



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-S7-GTL-30-P (3000K)

Order Number
11263738
Test Number
1258678

Test Date

2018-03-09

Prepared By

Dane Hernandez-Adams, 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: Spherical 7" 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: 7.00 in.
Luminous Height: 2.500 in.

Summary of Results

Roadway Classification: Type V, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B0 U2 G1

Test Conditions

Test Temperature: 24.9 °C
Voltage: 12.00 VAC
Current: 1.626 A
Power: 19.46 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 4.97 %

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

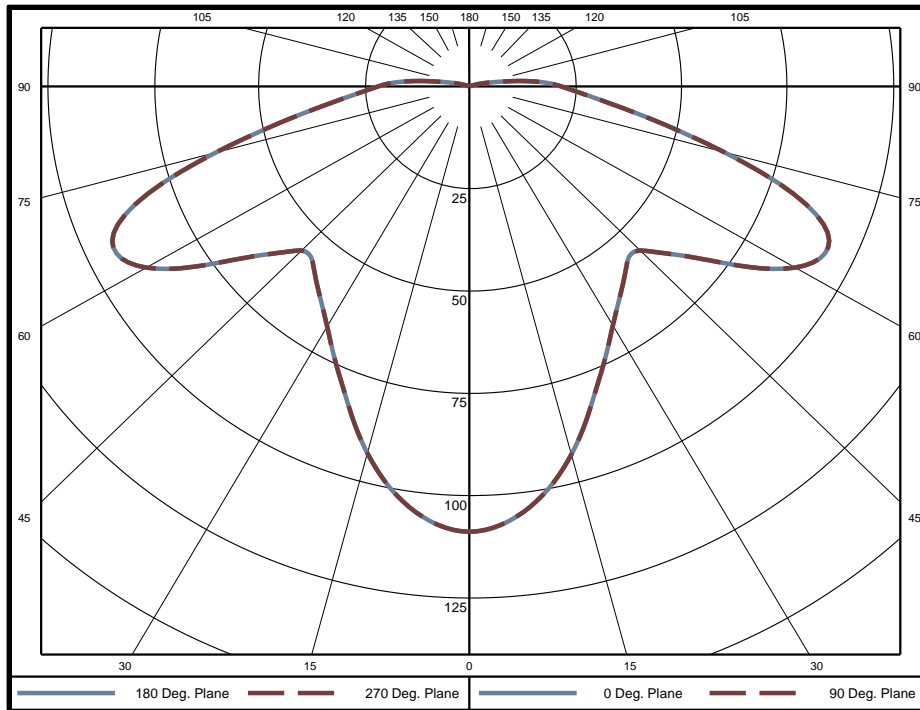
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	12.00 VAC	1.626 A	19.46 W	0.997	60 Hz	4.97 %

Summary of Results

Spacing Criteria
 0-180: 0.95
 90-270: 0.95

Total Lumen Output: 430.9 Lumens
Luminaire Efficacy: 22.1 lm/w
Maximum Candela: 109 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	2.57	0.6%	60-65	44.55	10.3%	120-125	0	0.0%
5-10	7.42	1.7%	65-70	45.57	10.6%	125-130	0	0.0%
10-15	11.50	2.7%	70-75	38.56	8.9%	130-135	0	0.0%
15-20	14.51	3.4%	75-80	27.42	6.4%	135-140	0	0.0%
20-25	16.52	3.8%	80-85	18.83	4.4%	140-145	0	0.0%
25-30	17.95	4.2%	85-90	13.67	3.2%	145-150	0	0.0%
30-35	19.00	4.4%	90-95	10.15	2.4%	150-155	0	0.0%
35-40	19.90	4.6%	95-100	5.61	1.3%	155-160	0	0.0%
40-45	20.85	4.8%	100-105	2.35	0.5%	160-165	0	0.0%
45-50	24.30	5.6%	105-110	0.91	0.2%	165-170	0	0.0%
50-55	30.27	7.0%	110-115	0.25	0.1%	170-175	0	0.0%
55-60	38.21	8.9%	115-120	0.01	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	109	25.4%
0-60	223	51.8%
0-90	412	95.5%
90-180	19	4.5%



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	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.8
5	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6
10	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
15	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
20	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
25	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
30	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
35	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
40	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
45	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
50	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
55	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
60	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
65	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
70	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
75	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
80	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
85	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
90	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
95	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
100	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
105	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
110	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
115	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)

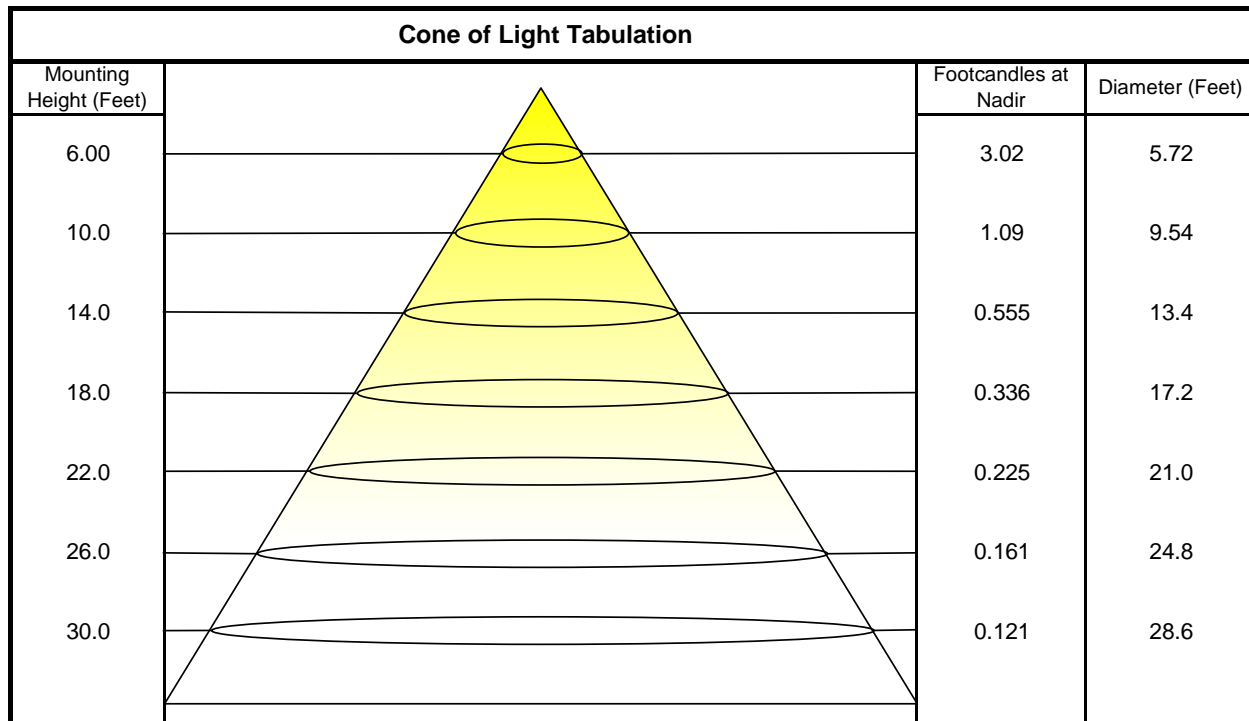
	0	45	90
0	4382	4382	4382
45	3395	3395	3395
55	4404	4404	4404
65	5432	5432	5432
75	3774	3774	3774
85	1887	1887	1887



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	508	508	508	508	494	494	494	494	468	468	468	444	444	444	422	422	422	412
1	444	415	389	365	429	403	379	357	380	360	342	359	343	328	340	327	315	303
2	392	346	307	275	378	335	300	270	316	286	260	298	273	251	281	260	242	230
3	350	293	249	214	337	285	244	211	268	233	204	253	223	198	238	213	192	180
4	316	254	208	173	304	246	204	171	232	195	166	219	187	161	207	179	157	145
5	288	223	178	144	277	217	174	142	205	167	139	194	161	135	183	155	132	121
6	265	199	154	123	254	193	152	121	183	146	118	173	141	116	164	135	113	102
7	244	179	136	107	235	174	134	105	165	129	103	157	125	101	149	120	98	89
8	227	162	122	94	219	158	120	93	151	116	91	144	112	89	137	108	87	78
9	212	149	110	84	204	145	108	83	139	105	81	132	102	80	126	99	78	70
10	199	137	100	76	192	134	99	75	128	96	74	123	93	72	118	91	71	63

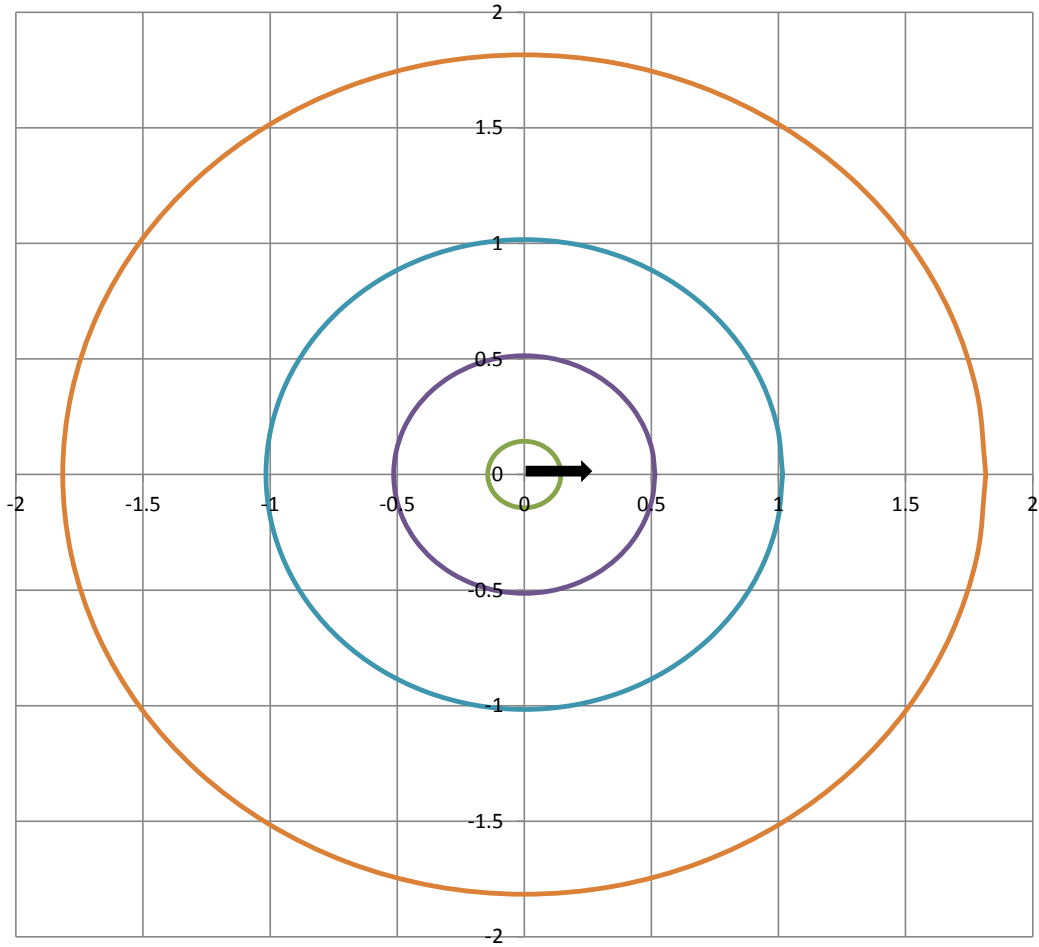
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	108.8 Candela
Central Cone Intensity:	108 Candela
Beam Flux:	361.9 Lumens
Beam Angle (0-180):	153.3 Degrees
Beam Angle (90-270):	153.3 Degrees
Field Angle (0-180):	194.2 Degrees
Field Angle (90-270):	194.2 Degrees





ISOFootcandle Plot

Mounting Height - 10 Feet

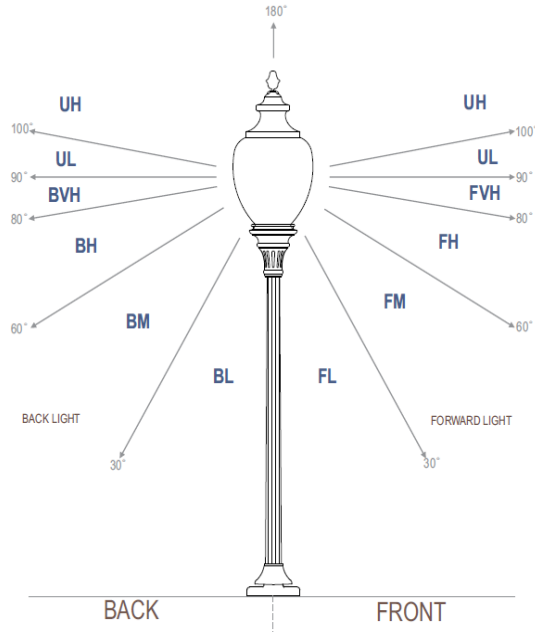


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	35.3	8.2%
FM	(30-60)	76.4	17.7%
FH	(60-80)	78.0	18.1%
FVH	(80-90)	16.3	3.8%
BL	(0-30)	35.3	8.2%
BM	(30-60)	76.4	17.7%
BH	(60-80)	78.0	18.1%
BVH	(80-90)	16.3	3.8%
UL	(90-100)	15.8	3.7%
UH	(100-180)	3.6	0.8%
Total		431.2	100.0%
BUG Rating	B0 U2 G1		