



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
LQPL-1-30 (3000K)

Order Number

12250114

Test Number

12250114.75A

Revision of Test Number 12250114.75 on:

2021-06-14

Test Date

2018-05-07

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: Brass rectangular housing with acrylic optic and adjustable knuckle
Lamp: One (1) XP-L 3000K LED with one (1) acrylic 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: Semicutoff
BUG Rating: B0 U1 G0

Test Conditions

Test Temperature: 25.4 °C
Voltage: 12.26 VAC
Current: 0.4349 A
Power: 3.265 W
Power Factor: 0.613
Frequency: 60 Hz
Current THD: 88.1 %

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
25.4 °C	12.26 VAC	0.4349 A	3.265 W	0.613	60 Hz	88.1 %

Summary of Results

Spacing Criteria

0-180: 1.18

90-270: 1.18

Total Lumen Output:

170.0 Lumens

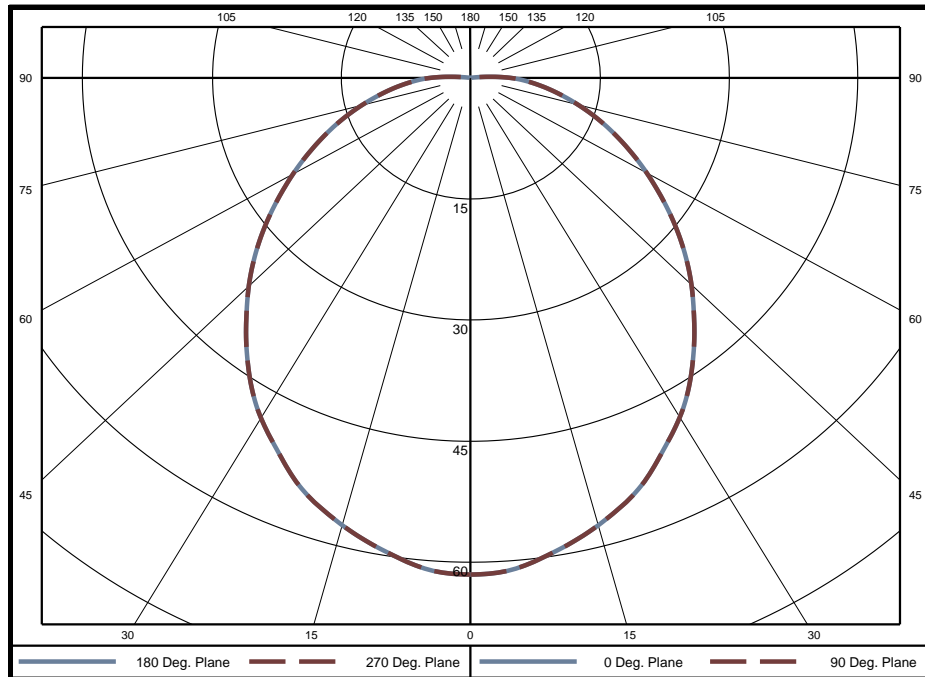
Luminaire Efficacy:

52.1 lm/w

Maximum Candela:

62 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.47	0.9%	60-65	10.58	6.2%	120-125	0	0.0%
5-10	4.30	2.5%	65-70	9.16	5.4%	125-130	0	0.0%
10-15	6.92	4.1%	70-75	7.66	4.5%	130-135	0	0.0%
15-20	9.26	5.4%	75-80	6.13	3.6%	135-140	0	0.0%
20-25	11.22	6.6%	80-85	4.67	2.7%	140-145	0	0.0%
25-30	12.70	7.5%	85-90	3.28	1.9%	145-150	0	0.0%
30-35	13.75	8.1%	90-95	1.58	0.9%	150-155	0	0.0%
35-40	14.20	8.4%	95-100	0.17	0.1%	155-160	0	0.0%
40-45	14.20	8.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	13.82	8.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	13.02	7.7%	110-115	0	0.0%	170-175	0	0.0%
55-60	11.89	7.0%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	74	43.4%
0-60	127	74.6%
0-90	168	99.0%
90-180	2	1.0%



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	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51
	5	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99	60.99
	10	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30	59.30
	15	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37	57.37
	20	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07	55.07
	25	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88	51.88
	30	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60	48.60
	35	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73	44.73
	40	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47	40.47
	45	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33	36.33
	50	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11	32.11
	55	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81	27.81
	60	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71	23.71
	65	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88
	70	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35
	75	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	80	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97
	85	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
	90	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63
	95	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
	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)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)			
		0	45	90
	0	121400	121400	121400
	45	101400	101400	101400
	55	95690	95690	95690
	65	92850	92850	92850
	75	99100	99100	99100
	85	164600	164600	164600



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	202	202	202	202	197	197	197	197	188	188	188	180	180	180	172	172	172	168
1	182	173	165	158	177	169	162	155	162	156	150	155	150	145	148	144	140	137
2	165	151	138	128	161	147	136	126	141	131	123	135	127	120	129	123	117	113
3	151	132	118	106	146	129	116	105	124	112	103	119	109	101	114	106	99	95
4	138	117	102	90	134	115	100	89	110	98	88	106	95	86	102	93	85	81
5	127	105	89	78	123	103	88	77	99	86	76	95	84	75	92	82	74	70
6	117	94	79	68	114	93	78	67	89	76	67	86	75	66	83	73	65	62
7	109	86	71	60	106	84	70	60	81	69	59	79	67	59	76	66	58	55
8	102	78	64	54	99	77	63	53	75	62	53	72	61	53	70	60	52	49
9	95	72	58	48	92	71	57	48	69	56	48	67	56	47	65	55	47	44
10	89	66	53	44	87	66	53	44	64	52	44	62	51	43	60	50	43	40

Beam and Field Information

CIE Type:	Direct
Center Beam Intensity:	61.51 Candela
Central Cone Intensity:	61 Candela
Beam Flux:	106.0 Lumens
Beam Angle (0-180):	103.2 Degrees
Beam Angle (90-270):	103.2 Degrees
Field Angle (0-180):	174.4 Degrees
Field Angle (90-270):	174.4 Degrees

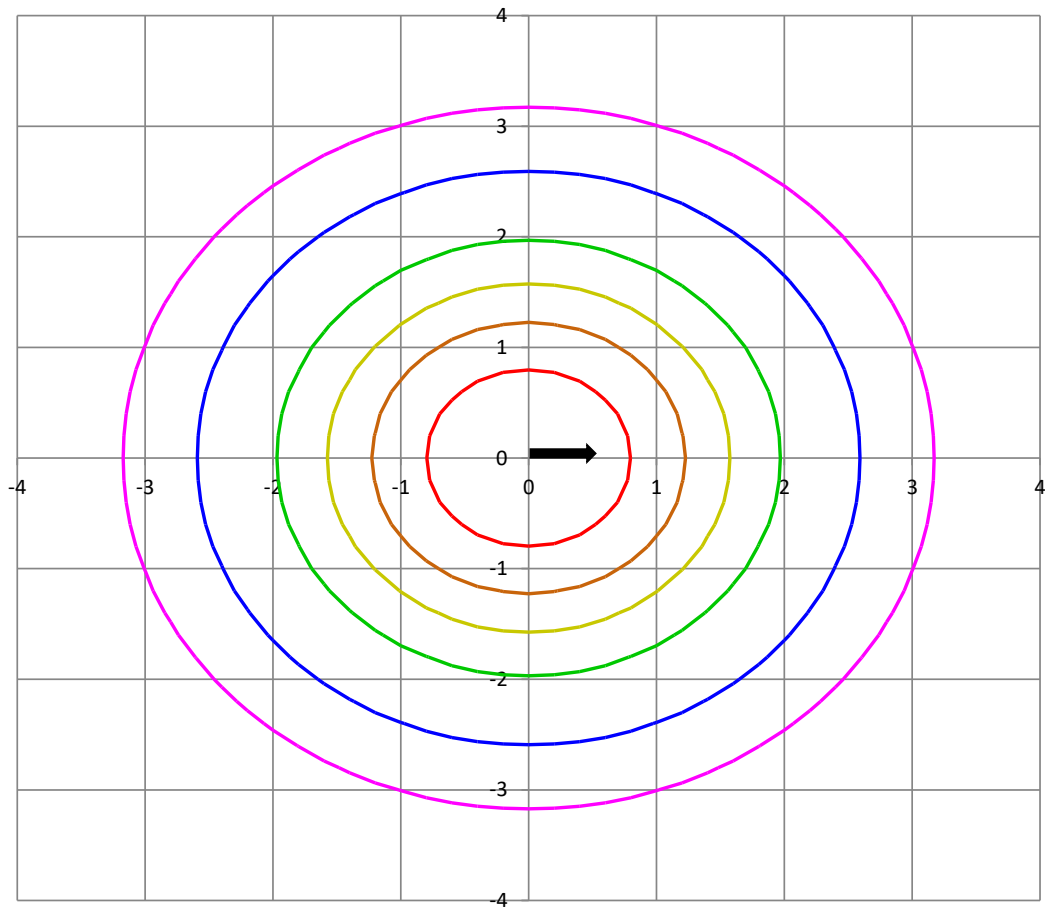
Cone of Light Tabulation

Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		3.84	4.73
6.00		1.71	7.09
8.00		0.961	9.46
10.0		0.615	11.8
12.0		0.427	14.2
14.0		0.314	16.5
16.0		0.240	18.9

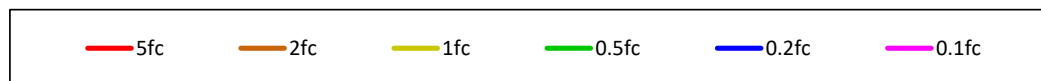


ISOFootcandle Plot

Mounting Height - 2 Feet

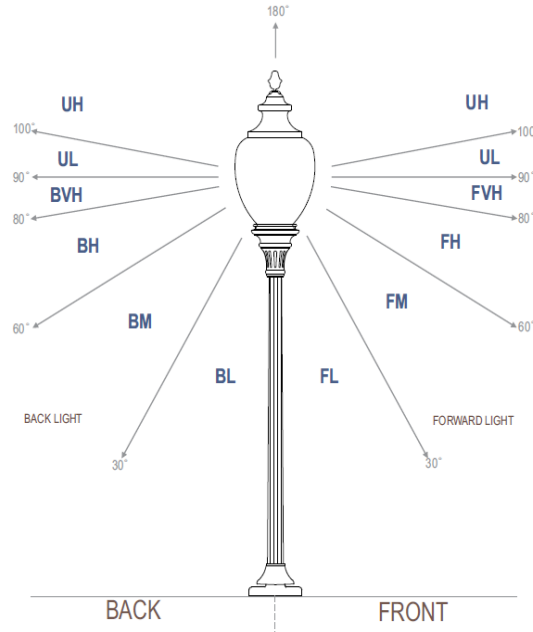


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	23.0	13.5%
FM	(30-60)	40.4	23.8%
FH	(60-80)	16.8	9.9%
FVH	(80-90)	4.0	2.3%
BL	(0-30)	23.0	13.5%
BM	(30-60)	40.4	23.8%
BH	(60-80)	16.8	9.9%
BVH	(80-90)	4.0	2.3%
UL	(90-100)	1.7	1.0%
UH	(100-180)	0.0	0.0%
Total		169.9	100.0%
BUG Rating	B0 U1 G0		