



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

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

Catalog Number
LML350-C11-GTL-30-P (3000K)

Order Number
11263738
Test Number
1258677

Test Date

2018-03-12

Prepared By

Dane Hernandez-Adams, 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: Conical 11" stacked copper shades with louvers, painted white underside and frosted glass lens
Lamp: One (1) Cree XHP 3000K LED
Mounting: Pendant

Luminaire



Luminaire Characteristics

Luminous Diameter: 11.00 in.
Luminous Height: 1.63 in.

Summary of Results

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

Test Conditions

Test Temperature: 25.0 °C
Voltage: 12.03 VAC
Current: 1.500 A
Power: 17.92 W
Power Factor: 0.993
Frequency: 60 Hz
Current THD: 10.7 %

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

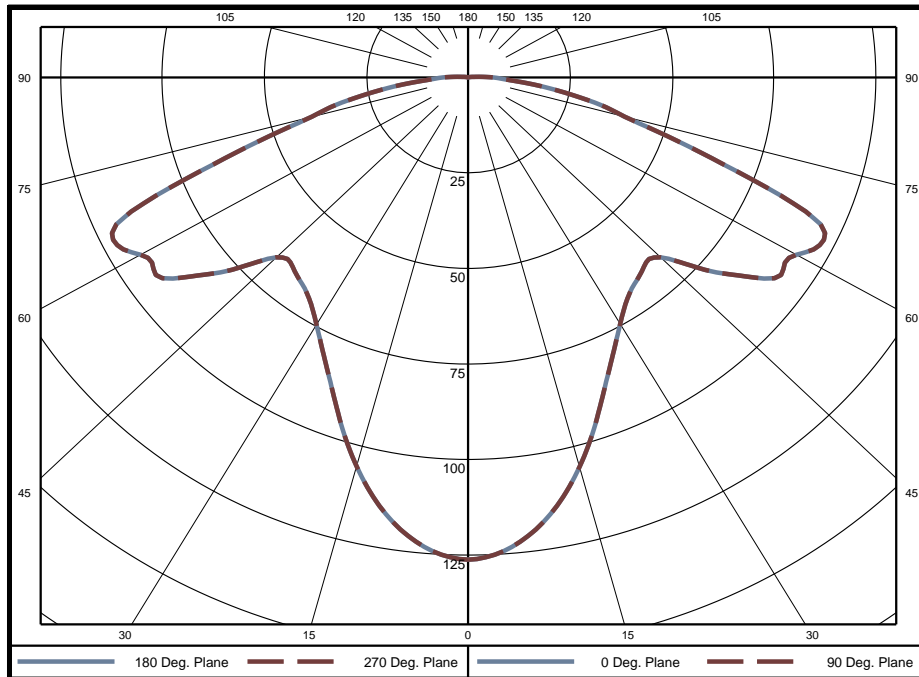
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	12.03 VAC	1.500 A	17.92 W	0.993	60 Hz	10.7 %

Summary of Results

Spacing Criteria
 0-180: 0.91
 90-270: 0.91

Total Lumen Output: 407.6 Lumens
Luminaire Efficacy: 22.7 lm/w
Maximum Candela: 126 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	2.98	0.7%	60-65	46.53	11.4%	120-125	0	0.0%
5-10	8.56	2.1%	65-70	42.78	10.5%	125-130	0	0.0%
10-15	13.13	3.2%	70-75	27.05	6.6%	130-135	0	0.0%
15-20	16.35	4.0%	75-80	17.58	4.3%	135-140	0	0.0%
20-25	18.37	4.5%	80-85	10.10	2.5%	140-145	0	0.0%
25-30	19.81	4.9%	85-90	4.73	1.2%	145-150	0	0.0%
30-35	21.02	5.2%	90-95	1.97	0.5%	150-155	0	0.0%
35-40	22.51	5.5%	95-100	0.61	0.1%	155-160	0	0.0%
40-45	24.27	6.0%	100-105	0.15	0.0%	160-165	0	0.0%
45-50	29.33	7.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	37.24	9.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	42.52	10.4%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	123	30.1%
0-60	256	62.8%
0-90	405	99.3%
90-180	3	0.7%



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	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2
5	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
10	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1
15	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
20	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
25	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
30	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
35	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
40	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
45	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
50	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
55	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
60	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
65	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
70	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
75	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
80	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
85	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
90	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
100	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
105	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
110	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
115	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
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)

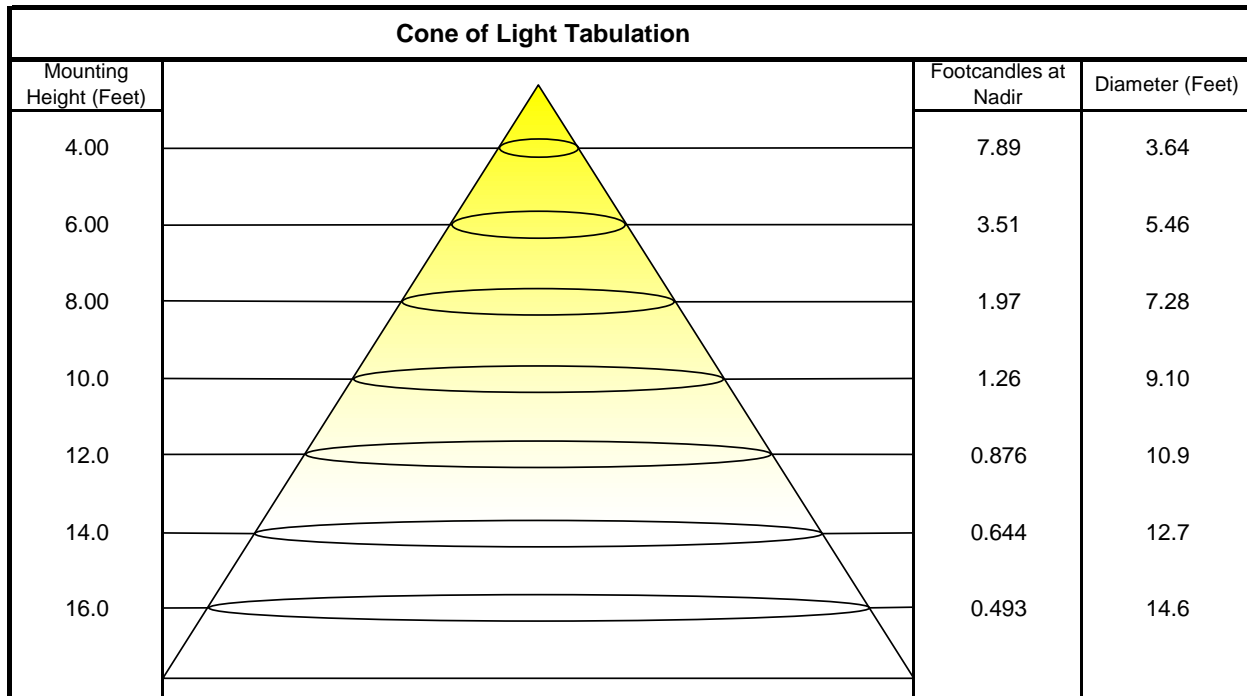
	0	45	90
0	2058	2058	2058
45	1536	1536	1536
55	2605	2605	2605
65	3722	3722	3722
75	2499	2499	2499
85	2289	2289	2289



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	485	485	485	485	473	473	473	473	451	451	451	432	432	432	413	413	413	405
1	432	409	387	368	420	399	379	362	381	364	350	364	350	338	348	338	328	318
2	385	345	312	284	373	337	306	280	321	295	273	307	285	266	294	276	259	249
3	345	295	256	225	334	288	252	223	275	244	218	263	236	214	251	229	209	199
4	312	256	215	183	302	250	212	182	239	205	179	228	199	176	219	194	173	163
5	284	225	184	153	275	220	181	152	211	176	150	202	172	148	194	167	146	136
6	261	200	160	131	252	196	158	130	188	154	128	181	150	127	174	146	125	116
7	241	180	141	114	233	177	139	113	170	136	112	163	133	111	157	130	109	100
8	224	164	126	100	217	161	125	100	155	122	99	149	120	98	144	117	97	88
9	209	150	114	89	203	147	113	89	142	111	88	137	108	88	133	106	87	79
10	196	138	104	81	190	136	103	81	131	101	80	127	99	79	123	97	79	71

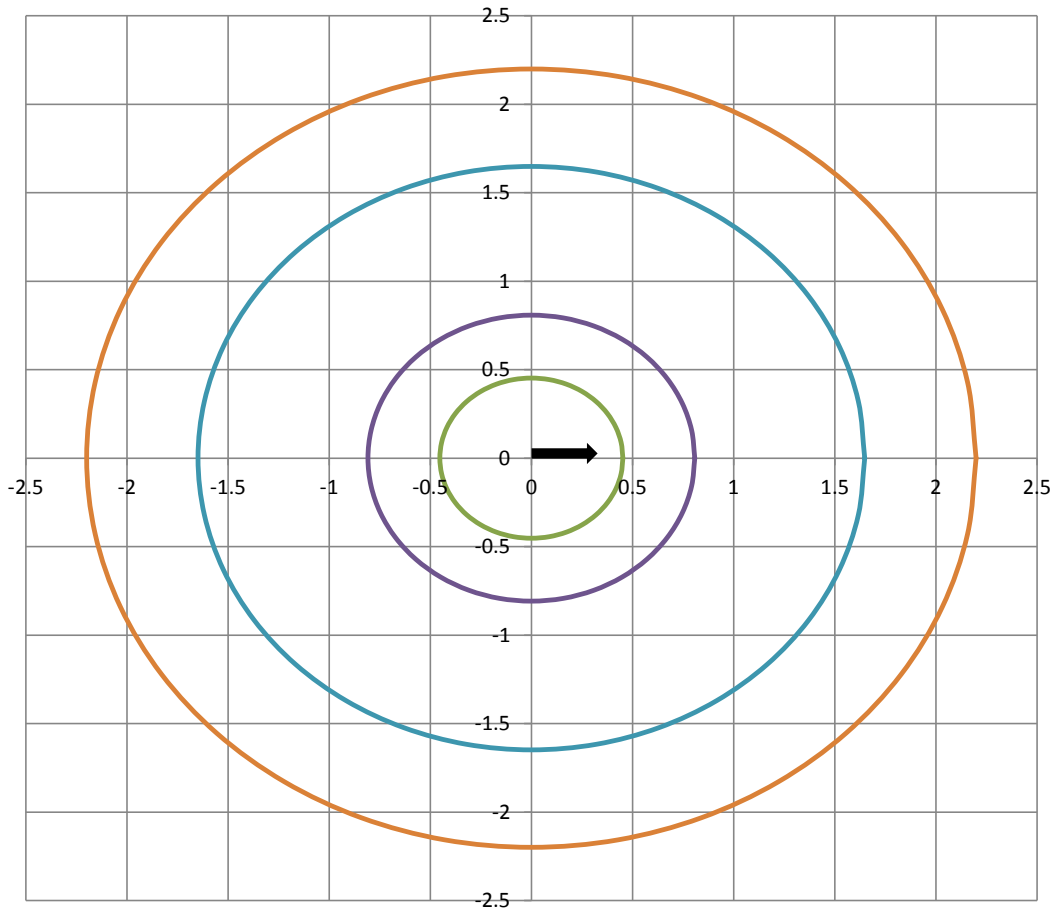
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	126.2 Candela
Central Cone Intensity:	125 Candela
Beam Flux:	349.1 Lumens
Beam Angle (0-180):	141.0 Degrees
Beam Angle (90-270):	141.0 Degrees
Field Angle (0-180):	169.7 Degrees
Field Angle (90-270):	169.7 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet

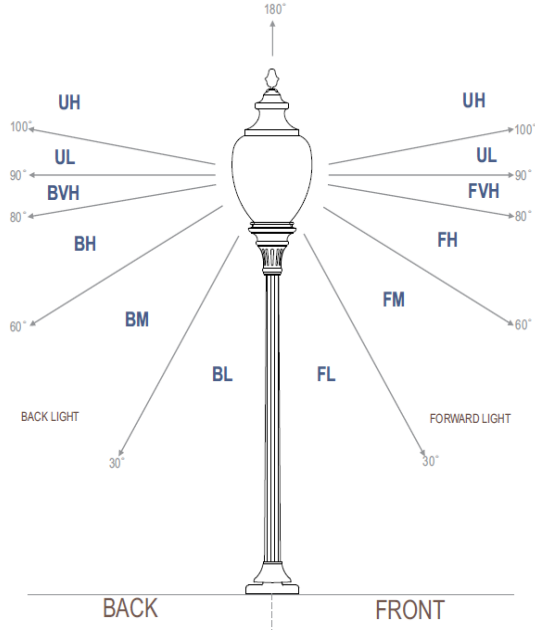


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	39.6	9.7%
FM	(30-60)	88.5	21.7%
FH	(60-80)	66.8	16.4%
FVH	(80-90)	7.5	1.8%
BL	(0-30)	39.6	9.7%
BM	(30-60)	88.5	21.7%
BH	(60-80)	66.8	16.4%
BVH	(80-90)	7.5	1.8%
UL	(90-100)	2.6	0.6%
UH	(100-180)	0.2	0.0%
Total		407.7	100.0%
BUG Rating	B0 U1 G0		