



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
LMG1-90-30 (3000K)

Order Number
14012719
Test Number
14012719.02

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.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Cylindrical copper stem with 90° 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: 25.0 °C
Voltage: 12.11 VAC
Current: 0.4131 A
Power: 3.097 W
Power Factor: 0.619
Frequency: 60 Hz
Current THD: 79.9 %

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
25.0 °C	12.11 VAC	0.4131 A	3.097 W	0.619	60 Hz	79.9 %

Summary of Results

Spacing Criteria

0-180: 1.28
90-270: 1.44

Total Lumen Output:

200.9 Lumens

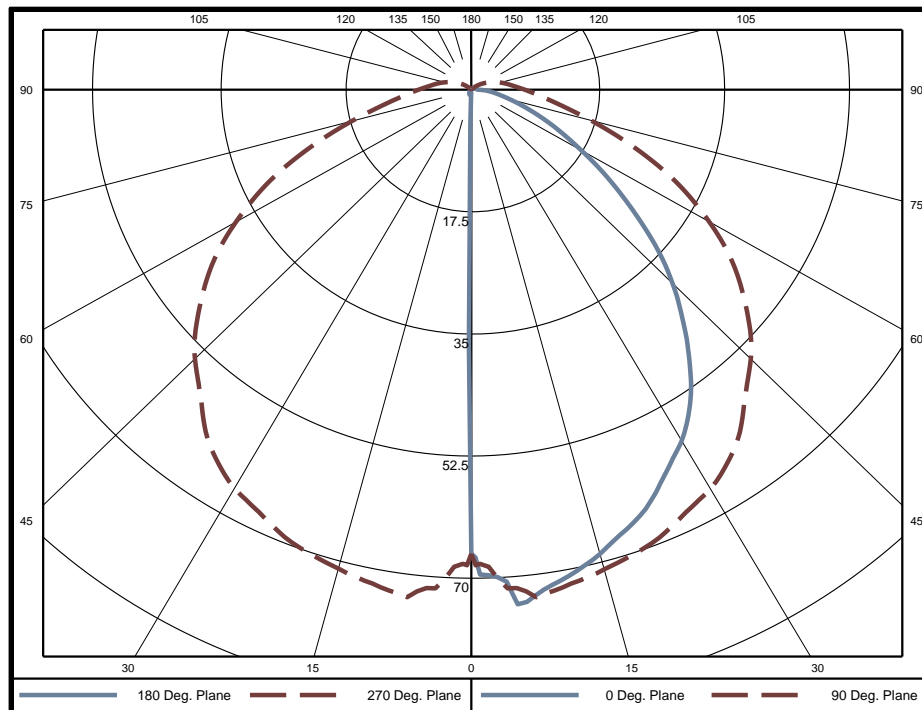
Luminaire Efficacy:

64.9 lm/w

Maximum Candela:

74 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.31	0.7%	60-65	12.32	6.1%	120-125	0.32	0.2%
5-10	4.48	2.2%	65-70	9.98	5.0%	125-130	0.19	0.1%
10-15	7.30	3.6%	70-75	7.57	3.8%	130-135	0.11	0.1%
15-20	10.23	5.1%	75-80	5.52	2.7%	135-140	0.07	0.0%
20-25	12.84	6.4%	80-85	4.04	2.0%	140-145	0.06	0.0%
25-30	14.91	7.4%	85-90	3.01	1.5%	145-150	0.05	0.0%
30-35	16.54	8.2%	90-95	2.27	1.1%	150-155	0.04	0.0%
35-40	17.36	8.6%	95-100	1.75	0.9%	155-160	0.03	0.0%
40-45	17.44	8.7%	100-105	1.36	0.7%	160-165	0.03	0.0%
45-50	17.10	8.5%	105-110	1.02	0.5%	165-170	0.02	0.0%
50-55	16.03	8.0%	110-115	0.73	0.4%	170-175	0.01	0.0%
55-60	14.40	7.2%	115-120	0.50	0.2%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	85	42.3%
0-60	150	74.6%
0-90	192	95.8%
90-180	9	4.3%



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	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50	66.50
	5	74.01	74.00	73.01	72.28	71.69	70.83	39.60	29.18	0.45	29.18	39.60	70.83	71.69	72.28	73.01
	10	71.43	72.39	72.61	72.63	72.42	71.92	71.17	18.32	0.54	18.32	71.17	71.92	72.42	72.63	72.61
	15	68.92	70.34	71.03	71.22	71.09	70.73	69.98	41.63	0.73	41.63	69.98	70.73	71.09	71.22	71.03
	20	65.99	67.82	69.11	69.87	69.83	69.32	68.21	49.49	0.72	49.49	68.21	69.32	69.83	69.87	69.11
	25	62.21	64.27	66.37	67.64	67.83	67.11	65.41	50.94	0.37	50.94	65.41	67.11	67.83	67.64	66.37
	30	58.34	60.72	63.77	65.52	65.95	64.98	62.67	49.34	0.45	49.34	62.67	64.98	65.95	65.52	63.77
	35	53.22	56.00	60.02	62.43	62.98	61.83	58.80	46.26	0.39	46.26	58.80	61.83	62.98	62.43	60.02
	40	46.58	49.61	54.68	57.87	58.42	57.11	53.43	41.49	0.32	41.49	53.43	57.11	58.42	57.87	54.68
	45	39.72	43.44	49.77	53.55	54.40	52.67	48.40	36.70	0.26	36.70	48.40	52.67	54.40	53.55	49.77
	50	32.18	36.69	44.35	48.66	49.54	47.68	42.96	31.16	0.22	31.16	42.96	47.68	49.54	48.66	44.35
	55	24.62	29.68	38.66	43.15	44.17	42.22	37.21	25.43	0.14	25.43	37.21	42.22	44.17	43.15	38.66
	60	18.05	22.86	32.43	36.86	37.77	35.97	31.05	19.77	0.11	19.77	31.05	35.97	37.77	36.86	32.43
	65	12.93	17.10	26.19	30.22	30.94	29.42	25.03	15.02	0.09	15.02	25.03	29.42	30.94	30.22	26.19
	70	8.83	12.33	19.85	23.08	23.57	22.38	18.97	11.08	0.08	11.08	18.97	22.38	23.57	23.08	19.85
	75	5.80	8.68	14.35	16.78	17.08	16.14	13.63	7.96	0.06	7.96	13.63	16.14	17.08	16.78	14.35
	80	3.78	6.04	10.19	12.12	12.35	11.58	9.62	5.54	0.06	5.54	9.62	11.58	12.35	12.12	10.19
	85	2.43	4.22	7.41	9.09	9.35	8.67	6.92	3.76	0.08	3.76	6.92	8.67	9.35	9.09	7.41
	90	0.89	2.99	5.54	7.09	7.37	6.73	5.10	2.52	0.05	2.52	5.10	6.73	7.37	7.09	5.54
	95	0.74	2.12	4.16	5.60	5.92	5.31	3.77	1.65	0.05	1.65	3.77	5.31	5.92	5.60	4.16
	100	0.62	1.53	3.21	4.58	4.93	4.33	2.85	1.09	0.06	1.09	2.85	4.33	4.93	4.58	3.21
	105	0.48	1.09	2.43	3.69	4.04	3.48	2.11	0.68	0.06	0.68	2.11	3.48	4.04	3.69	2.43
	110	0.37	0.76	1.78	2.88	3.21	2.71	1.50	0.39	0.06	0.39	1.50	2.71	3.21	2.88	1.78
	115	0.29	0.55	1.24	2.16	2.44	2.01	0.99	0.20	0.07	0.20	0.99	2.01	2.44	2.16	1.24
	120	0.24	0.41	0.80	1.53	1.77	1.40	0.58	0.13	0.08	0.13	0.58	1.40	1.77	1.53	0.80
	125	0.17	0.33	0.49	0.99	1.18	0.87	0.26	0.10	0.09	0.10	0.26	0.87	1.18	0.99	0.49
	130	0.12	0.27	0.38	0.55	0.67	0.43	0.15	0.10	0.10	0.10	0.15	0.43	0.67	0.55	0.38
	135	0.10	0.22	0.34	0.31	0.29	0.18	0.14	0.10	0.12	0.10	0.14	0.18	0.29	0.31	0.34
	140	0.10	0.20	0.30	0.28	0.21	0.16	0.13	0.11	0.13	0.11	0.13	0.16	0.21	0.28	0.30
	145	0.10	0.18	0.27	0.26	0.20	0.15	0.13	0.12	0.15	0.12	0.13	0.15	0.20	0.26	0.27
	150	0.10	0.17	0.24	0.24	0.19	0.15	0.13	0.13	0.16	0.13	0.13	0.15	0.19	0.24	0.24
	155	0.12	0.16	0.21	0.21	0.18	0.15	0.14	0.14	0.17	0.14	0.14	0.15	0.18	0.21	0.21
	160	0.13	0.16	0.20	0.20	0.17	0.15	0.15	0.15	0.17	0.15	0.15	0.15	0.17	0.20	0.20
	165	0.14	0.16	0.18	0.18	0.16	0.16	0.15	0.16	0.17	0.16	0.15	0.16	0.16	0.18	0.18
	170	0.14	0.16	0.16	0.16	0.16	0.17	0.17	0.16	0.17	0.16	0.17	0.17	0.16	0.16	0.16
	175	0.15	0.14	0.14	0.14	0.14	0.16	0.18	0.21	0.17	0.21	0.18	0.16	0.14	0.14	0.14
	180	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

Average Luminance (cd/m²)

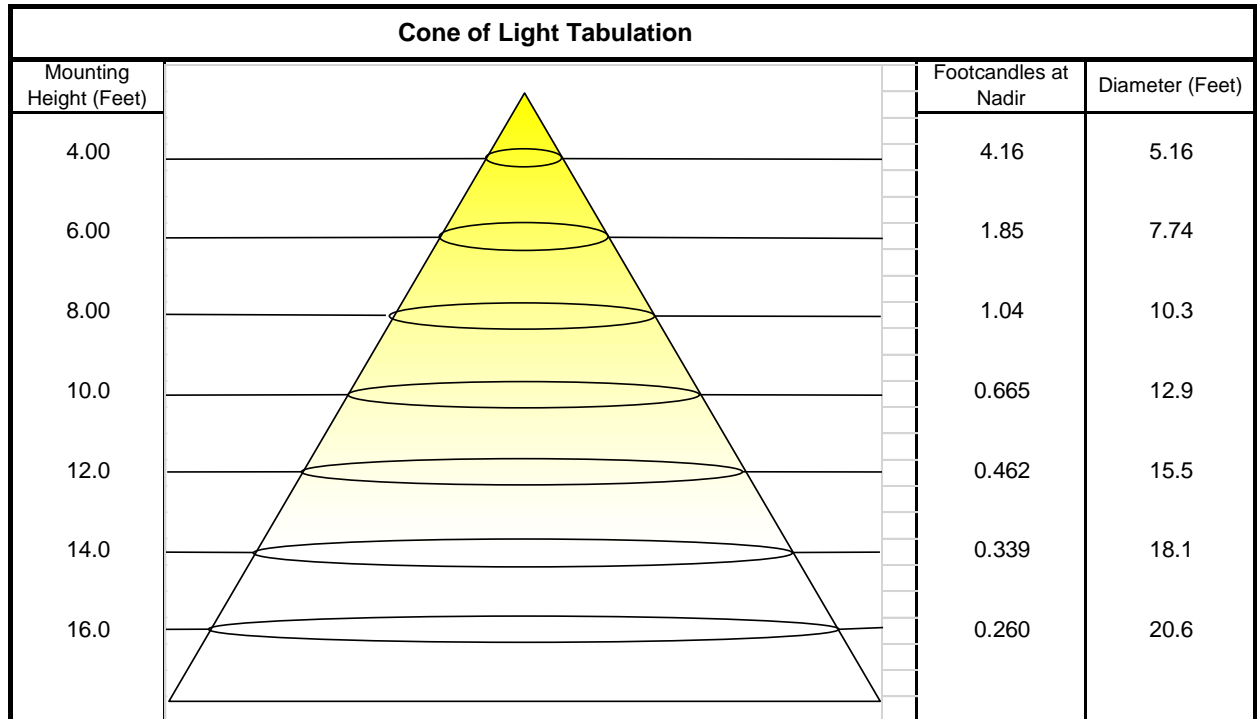
		Horizontal Angle (Degrees)		
		0	45	90
Vertical Angle (Degrees)	0	65970	65970	65970
	45	46440	54430	63600
	55	33120	47620	59420
	65	21240	38270	50830
	75	12740	26750	37490
	85	8414	19920	32380



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	237	237	237	237	231	231	231	231	219	219	219	207	207	207	197	197	197	192
1	215	205	196	188	209	200	192	184	190	183	177	180	175	170	172	167	163	159
2	196	179	165	153	190	174	161	150	166	155	146	158	149	141	150	143	137	132
3	178	157	140	127	173	153	138	125	146	133	122	139	128	119	133	124	116	111
4	163	139	121	107	158	136	119	106	129	115	104	124	111	101	118	108	99	94
5	150	124	106	92	145	121	104	91	116	101	90	111	98	88	106	95	86	82
6	138	111	93	80	134	109	92	80	105	89	78	100	87	77	96	85	76	71
7	128	101	83	71	124	99	82	70	95	80	69	91	78	68	88	76	67	63
8	119	92	75	63	116	90	74	63	87	72	62	84	70	61	81	69	60	56
9	111	84	68	57	108	83	67	56	80	65	55	77	64	55	74	63	54	50
10	104	78	62	51	101	76	61	51	74	60	50	71	59	50	69	57	49	45

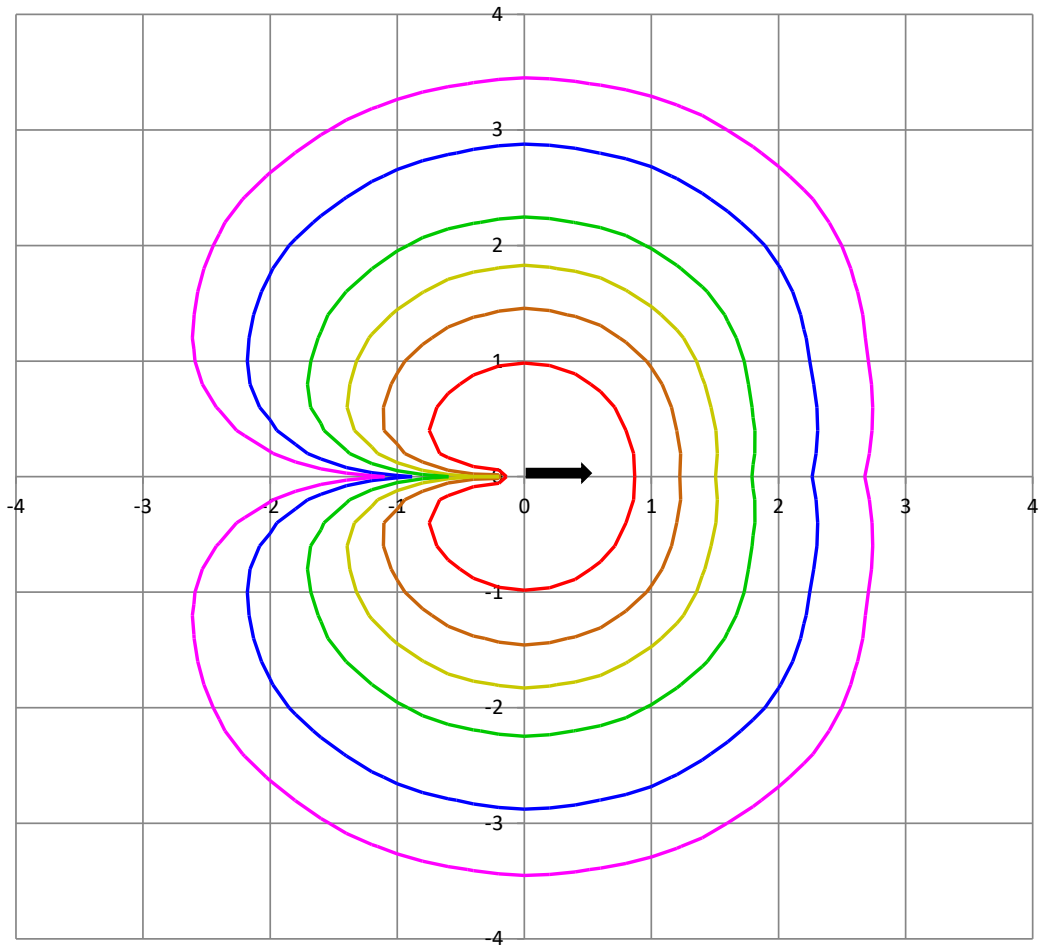
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	66.50 Candela
Central Cone Intensity:	57 Candela
Beam Flux:	144.7 Lumens
Beam Angle (0-180):	49.9 Degrees
Beam Angle (90-270):	126.7 Degrees
Field Angle (0-180):	74.7 Degrees
Field Angle (90-270):	184.5 Degrees





ISOFootcandle Plot

Mounting Height - 2 Feet

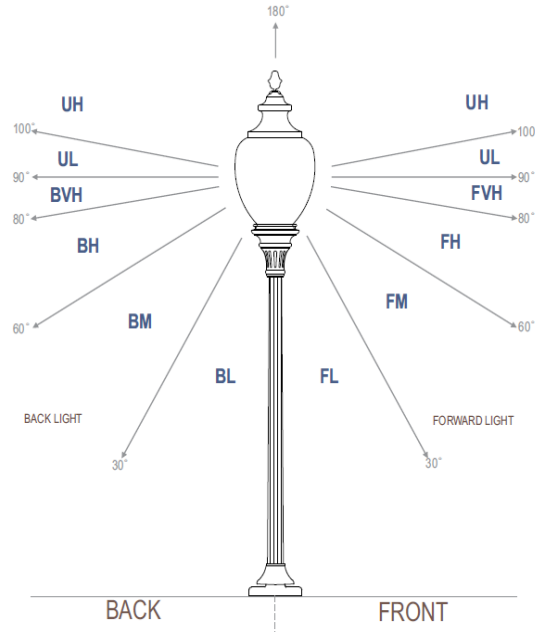


Grid Lines in Units of Mounting Height

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)	28.7	14.4%
FM	(30-60)	53.3	26.7%
FH	(60-80)	18.7	9.3%
FVH	(80-90)	3.7	1.9%
BL	(0-30)	21.9	11.0%
BM	(30-60)	44.7	22.4%
BH	(60-80)	16.7	8.4%
BVH	(80-90)	3.4	1.7%
UL	(90-100)	4.0	2.0%
UH	(100-180)	4.5	2.3%
Total		199.7	100.0%
BUG Rating	B0 U1 G0		