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## 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  
**HSL11-6-M-30 (6W, 25° MEDIUM 3000K)**  
Order Number  
13931356  
Test Number  
13931356.01

Test Date

2021-07-26

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Cast brass housing, inner patterned optic, clear glass lens enclosure  
**Lamp:** One white LED  
**Mounting:** Ground recessed  
**Ballast/Driver:** Integral

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 1.13 in.

#### Summary of Results

Roadway Classification: Type V, Very Short  
Cutoff Classification: Full Cutoff  
BUG Rating: B1 U0 G0

#### Test Conditions

Test Temperature: 25.0 °C  
Voltage: 12.01 VAC  
Current: 0.5372 A  
Power: 6.437 W  
Power Factor: 0.998  
Frequency: 60 Hz  
Current THD: 2.71 %

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	12.01 VAC	0.5372 A	6.437 W	0.998	60 Hz	2.71 %

### Summary of Results

#### Spacing Criteria

0-180: 0.44

90-270: 0.44

#### Total Lumen Output:

412.4 Lumens

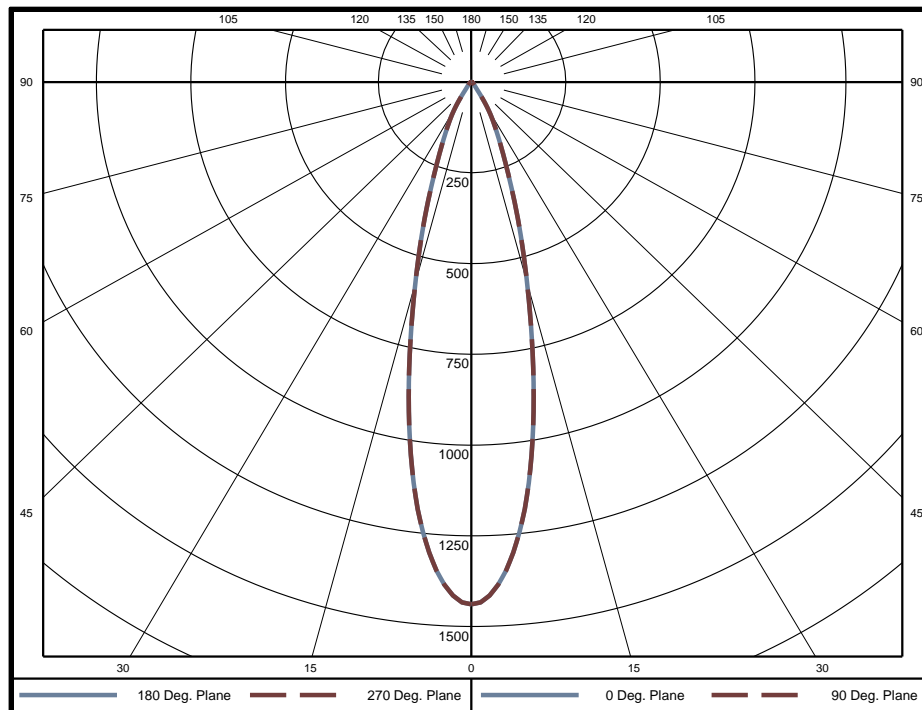
#### Luminaire Efficacy:

64.1 lm/w

#### Maximum Candela:

1439 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	32.72	7.9%	60-65	1.86	0.5%	120-125	0	0.0%
5-10	80.54	19.5%	65-70	1.42	0.3%	125-130	0	0.0%
10-15	89.80	21.8%	70-75	1.12	0.3%	130-135	0	0.0%
15-20	73.13	17.7%	75-80	0.82	0.2%	135-140	0	0.0%
20-25	51.03	12.4%	80-85	0.55	0.1%	140-145	0	0.0%
25-30	35.21	8.5%	85-90	0.27	0.1%	145-150	0	0.0%
30-35	20.82	5.0%	90-95	0	0.0%	150-155	0	0.0%
35-40	8.54	2.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	5.21	1.3%	100-105	0	0.0%	160-165	0	0.0%
45-50	3.85	0.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	3.10	0.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	2.46	0.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	392	95.0%
0-60	406	98.5%
0-90	412	100.0%
90-180	0	0.0%



### 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	1439	1439	1439	1439	1439	1439	1439	1439	1439	1439	1439	1439	1439	1439	1439
	5	1301	1301	1301	1301	1301	1301	1301	1301	1301	1301	1301	1301	1301	1301	1301
	10	963	963	963	963	963	963	963	963	963	963	963	963	963	963	963
	15	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588
	20	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328
	25	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181
	30	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
	35	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	40	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	45	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	50	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	55	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	60	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	65	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	70	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	75	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	80	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	85	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	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
	115	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
	125	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
	135	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
	145	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
	155	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
	165	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
	175	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

### Average Luminance (cd/m<sup>2</sup>)

Horizontal Angle (Degrees)

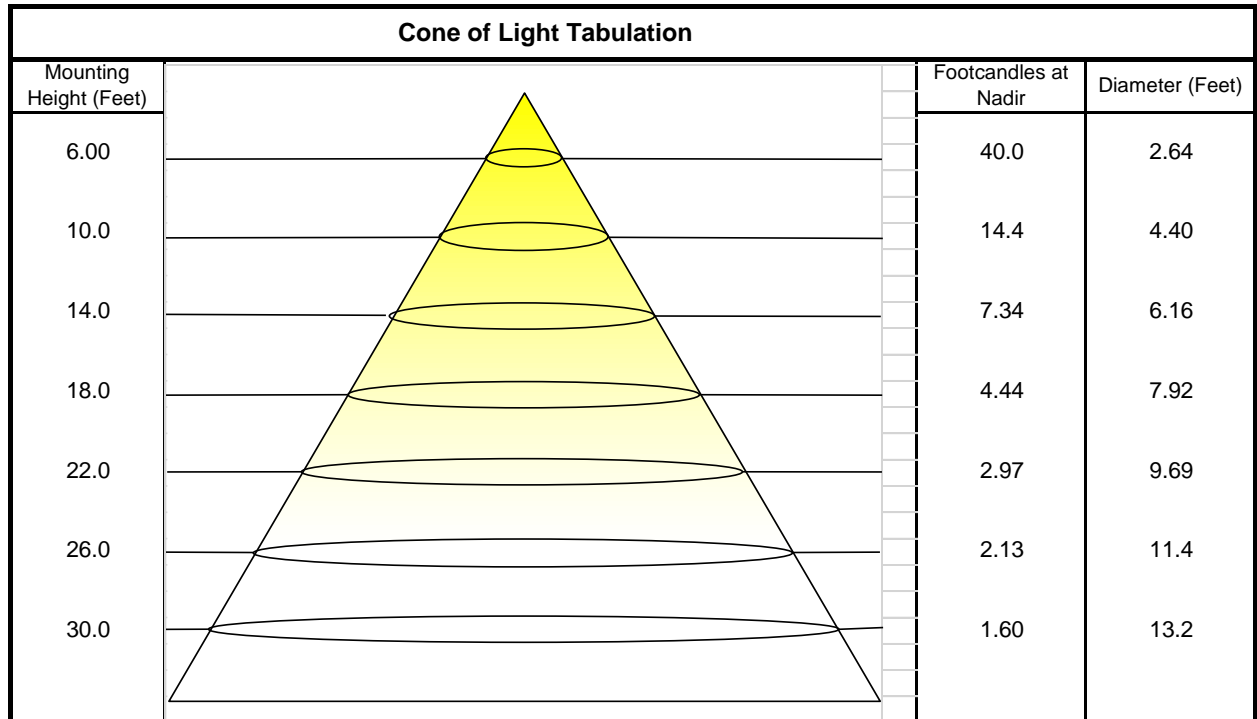
Vertical Angle (Degrees)	0	45	90
	0	2223000	2223000
	45	24610	24610
	55	16650	16650
	65	11750	11750
	75	10860	10860
	85	13650	13650



### 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	491	491	491	491	480	480	480	480	458	458	458	439	439	439	421	421	421	412
1	472	462	453	445	462	453	445	438	436	430	424	421	416	412	407	403	400	393
2	453	436	422	410	444	429	416	405	416	406	397	404	396	388	393	386	380	374
3	436	414	397	383	428	408	393	380	398	385	374	388	377	368	379	370	363	357
4	419	394	375	361	413	389	372	359	381	366	355	373	361	351	366	356	347	341
5	404	376	357	342	398	373	355	341	366	350	338	359	346	335	353	342	332	327
6	390	361	341	327	385	358	339	325	352	336	323	347	332	321	342	329	319	314
7	377	346	326	313	372	344	325	312	339	322	310	334	320	309	330	317	307	302
8	364	333	314	300	360	331	312	300	327	310	298	323	308	297	320	306	296	292
9	353	321	302	289	349	319	301	288	316	299	288	313	298	287	310	296	286	281
10	342	310	291	279	338	309	290	278	306	289	278	303	288	277	300	286	276	272

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1439 Candela
Central Cone Intensity:	1389 Candela
Beam Flux:	170.9 Lumens
Beam Angle (0-180):	26.2 Degrees
Beam Angle (90-270):	26.2 Degrees
Field Angle (0-180):	54.3 Degrees
Field Angle (90-270):	54.3 Degrees





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	181.5	43.9%
FM	(30-60)	22.1	5.4%
FH	(60-80)	2.6	0.6%
FVH	(80-90)	0.4	0.1%
BL	(0-30)	181.5	43.9%
BM	(30-60)	22.1	5.4%
BH	(60-80)	2.6	0.6%
BVH	(80-90)	0.4	0.1%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		413.2	100.0%
<b>BUG Rating</b>	<b>B1 U0 G0</b>		