



UL Verification Services Inc.
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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
HSL11-6-W-30 (6W, 40° WIDE 3000K)

Order Number
13931356
Test Number
13931356.03

Test Date

2021-07-29

Prepared By

Cordaryl Cousar, 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: 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: 12.00 VAC
Current: 0.5441 A
Power: 6.675 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	12.00 VAC	0.5441 A	6.675 W	0.998	60 Hz	2.71 %

Summary of Results

Spacing Criteria

0-180: 0.53
90-270: 0.53

Total Lumen Output:

399.9 Lumens

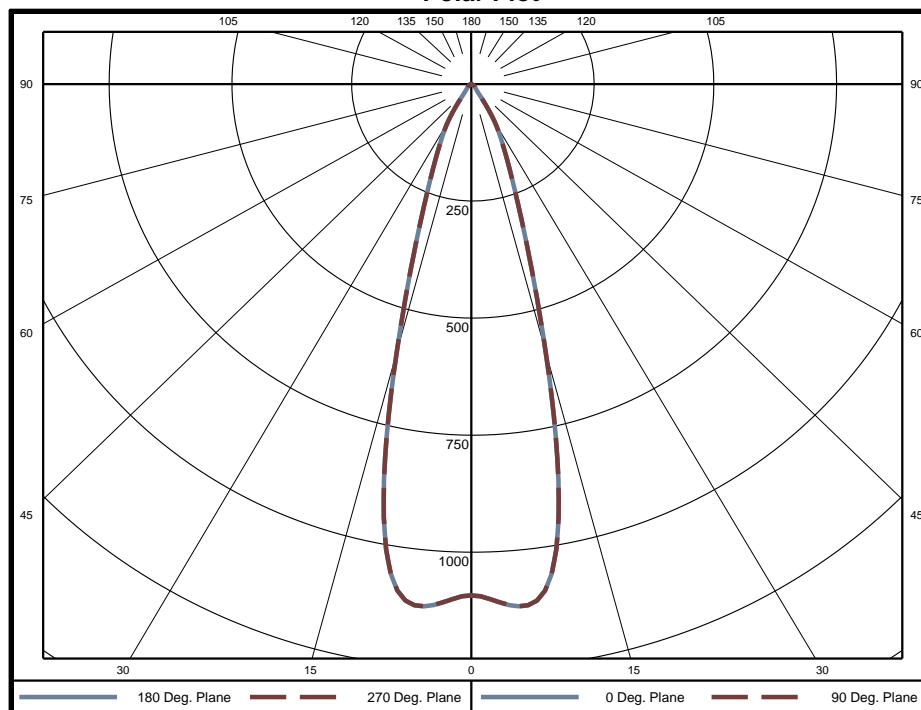
Luminaire Efficacy:

59.9 lm/w

Maximum Candela:

1120 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	26.54	6.6%	60-65	2.06	0.5%	120-125	0	0.0%
5-10	77.53	19.4%	65-70	1.56	0.4%	125-130	0	0.0%
10-15	94.84	23.7%	70-75	1.21	0.3%	130-135	0	0.0%
15-20	68.69	17.2%	75-80	0.86	0.2%	135-140	0	0.0%
20-25	46.61	11.7%	80-85	0.53	0.1%	140-145	0	0.0%
25-30	33.89	8.5%	85-90	0.23	0.1%	145-150	0	0.0%
30-35	20.88	5.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	8.32	2.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	5.35	1.3%	100-105	0	0.0%	160-165	0	0.0%
45-50	4.35	1.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	3.59	0.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	2.84	0.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	377	94.3%
0-60	393	98.4%
0-90	400	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	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092
	5	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120
	10	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009
	15	592	592	592	592	592	592	592	592	592	592	592	592	592	592	592
	20	294	294	294	294	294	294	294	294	294	294	294	294	294	294	294
	25	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	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	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	45	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	50	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	55	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	60	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	65	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	70	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	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/m²)

Horizontal Angle (Degrees)

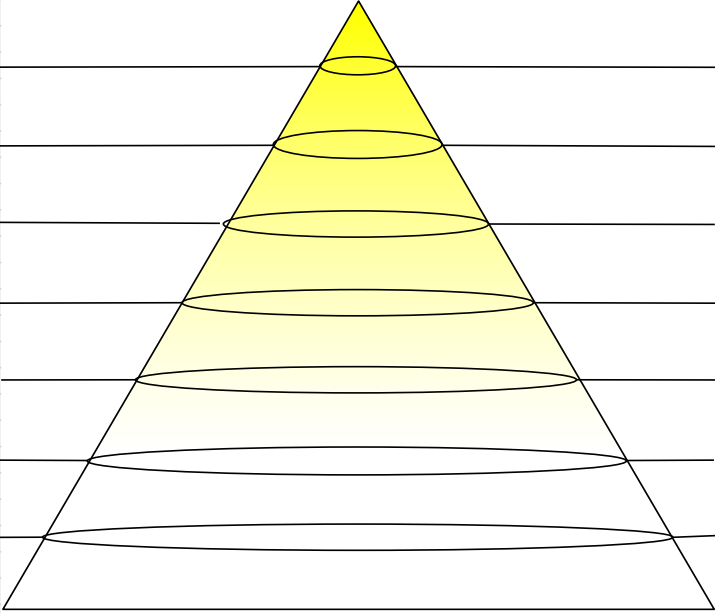
Vertical Angle (Degrees)	0	45	90
	0	1688000	1688000
	45	26730	26730
	55	19360	19360
	65	12980	12980
	75	11620	11620
	85	12070	12070



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	476	476	476	476	465	465	465	465	444	444	444	425	425	425	408	408	408	400
1	457	447	438	430	447	439	431	424	423	416	411	408	403	399	394	391	387	380
2	439	422	408	396	430	415	403	392	403	392	383	391	383	375	380	373	368	361
3	422	400	383	370	414	395	379	367	384	372	361	375	364	356	366	358	350	345
4	406	380	362	348	399	376	359	346	368	353	342	360	348	338	353	343	334	329
5	391	363	344	330	385	360	342	328	353	337	326	347	333	323	341	329	320	315
6	377	348	328	314	371	345	326	313	339	323	311	334	320	309	329	317	307	302
7	364	334	314	300	359	331	313	300	326	310	298	322	308	297	318	305	295	291
8	351	321	301	288	347	319	300	288	315	298	287	311	296	285	307	294	284	280
9	340	309	290	277	336	307	289	277	304	287	276	301	286	275	298	284	274	270
10	329	298	280	267	326	297	279	267	294	277	266	291	276	266	288	275	265	261

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1092 Candela
Central Cone Intensity:	1105 Candela
Beam Flux:	207.9 Lumens
Beam Angle (0-180):	31.1 Degrees
Beam Angle (90-270):	31.1 Degrees
Field Angle (0-180):	59.2 Degrees
Field Angle (90-270):	59.2 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
6.00		30.3	3.18
10.0		10.9	5.31
14.0		5.57	7.43
18.0		3.37	9.55
22.0		2.26	11.7
26.0		1.62	13.8
30.0		1.21	15.9



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	174.5	43.5%
FM	(30-60)	22.9	5.7%
FH	(60-80)	2.9	0.7%
FVH	(80-90)	0.4	0.1%
BL	(0-30)	174.5	43.5%
BM	(30-60)	22.9	5.7%
BH	(60-80)	2.9	0.7%
BVH	(80-90)	0.4	0.1%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		401.1	100.0%
BUG Rating	B1 U0 G0		