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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**  
**YO-LED-X85-WHP-WW**

Order Number  
11827519  
Test Number  
11827519.09

Test Date

2017-06-21

Prepared By

Khang Nguyen, Technician

Approved By

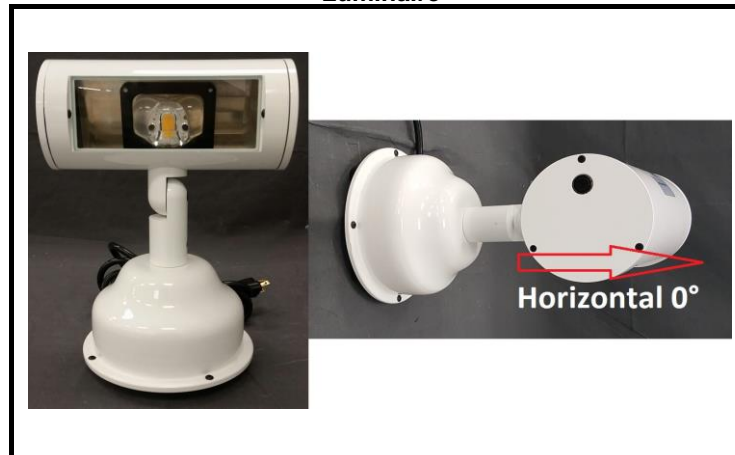
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White metal mount with cylindrical housing and clear glass lens.  
**Lamp:** One (1) white LED with optic attached  
**Mounting:** Surface - Ground  
**Ballast/Driver:** ECOdrive 561/S

#### Luminaire



#### Luminaire Characteristics

Luminous Length: 6.50 in.  
Luminous Width: 2.500 in.

#### Summary of Results

Roadway Classification:	Type II, Short
Cutoff Classification:	Cutoff
BUG Rating:	B1 U1 G0

#### Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.1906 A
Power:	22.61 W
Power Factor:	0.988
Frequency:	60 Hz
Current THD:	7.21 %

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
25.0 °C	120.1 VAC	0.1906 A	22.61 W	0.988	60 Hz	7.21 %

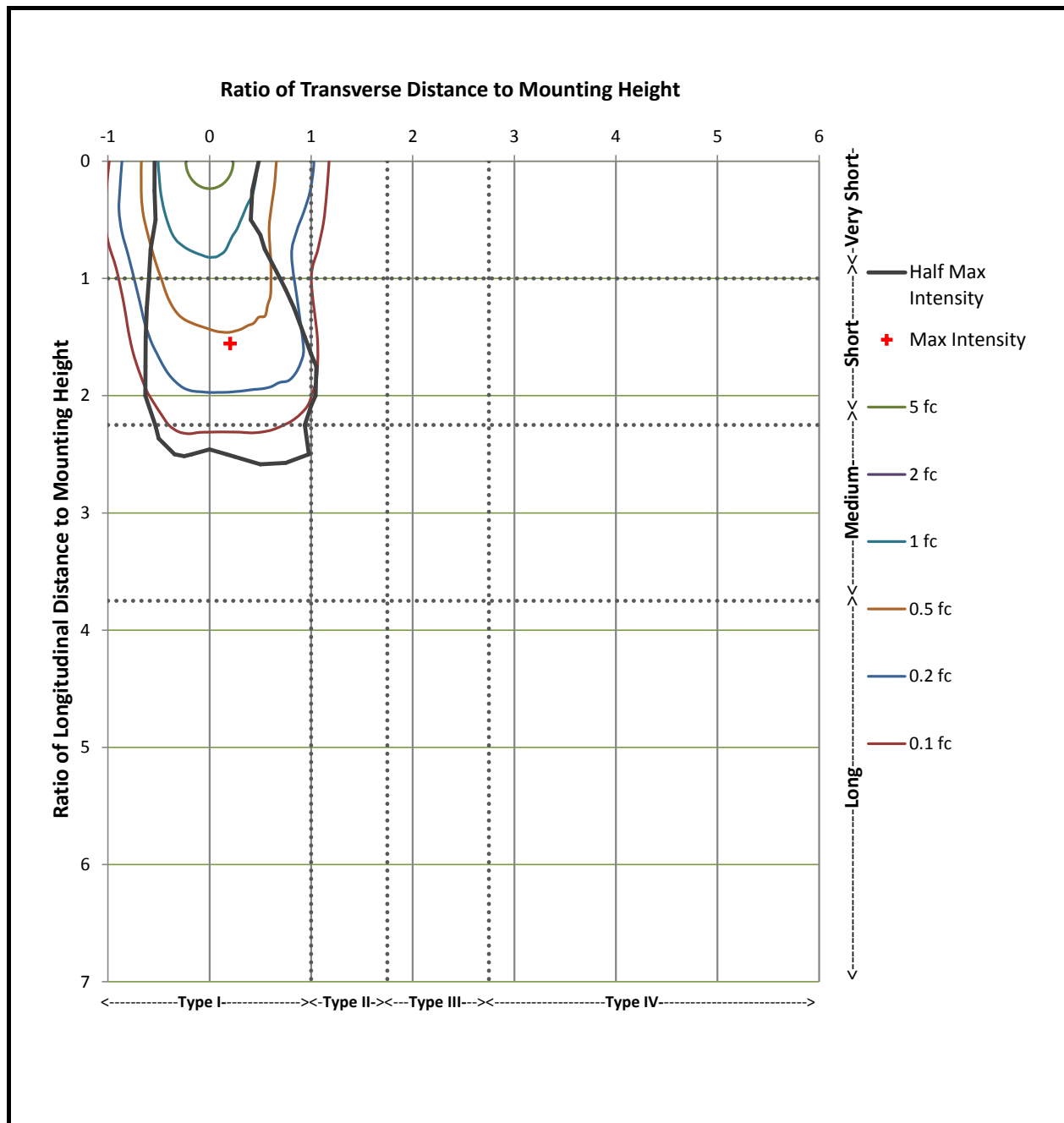
### Summary of Results

IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type II, Short  
Cutoff  
B1 U1 G0

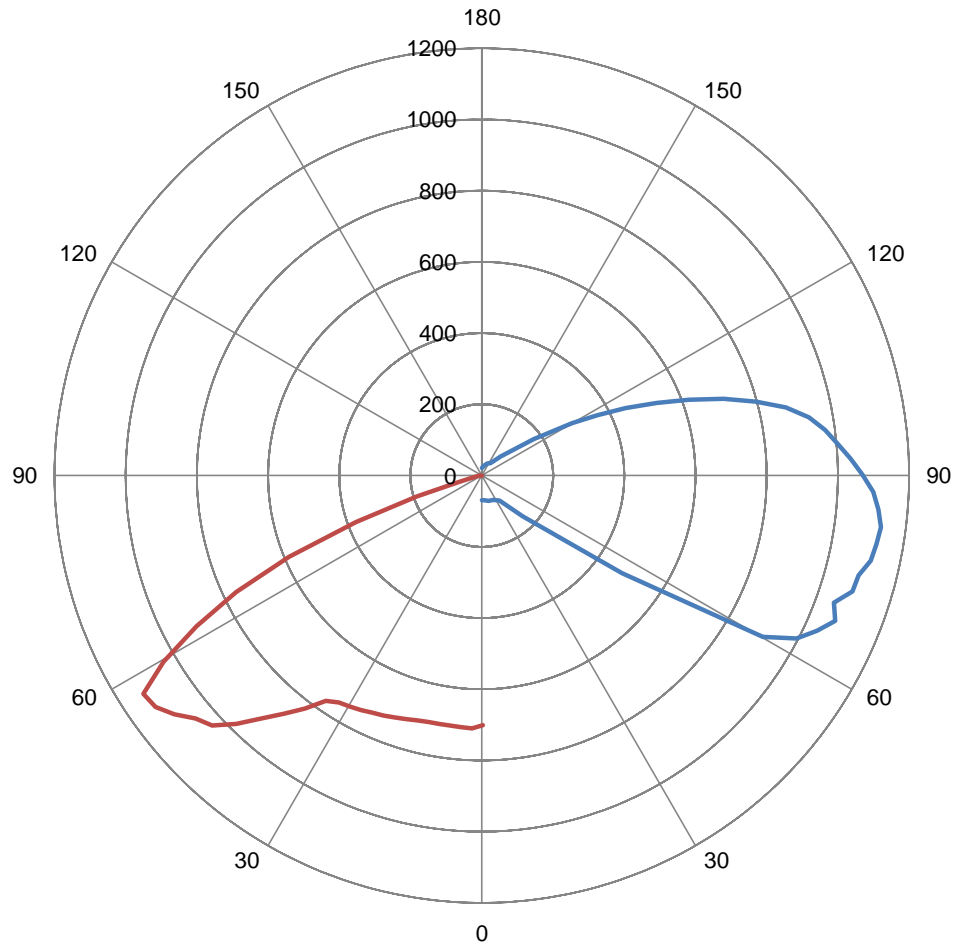
Total Lumen Output: 1965 Lumens  
Luminaire Efficacy: 86.9 lm/w  
Maximum Candela: 1131 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

82.5 ° Lateral

Lateral Cone Through

57.5 ° Vertical

Maximum Intensity (Candlepower):

1131 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	17.8	0.9%	60-65	147.3	7.5%	120-125	0.0	0.0%
5-10	50.2	2.6%	65-70	94.0	4.8%	125-130	0.0	0.0%
10-15	82.9	4.2%	70-75	37.6	1.9%	130-135	0.0	0.0%
15-20	114.3	5.8%	75-80	12.8	0.6%	135-140	0.0	0.0%
20-25	142.4	7.2%	80-85	6.3	0.3%	140-145	0.0	0.0%
25-30	162.3	8.3%	85-90	2.8	0.1%	145-150	0.0	0.0%
30-35	171.8	8.7%	90-95	1.2	0.1%	150-155	0.0	0.0%
35-40	179.2	9.1%	95-100	0.4	0.0%	155-160	0.0	0.0%
40-45	187.9	9.6%	100-105	0.1	0.0%	160-165	0.0	0.0%
45-50	191.7	9.8%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	185.6	9.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	176.6	9.0%	115-120	0.0	0.0%	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)	269.6	13.7%
FM	(30-60)	581.8	29.6%
FH	(60-80)	187.4	9.5%
FVH	(80-90)	5.2	0.3%
BL	(0-30)	300.3	15.3%
BM	(30-60)	511.0	26.0%
BH	(60-80)	104.2	5.3%
BVH	(80-90)	3.9	0.2%
UL	(90-100)	1.6	0.1%
UH	(100-180)	0.1	0.0%
Total		1965.2	100.0%
<b>BUG Rating</b>	<b>B1 U1 G0</b>		