



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



Photometric Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Auroralight Inc

Stacia Elmore
2742 Loker Ave W
#100
Carlsbad, CA 92010-6619
United States

Catalog Number
LSMR6-3-30 (3W, 3000K)

Order Number
14275542
Test Number
14275542.03

Test Date

2022-04-21

Prepared By

Cordaryl Cousar, Technician

Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Rectangular metal mounting plate with metal dome
Lamp: 1 White LED
Mounting: Step/Wall
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Length: 0.50 in.
Luminous Width: 5.000 in.
Luminous Height: 0.25 in.

Summary of Results

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

Test Conditions

Test Temperature: 24.4 °C
Voltage: 12.03 VAC
Current: 0.3323 A
Power: 2.527 W
Power Factor: 0.632
Frequency: 60 Hz
Current THD: 104 %

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
24.4 °C	12.03 VAC	0.3323 A	2.527 W	0.632	60 Hz	104 %

Summary of Results

Spacing Criteria

0-180: 1.82
90-270: 1.19

Total Lumen Output:

109.7 Lumens

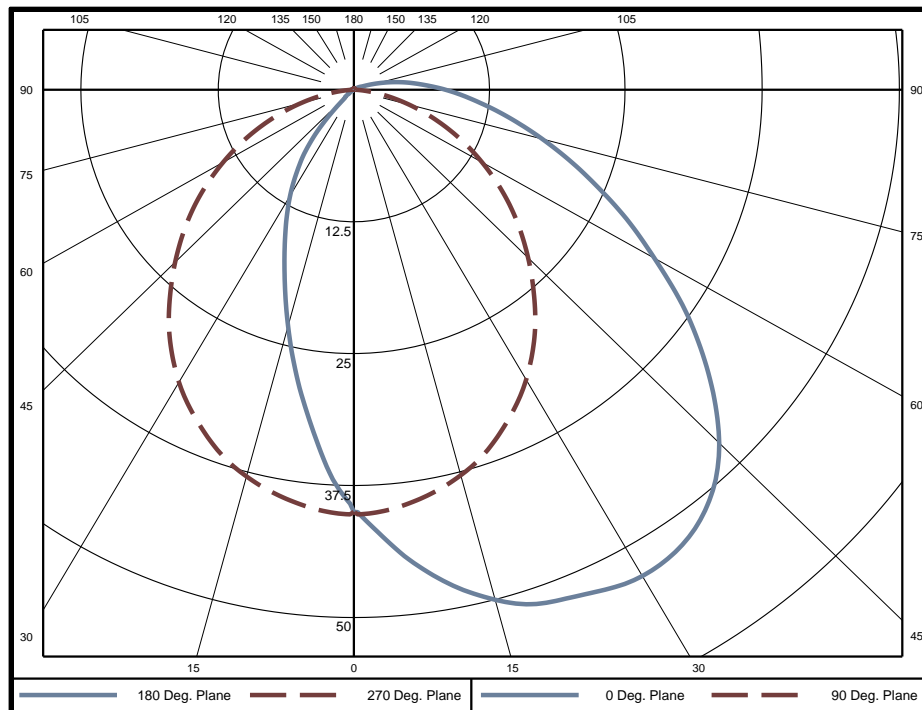
Luminaire Efficacy:

43.4 lm/w

Maximum Candela:

53 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.952	0.9%	60-65	6.478	5.9%	120-125	0.068	0.1%
5-10	2.795	2.5%	65-70	5.436	5.0%	125-130	0.048	0.0%
10-15	4.500	4.1%	70-75	4.407	4.0%	130-135	0.037	0.0%
15-20	6.010	5.5%	75-80	3.450	3.1%	135-140	0.029	0.0%
20-25	7.264	6.6%	80-85	2.580	2.4%	140-145	0.027	0.0%
25-30	8.291	7.6%	85-90	1.829	1.7%	145-150	0.026	0.0%
30-35	9.027	8.2%	90-95	1.225	1.1%	150-155	0.024	0.0%
35-40	9.397	8.6%	95-100	0.771	0.7%	155-160	0.021	0.0%
40-45	9.345	8.5%	100-105	0.448	0.4%	160-165	0.017	0.0%
45-50	8.945	8.2%	105-110	0.234	0.2%	165-170	0.013	0.0%
50-55	8.331	7.6%	110-115	0.139	0.1%	170-175	0.008	0.0%
55-60	7.458	6.8%	115-120	0.097	0.1%	175-180	0.003	0.0%

Zone	Lumens	% of Luminaire
0-40	48	44.0%
0-60	82	75.0%
0-90	106	97.1%
90-180	3	2.9%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
	0	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01	40.01
	5	43.60	43.53	42.72	41.24	39.90	38.17	36.82	35.40	34.53	35.40	36.82	38.17	39.90	41.24	42.72
	10	47.24	46.74	45.04	42.05	39.07	35.75	32.26	29.88	28.71	29.88	32.26	35.75	39.07	42.05	45.04
	15	50.02	49.28	46.72	42.50	37.90	32.68	27.89	24.65	23.30	24.65	27.89	32.68	37.90	42.50	46.72
	20	51.73	50.87	47.64	42.28	36.31	29.45	23.43	19.88	18.60	19.88	23.43	29.45	36.31	42.28	47.64
	25	52.50	51.56	47.68	41.37	34.23	26.08	19.27	15.86	14.88	15.86	19.27	26.08	34.23	41.37	47.68
	30	53.16	51.85	47.18	40.07	31.88	22.71	15.62	12.64	11.78	12.64	15.62	22.71	31.88	40.07	47.18
	35	52.63	51.12	45.85	38.05	29.13	19.19	12.33	9.65	8.75	9.65	12.33	19.19	29.13	38.05	45.85
	40	50.82	49.17	43.64	35.39	26.06	15.74	9.36	6.71	5.53	6.71	9.36	15.74	26.06	35.39	43.64
	45	47.49	46.00	40.88	32.49	22.95	12.55	6.65	3.41	1.87	3.41	6.65	12.55	22.95	32.49	40.88
	50	42.75	41.74	37.55	29.46	19.91	9.62	4.11	1.07	1.04	1.07	4.11	9.62	19.91	29.46	37.55
	55	37.53	36.66	33.46	26.13	16.83	6.89	1.54	0.51	0.62	0.51	1.54	6.89	16.83	26.13	33.46
	60	31.89	31.32	28.81	22.50	13.71	4.37	0.54	0.28	0.13	0.28	0.54	4.37	13.71	22.50	28.81
	65	26.85	26.31	24.15	18.87	10.73	2.24	0.21	0.12	0.07	0.12	0.21	2.24	10.73	18.87	24.15
	70	22.12	21.65	19.70	15.18	7.82	0.67	0.06	0.09	0.08	0.09	0.06	0.67	7.82	15.18	19.70
	75	17.89	17.45	15.67	11.59	5.12	0.14	0.04	0.09	0.08	0.09	0.04	0.14	5.12	11.59	15.67
	80	14.21	13.79	12.18	8.31	2.77	0.13	0.07	0.09	0.07	0.09	0.07	0.13	2.77	8.31	12.18
	85	11.06	10.64	9.05	5.41	0.95	0.12	0.06	0.08	0.07	0.08	0.06	0.12	0.95	5.41	9.05
	90	8.46	7.97	6.35	2.97	0.14	0.11	0.05	0.07	0.07	0.07	0.05	0.11	0.14	2.97	6.35
	95	6.12	5.62	3.98	1.19	0.09	0.05	0.13	0.06	0.06	0.06	0.13	0.05	0.09	1.19	3.98
	100	4.22	3.65	2.10	0.42	0.10	0.06	0.13	0.17	0.11	0.17	0.13	0.06	0.10	0.42	2.10
	105	2.50	2.01	0.87	0.22	0.09	0.07	0.08	0.11	0.23	0.11	0.08	0.07	0.09	0.22	0.87
	110	1.24	0.94	0.54	0.12	0.08	0.07	0.15	0.08	0.07	0.08	0.15	0.07	0.08	0.12	0.54
	115	0.72	0.62	0.34	0.08	0.08	0.08	0.15	0.12	0.08	0.12	0.15	0.08	0.08	0.08	0.34
	120	0.50	0.41	0.19	0.06	0.07	0.08	0.12	0.13	0.11	0.13	0.12	0.08	0.07	0.06	0.19
	125	0.31	0.24	0.12	0.06	0.08	0.09	0.09	0.10	0.12	0.10	0.09	0.09	0.08	0.06	0.12
	130	0.17	0.14	0.07	0.06	0.08	0.09	0.09	0.15	0.10	0.15	0.09	0.09	0.08	0.06	0.07
	135	0.09	0.08	0.05	0.07	0.08	0.10	0.09	0.08	0.09	0.08	0.09	0.10	0.08	0.07	0.05
	140	0.04	0.05	0.06	0.07	0.09	0.10	0.10	0.09	0.10	0.09	0.10	0.10	0.09	0.07	0.06
	145	0.03	0.04	0.07	0.08	0.10	0.11	0.11	0.10	0.10	0.11	0.11	0.10	0.08	0.07	0.04
	150	0.03	0.05	0.07	0.09	0.11	0.12	0.12	0.10	0.11	0.10	0.12	0.12	0.11	0.09	0.07
	155	0.03	0.05	0.08	0.10	0.11	0.12	0.12	0.10	0.11	0.10	0.12	0.12	0.11	0.10	0.08
	160	0.04	0.06	0.09	0.11	0.12	0.13	0.13	0.11	0.11	0.11	0.13	0.13	0.12	0.11	0.09
	165	0.05	0.07	0.10	0.11	0.13	0.13	0.12	0.11	0.11	0.11	0.12	0.13	0.13	0.11	0.10
	170	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.10	0.09	0.10	0.12	0.13	0.13	0.12	0.10
	175	0.07	0.08	0.11	0.12	0.13	0.12	0.11	0.09	0.08	0.09	0.11	0.12	0.13	0.12	0.11
	180	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11

Average Luminance (cd/m²)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
	0	24810	24810
	45	27760	19170
	55	23670	16980
	65	19010	14210
	75	14960	10330
	85	11720	4322



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	130	130	130	130	126	126	126	126	120	120	120	114	114	114	109	109	109	106
1	118	112	107	103	114	109	105	101	104	100	97	99	96	93	95	92	90	87
2	107	98	90	84	104	95	88	82	91	85	80	87	82	78	83	79	75	73
3	98	86	77	70	95	84	76	69	80	73	67	77	71	65	73	68	64	61
4	90	76	67	59	87	75	66	59	71	64	57	68	62	56	66	60	55	53
5	82	68	58	51	80	67	58	51	64	56	50	62	54	49	59	53	48	46
6	76	62	52	45	74	60	51	44	58	50	44	56	49	43	54	47	42	40
7	71	56	46	40	69	55	46	39	53	45	39	51	44	38	49	43	38	36
8	66	51	42	35	64	50	41	35	48	40	35	47	40	34	45	39	34	32
9	62	47	38	32	60	46	38	32	45	37	31	43	36	31	42	35	31	29
10	58	43	35	29	56	43	34	29	41	34	29	40	33	28	39	33	28	26

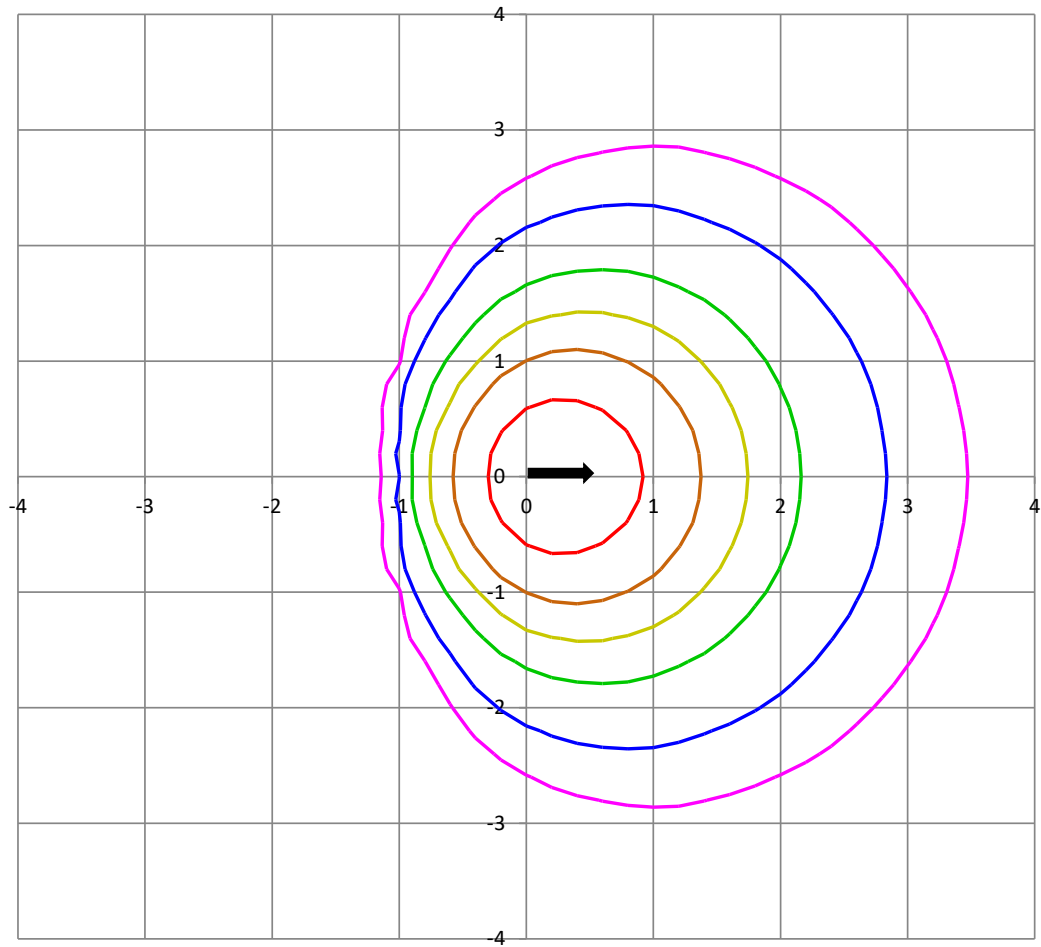
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	40.01 Candela
Central Cone Intensity:	40 Candela
Beam Flux:	81.6 Lumens
Beam Angle (0-180):	90.8 Degrees
Beam Angle (90-270):	99.7 Degrees
Field Angle (0-180):	142.6 Degrees
Field Angle (90-270):	154.5 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		2.50	4.75
6.00		1.11	7.13
8.00		0.625	9.51
10.0		0.400	11.9
12.0		0.278	14.3
14.0		0.204	16.6
16.0		0.156	19.0

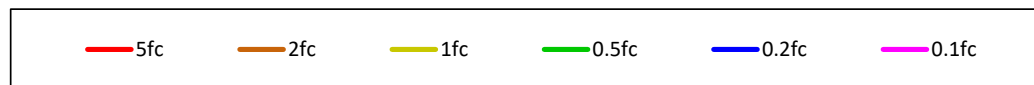


ISOFootcandle Plot

Mounting Height - 2 Feet



Grid Lines in Units of Mounting Height





IES "BUG" Rating
(Back Light, Uplight, Glare)
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	19.2	17.5%
FM	(30-60)	42.6	38.8%
FH	(60-80)	18.5	16.9%
FVH	(80-90)	4.3	3.9%
BL	(0-30)	10.6	9.7%
BM	(30-60)	9.9	9.1%
BH	(60-80)	1.2	1.1%
BVH	(80-90)	0.1	0.1%
UL	(90-100)	2.0	1.8%
UH	(100-180)	1.2	1.1%
Total		109.7	100.0%
BUG Rating	B0 U1 G0		