



UL LLC  
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## Outdoor Distribution Report

Prepared For

**SPJ** LIGHTING Inc.

ARCHITECTURAL LANDSCAPE & OUTDOOR LIGHTING

Catalog Number  
**A36-SM (4000K)**

Order Number  
13748404

Test Number  
13748404.02

Report Date

2021-03-31

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:** White decorative housing and clear glass lens  
**Lamp:** 14 LEDs  
**Mounting:** Bollard  
**Ballast/Driver:** FORZLUX PS14-350C-DUALDIM-UNV-P  
**Note:** This report was generated using data from test report 13547756.05, and has been prorated to the output of a 4000K version, based on manufacturer data

### Luminaire



### Luminaire Characteristics

Luminous Length: 5.00 in.  
Luminous Width: 5.000 in.  
Luminous Height: 7.00 in.

### Summary of Results

Roadway Classification: Type VS, Very Short  
Cutoff Classification: Semicutoff  
BUG Rating: B0 U3 G1

### Test Conditions

Test Temperature: 24.8 °C  
Voltage: 120.1 VAC  
Current: 0.1036 A  
Power: 12.14 W  
Power Factor: 0.976  
Frequency: 60 Hz  
Current THD: 14.5 %

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

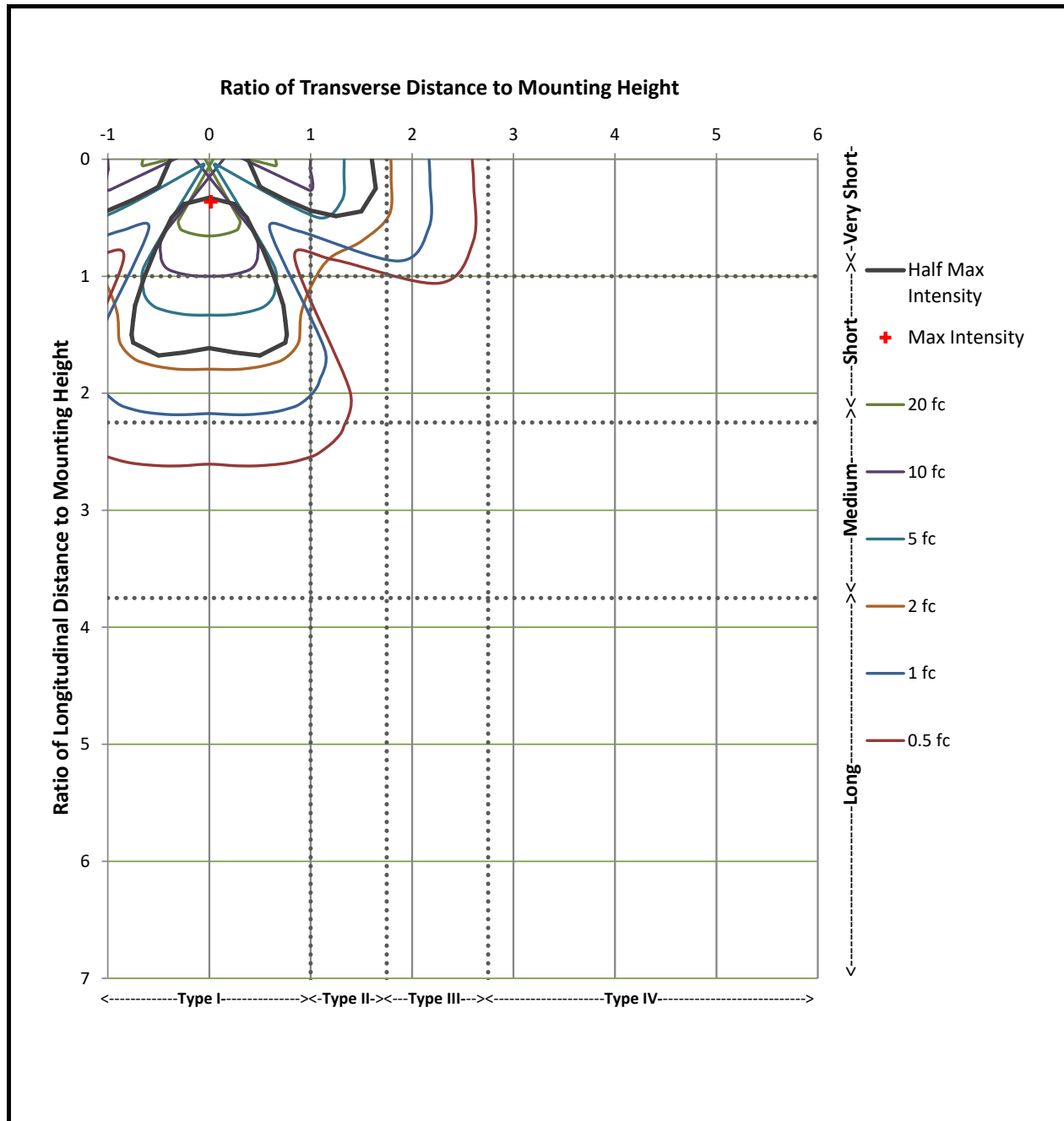
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.1036 A	12.14 W	0.976	60 Hz	14.5 %

### Summary of Results

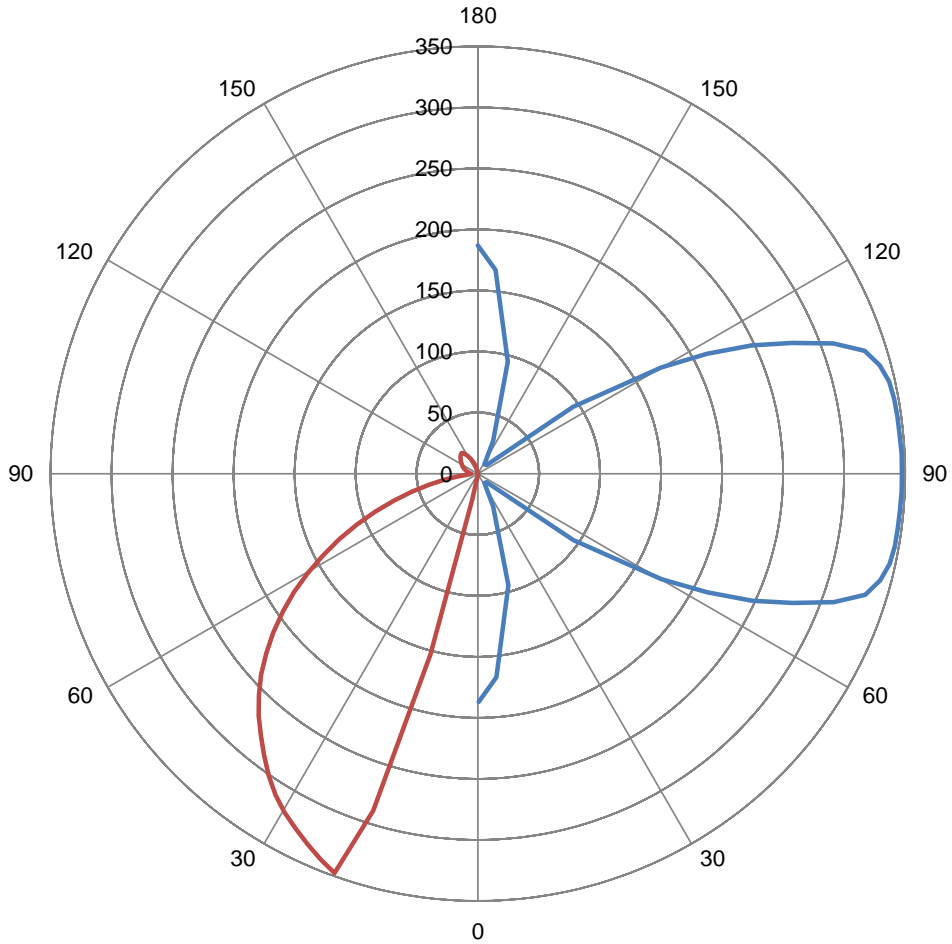
<b>IES Roadway Classification:</b> Type VS, Very Short	<b>Total Lumen Output:</b> 832 Lumens
<b>Cutoff Classification:</b> Semicutoff	<b>Luminaire Efficacy:</b> 68.5 lm/w
<b>BUG Rating:</b> B0 U3 G1	<b>Maximum Candela:</b> 348 Candela

### ISO FootCandle Plot at 3 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

87.5 ° Lateral

Lateral Cone Through

20 ° Vertical

**Maximum Intensity (Candlepower):**

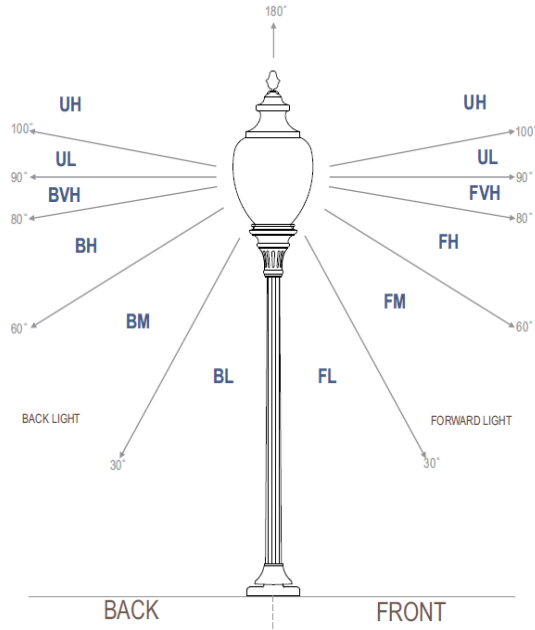
348 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	55.1	6.6%	120-125	9.7	1.2%
5-10	0.3	0.0%	65-70	44.6	5.4%	125-130	9.2	1.1%
10-15	2.0	0.2%	70-75	33.5	4.0%	130-135	8.7	1.0%
15-20	15.9	1.9%	75-80	23.2	2.8%	135-140	8.1	1.0%
20-25	40.8	4.9%	80-85	15.1	1.8%	140-145	7.0	0.8%
25-30	57.4	6.9%	85-90	10.8	1.3%	145-150	5.5	0.7%
30-35	65.2	7.8%	90-95	10.7	1.3%	150-155	4.0	0.5%
35-40	69.7	8.4%	95-100	11.1	1.3%	155-160	2.5	0.3%
40-45	72.3	8.7%	100-105	11.2	1.3%	160-165	1.3	0.2%
45-50	72.4	8.7%	105-110	11.0	1.3%	165-170	0.5	0.1%
50-55	69.2	8.3%	110-115	10.6	1.3%	170-175	0.1	0.0%
55-60	63.4	7.6%	115-120	10.2	1.2%	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)	58.2	7.0%
FM	(30-60)	206.1	24.8%
FH	(60-80)	78.2	9.4%
FVH	(80-90)	13.0	1.6%
BL	(0-30)	58.2	7.0%
BM	(30-60)	206.1	24.8%
BH	(60-80)	78.2	9.4%
BVH	(80-90)	13.0	1.6%
UL	(90-100)	21.8	2.6%
UH	(100-180)	99.7	12.0%
Total		832.4	100.0%
<b>BUG Rating</b>	<b>B0 U3 G1</b>		