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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
CTB-LED-X54

Order Number

11943054

Test Number

11943054.02

Test Date

2017-09-08

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, diffuse lens, and standing pole

Lamp: One (1) White LED

Mounting: Post

Ballast/Driver: One (1) Thomas research products LED12W120-036-CO350-LT

Luminaire



Luminaire Characteristics

Luminous Diameter: 5.00 in.

Luminous Height: 1.500 in.

Summary of Results

Roadway Classification: Type VS, Medium
Cutoff Classification: Noncutoff
BUG Rating: B0 U3 G1

Test Conditions

Test Temperature: 24.9 °C
Voltage: 120.1 VAC
Current: 0.08629 A
Power: 10.22 W
Power Factor: 0.987
Frequency: 60 Hz
Current THD: 15.2 %

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
24.9 °C	120.1 VAC	0.08629 A	10.22 W	0.987	60 Hz	15.2 %

Summary of Results

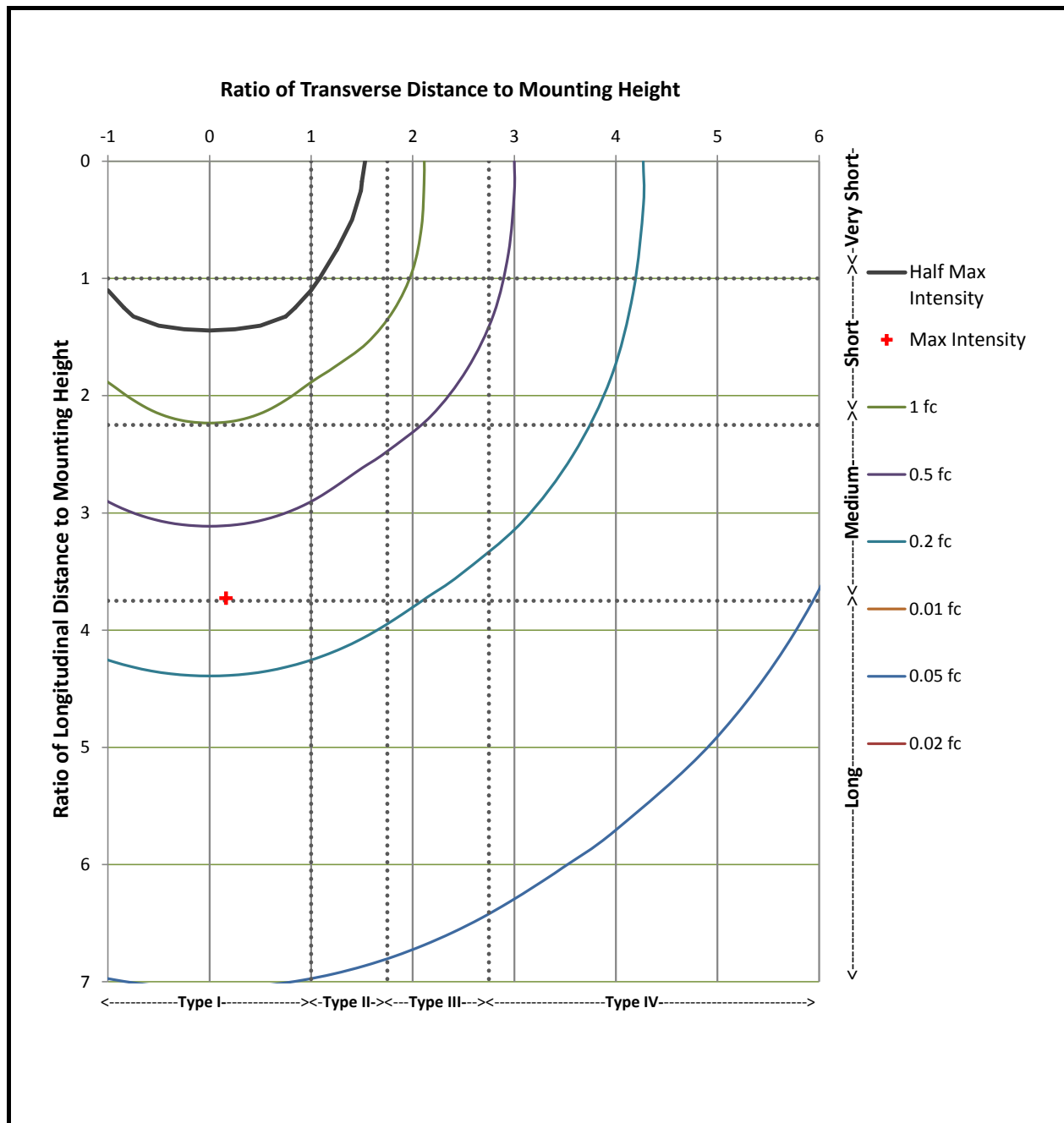
IES Roadway Classification:
Cutoff Classification
BUG Rating:

Type VS, Medium
Noncutoff
B0 U3 G1

Total Lumen Output:
Luminaire Efficacy:
Maximum Candela:

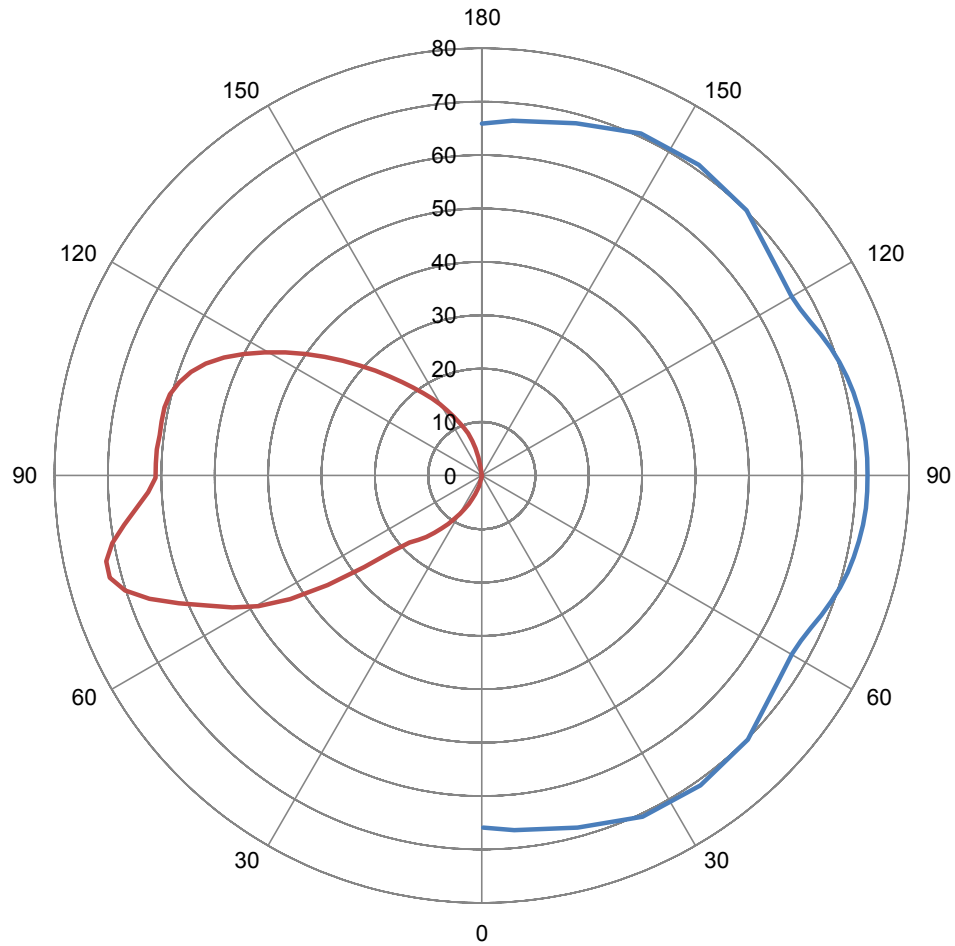
495 Lumens
48.4 lm/w
72 Candela

ISO FootCandle Plot at 2 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

87.5 ° Lateral

Lateral Cone Through

75 ° Vertical

Maximum Intensity (Candlepower):

72 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	24.4	4.9%	120-125	18.0	3.6%
5-10	0.0	0.0%	65-70	30.0	6.1%	125-130	13.5	2.7%
10-15	0.1	0.0%	70-75	35.1	7.1%	130-135	10.1	2.0%
15-20	0.5	0.1%	75-80	37.0	7.5%	135-140	7.4	1.5%
20-25	1.0	0.2%	80-85	35.9	7.2%	140-145	5.4	1.1%
25-30	1.8	0.4%	85-90	34.3	6.9%	145-150	3.9	0.8%
30-35	2.8	0.6%	90-95	33.6	6.8%	150-155	2.7	0.5%
35-40	4.1	0.8%	95-100	33.2	6.7%	155-160	1.8	0.4%
40-45	5.6	1.1%	100-105	32.4	6.5%	160-165	1.1	0.2%
45-50	7.5	1.5%	105-110	30.8	6.2%	165-170	0.5	0.1%
50-55	11.8	2.4%	110-115	27.6	5.6%	170-175	0.1	0.0%
55-60	18.5	3.7%	115-120	23.0	4.7%	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)	1.7	0.3%
FM	(30-60)	25.2	5.1%
FH	(60-80)	63.2	12.8%
FVH	(80-90)	35.1	7.1%
BL	(0-30)	1.7	0.3%
BM	(30-60)	25.2	5.1%
BH	(60-80)	63.2	12.8%
BVH	(80-90)	35.1	7.1%
UL	(90-100)	66.8	13.5%
UH	(100-180)	178.2	36.0%
Total		495.3	100.0%
BUG Rating	B0 U3 G1		