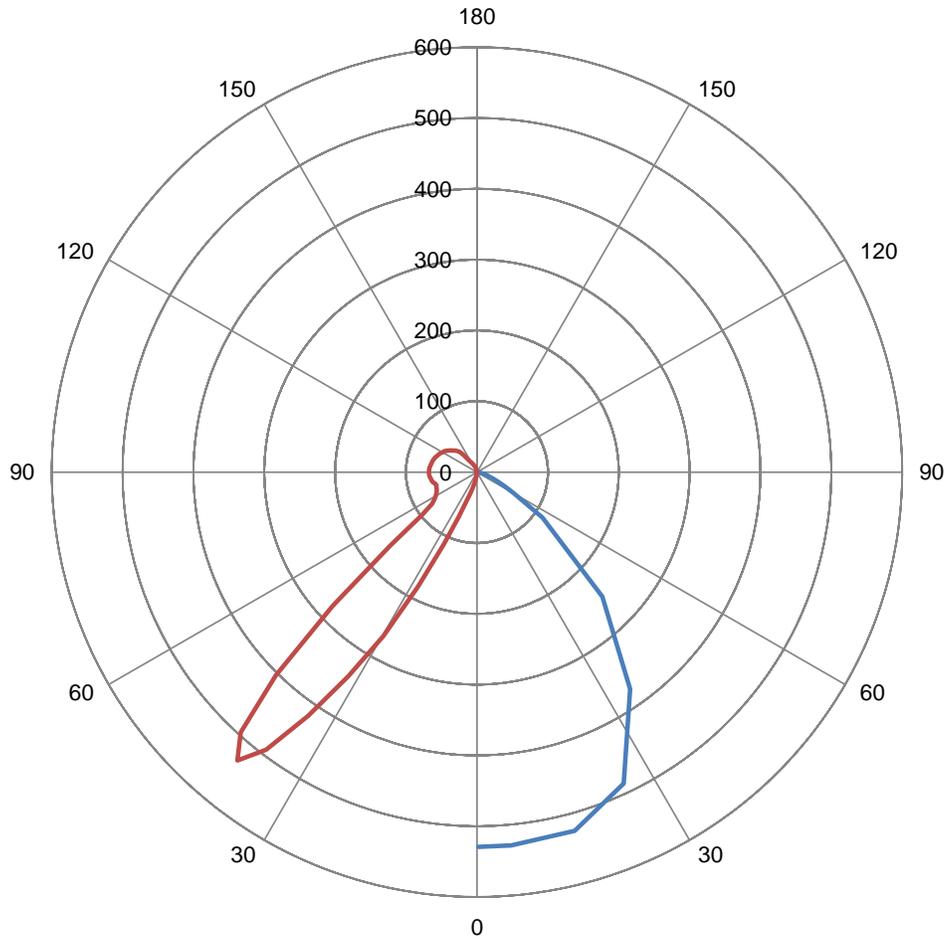
Summary of Results

IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	396 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	49.3 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	529 Candela

ISO FootCandle Plot at 20 Feet



Maximum Plane and Cone Plots of Candela



Vertical Plane Through

5 ° Lateral

Lateral Cone Through

40 ° Vertical

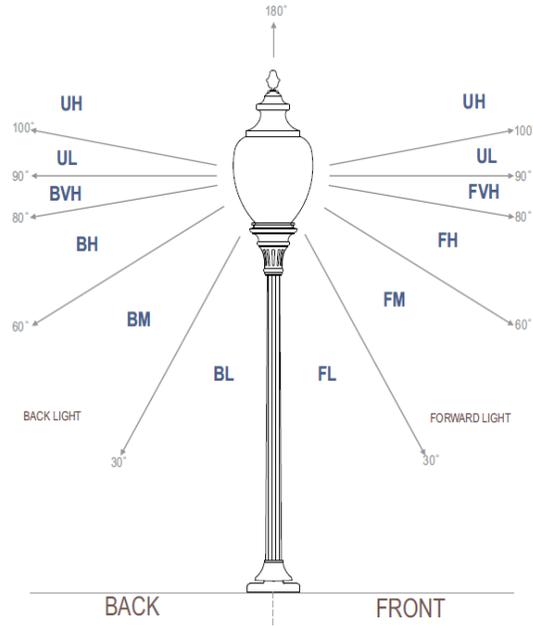
Maximum Intensity (Candlepower):

529 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	17.7	4.5%	120-125	7.7	1.9%
5-10	0.1	0.0%	65-70	13.5	3.4%	125-130	6.6	1.7%
10-15	0.5	0.1%	70-75	11.3	2.8%	130-135	5.4	1.4%
15-20	1.3	0.3%	75-80	10.7	2.7%	135-140	4.4	1.1%
20-25	3.4	0.8%	80-85	10.8	2.7%	140-145	3.2	0.8%
25-30	9.2	2.3%	85-90	11.1	2.8%	145-150	2.1	0.5%
30-35	21.0	5.3%	90-95	11.1	2.8%	150-155	1.4	0.4%
35-40	37.0	9.3%	95-100	10.8	2.7%	155-160	0.9	0.2%
40-45	49.6	12.5%	100-105	10.5	2.6%	160-165	0.4	0.1%
45-50	47.2	11.9%	105-110	10.0	2.5%	165-170	0.2	0.0%
50-55	34.5	8.7%	110-115	9.4	2.4%	170-175	0.0	0.0%
55-60	24.3	6.1%	115-120	8.6	2.2%	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)	14.4	3.6%
FM	(30-60)	213.3	53.9%
FH	(60-80)	52.9	13.4%
FVH	(80-90)	21.7	5.5%
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)	21.9	5.5%
UH	(100-180)	70.8	17.9%
Total		395.9	100.0%
BUG Rating	B0 U3 G1		