



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**  
**LSL30-14-W-30 (14W, 36° Wide Optic, 3000K)**

Order Number  
13469434  
Test Number  
13469434.07

Test Date

2020-08-25

Prepared By

Javier Caban, Technician

Approved By

Kevin Rodriguez, 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:** Bronzed cast housing, patterned lens enclosure with bronze trim  
**Lamp:** One white LED  
**Mounting:** Path / Area Light  
**Ballast/Driver:** Integral

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 2.75 in.  
Luminous Height: 1.630 in.

**Summary of Results**

Roadway Classification: Type I, Very Short  
Cutoff Classification: Cutoff  
BUG Rating: B2 U1 G0

**Test Conditions**

Test Temperature: 24.6 °C  
Voltage: 12.07 VAC  
Current: 1.189 A  
Power: 13.81 W  
Power Factor: 0.962  
Frequency: 60 Hz  
Current THD: 21.4 %

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	12.07 VAC	1.189 A	13.81 W	0.962	60 Hz	21.4 %

### Summary of Results

#### Spacing Criteria

0-180: 0.66

90-270: 0.70

#### Total Lumen Output:

1410 Lumens

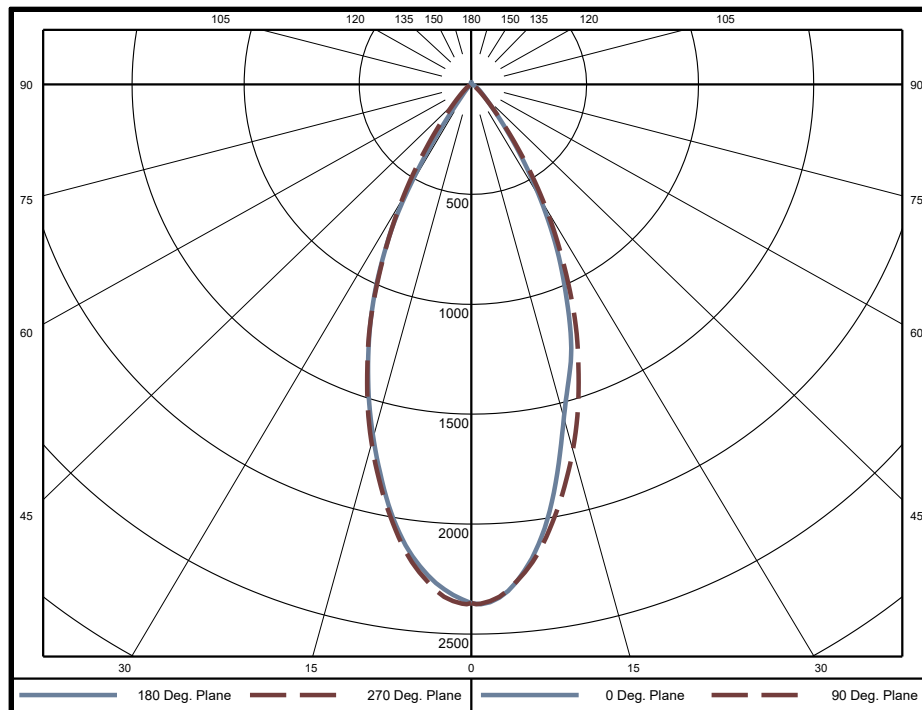
#### Luminaire Efficacy:

102.1 lm/w

#### Maximum Candela:

2364 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	55.2	3.9%	60-65	4.9	0.3%	120-125	0	0.0%
5-10	152.5	10.8%	65-70	3.3	0.2%	125-130	0	0.0%
10-15	217.1	15.4%	70-75	2.1	0.1%	130-135	0	0.0%
15-20	247.0	17.5%	75-80	1.2	0.1%	135-140	0	0.0%
20-25	242.8	17.2%	80-85	0.5	0.0%	140-145	0	0.0%
25-30	202.8	14.4%	85-90	0.2	0.0%	145-150	0	0.0%
30-35	135.8	9.6%	90-95	0.0	0.0%	150-155	0	0.0%
35-40	70.8	5.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	35.1	2.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	19.5	1.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	11.8	0.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	7.5	0.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1324	93.9%
0-60	1398	99.1%
0-90	1410	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	2358	2358	2358	2358	2358	2358	2358	2358	2358	2358	2358	2358	2358	2358	2358
	5	2269	2310	2304	2290	2267	2246	2217	2195	2239	2195	2217	2246	2267	2290	2310
	10	1970	2084	2070	2050	2025	1985	1938	1913	2007	1913	1938	1985	2025	2050	2070
	15	1563	1742	1737	1728	1712	1658	1604	1572	1684	1572	1604	1658	1712	1728	1737
	20	1276	1411	1408	1389	1362	1308	1265	1242	1352	1242	1265	1308	1362	1389	1408
	25	935	1080	1060	1032	997	954	913	883	1007	883	913	954	997	1032	1060
	30	605	737	714	684	649	607	553	489	614	489	553	607	649	684	714
	35	326	421	401	374	349	312	237	164	188	164	237	312	349	374	401
	40	156	206	194	178	160	128	77	47	52	47	77	128	160	178	194
	45	85	104	97	88	76	52	28	20	24	20	28	52	76	88	97
	50	55	62	58	51	41	23	12	5	8	5	12	23	41	51	58
	55	38	41	38	32	22	10	3	0	0	0	3	10	22	32	38
	60	26	28	26	21	11	3	0	0	0	0	0	3	11	21	26
	65	18	20	18	13	5	0	0	0	0	0	0	0	5	13	18
	70	13	14	12	7	1	0	0	0	0	0	0	0	1	7	12
	75	9	10	7	3	0	0	0	0	0	0	0	0	0	3	7
	80	5	6	3	1	0	0	0	0	0	0	0	0	0	1	3
	85	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1
	90	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	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	615300	615300
	45	23930	21540
	55	11300	6657
	65	5758	1566
	75	3035	47
	85	841	0



### 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	1679	1679	1679	1679	1640	1640	1640	1640	1567	1567	1567	1500	1500	1500	1439	1439	1439	1410
1	1605	1567	1534	1504	1570	1537	1507	1480	1480	1456	1435	1428	1409	1392	1380	1365	1352	1327
2	1531	1466	1412	1367	1500	1442	1393	1352	1397	1357	1322	1355	1323	1294	1317	1291	1267	1245
3	1460	1375	1309	1257	1433	1356	1295	1247	1319	1269	1227	1286	1243	1208	1254	1219	1189	1168
4	1393	1294	1221	1165	1369	1278	1210	1158	1248	1190	1144	1220	1171	1131	1195	1153	1118	1098
5	1330	1220	1143	1086	1308	1207	1135	1081	1182	1120	1072	1159	1105	1063	1138	1091	1054	1034
6	1270	1153	1074	1018	1250	1142	1068	1015	1122	1056	1008	1102	1045	1001	1084	1034	995	975
7	1214	1092	1013	958	1196	1083	1008	956	1066	999	950	1049	990	946	1034	981	941	922
8	1161	1037	958	904	1145	1029	954	903	1014	947	899	1000	939	895	987	932	891	873
9	1112	986	909	856	1097	979	905	855	966	899	852	954	893	849	943	887	846	829
10	1066	939	863	813	1053	934	861	812	922	856	810	912	851	807	902	846	805	788

#### Beam and Field Information

CIE Type:	Direct
Center Beam Intensity:	2358 Candela
Central Cone Intensity:	2323 Candela
Beam Flux:	788.9 Lumens
Beam Angle (0-180):	44.0 Degrees
Beam Angle (90-270):	45.2 Degrees
Field Angle (0-180):	71.5 Degrees
Field Angle (90-270):	75.2 Degrees

#### Cone of Light Tabulation

Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
6.00		65.5	4.16
10.0		23.6	6.93
14.0		12.0	9.71
18.0		7.28	12.5
22.0		4.87	15.3
26.0		3.49	18.0
30.0		2.62	20.8



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	583.2	41.3%
FM	(30-60)	182.7	12.9%
FH	(60-80)	11.3	0.8%
FVH	(80-90)	0.7	0.1%
BL	(0-30)	533.7	37.8%
BM	(30-60)	100.5	7.1%
BH	(60-80)	0.3	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		1412.5	100.0%
<b>BUG Rating</b>	<b>B2 U1 G0</b>		