



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

## Outdoor Distribution Report

Prepared For

**SPJ** LIGHTING Inc.

ARCHITECTURAL LANDSCAPE & OUTDOOR LIGHTING

Catalog Number  
**PL-B20 (4000K)**

Order Number

13818877

Report Number

13818877.09

Issue Date

2021-05-28

Prepared By

A handwritten signature in black ink, appearing to read 'Austin Duff'.

Austin Duff, Technician

Approved By

A handwritten signature in black ink, appearing to read 'Eric M. Gaudreau'.

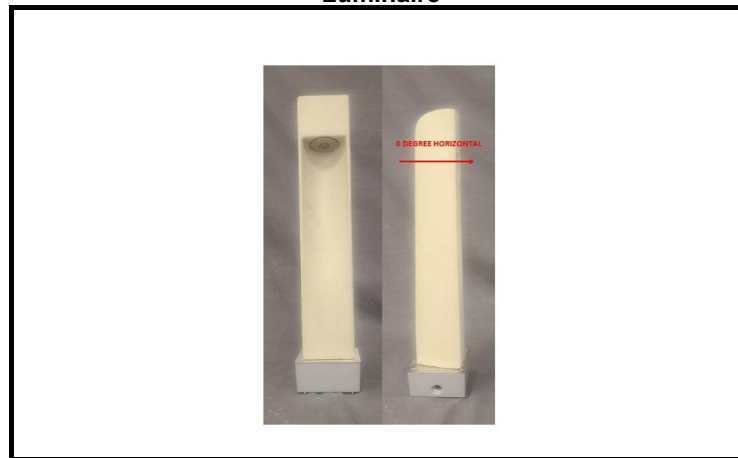
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Gray decorative housing and clear glass lens  
**Lamp:** Three (3) LEDs with optics above each  
**Mounting:** VBD  
**Note:** This report does not reflect tested values. This report is based on test data from test 13547756.04 and rated to a different CCT and output.

### Luminaire



### Luminaire Characteristics

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

### Summary of Results

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

### Rated Operating Conditions

Voltage: 12.00 VAC  
Power: 1.551 W

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

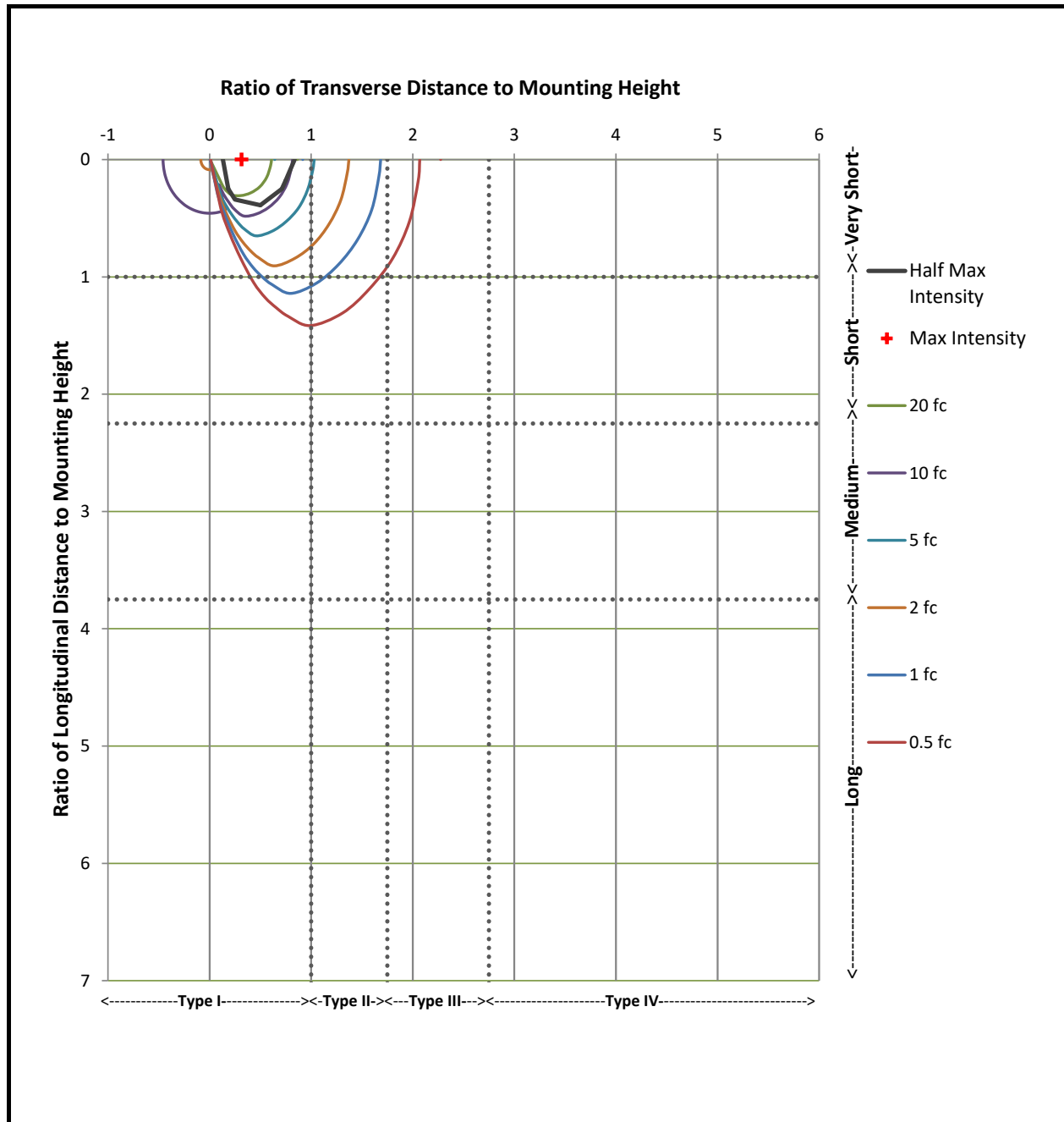
#### Rated Operating Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
N/A	12.00 VAC	N/A	1.551 W	N/A	N/A	N/A

#### Summary of Results

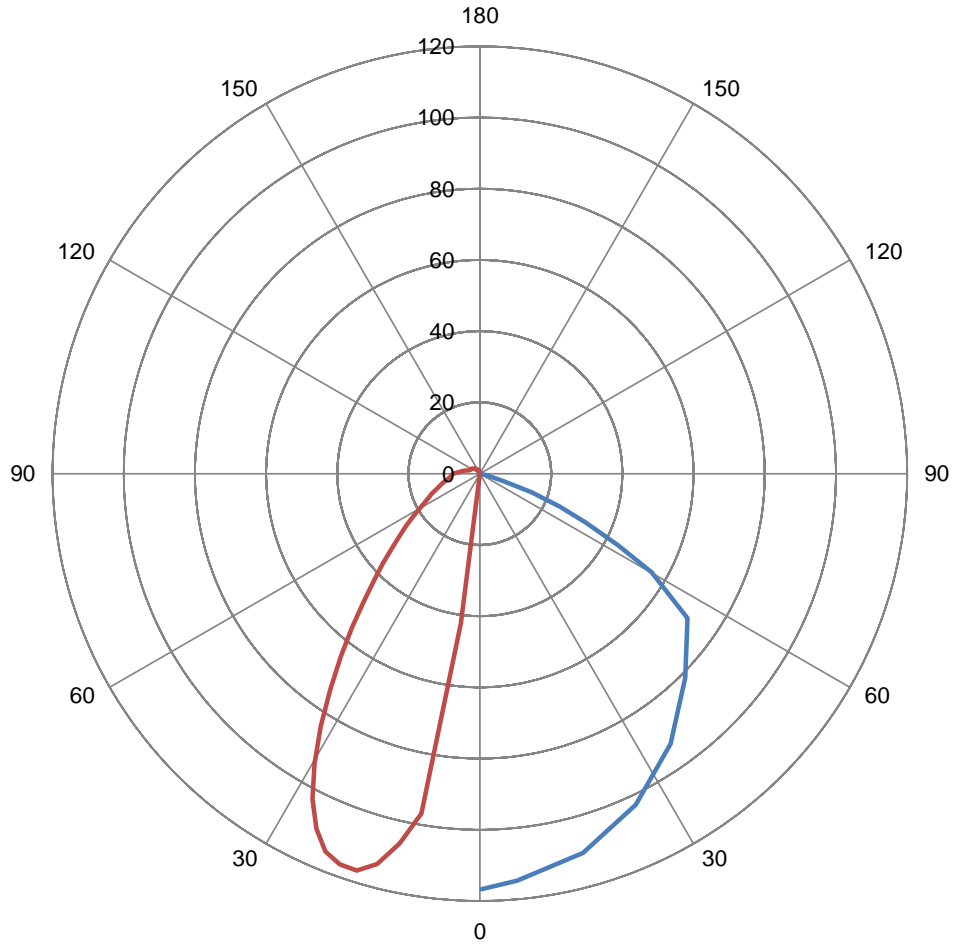
<b>IES Roadway Classification:</b>	Type I, Very Short	<b>Total Lumen Output:</b>	67 Lumens
<b>Cutoff Classification</b>	Noncutoff	<b>Luminaire Efficacy:</b>	43.4 lm/w
<b>BUG Rating:</b>	B0 U1 G0	<b>Maximum Candela:</b>	117 Candela

#### ISO FootCandle Plot at 1.66 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

17.5 ° Vertical

**Maximum Intensity (Candlepower):**

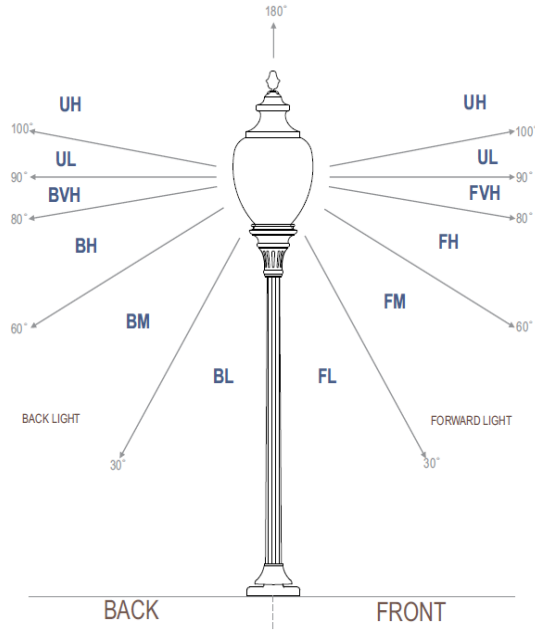
117 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	2.5	3.7%	120-125	0.4	0.5%
5-10	1.6	2.3%	65-70	2.1	3.2%	125-130	0.3	0.5%
10-15	3.9	5.8%	70-75	1.8	2.7%	130-135	0.3	0.4%
15-20	5.5	8.2%	75-80	1.6	2.4%	135-140	0.2	0.3%
20-25	6.5	9.7%	80-85	1.4	2.0%	140-145	0.2	0.3%
25-30	6.8	10.0%	85-90	1.2	1.8%	145-150	0.1	0.2%
30-35	6.4	9.5%	90-95	1.0	1.4%	150-155	0.1	0.2%
35-40	5.6	8.3%	95-100	0.8	1.1%	155-160	0.1	0.1%
40-45	4.7	7.0%	100-105	0.6	0.9%	160-165	0.1	0.1%
45-50	4.0	5.9%	105-110	0.5	0.7%	165-170	0.0	0.1%
50-55	3.4	5.0%	110-115	0.4	0.7%	170-175	0.0	0.1%
55-60	2.9	4.3%	115-120	0.4	0.6%	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)	24.3	36.1%
FM	(30-60)	26.9	40.0%
FH	(60-80)	8.0	11.9%
FVH	(80-90)	2.6	3.8%
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	2.6%
UH	(100-180)	3.7	5.5%
<b>Total</b>		<b>67.3</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B0 U1 G0</b>		