



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

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

Catalog Number
LSL10-M-30 (25° OPTIC, 3000K)

Order Number
12250114
Test Number
12250114.63

Test Date

2018-05-02

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: Cylindrical metal housing with adjustable knuckle
Lamp: One (1) Cree XP-L 3000K LED with 25° medium optic
Mounting: Flood
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.00 in.

Summary of Results

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

Test Conditions

Test Temperature:	24.2 °C
Voltage:	12.02 VAC
Current:	0.4265 A
Power:	3.229 W
Power Factor:	0.630
Frequency:	60 Hz
Current THD:	91.3 %

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	12.02 VAC	0.4265 A	3.229 W	0.630	60 Hz	91.3 %

Summary of Results

Spacing Criteria

0-180: 0.41

90-270: 0.41

Total Lumen Output:

261.9 Lumens

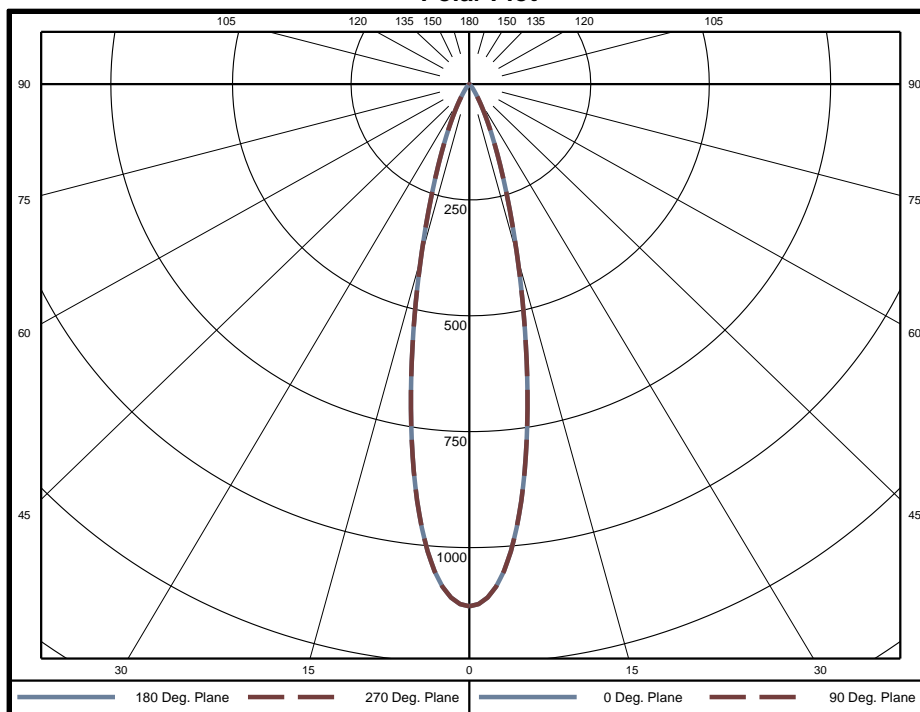
Luminaire Efficacy:

81.1 lm/w

Maximum Candela:

1127 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	25.57	9.8%	60-65	0.05	0.0%	120-125	0	0.0%
5-10	61.10	23.3%	65-70	0	0.0%	125-130	0	0.0%
10-15	64.02	24.4%	70-75	0	0.0%	130-135	0	0.0%
15-20	47.29	18.1%	75-80	0	0.0%	135-140	0	0.0%
20-25	29.63	11.3%	80-85	0	0.0%	140-145	0	0.0%
25-30	16.70	6.4%	85-90	0	0.0%	145-150	0	0.0%
30-35	8.54	3.3%	90-95	0	0.0%	150-155	0	0.0%
35-40	4.30	1.6%	95-100	0	0.0%	155-160	0	0.0%
40-45	2.30	0.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	1.31	0.5%	105-110	0	0.0%	165-170	0	0.0%
50-55	0.73	0.3%	110-115	0	0.0%	170-175	0.00	0.0%
55-60	0.32	0.1%	115-120	0	0.0%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	257	98.2%
0-60	262	100.0%
0-90	262	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	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
	5	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012
	10	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711
	15	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401
	20	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201
	25	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
	30	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
	35	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	40	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	45	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	55	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	2223000	2223000
	45	12250	12250
	55	3893	3893
	65	20	20
	75	0	0
	85	0	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	312	312	312	312	304	304	304	304	291	291	291	279	279	279	267	267	267	262
1	301	295	290	286	295	290	285	281	279	276	272	270	267	264	261	259	257	252
2	291	281	273	266	285	277	269	263	268	263	257	261	256	252	254	250	247	243
3	281	268	259	251	276	265	256	249	258	251	245	252	246	241	247	242	238	234
4	272	257	247	238	268	254	245	237	249	241	234	244	237	232	240	234	229	226
5	263	247	236	228	260	245	235	227	241	232	225	237	229	223	233	227	221	218
6	255	238	227	219	252	236	226	218	233	224	217	230	222	215	227	220	214	211
7	247	230	219	211	245	229	218	210	226	216	209	223	214	208	220	213	207	205
8	240	222	211	204	238	221	211	203	219	209	202	216	208	202	214	207	201	198
9	234	216	204	197	231	214	204	197	212	203	196	210	202	196	209	201	195	192
10	227	209	198	191	225	208	198	191	206	197	190	205	196	190	203	195	189	187

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1127 Candela
Central Cone Intensity:	1086 Candela
Beam Flux:	116.7 Lumens
Beam Angle (0-180):	24.4 Degrees
Beam Angle (90-270):	24.4 Degrees
Field Angle (0-180):	47.9 Degrees
Field Angle (90-270):	47.9 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
6.00		31.3	2.48
10.0		11.3	4.13
14.0		5.75	5.78
18.0		3.48	7.43
22.0		2.33	9.08
26.0		1.67	10.7
30.0		1.25	12.4



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	122.2	46.6%
FM	(30-60)	8.8	3.4%
FH	(60-80)	0.0	0.0%
FVH	(80-90)	0.0	0.0%
BL	(0-30)	122.2	46.6%
BM	(30-60)	8.8	3.4%
BH	(60-80)	0.0	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		262.0	100.0%
BUG Rating	B1 U0 G0		