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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
BPM-SD24-LED-x45-A
Order Number
11609603
Test Number
11609603.12

Test Date

2017-07-12

Prepared By

Tony Rubio, Technician

Approved By

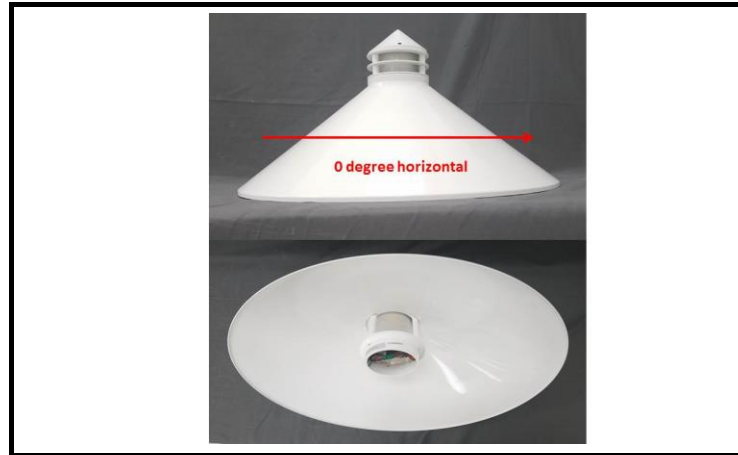
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Decorative white metal housing, reflector, and diffuse lens.
Lamp: One (1) White LEDs
Mounting: Post
Ballast/Driver: One (1) eldoLED ECOdrive 561/S

Luminaire



Luminaire Characteristics

Luminous Diameter: 24.25 in.
Luminous Height: 10.00 in.

Summary of Results

Roadway Classification: Type II, Short
Cutoff Classification: Cutoff
BUG Rating: B1 U2 G0

Test Conditions

Test Temperature: 24.5 °C
Voltage: 120.1 VAC
Current: 0.2923 A
Power: 34.80 W
Power Factor: 0.992
Frequency: 60 Hz
Current THD: 7.05 %

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
24.5 °C	120.1 VAC	0.2923 A	34.80 W	0.992	60 Hz	7.05 %

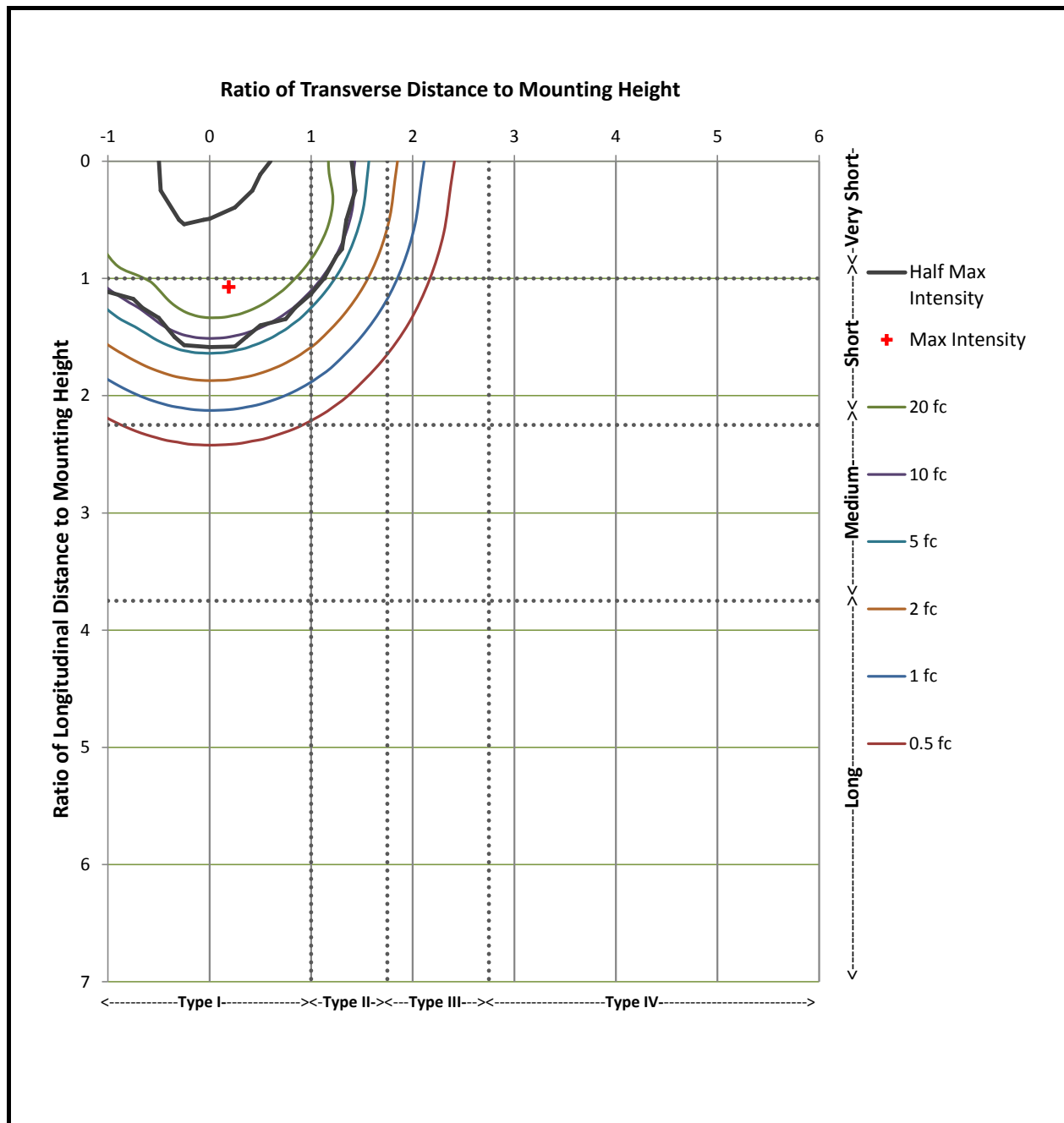
Summary of Results

IES Roadway Classification:
Cutoff Classification
BUG Rating:

Type II, Short
Cutoff
B1 U2 G0

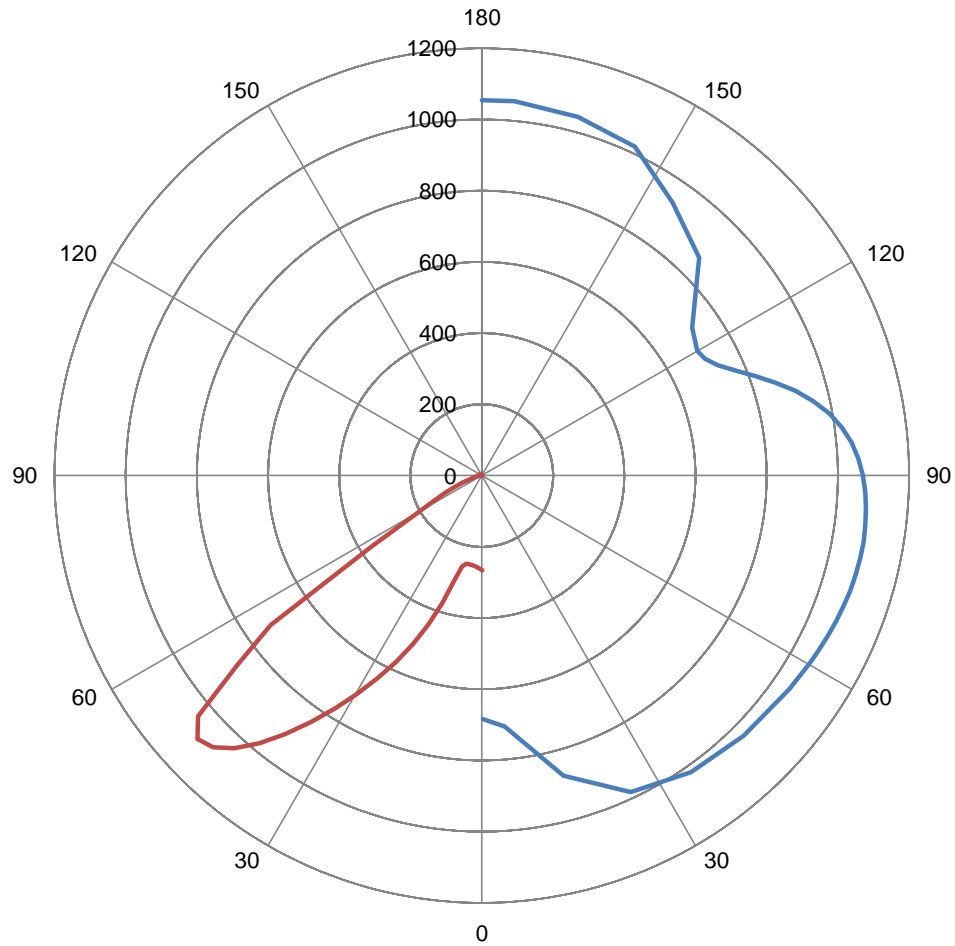
Total Lumen Output: 2257 Lumens
Luminaire Efficacy: 64.9 lm/w
Maximum Candela: 1088 Candela

ISO FootCandle Plot at 3 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

80 ° Lateral

Lateral Cone Through

47.5 ° Vertical

Maximum Intensity (Candlepower):

1088 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	6.5	0.3%	60-65	75.0	3.3%	120-125	2.7	0.1%
5-10	18.1	0.8%	65-70	41.2	1.8%	125-130	1.9	0.1%
10-15	31.9	1.4%	70-75	21.3	0.9%	130-135	1.2	0.1%
15-20	59.2	2.6%	75-80	11.3	0.5%	135-140	0.9	0.0%
20-25	99.9	4.4%	80-85	7.6	0.3%	140-145	0.7	0.0%
25-30	148.4	6.6%	85-90	4.9	0.2%	145-150	0.5	0.0%
30-35	205.8	9.1%	90-95	2.5	0.1%	150-155	0.4	0.0%
35-40	270.7	12.0%	95-100	2.6	0.1%	155-160	0.3	0.0%
40-45	336.2	14.9%	100-105	2.9	0.1%	160-165	0.2	0.0%
45-50	381.2	16.9%	105-110	3.1	0.1%	165-170	0.1	0.0%
50-55	335.4	14.9%	110-115	3.2	0.1%	170-175	0.0	0.0%
55-60	176.0	7.8%	115-120	3.1	0.1%	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)	191.4	8.5%
FM	(30-60)	878.4	38.9%
FH	(60-80)	73.3	3.2%
FVH	(80-90)	6.2	0.3%
BL	(0-30)	172.6	7.6%
BM	(30-60)	827.0	36.6%
BH	(60-80)	75.5	3.3%
BVH	(80-90)	6.3	0.3%
UL	(90-100)	5.1	0.2%
UH	(100-180)	21.2	0.9%
Total		2257.1	100.0%
BUG Rating	B1 U2 G0		