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Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
B-K Lighting Inc
Chris McCarthy
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Madera, CA 93636-9515
United States

Catalog Number
LBL-X45-LED-SD27
Order Number
12033910
Test Number
12033910.01

Test Date

2017-11-14

Prepared By

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Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Decorative white metal housing, reflector with frosted plastic lens
Lamp: One (1) white LED with optic
Mounting: Post
Ballast/Driver: One (1) ECOdrive 561/S

Luminaire



Luminaire Characteristics

Luminous Diameter: 27.00 in.
Luminous Height: 11.00 in.

Summary of Results

Roadway Classification: Type III, Very Short
Cutoff Classification: Semicutoff
BUG Rating: B1 U3 G1

Test Conditions

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.2799 A
Power: 33.32 W
Power Factor: 0.992
Frequency: 60 Hz
Current THD: 6.89 %

Tested in 30 planes left side, 30 planes right side, left and right averaged
Vertical test increments are 2.5 degrees
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

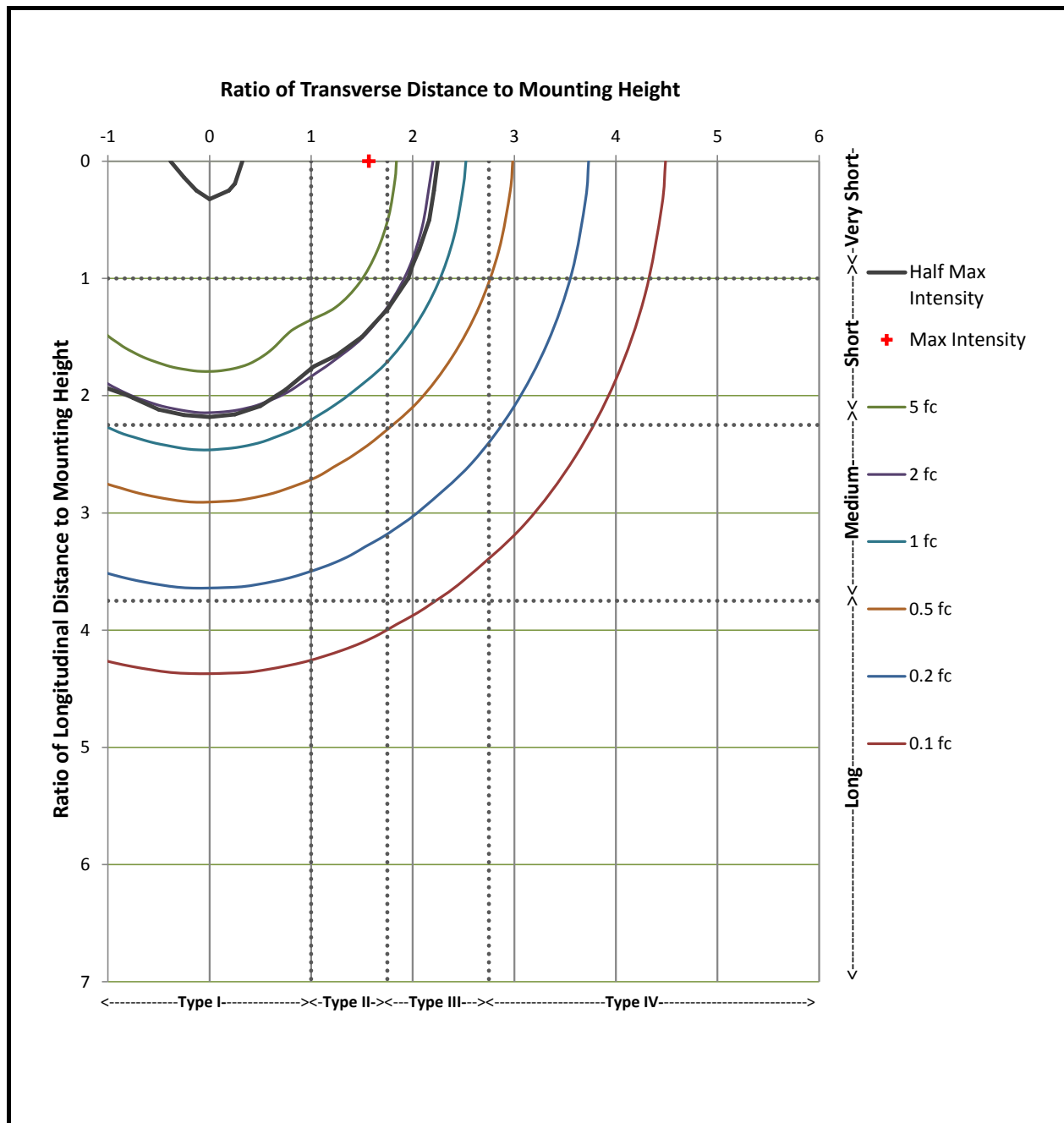
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.2799 A	33.32 W	0.992	60 Hz	6.89 %

Summary of Results

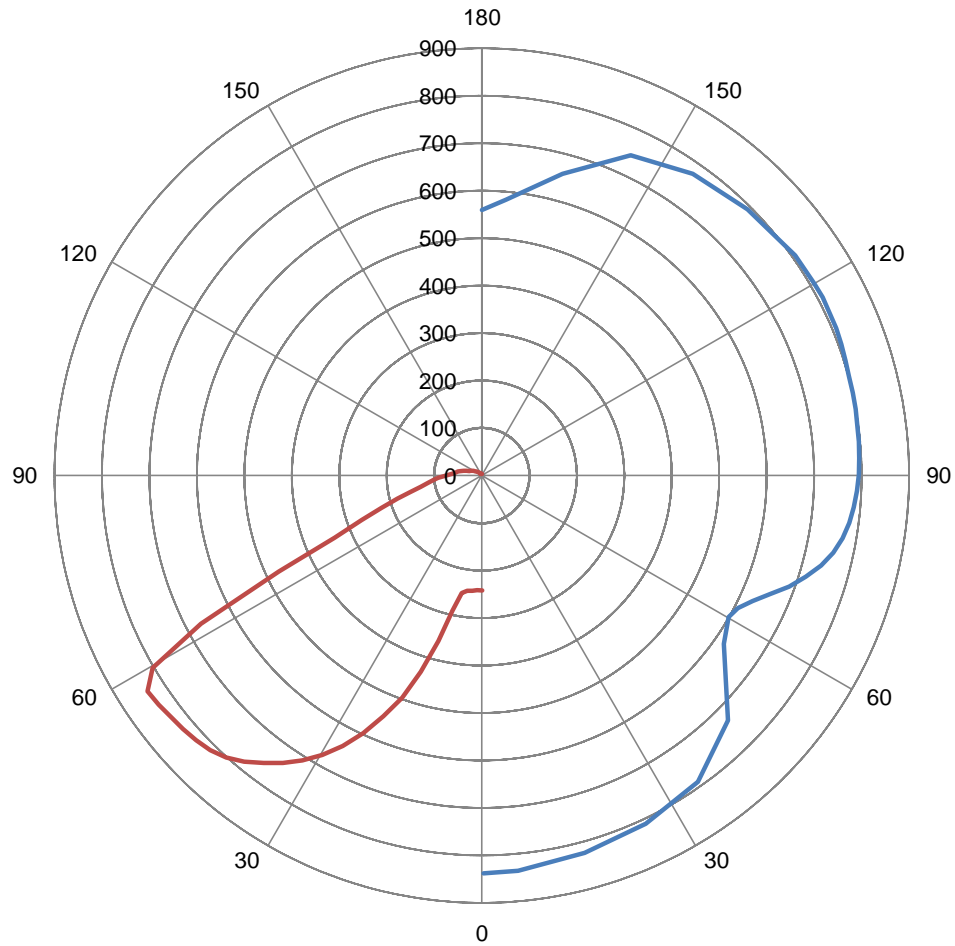
IES Roadway Classification:	Type III, Very Short	Total Lumen Output:	2949 Lumens
Cutoff Classification	Semicutoff	Luminaire Efficacy:	88.5 lm/w
BUG Rating:	B1 U3 G1	Maximum Candela:	838 Candela

ISO FootCandle Plot at 4 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

57.5 ° Vertical

Maximum Intensity (Candlepower):

838 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	6.2	0.2%	60-65	271.0	9.2%	120-125	8.3	0.3%
5-10	17.7	0.6%	65-70	157.9	5.4%	125-130	6.5	0.2%
10-15	36.1	1.2%	70-75	105.2	3.6%	130-135	4.9	0.2%
15-20	70.2	2.4%	75-80	74.2	2.5%	135-140	3.5	0.1%
20-25	112.4	3.8%	80-85	55.8	1.9%	140-145	2.4	0.1%
25-30	156.3	5.3%	85-90	43.6	1.5%	145-150	1.8	0.1%
30-35	199.0	6.7%	90-95	32.6	1.1%	150-155	1.3	0.0%
35-40	239.5	8.1%	95-100	27.1	0.9%	155-160	1.0	0.0%
40-45	275.8	9.4%	100-105	22.1	0.8%	160-165	0.7	0.0%
45-50	305.6	10.4%	105-110	16.0	0.5%	165-170	0.4	0.0%
50-55	329.9	11.2%	110-115	12.4	0.4%	170-175	0.2	0.0%
55-60	341.0	11.6%	115-120	10.4	0.4%	175-180	0.1	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)	195.0	6.6%
FM	(30-60)	839.2	28.5%
FH	(60-80)	309.6	10.5%
FVH	(80-90)	50.5	1.7%
BL	(0-30)	203.8	6.9%
BM	(30-60)	851.6	28.9%
BH	(60-80)	298.8	10.1%
BVH	(80-90)	48.9	1.7%
UL	(90-100)	59.7	2.0%
UH	(100-180)	92.0	3.1%
Total		2949.1	100.0%
BUG Rating	B1 U3 G1		