



UL LLC  
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Brea, CA 92821

## Outdoor Distribution Test Report

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

Prepared For

**SPJ** LIGHTING Inc.  
ARCHITECTURAL LANDSCAPE & OUTDOOR LIGHTING

Catalog Number

**PL-A18**

Order Number

13547756

Test Number

13547756.03

Test Date

2020-12-07

Prepared By

Austin Duff, Technician

Approved By

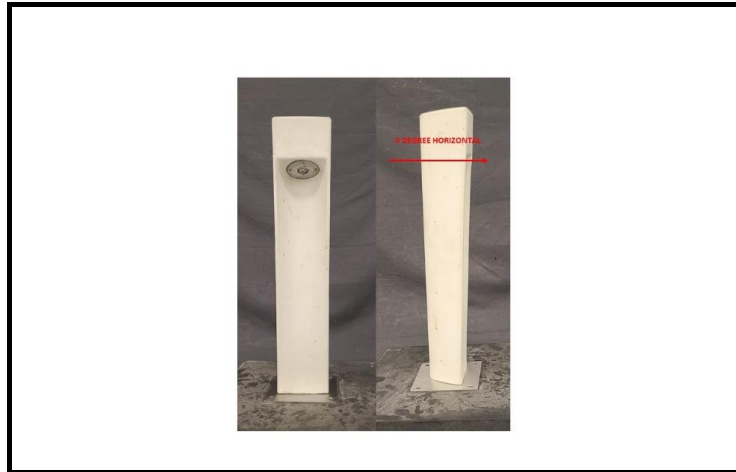
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White decorative housing and clear glass lens  
**Lamp:** Three (3) LEDs with optics above each  
**Mounting:** VBD

### Luminaire



### Luminaire Characteristics

Luminous Diameter: 0.75 in.  
Luminous Height: 0.2500 in.

### Summary of Results

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

### Test Conditions

Test Temperature: 24.6 °C  
Voltage: 11.98 VAC  
Current: 0.1476 A  
Power: 1.223 W  
Power Factor: 0.692  
Frequency: 60 Hz  
Current THD: 98.6 %

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

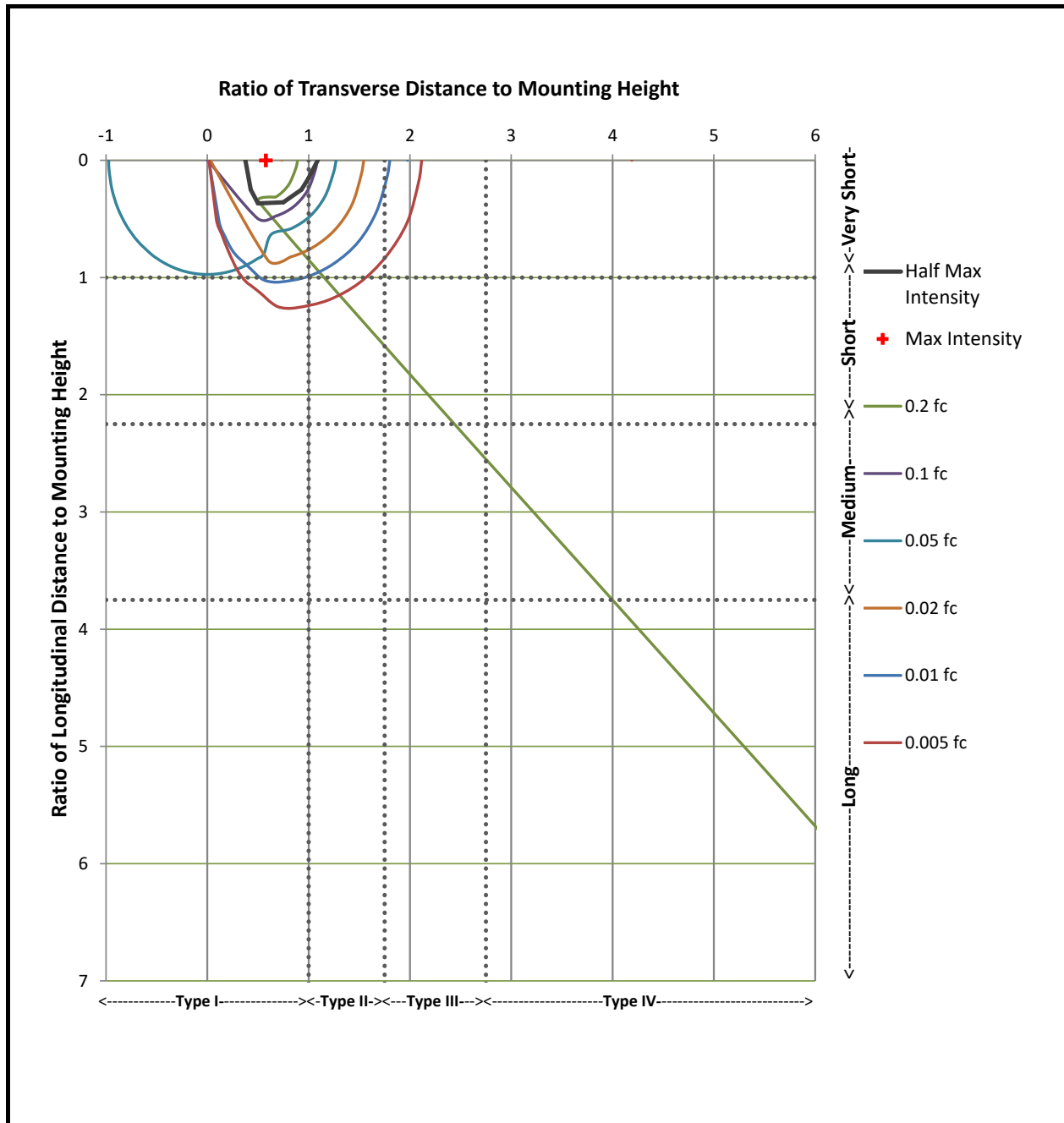
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	11.98 VAC	0.1476 A	1.223 W	0.692	60 Hz	98.6 %

### Summary of Results

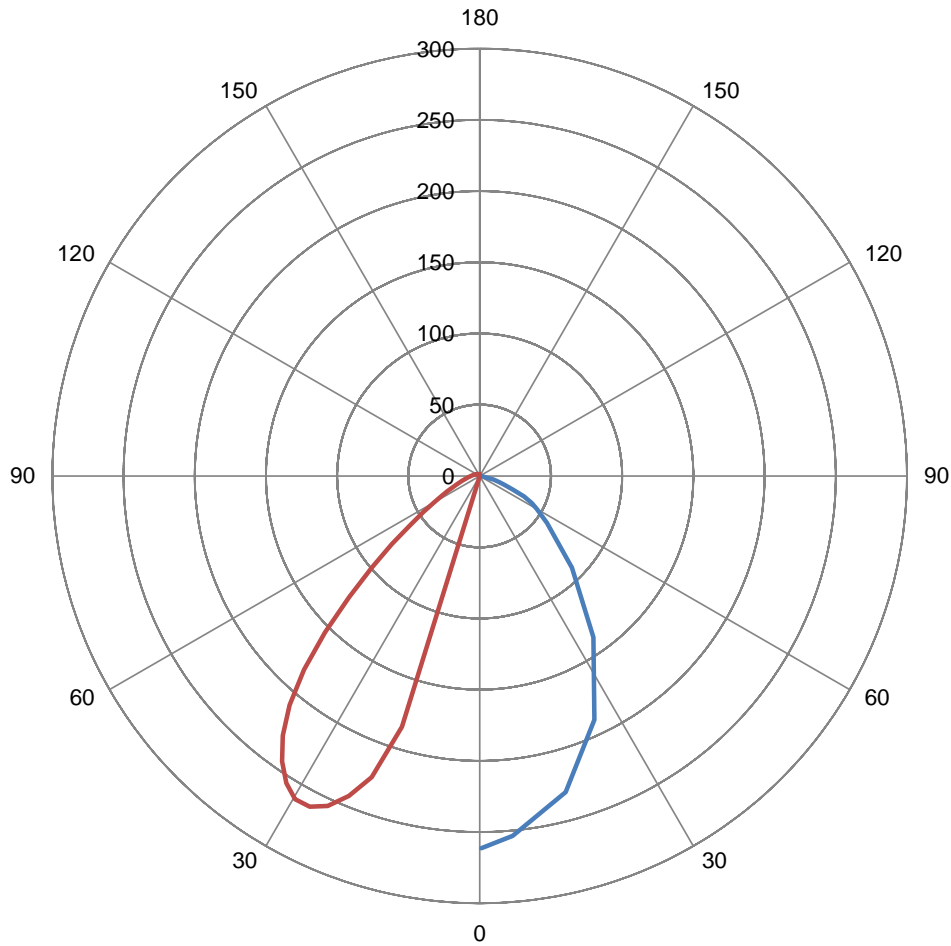
<b>IES Roadway Classification:</b>	Type II, Very Short	<b>Total Lumen Output:</b>	108 Lumens
<b>Cutoff Classification</b>	Noncutoff	<b>Luminaire Efficacy:</b>	88.6 lm/w
<b>BUG Rating:</b>	B0 U1 G0	<b>Maximum Candela:</b>	261 Candela

### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

30 ° Vertical

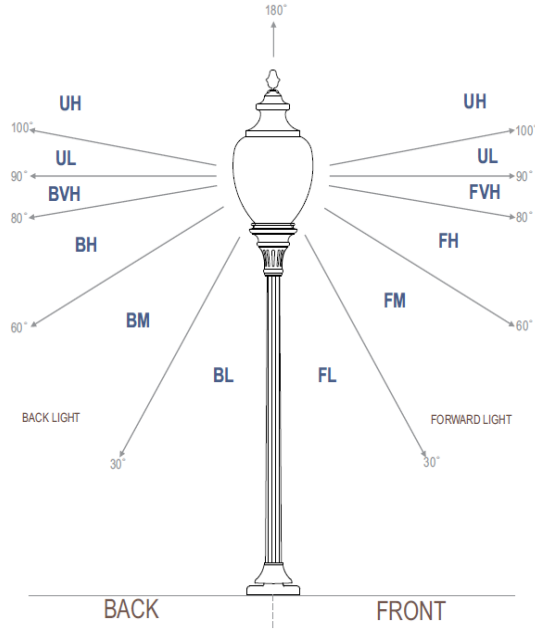
**Maximum Intensity (Candlepower):** 261 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	3.3	3.0%	120-125	0.4	0.4%
5-10	0.0	0.0%	65-70	2.5	2.3%	125-130	0.4	0.3%
10-15	0.0	0.0%	70-75	1.9	1.8%	130-135	0.3	0.3%
15-20	3.8	3.5%	75-80	1.5	1.4%	135-140	0.3	0.3%
20-25	10.1	9.3%	80-85	1.2	1.2%	140-145	0.3	0.2%
25-30	14.3	13.2%	85-90	1.0	1.0%	145-150	0.2	0.2%
30-35	15.4	14.2%	90-95	0.9	0.8%	150-155	0.2	0.2%
35-40	14.6	13.4%	95-100	0.8	0.7%	155-160	0.2	0.2%
40-45	12.2	11.2%	100-105	0.7	0.6%	160-165	0.1	0.1%
45-50	9.1	8.4%	105-110	0.6	0.5%	165-170	0.1	0.1%
50-55	6.4	5.9%	110-115	0.5	0.5%	170-175	0.1	0.1%
55-60	4.5	4.2%	115-120	0.4	0.4%	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)	28.3	26.1%
FM	(30-60)	62.2	57.4%
FH	(60-80)	9.1	8.4%
FVH	(80-90)	2.3	2.1%
BL	(0-30)	0.0	0.0%
BM	(30-60)	0.0	0.0%
BH	(60-80)	0.0	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	1.7	1.5%
UH	(100-180)	4.8	4.4%
Total		108.4	100.0%
<b>BUG Rating</b>	<b>B0 U1 G0</b>		