



UL LLC  
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## Outdoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014

**Prepared For**  
**B-K Lighting INC**

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40429 Brickyard Dr.  
Madera, CA 93636  
United States

**Catalog Number**  
**SQ-LT-45-12-LED-E72-WHP-PROTOTYPE(45° Bendo) quick test**

Order Number  
13290547  
Test Number  
13290547.07

Test Date

2020-06-25

Prepared By

Austin Duff, Technician

Approved By

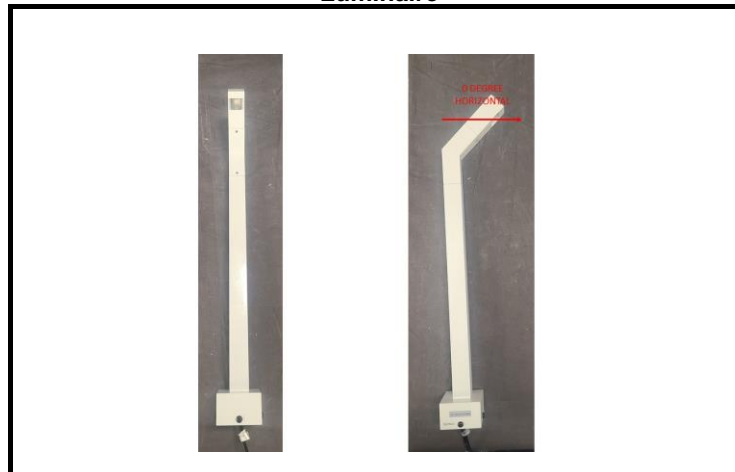
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White rectangular metal housing and diffuse plastic lens  
**Lamp:** One (1) White LED  
**Mounting:** VBD  
**Ballast/Driver:** One (1) PowerSelect PS20U15K

#### Luminaire



#### Luminaire Characteristics

Luminous Length: 0.50 in.  
Luminous Width: 1.000 in.  
Luminous Height: 0.50 in.

#### Summary of Results

Roadway Classification: Type I, Very Short  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U1 G0

#### Test Conditions

Test Temperature: 25.3 °C  
Voltage: 120.0 VAC  
Current: 0.05400 A  
Power: 3.628 W  
Power Factor: 0.560  
Frequency: 60 Hz  
Current THD: 148 %

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	0.05400 A	3.628 W	0.560	60 Hz	148 %

### Summary of Results

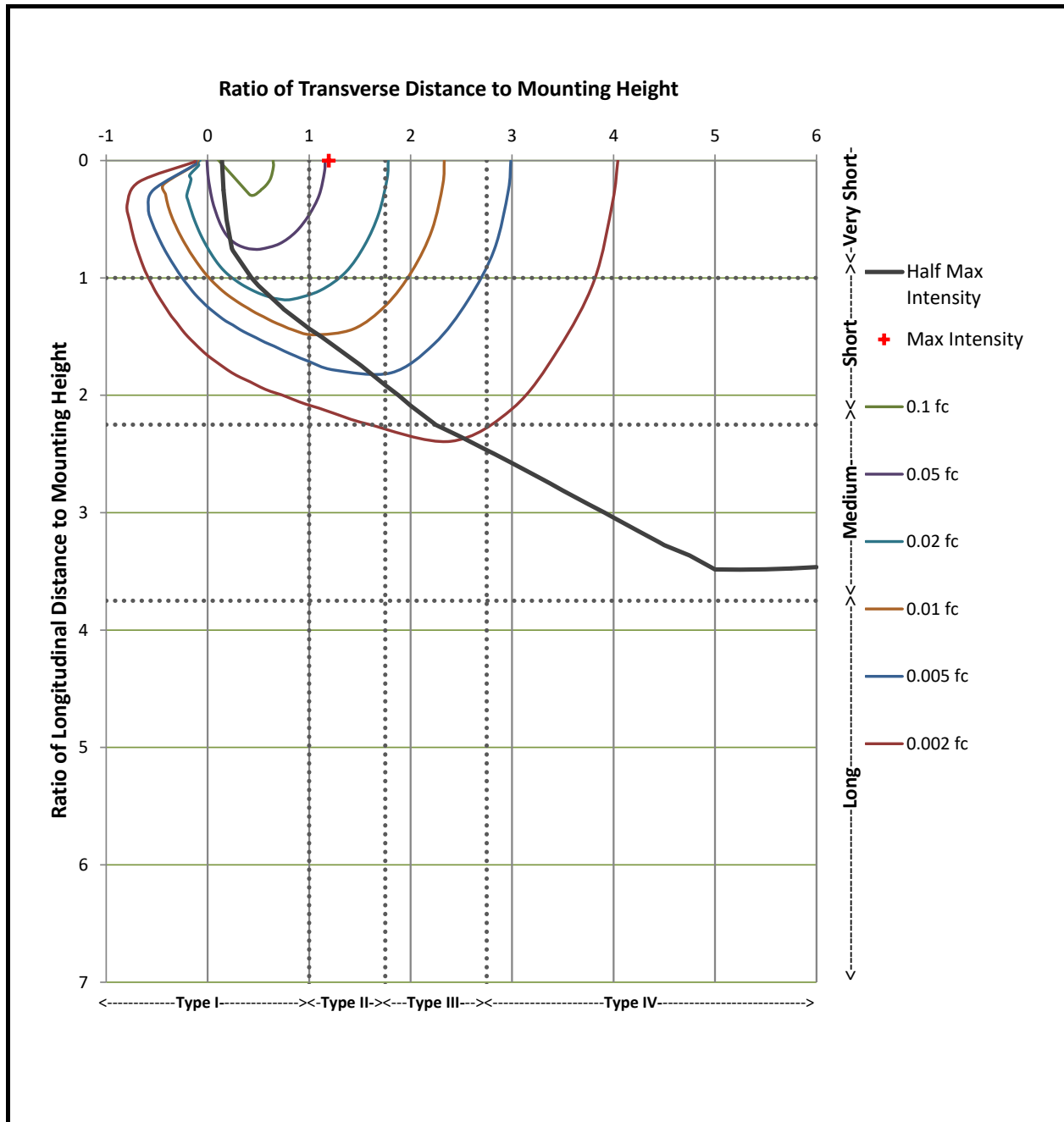
IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type I, Very Short  
Noncutoff  
B0 U1 G0

Total Lumen Output:  
Luminaire Efficacy:  
Maximum Candela:

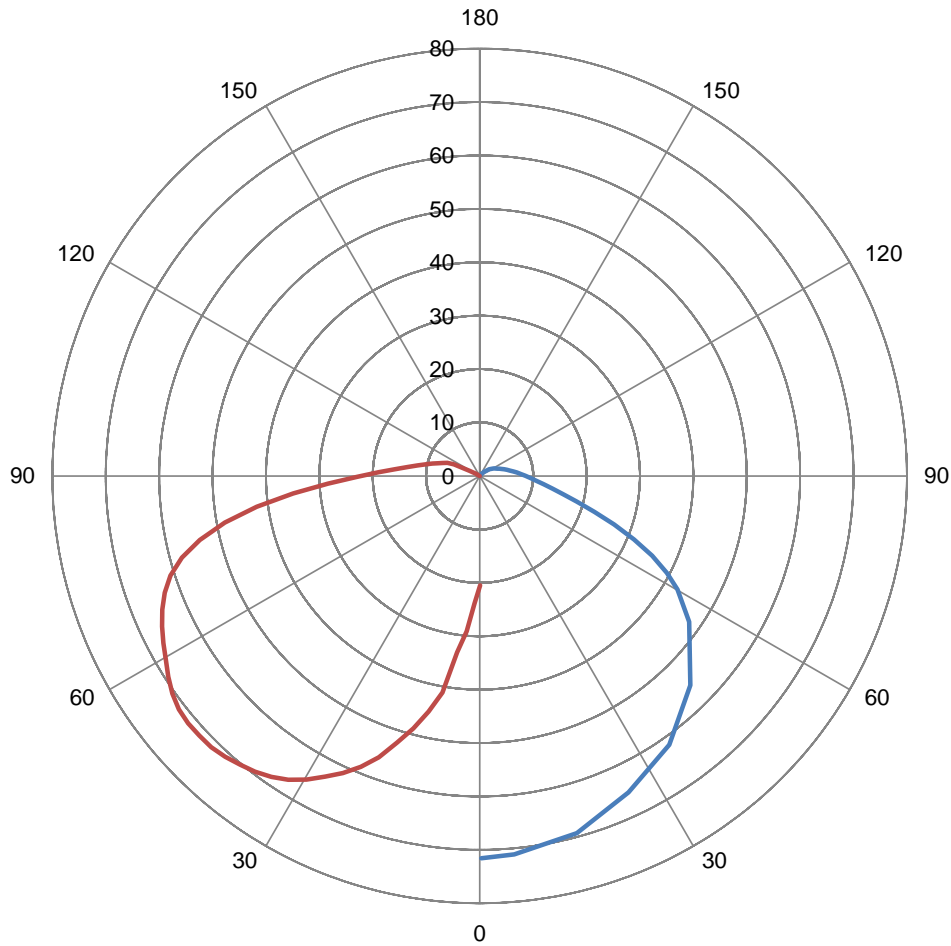
133 Lumens  
36.5 lm/w  
72 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

50 ° Vertical

Maximum Intensity (Candlepower):

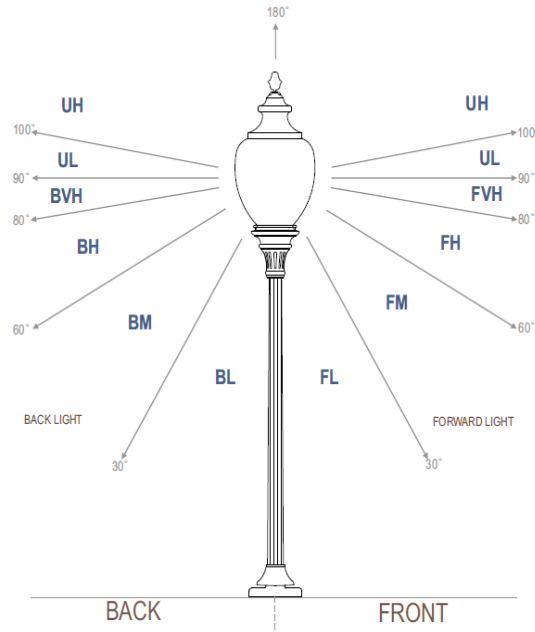
72 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.5	0.4%	60-65	9.7	7.4%	120-125	0.2	0.1%
5-10	1.4	1.1%	65-70	9.1	6.9%	125-130	0.0	0.0%
10-15	2.7	2.0%	70-75	8.3	6.3%	130-135	0.0	0.0%
15-20	4.1	3.1%	75-80	7.2	5.4%	135-140	0.0	0.0%
20-25	5.5	4.2%	80-85	5.7	4.3%	140-145	0.0	0.0%
25-30	7.0	5.3%	85-90	3.9	3.0%	145-150	0.0	0.0%
30-35	8.3	6.3%	90-95	2.7	2.0%	150-155	0.0	0.0%
35-40	9.4	7.1%	95-100	1.9	1.4%	155-160	0.0	0.0%
40-45	10.2	7.7%	100-105	1.4	1.0%	160-165	0.0	0.0%
45-50	10.5	7.9%	105-110	1.0	0.8%	165-170	0.0	0.0%
50-55	10.5	7.9%	110-115	0.7	0.5%	170-175	0.0	0.0%
55-60	10.2	7.7%	115-120	0.4	0.3%	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)	17.6	13.3%
FM	(30-60)	55.7	42.0%
FH	(60-80)	34.0	25.7%
FVH	(80-90)	9.6	7.2%
BL	(0-30)	3.6	2.7%
BM	(30-60)	3.4	2.6%
BH	(60-80)	0.4	0.3%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	4.6	3.4%
UH	(100-180)	3.7	2.8%
Total		132.6	100.0%
<b>BUG Rating</b>	<b>B0 U1 G0</b>		