



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
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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
LSL30-14-M-30 (14W, 24° Medium Optic, 3000K)

Order Number
13469434
Test Number
13469434.01

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.
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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:	24.2 °C
Voltage:	12.12 VAC
Current:	1.192 A
Power:	13.89 W
Power Factor:	0.962
Frequency:	60 Hz
Current THD:	21.3 %

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
24.2 °C	12.12 VAC	1.192 A	13.89 W	0.962	60 Hz	21.3 %

Summary of Results

Spacing Criteria

0-180: 0.43

90-270: 0.46

Total Lumen Output:

1445 Lumens

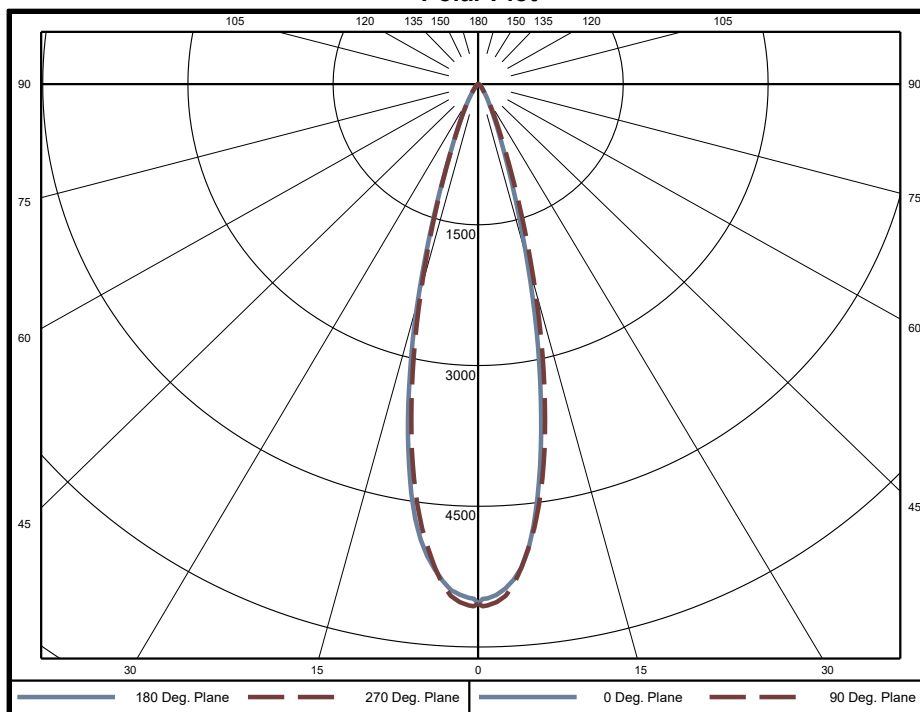
Luminaire Efficacy:

104.0 lm/w

Maximum Candela:

5567 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	128.2	8.9%	60-65	5.2	0.4%	120-125	0	0.0%
5-10	325.8	22.5%	65-70	3.3	0.2%	125-130	0	0.0%
10-15	363.8	25.2%	70-75	2.0	0.1%	130-135	0	0.0%
15-20	256.4	17.7%	75-80	1.1	0.1%	135-140	0	0.0%
20-25	140.7	9.7%	80-85	0.4	0.0%	140-145	0	0.0%
25-30	81.1	5.6%	85-90	0.1	0.0%	145-150	0	0.0%
30-35	50.2	3.5%	90-95	0.0	0.0%	150-155	0	0.0%
35-40	31.0	2.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	20.9	1.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	15.7	1.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	11.3	0.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	7.9	0.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1377	95.3%
0-60	1433	99.2%
0-90	1445	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	5539	5539	5539	5539	5539	5539	5539	5539	5539	5539	5539	5539	5539	5539	5539
	5	5172	5326	5321	5265	5169	5080	5027	4949	5189	4949	5027	5080	5169	5265	5321
	10	3774	4281	4207	4105	3963	3811	3695	3592	4123	3592	3695	3811	3963	4105	4207
	15	1999	2619	2552	2452	2304	2150	2037	1941	2441	1941	2037	2150	2304	2452	2552
	20	834	1209	1159	1091	1009	927	872	829	1035	829	872	927	1009	1091	1159
	25	389	525	505	478	454	414	394	378	458	378	394	414	454	478	505
	30	209	275	257	242	231	218	208	191	222	191	208	218	231	242	257
	35	125	151	146	139	126	118	106	93	110	93	106	118	126	139	146
	40	77	89	86	82	73	66	56	44	45	44	56	66	73	82	86
	45	58	63	61	58	52	44	30	22	21	22	30	44	52	58	61
	50	46	49	48	45	38	28	15	7	0	7	15	28	38	45	48
	55	35	39	37	34	26	14	2	0	0	0	2	14	26	34	37
	60	25	29	27	24	14	3	0	0	0	0	0	3	14	24	27
	65	16	20	18	14	5	0	0	0	0	0	0	0	5	14	18
	70	11	14	12	7	1	0	0	0	0	0	0	0	1	7	12
	75	7	10	7	2	0	0	0	0	0	0	0	0	0	2	7
	80	3	6	3	0	0	0	0	0	0	0	0	0	0	3	6
	85	1	3	1	0	0	0	0	0	0	0	0	0	0	1	3
	90	0	0	1	0	0	0	0	0	0	0	0	0	0	1	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/m²)
Horizontal Angle (Degrees)

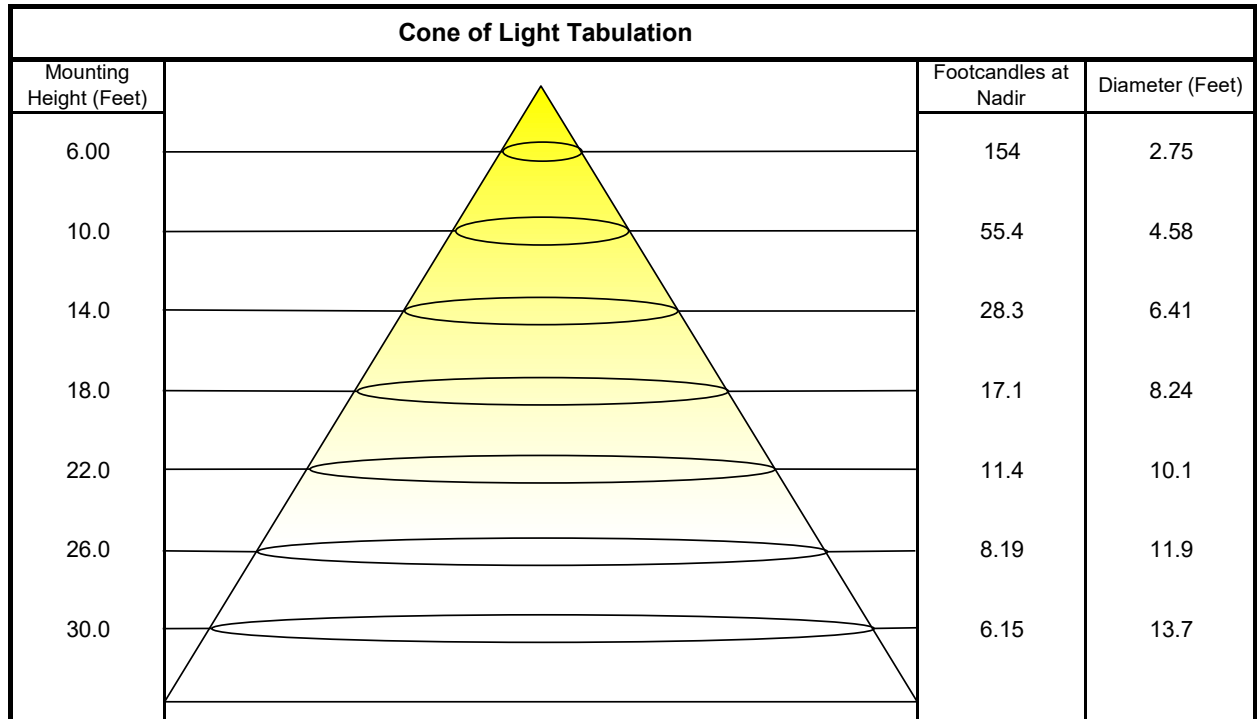
Vertical Angle (Degrees)	0	45	90
	0	1445000	1445000
	45	16390	17260
	55	10590	11020
	65	5302	5895
	75	2610	2590
	85	394	220



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	1721	1721	1721	1721	1681	1681	1681	1681	1606	1606	1606	1538	1538	1538	1475	1475	1475	1445
1	1657	1624	1595	1568	1622	1593	1567	1543	1536	1515	1496	1483	1467	1452	1434	1421	1410	1385
2	1596	1540	1493	1454	1566	1516	1474	1438	1470	1436	1407	1429	1401	1377	1390	1368	1349	1327
3	1539	1467	1410	1365	1513	1447	1396	1354	1411	1368	1333	1378	1343	1313	1347	1318	1293	1274
4	1486	1402	1340	1293	1463	1386	1329	1285	1357	1309	1271	1330	1290	1257	1305	1271	1243	1224
5	1437	1344	1280	1232	1416	1332	1272	1227	1308	1256	1217	1286	1241	1206	1265	1227	1197	1179
6	1390	1293	1227	1180	1372	1282	1221	1176	1263	1209	1169	1244	1197	1162	1227	1186	1154	1138
7	1347	1246	1181	1135	1331	1237	1176	1132	1221	1166	1126	1206	1157	1121	1191	1148	1116	1100
8	1306	1203	1139	1094	1292	1196	1135	1092	1182	1127	1088	1169	1120	1084	1157	1113	1080	1065
9	1268	1164	1101	1058	1255	1158	1098	1056	1146	1091	1053	1135	1086	1050	1125	1080	1047	1032
10	1232	1128	1066	1025	1221	1123	1063	1023	1113	1058	1021	1103	1054	1018	1094	1049	1016	1002

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	5539 Candela
Central Cone Intensity:	5414 Candela
Beam Flux:	721.4 Lumens
Beam Angle (0-180):	26.9 Degrees
Beam Angle (90-270):	27.2 Degrees
Field Angle (0-180):	46.4 Degrees
Field Angle (90-270):	47.3 Degrees





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	696.8	48.1%
FM	(30-60)	86.3	6.0%
FH	(60-80)	11.5	0.8%
FVH	(80-90)	0.6	0.0%
BL	(0-30)	601.9	41.5%
BM	(30-60)	51.5	3.6%
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		1449.1	100.0%
BUG Rating	B2 U1 G0		