



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**

Daniel Carrejo  
40429 Brickyard Dr.  
Madera, CA 93636  
United States

**Catalog Number**

**UO-LED-4000K-WW-1-42-WHP-INC-MT**

Order Number  
13819078  
Test Number  
13819078.05

Test Date

2021-06-18

Prepared By

William Escobar, Technician

Approved By

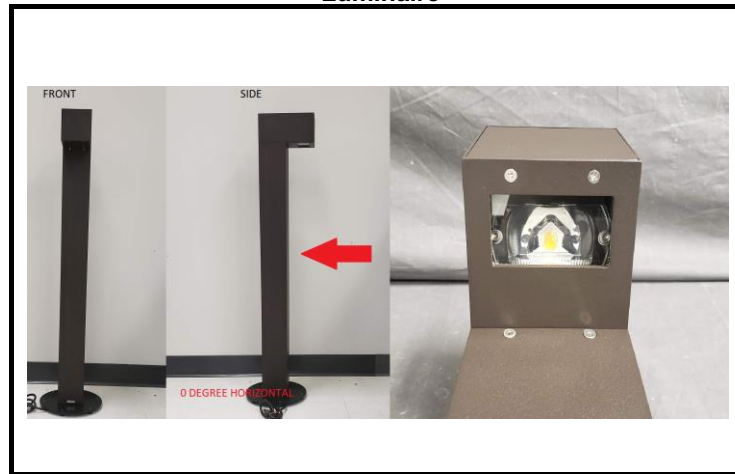
Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed brown metal housing with clear glass lens  
**Lamp:** 1 White LED with optic below  
**Mounting:** Bollard  
**Ballast/Driver:** ERP PTB30W-0700-42

#### Luminaire



#### Luminaire Characteristics

Luminous Length: 3.00 in.  
Luminous Width: 1.000 in.  
Luminous Height: 38.00 in.

#### Summary of Results

Roadway Classification: Type II, Short  
Cutoff Classification: Cutoff  
BUG Rating: B0 U1 G0

#### Test Conditions

Test Temperature: 25.1 °C  
Voltage: 120.0 VAC  
Current: 0.1699 A  
Power: 20.21 W  
Power Factor: 0.991  
Frequency: 60 Hz  
Current THD: 10.2 %

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
25.1 °C	120.0 VAC	0.1699 A	20.21 W	0.991	60 Hz	10.2 %

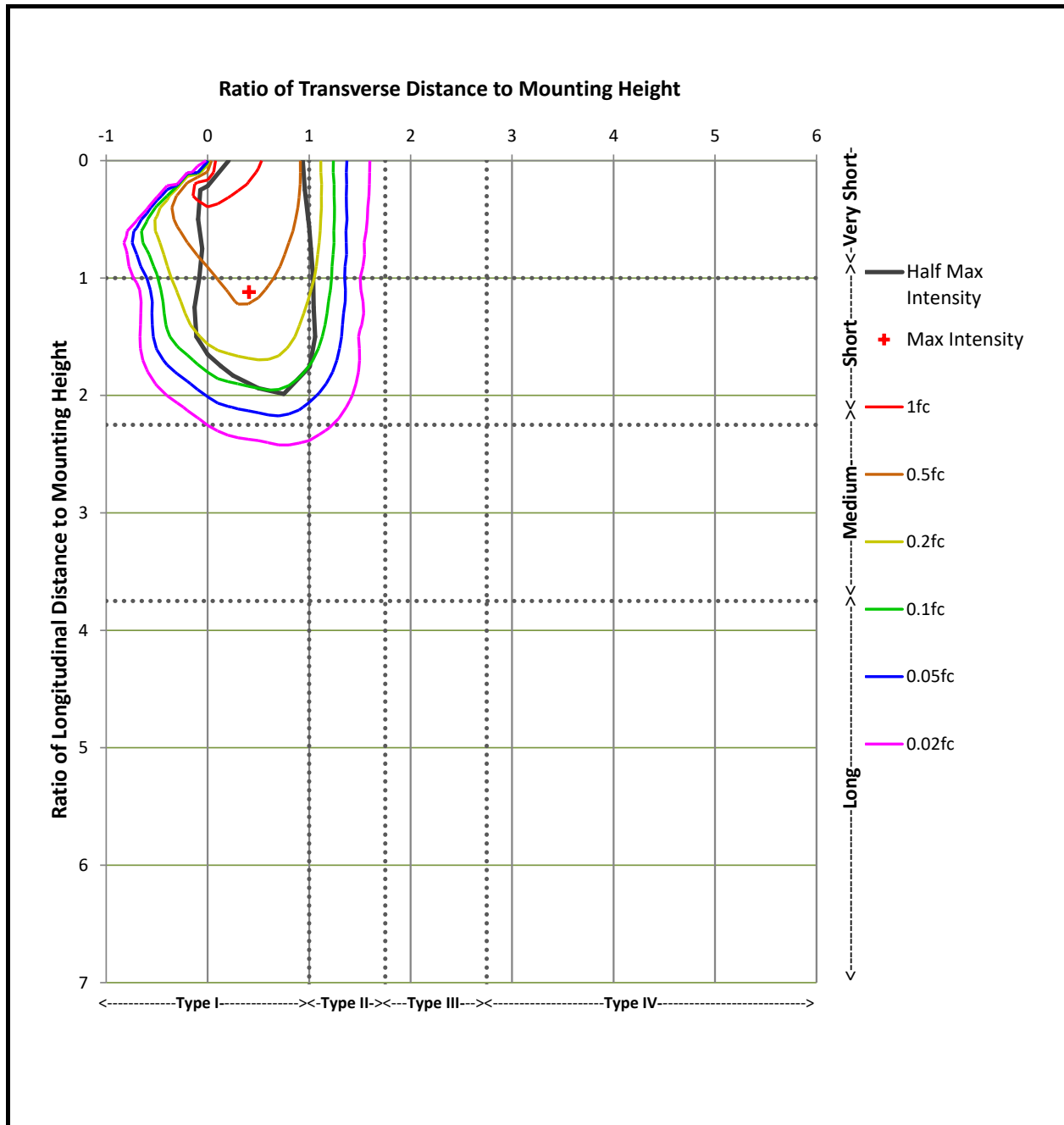
### Summary of Results

IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type II, Short  
Cutoff  
B0 U1 G0

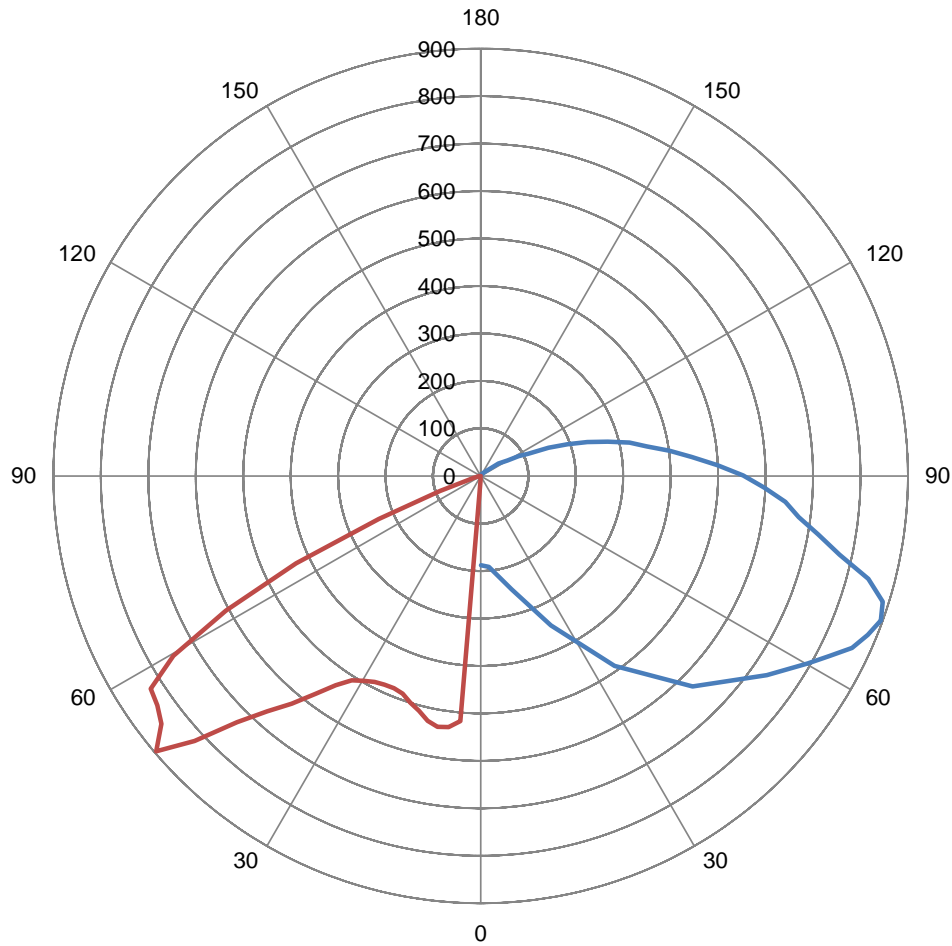
Total Lumen Output: 1158 Lumens  
Luminaire Efficacy: 57.3 lm/w  
Maximum Candela: 896 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

70 ° Lateral

Lateral Cone Through

50 ° Vertical

Maximum Intensity (Candlepower):

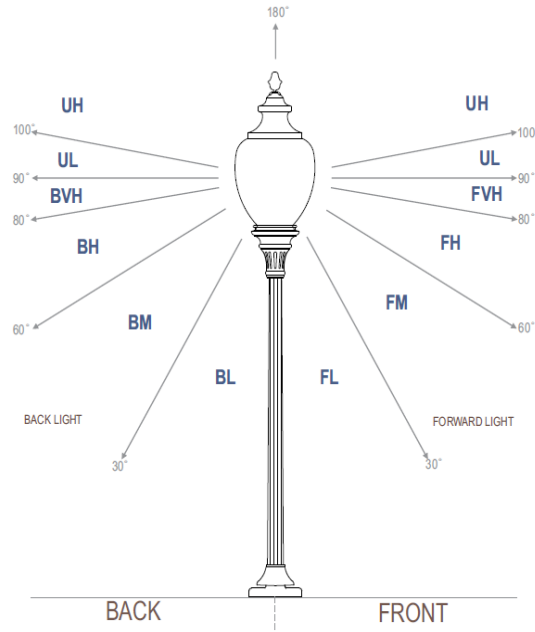
896 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	4.4	0.4%	60-65	68.4	5.9%	120-125	0.0	0.0%
5-10	23.8	2.1%	65-70	26.5	2.3%	125-130	0.0	0.0%
10-15	45.9	4.0%	70-75	6.3	0.5%	130-135	0.0	0.0%
15-20	62.4	5.4%	75-80	2.2	0.2%	135-140	0.0	0.0%
20-25	77.1	6.7%	80-85	1.0	0.1%	140-145	0.0	0.0%
25-30	93.3	8.1%	85-90	0.4	0.0%	145-150	0.0	0.0%
30-35	109.0	9.4%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	124.4	10.7%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	136.8	11.8%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	140.0	12.1%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	129.0	11.1%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	106.7	9.2%	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)	215.5	18.6%
FM	(30-60)	603.6	52.1%
FH	(60-80)	90.2	7.8%
FVH	(80-90)	1.0	0.1%
BL	(0-30)	91.4	7.9%
BM	(30-60)	142.3	12.3%
BH	(60-80)	13.3	1.1%
BVH	(80-90)	0.4	0.0%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		1157.6	100.0%
<b>BUG Rating</b>	<b>B0 U1 G0</b>		