



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
LMG1-AF-30 (3000K)

Order Number
14012719
Test Number
14012719.03

Test Date

2021-09-23

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: Cylindrical copper stem with adjustable cylindrical brass top and glass lens
Lamp: One white LED
Mounting: Bollard
Ballast/Driver: PROPRIETARY

Luminaire



Luminaire Characteristics

Luminous Length: 1.25 in.
Luminous Width: 1.250 in.
Luminous Height: 0.25 in.

Summary of Results

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

Test Conditions

Test Temperature: 25.4 °C
Voltage: 12.14 VAC
Current: 0.4121 A
Power: 3.098 W
Power Factor: 0.619
Frequency: 60 Hz
Current THD: 83.7 %

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
25.4 °C	12.14 VAC	0.4121 A	3.098 W	0.619	60 Hz	83.7 %

Summary of Results

Spacing Criteria

0-180: 1.19

90-270: 1.34

Total Lumen Output:

211.0 Lumens

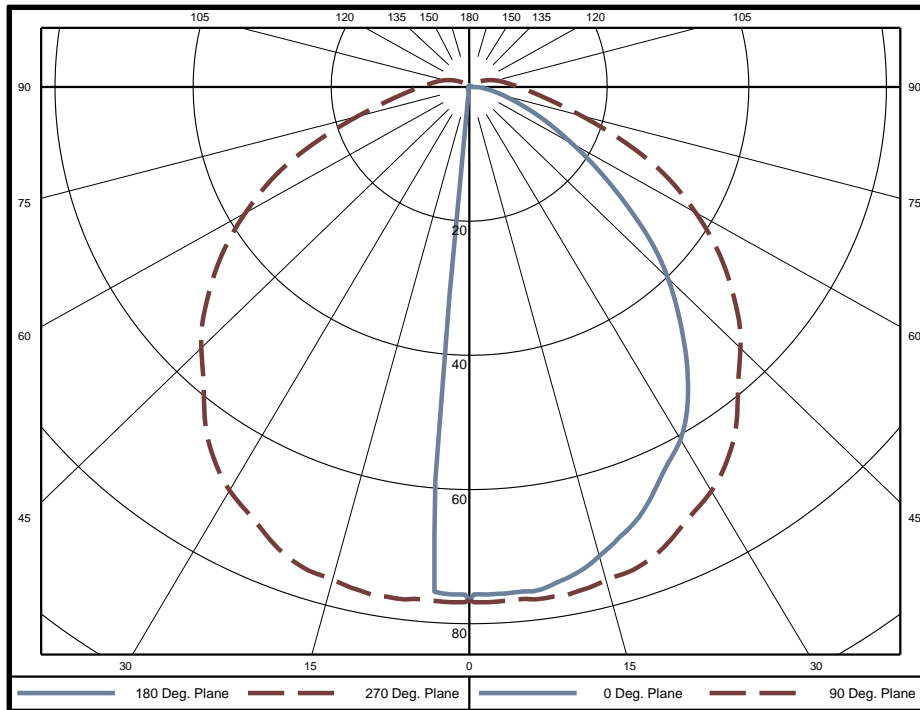
Luminaire Efficacy:

68.1 lm/w

Maximum Candela:

77 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.82	0.9%	60-65	12.46	5.9%	120-125	0.29	0.1%
5-10	4.95	2.3%	65-70	10.07	4.8%	125-130	0.19	0.1%
10-15	8.36	4.0%	70-75	7.57	3.6%	130-135	0.12	0.1%
15-20	11.47	5.4%	75-80	5.49	2.6%	135-140	0.08	0.0%
20-25	14.11	6.7%	80-85	3.98	1.9%	140-145	0.05	0.0%
25-30	16.24	7.7%	85-90	2.93	1.4%	145-150	0.05	0.0%
30-35	17.87	8.5%	90-95	2.17	1.0%	150-155	0.04	0.0%
35-40	18.49	8.8%	95-100	1.65	0.8%	155-160	0.03	0.0%
40-45	18.31	8.7%	100-105	1.26	0.6%	160-165	0.03	0.0%
45-50	17.78	8.4%	105-110	0.93	0.4%	165-170	0.02	0.0%
50-55	16.47	7.8%	110-115	0.66	0.3%	170-175	0.01	0.0%
55-60	14.65	6.9%	115-120	0.45	0.2%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	93	44.2%
0-60	161	76.1%
0-90	203	96.2%
90-180	8	3.8%



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	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48	76.48
	5	75.60	76.38	76.60	76.70	76.67	76.60	76.53	76.29	58.71	76.29	76.53	76.60	76.67	76.70	76.60
	10	74.83	75.64	76.13	76.83	77.09	76.62	76.30	51.21	0.51	51.21	76.30	76.62	77.09	76.83	76.13
	15	72.42	73.68	74.93	75.90	76.08	75.92	75.73	74.55	0.44	74.55	75.73	75.92	76.08	75.90	74.93
	20	69.30	70.85	72.76	74.39	75.08	74.85	74.39	72.69	0.45	72.69	74.39	74.85	75.08	74.39	72.76
	25	64.86	66.98	69.53	71.50	72.17	72.14	71.38	69.38	0.38	69.38	71.38	72.14	72.17	71.50	69.53
	30	60.92	63.06	66.29	68.68	69.46	69.57	68.39	65.90	0.33	65.90	68.39	69.57	69.46	68.68	66.29
	35	55.15	57.61	61.67	64.52	65.53	65.41	63.91	60.83	0.29	60.83	63.91	65.41	65.53	64.52	61.67
	40	47.96	50.33	55.15	58.58	59.88	59.40	57.42	53.59	0.34	53.59	57.42	59.40	59.88	58.58	55.15
	45	40.77	43.63	49.56	53.59	54.95	54.33	51.78	46.46	0.32	46.46	51.78	54.33	54.95	53.59	49.56
	50	32.76	36.38	43.68	48.29	49.69	48.97	45.79	38.52	0.20	38.52	45.79	48.97	49.69	48.29	43.68
	55	24.49	29.03	37.71	42.59	43.89	43.34	39.55	30.33	0.17	30.33	39.55	43.34	43.89	42.59	37.71
	60	17.62	22.13	31.48	36.17	37.47	36.84	32.95	22.63	0.14	22.63	32.95	36.84	37.47	36.17	31.48
	65	12.44	16.52	25.60	29.72	30.88	30.26	26.62	16.46	0.11	16.46	26.62	30.26	30.88	29.72	25.60
	70	8.34	11.88	19.54	22.59	23.36	23.01	20.13	11.57	0.11	11.57	20.13	23.01	23.36	22.59	19.54
	75	5.42	8.30	14.27	16.33	16.69	16.51	14.43	7.95	0.17	7.95	14.43	16.51	16.69	16.33	14.27
	80	3.49	5.70	10.16	11.76	12.04	11.76	10.13	5.35	0.18	5.35	10.13	11.76	12.04	11.76	10.16
	85	2.02	3.87	7.32	8.80	9.08	8.69	7.19	3.55	0.13	3.55	7.19	8.69	9.08	8.80	7.32
	90	0.57	2.63	5.37	6.82	7.16	6.69	5.19	2.34	0.05	2.34	5.19	6.69	7.16	6.82	5.37
	95	0.33	1.75	3.93	5.34	5.71	5.22	3.74	1.52	0.05	1.52	3.74	5.22	5.71	5.34	3.93
	100	0.29	1.18	2.95	4.33	4.73	4.22	2.79	0.99	0.05	0.99	2.79	4.22	4.73	4.33	2.95
	105	0.27	0.79	2.16	3.44	3.85	3.35	2.03	0.63	0.06	0.63	2.03	3.35	3.85	3.44	2.16
	110	0.24	0.52	1.53	2.65	3.02	2.57	1.42	0.38	0.06	0.38	1.42	2.57	3.02	2.65	1.53
	115	0.21	0.35	1.02	1.94	2.28	1.89	0.93	0.22	0.07	0.22	0.93	1.89	2.28	1.94	1.02
	120	0.19	0.27	0.69	1.36	1.63	1.31	0.61	0.13	0.08	0.13	0.61	1.31	1.63	1.36	0.69
	125	0.16	0.24	0.47	0.87	1.07	0.83	0.39	0.10	0.09	0.10	0.39	0.83	1.07	0.87	0.47
	130	0.15	0.22	0.30	0.59	0.70	0.55	0.22	0.10	0.10	0.10	0.22	0.55	0.70	0.59	0.30
	135	0.12	0.22	0.23	0.37	0.44	0.33	0.13	0.10	0.12	0.10	0.13	0.33	0.44	0.37	0.23
	140	0.11	0.21	0.22	0.20	0.23	0.16	0.12	0.11	0.13	0.11	0.12	0.16	0.23	0.20	0.22
	145	0.11	0.20	0.21	0.19	0.15	0.13	0.12	0.12	0.14	0.12	0.12	0.13	0.15	0.19	0.21
	150	0.11	0.20	0.20	0.18	0.15	0.13	0.13	0.13	0.16	0.13	0.13	0.13	0.15	0.18	0.20
	155	0.12	0.19	0.20	0.17	0.15	0.14	0.14	0.14	0.17	0.14	0.14	0.14	0.15	0.17	0.20
	160	0.13	0.18	0.20	0.17	0.15	0.15	0.15	0.15	0.18	0.15	0.15	0.15	0.15	0.17	0.20
	165	0.14	0.17	0.17	0.17	0.15	0.16	0.17	0.16	0.18	0.16	0.17	0.16	0.15	0.17	0.17
	170	0.15	0.16	0.16	0.16	0.15	0.17	0.19	0.20	0.21	0.20	0.19	0.17	0.15	0.16	0.16
	175	0.17	0.16	0.15	0.14	0.14	0.16	0.18	0.19	0.18	0.19	0.18	0.16	0.14	0.14	0.15
	180	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	75870	75870
	45	47670	64250
	55	32950	59050
	65	20430	50740
	75	11890	36630
	85	6986	31460



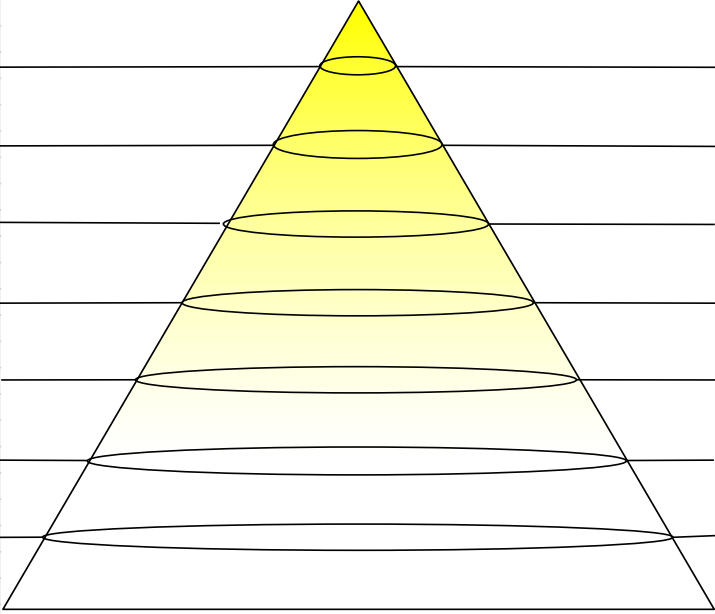
Utilization of Lumens - Zonal Cavity Method

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	249	249	249	249	243	243	243	243	230	230	230	219	219	219	208	208	208	203
1	227	217	207	199	220	211	203	195	201	194	187	191	185	180	182	178	173	168
2	207	189	175	162	200	184	171	160	176	165	155	168	158	150	160	152	146	141
3	189	166	149	135	183	162	147	134	155	141	130	148	137	127	142	132	124	119
4	173	148	129	115	167	144	127	114	138	123	111	132	119	109	127	116	107	102
5	159	132	113	99	154	129	112	98	124	108	97	119	105	95	114	102	93	88
6	147	119	100	87	142	117	99	86	112	96	85	108	94	83	104	91	82	77
7	136	108	90	77	132	106	88	76	102	86	75	98	84	74	95	82	73	69
8	127	99	81	68	123	97	80	68	93	78	67	90	76	66	87	75	65	61
9	119	90	73	62	115	89	72	61	86	71	60	83	69	60	80	68	59	55
10	111	83	67	56	108	82	66	56	79	65	55	77	64	54	75	62	54	50

Beam and Field Information

CIE Type:	Direct
Center Beam Intensity:	76.48 Candela
Central Cone Intensity:	76 Candela
Beam Flux:	146.2 Lumens
Beam Angle (0-180):	52.1 Degrees
Beam Angle (90-270):	118.8 Degrees
Field Angle (0-180):	77.0 Degrees
Field Angle (90-270):	177.1 Degrees

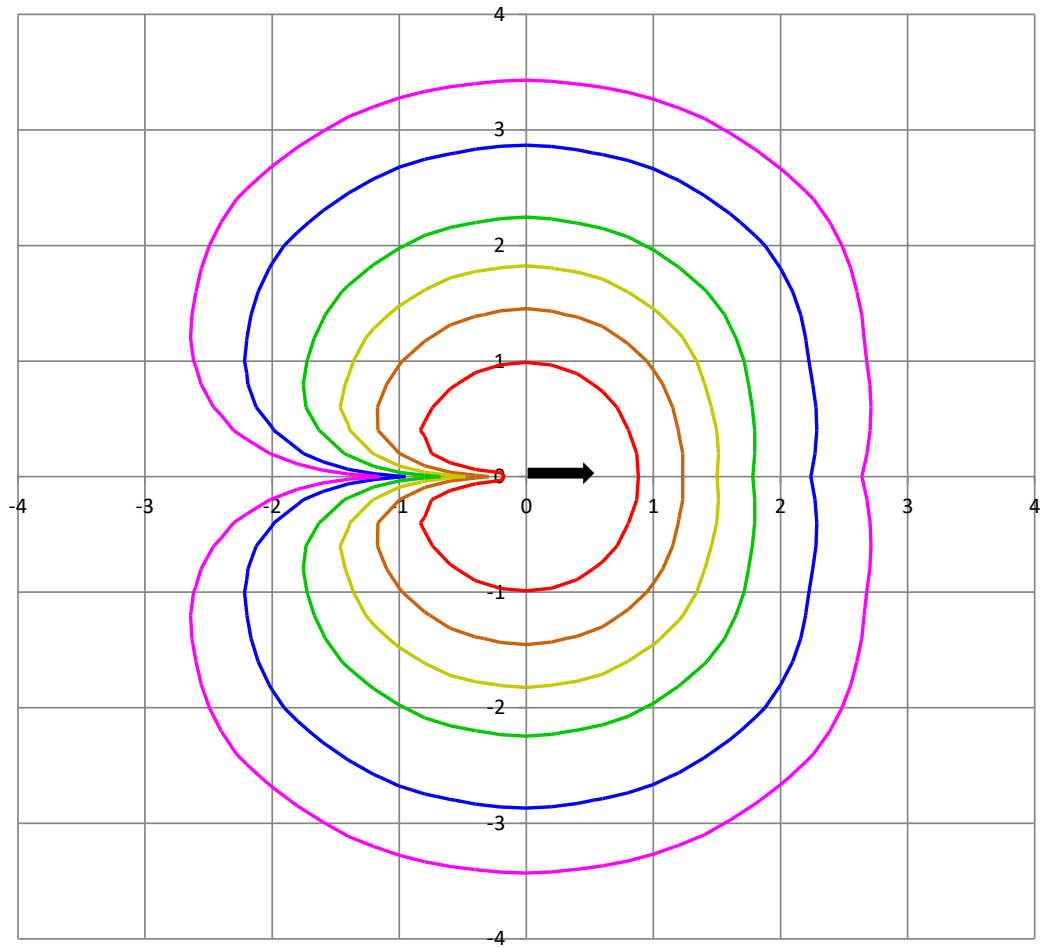
Cone of Light Tabulation

Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		4.78	4.90
6.00		2.12	7.35
8.00		1.20	9.80
10.0		0.765	12.2
12.0		0.531	14.7
14.0		0.390	17.1
16.0		0.299	19.6



ISOFootcandle Plot

Mounting Height - 2 Feet



Grid Lines in Units of Mounting Height

5fc 2fc 1fc 0.5fc 0.2fc 0.1fc



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	30.2	14.2%
FM	(30-60)	53.7	25.2%
FH	(60-80)	18.2	8.6%
FVH	(80-90)	3.6	1.7%
BL	(0-30)	27.3	12.8%
BM	(30-60)	50.9	23.9%
BH	(60-80)	17.5	8.2%
BVH	(80-90)	3.4	1.6%
UL	(90-100)	3.8	1.8%
UH	(100-180)	4.2	2.0%
Total		212.8	100.0%
BUG Rating	B0 U1 G0		