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## Outdoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, IES LM-31-1995 (Withdrawn)  
ANSI C82.77-2002

Prepared For  
**Simkar Corporation**

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Catalog Number  
**SALS450U1BLS**

Order Number  
11360194  
Test Number  
1266587

Test Date

2016-07-13

Prepared By

Kevin Rodriguez, Technician

Approved By

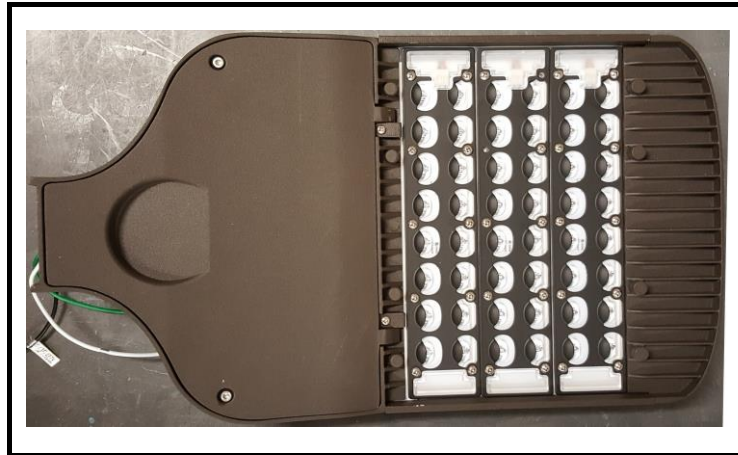
Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Brown aluminum housing, clear type IV optics with black enamel reflectors  
**Lamp:** 48 white LEDs ( three boards of 16 LEDs)  
**Mounting:** Pole mount  
**Ballast/Driver:** One Inventronics EUG-150S210DT

**Luminaire**



**Summary of Results**

Roadway Classification: Type IV, Medium  
Cutoff Classification: Noncutoff  
BUG Rating: B1 U0 G2

**Test Conditions**

Test Temperature: 25.6 °C  
Voltage: 120.0 VAC  
Current: 0.9160 A  
Power: 109.7 W  
Power Factor: 0.997  
Frequency: 60 Hz  
Current THD: 6.18 %

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

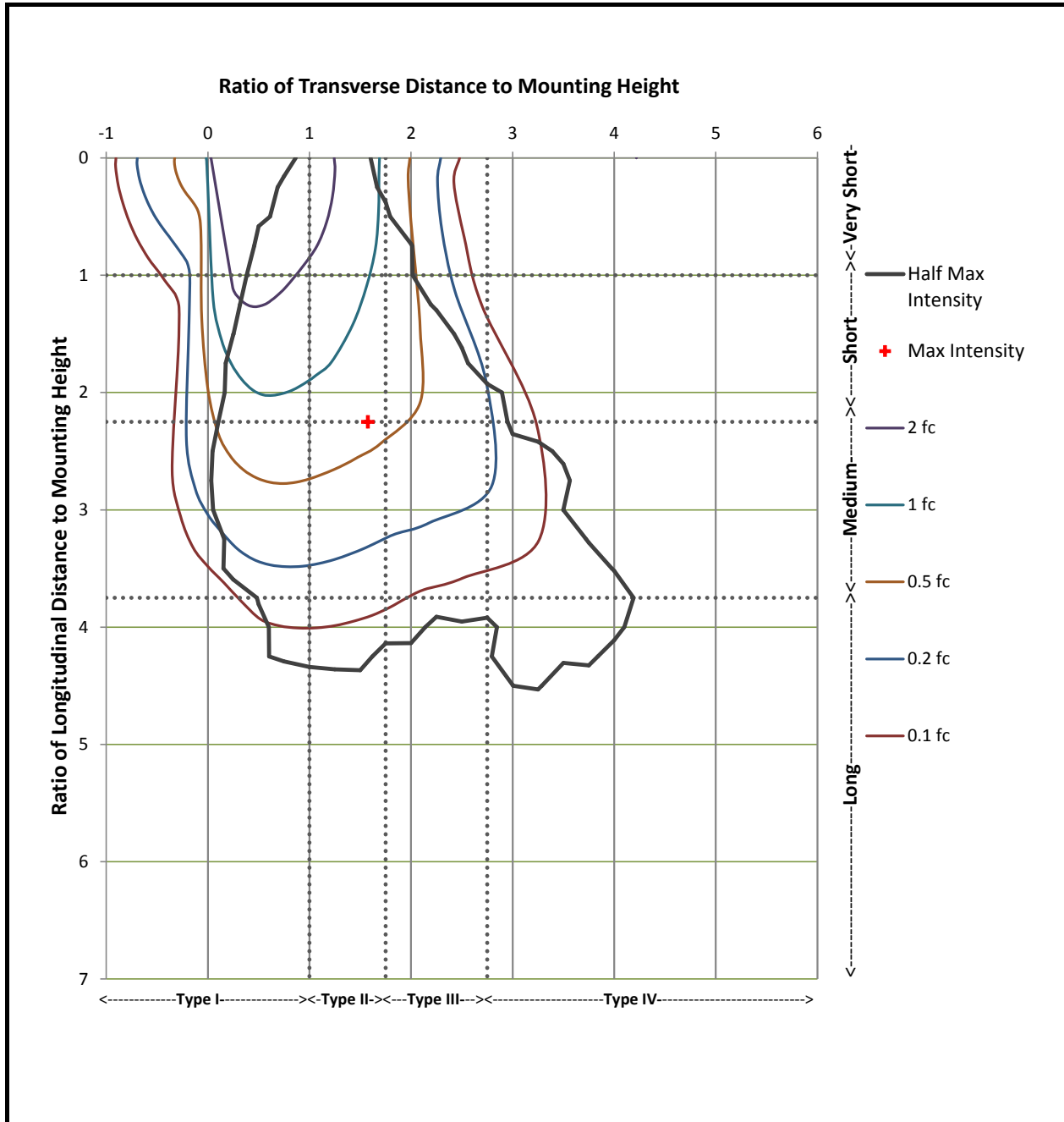
#### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.6 °C	120.0 VAC	0.9160 A	109.7 W	0.997	60 Hz	6.18 %

#### Summary of Results

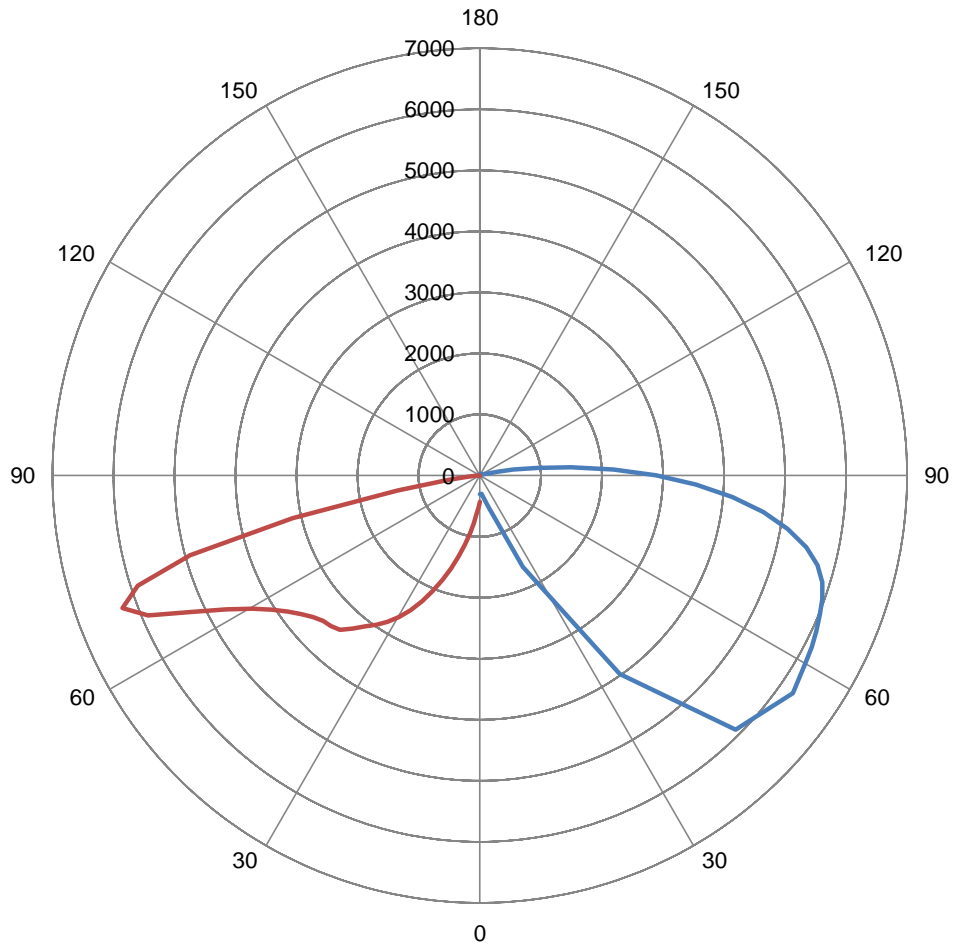
<b>IES Roadway Classification:</b>	Type IV, Medium	<b>Total Lumen Output:</b>	8178 Lumens
<b>Cutoff Classification</b>	Noncutoff	<b>Luminaire Efficacy:</b>	74.6 lm/w
<b>BUG Rating:</b>	B1 U0 G2	<b>Maximum Candela:</b>	6246 Candela

#### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

55 ° Lateral

Lateral Cone Through

70 ° Vertical

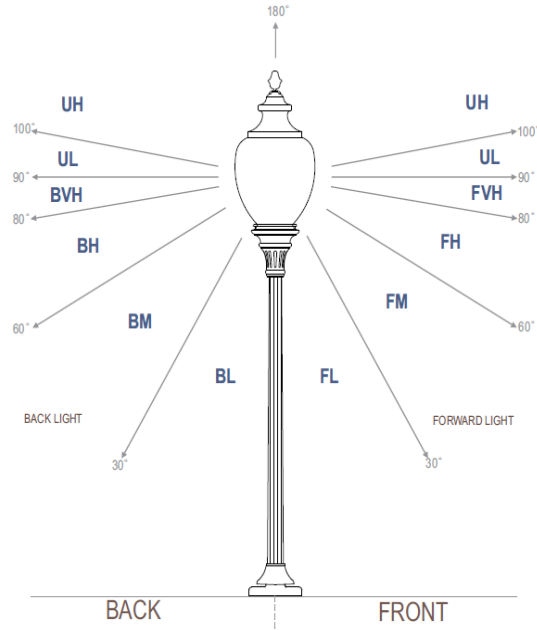
**Maximum Intensity (Candlepower):** 6246.0 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	12.1	0.1%	60-65	969.8	11.9%	120-125	0.0	0.0%
5-10	43.5	0.5%	65-70	1039.9	12.7%	125-130	0.0	0.0%
10-15	94.4	1.2%	70-75	919.2	11.2%	130-135	0.0	0.0%
15-20	163.8	2.0%	75-80	472.2	5.8%	135-140	0.0	0.0%
20-25	244.1	3.0%	80-85	98.4	1.2%	140-145	0.0	0.0%
25-30	324.6	4.0%	85-90	9.4	0.1%	145-150	0.0	0.0%
30-35	403.2	4.9%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	490.5	6.0%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	582.9	7.1%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	669.7	8.2%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	765.8	9.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	874.0	10.7%	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)	774.2	9.5%
FM	(30-60)	3593.2	43.9%
FH	(60-80)	3240.5	39.6%
FVH	(80-90)	104.3	1.3%
BL	(0-30)	108.4	1.3%
BM	(30-60)	192.9	2.4%
BH	(60-80)	160.6	2.0%
BVH	(80-90)	3.5	0.0%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
<b>Total</b>		<b>8177.5</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B1 U0 G2</b>		