



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
LDL1-90-30 (3000K)

Order Number
13551695
Test Number
13551695.01

Test Date

2020-10-26

Prepared By

Jesse Litchfield, Technician

Approved By

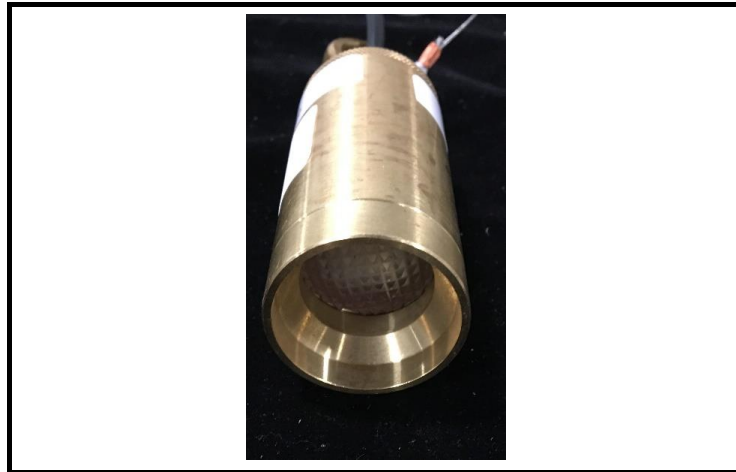
Alexa Lambert, Project Handler

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Luminaire Description: Cylindrical brass housing with acrylic optic
Lamp: One (1) XP-L 3000K Cree LED
Mounting: Pendant
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.25 in.

Summary of Results

Roadway Classification:	Type V, Very Short
Cutoff Classification:	Cutoff
BUG Rating:	B0 U1 G0

Test Conditions

Test Temperature:	25.1 °C
Voltage:	12.07 VAC
Current:	0.4147 A
Power:	2.925 W
Power Factor:	0.585
Frequency:	60 Hz
Current THD:	107 %

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
25.1 °C	12.07 VAC	0.4147 A	2.925 W	0.585	60 Hz	107 %

Summary of Results

Spacing Criteria

0-180: 1.17

90-270: 1.17

Total Lumen Output:

76.20 Lumens

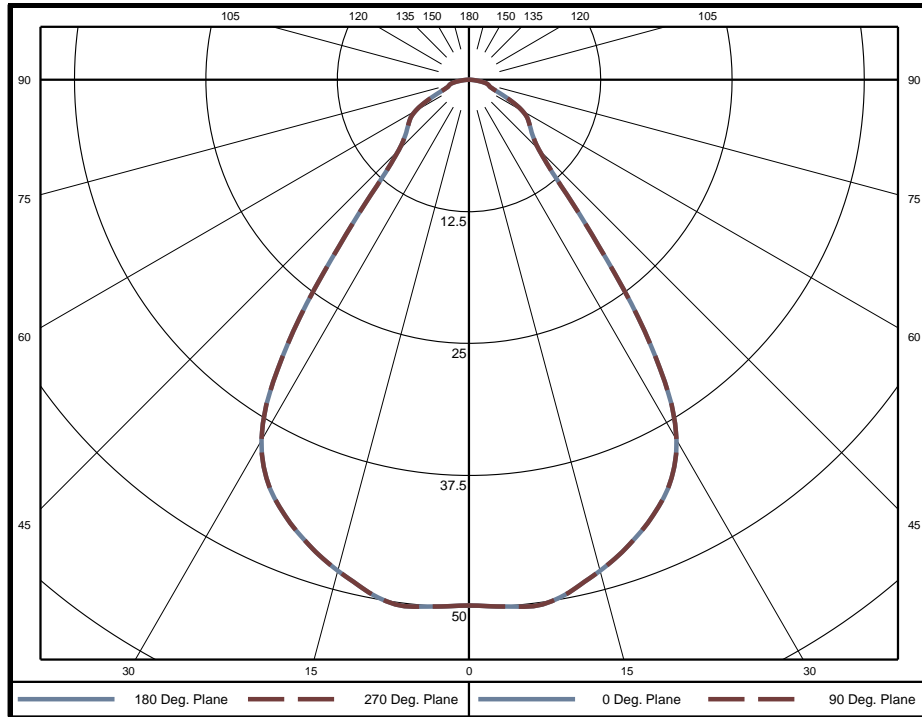
Luminaire Efficacy:

26.0 lm/w

Maximum Candela:

50 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.20	1.6%	60-65	2.34	3.1%	120-125	0	0.0%
5-10	3.59	4.7%	65-70	1.47	1.9%	125-130	0	0.0%
10-15	5.81	7.6%	70-75	1.08	1.4%	130-135	0	0.0%
15-20	7.78	10.2%	75-80	0.91	1.2%	135-140	0	0.0%
20-25	9.44	12.4%	80-85	0.52	0.7%	140-145	0	0.0%
25-30	10.57	13.9%	85-90	0.13	0.2%	145-150	0	0.0%
30-35	10.24	13.4%	90-95	0.00	0.0%	150-155	0	0.0%
35-40	7.24	9.5%	95-100	0	0.0%	155-160	0	0.0%
40-45	4.31	5.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	3.42	4.5%	105-110	0	0.0%	165-170	0	0.0%
50-55	3.19	4.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	2.98	3.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	56	73.3%
0-60	70	91.6%
0-90	76	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	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83
	5	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13	50.13
	10	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83	49.83
	15	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17	48.17
	20	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21
	25	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.73
	30	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41	39.41
	35	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08
	40	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35
	45	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41
	50	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77
	55	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92
	60	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80
	65	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	70	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
	75	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	80	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
	85	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
	90	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	95	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
	100	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
	105	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
	110	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
	115	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
	120	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
	125	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
	130	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
	135	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
	140	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
	145	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
	150	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
	155	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
	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	0.00	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
	170	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
	175	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
	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	62940	62940
	45	16810	16810
	55	15240	15240
	65	11210	11210
	75	9339	9339
	85	7604	7604



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	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	76
1	85	82	80	77	83	80	78	76	77	76	74	74	73	72	72	71	70	68
2	79	74	70	67	77	73	69	66	70	67	65	68	66	63	66	64	62	61
3	74	68	63	59	72	67	62	58	64	61	57	62	59	57	61	58	56	54
4	69	62	57	52	68	61	56	52	59	55	51	57	54	51	56	53	50	49
5	65	57	51	47	63	56	51	47	55	50	46	53	49	46	52	48	46	44
6	61	52	47	43	59	52	46	43	50	46	42	49	45	42	48	44	42	40
7	57	48	43	39	56	48	43	39	47	42	39	46	42	38	45	41	38	37
8	54	45	40	36	53	45	39	36	44	39	36	43	38	35	42	38	35	34
9	51	42	37	33	50	42	36	33	41	36	33	40	36	33	39	35	33	31
10	48	39	34	31	47	39	34	31	38	34	30	38	33	30	37	33	30	29

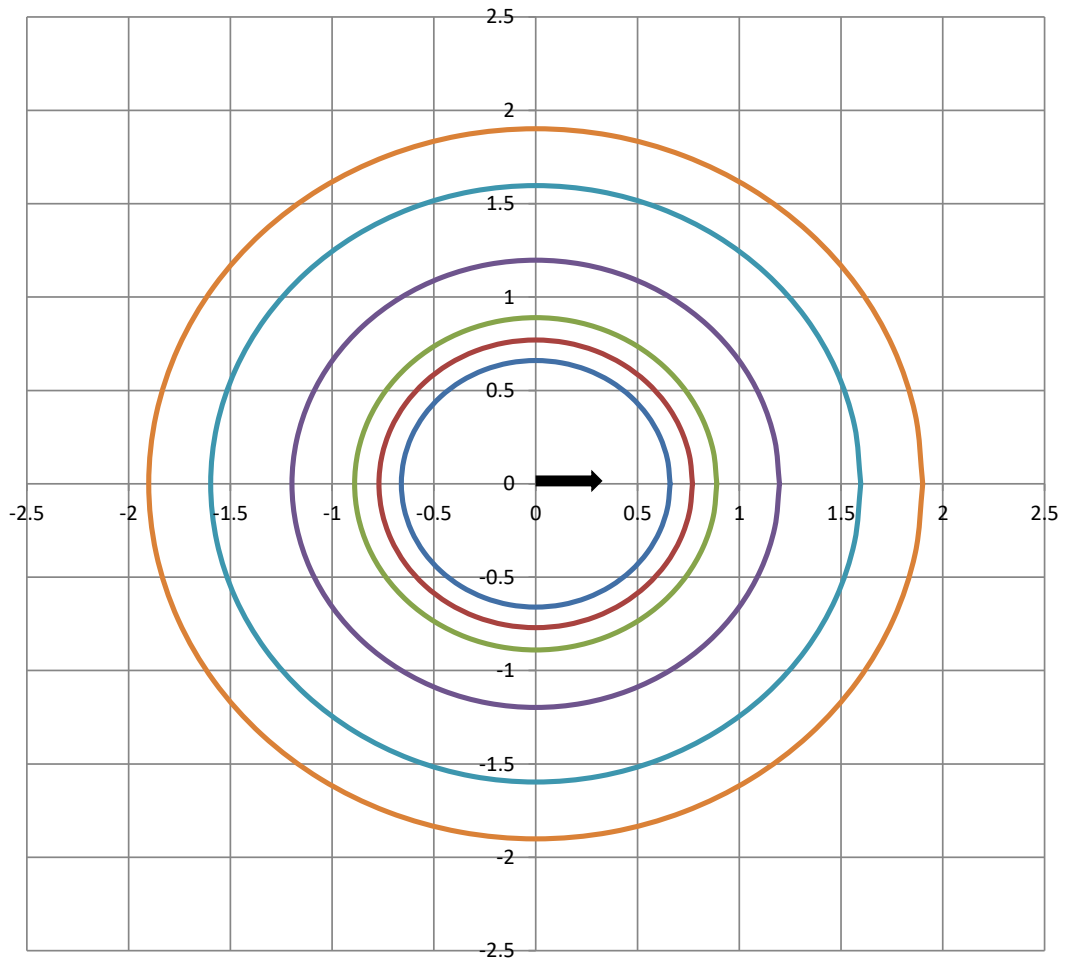
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	49.83 Candela
Central Cone Intensity:	50 Candela
Beam Flux:	51.1 Lumens
Beam Angle (0-180):	72.8 Degrees
Beam Angle (90-270):	72.8 Degrees
Field Angle (0-180):	124.3 Degrees
Field Angle (90-270):	124.3 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
6.00		1.38	7.04
10.0		0.498	11.7
14.0		0.254	16.4
18.0		0.154	21.1
22.0		0.103	25.8
26.0		0.0737	30.5
30.0		0.0554	35.2



ISOFootcandle Plot

Mounting Height - 10 Feet

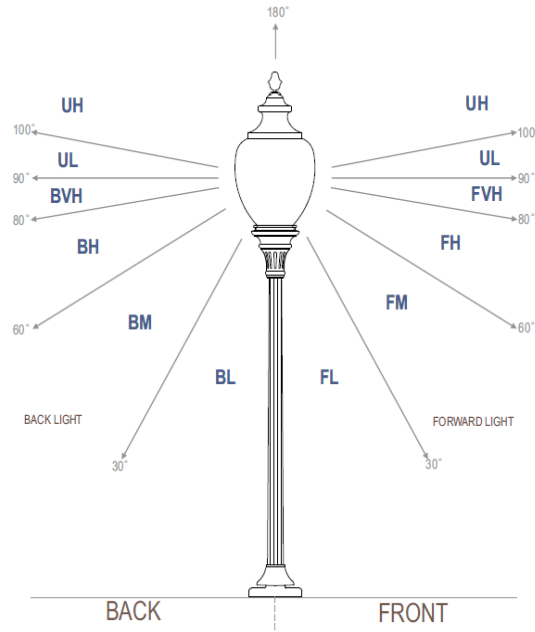


Grid Lines in Units of Mounting Height

0.2 fc 0.1 fc 0.05 fc 0.02 fc 0.01 fc 0.005 fc



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	19.2	25.1%
FM	(30-60)	15.8	20.6%
FH	(60-80)	2.9	3.8%
FVH	(80-90)	0.3	0.4%
BL	(0-30)	19.2	25.1%
BM	(30-60)	15.8	20.6%
BH	(60-80)	2.9	3.8%
BVH	(80-90)	0.3	0.4%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		76.4	100.0%
BUG Rating	B0 U1 G0		