



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-T-30 (3000K)
Order Number
13301191
Test Number
13301191.01A

Test Date

2020-04-06

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 cylindrical brass T and twin glass lens apertures
Lamp: Two
Mounting: Path/Area Light

Luminaire



Luminaire Characteristics

Luminous Length: 1.13 in.
Luminous Width: 6.250 in.
Luminous Height: 0.25 in.

Summary of Results

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

Test Conditions

Test Temperature: 24.6 °C
Voltage: 11.99 VAC
Current: 0.6136 A
Power: 7.241 W
Power Factor: 0.984
Frequency: 60 Hz
Current THD: 13.3 %

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

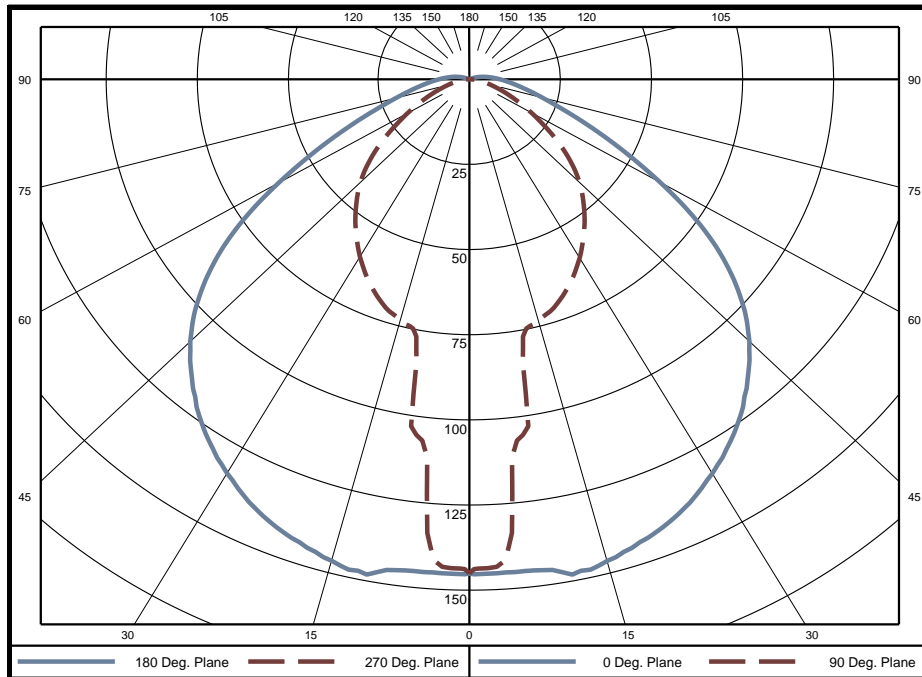
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	11.99 VAC	0.6136 A	7.241 W	0.984	60 Hz	13.3 %

Summary of Results

Spacing Criteria
 0-180: 1.36
 90-270: 0.39

Total Lumen Output: 381.3 Lumens
Luminaire Efficacy: 52.7 lm/w
Maximum Candela: 148 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.45	0.9%	60-65	21.99	5.8%	120-125	0.00	0.0%
5-10	9.76	2.6%	65-70	16.31	4.3%	125-130	0	0.0%
10-15	15.78	4.1%	70-75	11.51	3.0%	130-135	0	0.0%
15-20	21.50	5.6%	75-80	8.05	2.1%	135-140	0	0.0%
20-25	26.60	7.0%	80-85	5.58	1.5%	140-145	0	0.0%
25-30	30.62	8.0%	85-90	3.80	1.0%	145-150	0	0.0%
30-35	33.75	8.9%	90-95	2.52	0.7%	150-155	0	0.0%
35-40	35.64	9.3%	95-100	1.63	0.4%	155-160	0	0.0%
40-45	36.20	9.5%	100-105	0.95	0.2%	160-165	0	0.0%
45-50	35.14	9.2%	105-110	0.47	0.1%	165-170	0	0.0%
50-55	32.26	8.5%	110-115	0.17	0.0%	170-175	0	0.0%
55-60	27.65	7.3%	115-120	0.03	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	177	46.4%
0-60	308	80.9%
0-90	376	98.5%
90-180	6	1.5%



Candela Tabulation
Horizontal 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	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1
5	145.2	146.6	145.6	140.0	133.7	140.0	145.6	146.6	145.2	146.6	145.6	140.0	133.7	140.0	145.6	146.6
10	146.9	147.6	145.6	127.9	84.2	127.9	145.6	147.6	146.9	147.6	145.6	127.9	84.2	127.9	145.6	147.6
15	146.3	146.4	142.0	128.0	73.1	128.0	142.0	146.4	146.3	146.4	142.0	128.0	73.1	128.0	142.0	146.4
20	143.2	142.4	137.5	131.6	70.1	131.6	137.5	142.4	143.2	142.4	137.5	131.6	70.1	131.6	137.5	142.4
25	139.1	137.8	129.1	126.4	65.6	126.4	129.1	137.8	139.1	137.8	129.1	126.4	65.6	126.4	129.1	137.8
30	133.5	131.8	125.0	118.6	60.5	118.6	125.0	131.8	133.5	131.8	125.0	118.6	60.5	118.6	125.0	131.8
35	126.7	124.7	118.6	110.0	54.7	110.0	118.6	124.7	126.7	124.7	118.6	110.0	54.7	110.0	118.6	124.7
40	118.4	116.4	110.1	99.9	48.8	99.9	110.1	116.4	118.4	116.4	110.1	99.9	48.8	99.9	110.1	116.4
45	108.7	107.0	100.6	88.1	42.6	88.1	100.6	107.0	108.7	107.0	100.6	88.1	42.6	88.1	100.6	107.0
50	96.3	95.0	88.9	74.1	35.1	74.1	88.9	95.0	96.3	95.0	88.9	74.1	35.1	74.1	88.9	95.0
55	80.3	80.5	75.9	59.1	26.9	59.1	75.9	80.5	80.3	80.5	75.9	59.1	26.9	59.1	75.9	80.5
60	60.5	63.1	62.0	44.8	19.6	44.8	62.0	63.1	60.5	63.1	62.0	44.8	19.6	44.8	62.0	63.1
65	42.7	45.6	47.5	32.3	13.6	32.3	47.5	45.6	42.7	45.6	47.5	32.3	13.6	32.3	47.5	45.6
70	29.4	31.4	33.4	22.2	9.1	22.2	33.4	31.4	29.4	31.4	33.4	22.2	9.1	22.2	33.4	31.4
75	20.8	21.8	22.6	14.7	5.8	14.7	22.6	21.8	20.8	21.8	22.6	14.7	5.8	14.7	22.6	21.8
80	15.2	15.6	15.2	9.3	3.5	9.3	15.2	15.6	15.2	15.6	15.2	9.3	3.5	9.3	15.2	15.6
85	11.4	11.3	10.2	5.7	1.6	5.7	10.2	11.3	11.4	11.3	10.2	5.7	1.6	5.7	10.2	11.3
90	8.5	8.2	6.7	3.2	0.3	3.2	6.7	8.2	8.5	8.2	6.7	3.2	0.3	3.2	6.7	8.2
95	6.2	5.8	4.3	1.6	0.0	1.6	4.3	5.8	6.2	5.8	4.3	1.6	0.0	1.6	4.3	5.8
100	4.4	4.0	2.5	0.6	0.0	0.6	2.5	4.0	4.4	4.0	2.5	0.6	0.0	0.6	2.5	4.0
105	2.8	2.5	1.2	0.1	0.0	0.1	1.2	2.5	2.8	2.5	1.2	0.1	0.0	0.1	1.2	2.5
110	1.4	1.2	0.3	0.0	0.0	0.0	0.3	1.2	1.4	1.2	0.3	0.0	0.0	0.0	0.3	1.2
115	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.3
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

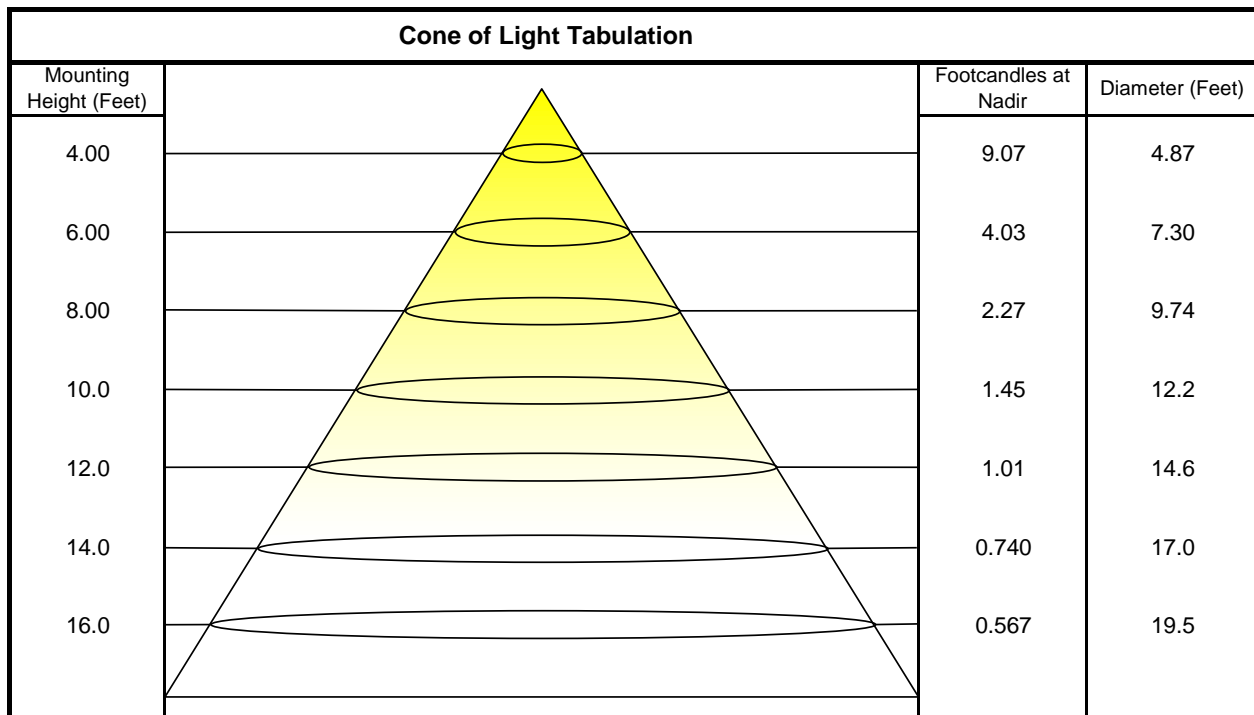
	0	45	90
0	31840	31840	31840
45	27630	26340	12700
55	23330	22980	9740
65	15030	17650	6514
75	9649	11320	4259
85	8113	8278	2812



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	453	453	453	453	441	441	441	441	421	421	421	401	401	401	384	384	384	376
1	414	397	381	366	403	387	373	360	370	358	347	354	345	336	340	332	325	316
2	378	348	322	301	368	340	317	297	326	306	289	312	296	282	300	287	275	266
3	346	307	276	252	336	300	272	250	288	264	244	277	257	239	266	249	235	226
4	317	272	240	215	308	267	237	213	257	230	209	247	224	206	238	219	203	194
5	292	244	210	185	284	239	208	184	231	203	182	223	198	179	215	194	177	169
6	270	220	186	162	262	216	184	161	209	180	159	202	177	158	195	173	156	148
7	250	199	167	143	243	196	165	143	190	162	141	184	159	140	178	156	138	131
8	233	182	150	128	227	179	149	127	174	146	126	168	143	125	164	141	124	117
9	218	167	136	115	212	165	135	115	160	133	114	155	131	113	151	129	112	105
10	204	154	124	104	199	152	123	104	148	121	103	144	120	103	140	118	102	95

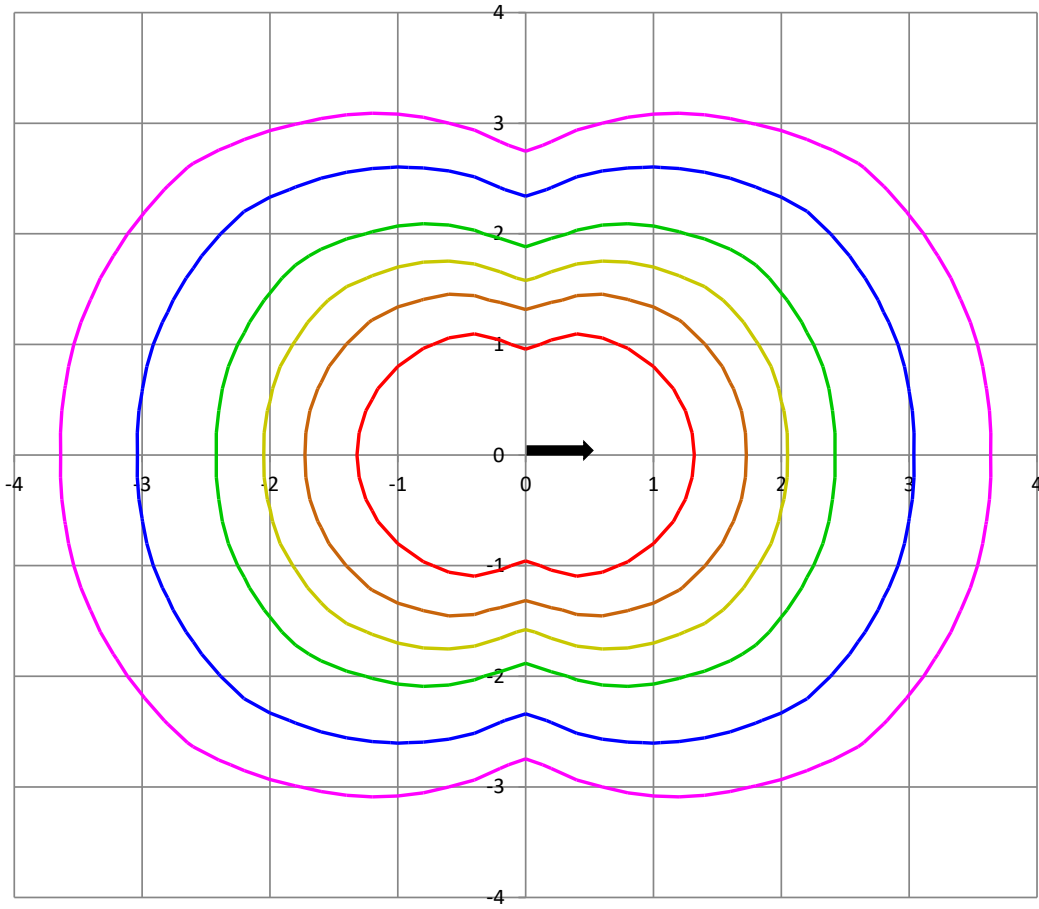
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	145.1 Candela
Central Cone Intensity:	145 Candela
Beam Flux:	267.3 Lumens
Beam Angle (0-180):	114.0 Degrees
Beam Angle (90-270):	32.4 Degrees
Field Angle (0-180):	161.6 Degrees
Field Angle (90-270):	128.4 Degrees



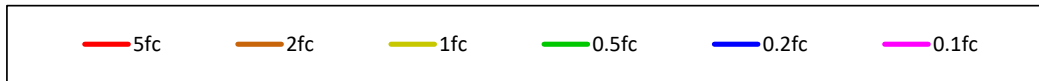


ISOFootcandle Plot

Mounting Height - 2 Feet

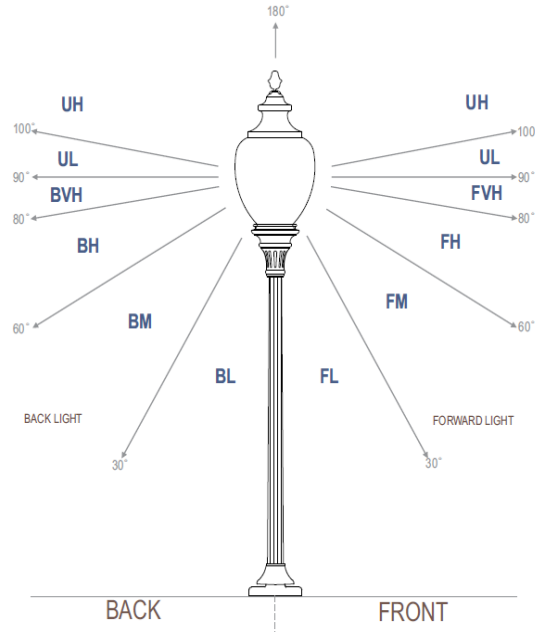


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	53.7	14.2%
FM	(30-60)	99.1	26.2%
FH	(60-80)	28.8	7.6%
FVH	(80-90)	4.7	1.3%
BL	(0-30)	53.7	14.2%
BM	(30-60)	99.1	26.2%
BH	(60-80)	28.8	7.6%
BVH	(80-90)	4.7	1.3%
UL	(90-100)	4.2	1.1%
UH	(100-180)	1.6	0.4%
Total		378.5	100.0%
BUG Rating	B0 U1 G0		

