



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



Outdoor Distribution Test Report

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IES LM-79-2008, IES LM-31-1995 (Withdrawn)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

Prepared For
Simkar Corporation

Andre Duljas
700 Ramona Ave
Philadelphia, Pa 19120
United States

Catalog Number
DTDHOLED35L40U1

Order Number
11604198
Test Number
11604198.01

Test Date

2017-01-12

Prepared By

Samuel DePue, 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: Cast aluminum housing, linear patterned plastic lens enclosure
Lamp: One white LED
Mounting: Pole/Arm
Ballast/Driver: One Caster LD40W-43-C0930

Luminaire



Luminaire Characteristics

Luminous Diameter: 6.75 in.
Luminous Height: 1.500 in.

Summary of Results

Roadway Classification: Type V, Very Short
Cutoff Classification: Cutoff
BUG Rating: B2 U2 G1

Test Conditions

Test Temperature: 25.1 °C
Voltage: 120.0 VAC
Current: 0.3188 A
Power: 37.84 W
Power Factor: 0.989
Frequency: 60 Hz
Current THD: 13.7 %

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

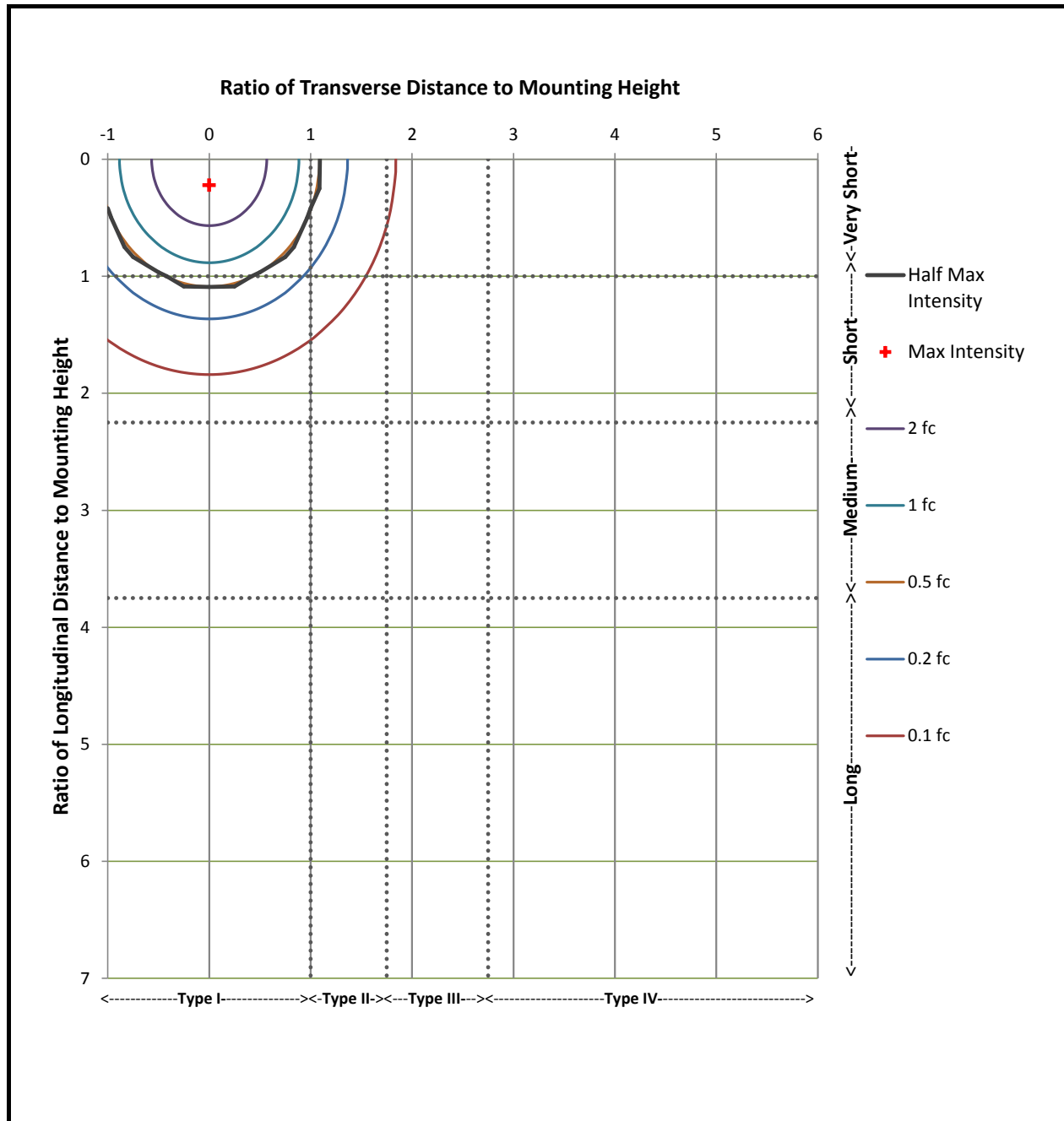
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.3188 A	37.84 W	0.989	60 Hz	13.7 %

Summary of Results

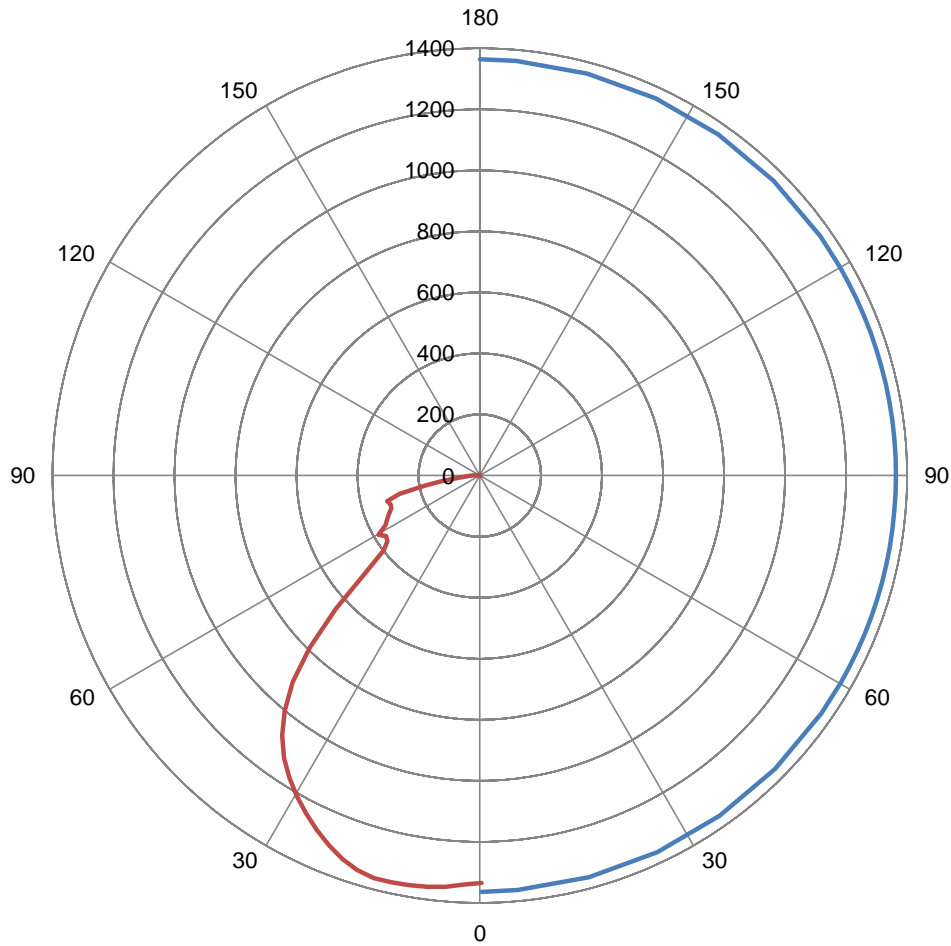
IES Roadway Classification:	Type V, Very Short	Total Lumen Output:	3504 Lumens
Cutoff Classification	Cutoff	Luminaire Efficacy:	92.6 lm/w
BUG Rating:	B2 U2 G1	Maximum Candela:	1364 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

12.5 ° Vertical

Maximum Intensity (Candlepower):

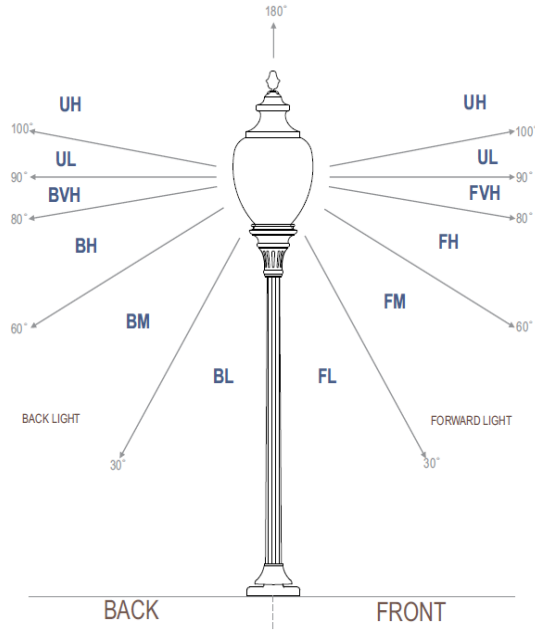
1364 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	34.2	1.0%	60-65	172.4	4.9%	120-125	1.8	0.1%
5-10	97.2	2.8%	65-70	163.4	4.7%	125-130	0.8	0.0%
10-15	161.7	4.6%	70-75	161.9	4.6%	130-135	0.1	0.0%
15-20	222.5	6.4%	75-80	138.8	4.0%	135-140	0.0	0.0%
20-25	273.8	7.8%	80-85	66.6	1.9%	140-145	0.0	0.0%
25-30	314.5	9.0%	85-90	24.3	0.7%	145-150	0.0	0.0%
30-35	343.8	9.8%	90-95	10.4	0.3%	150-155	0.0	0.0%
35-40	355.3	10.1%	95-100	4.6	0.1%	155-160	0.0	0.0%
40-45	334.2	9.5%	100-105	3.2	0.1%	160-165	0.0	0.0%
45-50	258.2	7.4%	105-110	2.9	0.1%	165-170	0.0	0.0%
50-55	180.1	5.1%	110-115	2.7	0.1%	170-175	0.0	0.0%
55-60	171.9	4.9%	115-120	2.5	0.1%	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)	551.9	15.8%
FM	(30-60)	821.8	23.5%
FH	(60-80)	318.2	9.1%
FVH	(80-90)	45.4	1.3%
BL	(0-30)	551.9	15.8%
BM	(30-60)	821.8	23.5%
BH	(60-80)	318.2	9.1%
BVH	(80-90)	45.4	1.3%
UL	(90-100)	15.0	0.4%
UH	(100-180)	14.0	0.4%
Total		3503.9	100.0%
BUG Rating	B2 U2 G1		