



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

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

Catalog Number
LDM350-180-30 (180° OPENING, 3000K)

Order Number
11263738
Test Number
1256651A

Revision of Test Number 1256651 on:

2021-06-29
Test Date

2018-03-08

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: Cylindrical copper housing, brass domed top with two (2) 90° openings and clear acrylic lens
Lamp: One (1) Cree XHP 3000K LED
Mounting: Recessed In-Grade/Wall

Luminaire



Luminaire Characteristics

Luminous Diameter: 3.50 in.
Luminous Height: 0.410 in.

Summary of Results

Roadway Classification: Type I, Very Long
Cutoff Classification: Noncutoff
BUG Rating: B0 U1 G0

Test Conditions

Test Temperature: 24.8 °C
Voltage: 11.92 VAC
Current: 0.3343 A
Power: 3.882 W
Power Factor: 0.974
Frequency: 60 Hz
Current THD: 13.6 %

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
24.8 °C	11.92 VAC	0.3343 A	3.882 W	0.974	60 Hz	13.6 %

Summary of Results

Spacing Criteria

0-180: 5.49
90-270: 3.90

Total Lumen Output:

34.66 Lumens

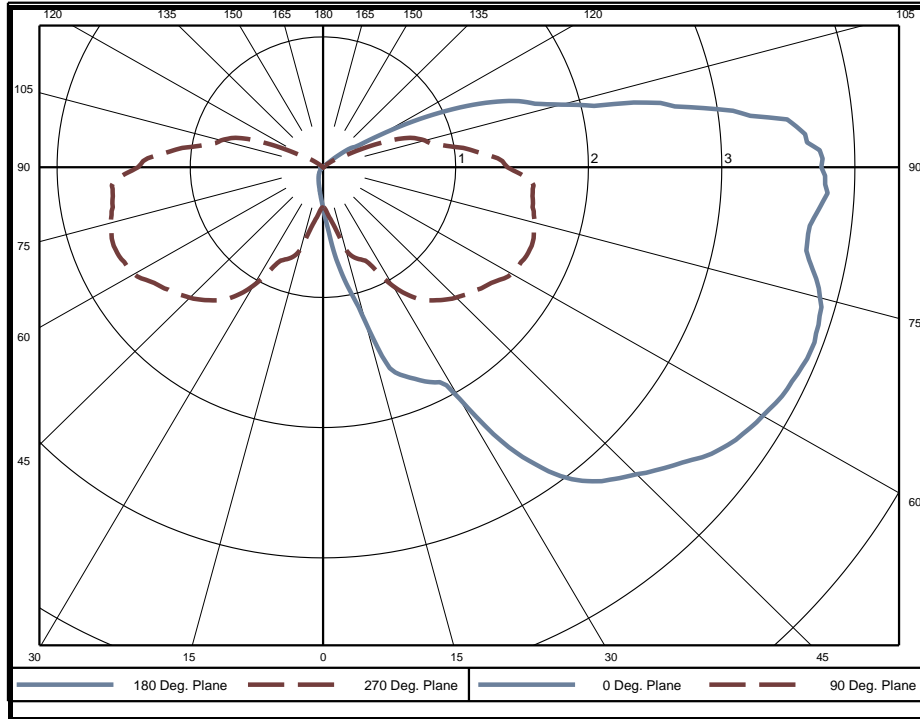
Luminaire Efficacy:

8.9 lm/w

Maximum Candela:

22 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.008	0.0%	60-65	1.571	4.5%	120-125	0.117	0.3%
5-10	0.031	0.1%	65-70	1.757	5.1%	125-130	0.058	0.2%
10-15	0.075	0.2%	70-75	2.025	5.8%	130-135	0.007	0.0%
15-20	0.145	0.4%	75-80	3.222	9.3%	135-140	0.001	0.0%
20-25	0.198	0.6%	80-85	4.103	11.8%	140-145	0.001	0.0%
25-30	0.318	0.9%	85-90	4.282	12.4%	145-150	0.001	0.0%
30-35	0.507	1.5%	90-95	4.442	12.8%	150-155	0.001	0.0%
35-40	0.657	1.9%	95-100	3.601	10.4%	155-160	0.000	0.0%
40-45	0.816	2.4%	100-105	1.580	4.6%	160-165	0.000	0.0%
45-50	1.005	2.9%	105-110	0.766	2.2%	165-170	0.000	0.0%
50-55	1.173	3.4%	110-115	0.556	1.6%	170-175	0.000	0.0%
55-60	1.362	3.9%	115-120	0.271	0.8%	175-180	0.000	0.0%

Zone	Lumens	% of Luminaire
0-40	2	5.6%
0-60	6	18.2%
0-90	23	67.1%
90-180	11	32.9%



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	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
	5	0.50	0.51	0.47	0.41	0.35	0.30	0.25	0.23	0.22	0.23	0.25	0.30	0.35	0.41	0.51
	10	0.84	0.88	0.80	0.61	0.45	0.32	0.23	0.18	0.16	0.18	0.23	0.32	0.45	0.61	0.88
	15	1.23	1.58	1.69	1.14	0.65	0.35	0.21	0.14	0.12	0.14	0.21	0.35	0.65	1.14	1.69
	20	1.70	1.89	1.78	1.28	0.75	0.40	0.19	0.12	0.10	0.12	0.19	0.40	0.75	1.28	1.78
	25	1.82	2.04	1.88	1.58	0.81	0.42	0.18	0.10	0.08	0.10	0.18	0.42	0.81	1.58	1.88
	30	2.05	3.30	3.61	2.65	1.05	0.42	0.17	0.08	0.06	0.08	0.17	0.42	1.05	2.65	3.30
	35	2.78	4.09	4.31	3.24	1.23	0.44	0.15	0.06	0.05	0.06	0.15	0.44	1.23	3.24	4.09
	40	3.15	4.51	4.72	3.74	1.33	0.45	0.14	0.05	0.03	0.05	0.14	0.45	1.33	3.74	4.51
	45	3.33	5.28	5.39	4.35	1.42	0.45	0.12	0.04	0.02	0.04	0.12	0.45	1.42	4.35	5.28
	50	3.53	6.25	6.03	4.84	1.49	0.46	0.11	0.03	0.02	0.03	0.11	0.46	1.49	4.84	6.03
	55	3.72	6.56	6.36	5.19	1.55	0.46	0.10	0.02	0.01	0.02	0.10	0.46	1.55	5.19	6.36
	60	3.82	7.51	7.26	6.16	1.64	0.46	0.09	0.02	0.01	0.02	0.09	0.46	1.64	6.16	7.51
	65	3.89	8.07	7.83	6.55	1.67	0.45	0.07	0.01	0.01	0.01	0.07	0.45	1.67	6.55	7.83
	70	3.93	8.81	8.68	7.60	1.68	0.44	0.06	0.01	0.01	0.01	0.06	0.44	1.68	7.60	8.81
	75	3.87	9.46	9.10	14.55	1.65	0.41	0.04	0.01	0.01	0.01	0.04	0.41	1.65	14.55	9.10
	80	3.69	14.85	19.17	19.60	1.61	0.35	0.03	0.01	0.01	0.01	0.03	0.35	1.61	19.60	19.17
	85	3.74	18.32	20.23	18.83	1.59	0.30	0.03	0.02	0.02	0.02	0.03	0.30	1.59	18.83	20.23
	90	3.75	20.74	20.74	19.69	1.39	0.24	0.02	0.02	0.02	0.02	0.02	0.24	1.39	19.69	20.74
	95	3.57	21.51	19.97	17.91	1.21	0.21	0.02	0.02	0.02	0.02	0.02	0.21	1.21	17.91	19.97
	100	2.69	16.55	15.14	10.17	0.95	0.18	0.02	0.02	0.02	0.02	0.02	0.18	0.95	10.17	15.14
	105	1.86	4.14	4.46	3.40	0.79	0.12	0.01	0.01	0.01	0.01	0.01	0.12	0.79	3.40	4.46
	110	1.49	2.82	3.07	2.92	0.65	0.07	0.01	0.01	0.01	0.01	0.01	0.07	0.65	2.92	3.07
	115	1.03	2.01	2.06	1.55	0.37	0.04	0.01	0.01	0.01	0.01	0.01	0.04	0.37	1.55	2.06
	120	0.49	0.81	0.91	0.58	0.15	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.15	0.58	0.91
	125	0.26	0.47	0.54	0.40	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.40	0.54	0.47
	130	0.09	0.17	0.13	0.06	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.06	0.13	0.17
	135	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00
	140	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	150	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	155	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	165	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	175	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	51	51
	45	1836	780
	55	1187	495
	65	1116	480
	75	1007	430
	85	925	394



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	39	39	39	39	36	36	36	36	32	32	32	28	28	28	25	25	25	23
1	31	28	25	23	29	26	24	21	23	20	19	19	17	16	16	15	13	12
2	27	23	19	16	25	21	18	15	18	15	13	15	13	11	12	11	9	8
3	24	19	16	12	22	18	14	12	15	12	10	13	10	8	10	8	7	5
4	22	17	13	10	20	15	12	9	13	10	8	11	8	6	9	7	5	4
5	20	15	11	8	18	14	10	7	11	9	6	10	7	5	8	6	4	3
6	18	13	9	7	17	12	9	6	10	7	5	8	6	4	7	5	3	2
7	17	12	8	6	16	11	8	5	9	6	4	8	5	4	6	4	3	2
8	16	10	7	5	14	10	7	5	8	6	4	7	5	3	6	4	2	2
9	15	9	6	4	13	9	6	4	8	5	3	6	4	3	5	3	2	1
10	14	9	6	4	13	8	5	3	7	5	3	6	4	2	5	3	2	1

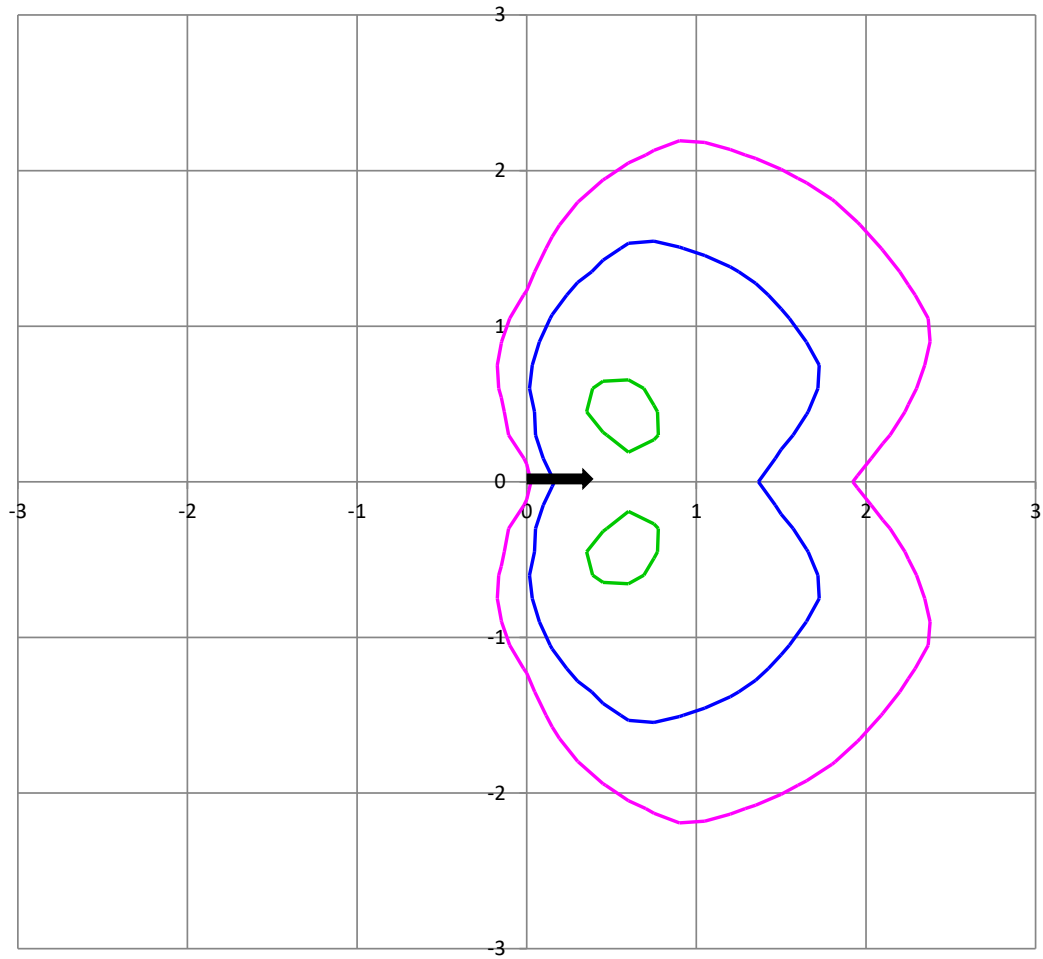
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	0.32 Candela
Central Cone Intensity:	0 Candela
Beam Flux:	34.5 Lumens
Beam Angle (0-180):	138.2 Degrees
Beam Angle (90-270):	237.8 Degrees
Field Angle (0-180):	174.0 Degrees
Field Angle (90-270):	254.5 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		0.0197	21.2
6.00		0.00876	31.9
8.00		0.00493	42.5
10.0		0.00316	53.1
12.0		0.00219	63.7
14.0		0.00161	74.3
16.0		0.00123	84.9

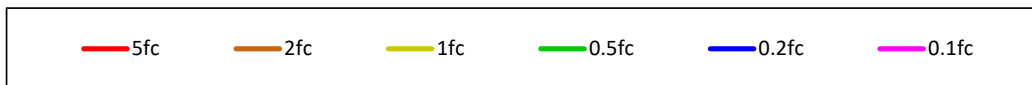


ISOFootcandle Plot

Mounting Height - 2 Feet

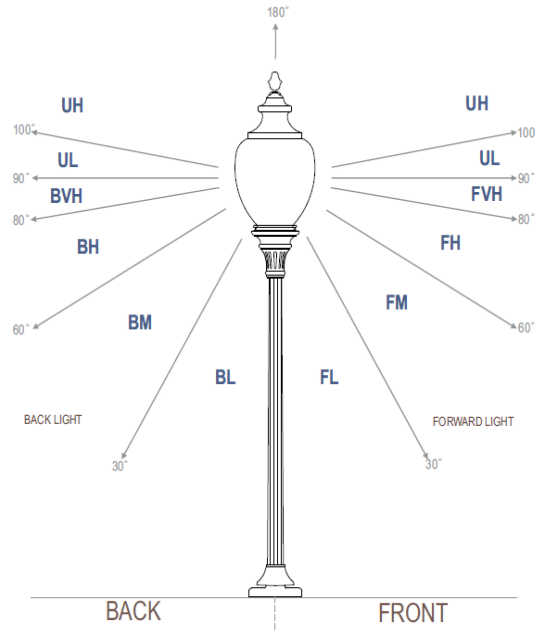


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	0.7	1.9%
FM	(30-60)	5.2	14.4%
FH	(60-80)	8.4	23.4%
FVH	(80-90)	8.6	23.9%
BL	(0-30)	0.1	0.3%
BM	(30-60)	0.3	1.0%
BH	(60-80)	0.3	0.8%
BVH	(80-90)	0.1	0.3%
UL	(90-100)	8.6	24.0%
UH	(100-180)	3.6	9.9%
Total		35.9	100.0%
BUG Rating	B0 U1 G0		



Attachment A

Amended Report Documentation

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