



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Outdoor Distribution Test Report

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

**Prepared For**  
**B-K Lighting Inc**

Chris McCarthy  
40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

**Catalog Number**  
**YO-LED-X45-WHP-WW**

Order Number  
11827519  
Test Number  
11827519.04

Test Date

2017-06-22

Prepared By

Khang Nguyen, Technician

Approved By

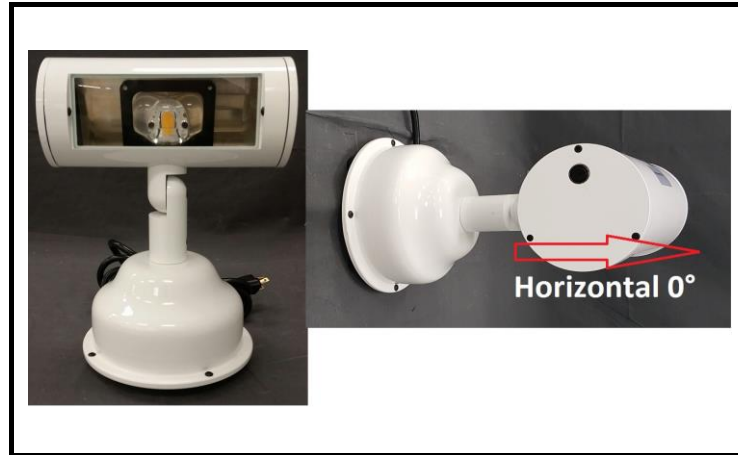
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.  
This report must not be used by the client to claim product certification, approval, or endorsement by  
NVLAP, NIST, or any agency of the Federal Government.



**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 G1

**Test Conditions**

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.2799 A
Power:	33.29 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	7.63 %

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	120.0 VAC	0.2799 A	33.29 W	0.991	60 Hz	7.63 %

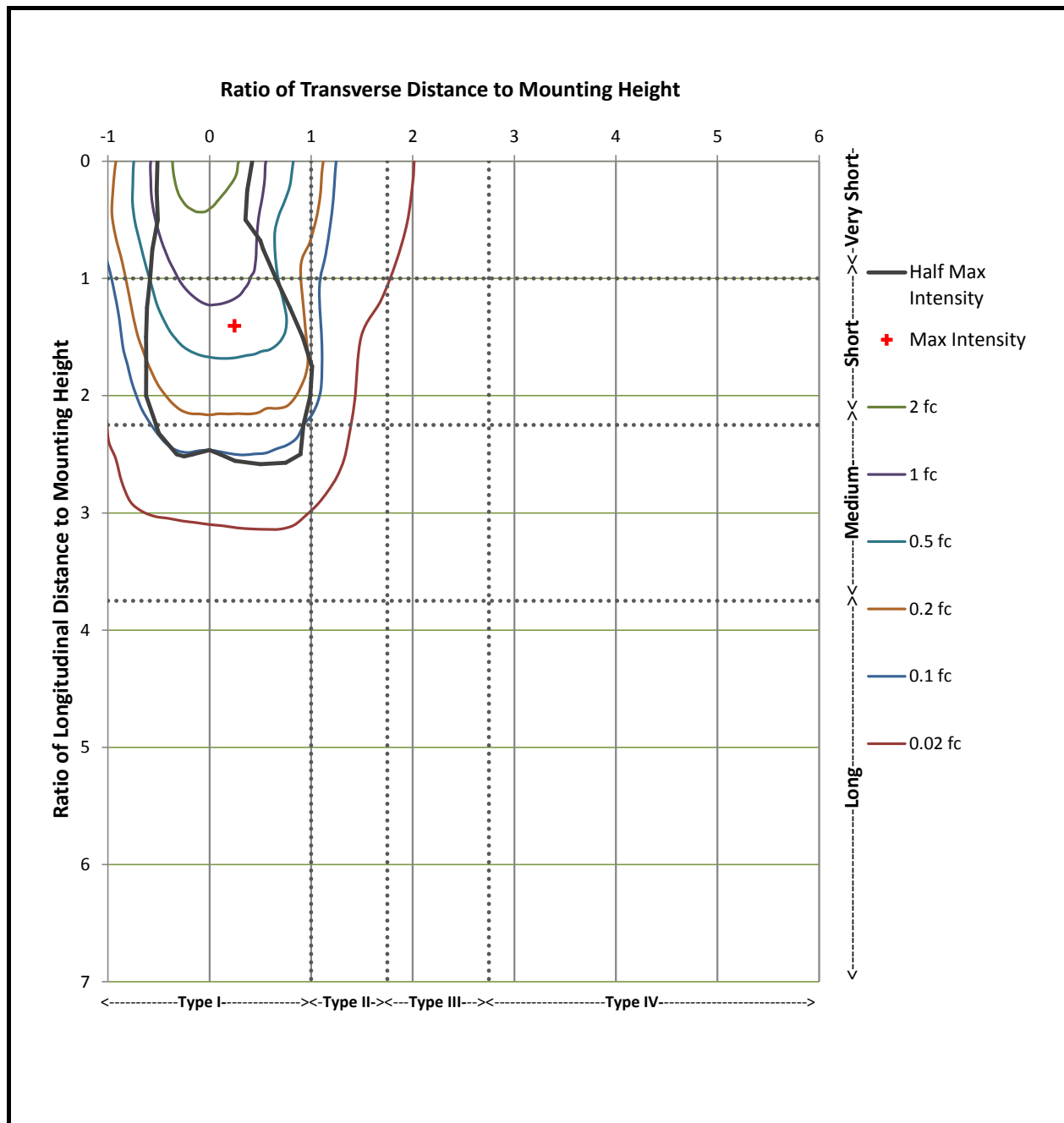
### Summary of Results

IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type II, Short  
Cutoff  
B1 U1 G1

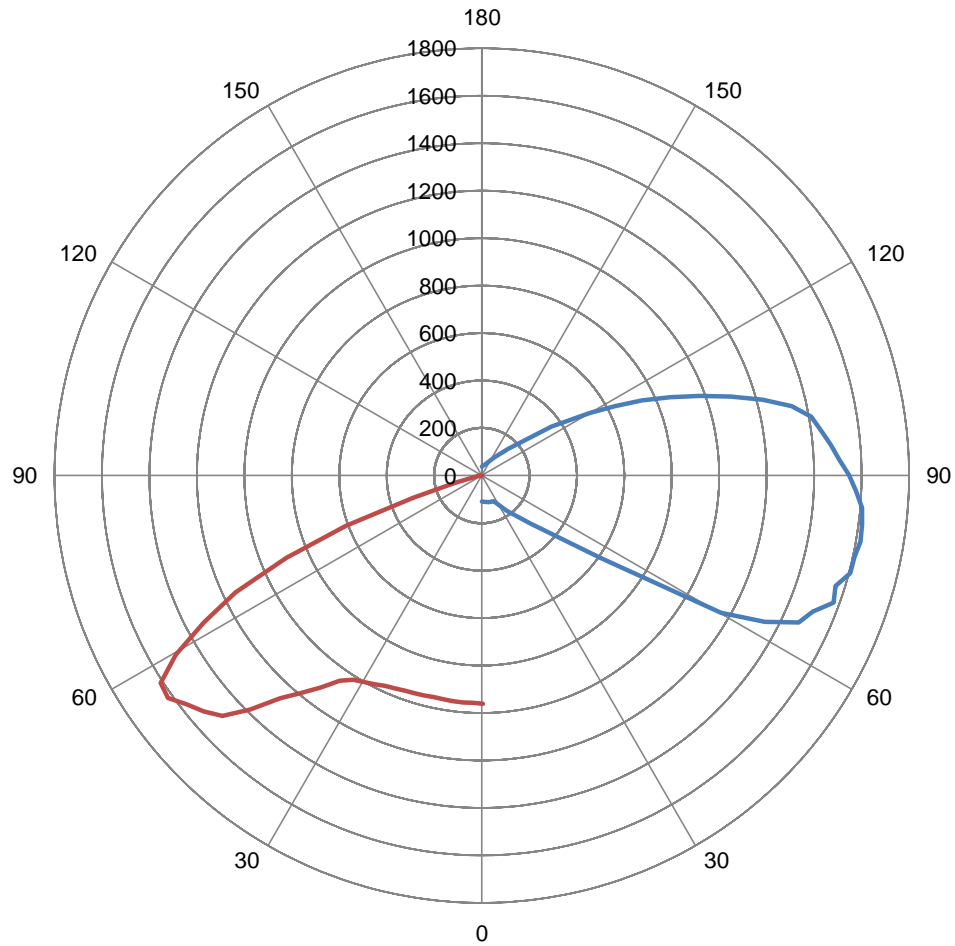
Total Lumen Output: 2744 Lumens  
Luminaire Efficacy: 82.4 lm/w  
Maximum Candela: 1620 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

80 ° Lateral

Lateral Cone Through

55 ° Vertical

Maximum Intensity (Candlepower):

1620 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	24.4	0.9%	60-65	208.2	7.6%	120-125	0.0	0.0%
5-10	68.8	2.5%	65-70	132.6	4.8%	125-130	0.0	0.0%
10-15	114.0	4.2%	70-75	52.5	1.9%	130-135	0.0	0.0%
15-20	157.5	5.7%	75-80	17.7	0.6%	135-140	0.0	0.0%
20-25	195.6	7.1%	80-85	8.9	0.3%	140-145	0.0	0.0%
25-30	222.0	8.1%	85-90	3.8	0.1%	145-150	0.0	0.0%
30-35	236.3	8.6%	90-95	1.6	0.1%	150-155	0.0	0.0%
35-40	249.7	9.1%	95-100	0.6	0.0%	155-160	0.0	0.0%
40-45	263.8	9.6%	100-105	0.2	0.0%	160-165	0.0	0.0%
45-50	271.1	9.9%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	264.1	9.6%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	250.2	9.1%	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)	369.9	13.5%
FM	(30-60)	817.6	29.8%
FH	(60-80)	263.5	9.6%
FVH	(80-90)	7.4	0.3%
BL	(0-30)	412.5	15.0%
BM	(30-60)	717.5	26.2%
BH	(60-80)	147.5	5.4%
BVH	(80-90)	5.3	0.2%
UL	(90-100)	2.2	0.1%
UH	(100-180)	0.2	0.0%
Total		2743.6	100.0%
<b>BUG Rating</b>	<b>B1 U1 G1</b>		