



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-1-27 (2700K)

Order Number
12250114
Test Number
12250114.76A

Revision of Test Number 12250114.76 on:

2021-06-14
Test Date

2018-05-07

Prepared By

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Approved By

Alexa Lambert, Project Handler

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Luminaire Description: Brass rectangular housing with acrylic optic and adjustable knuckle
Lamp: One (1) XP-L 2700K 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:

145.7 Lumens

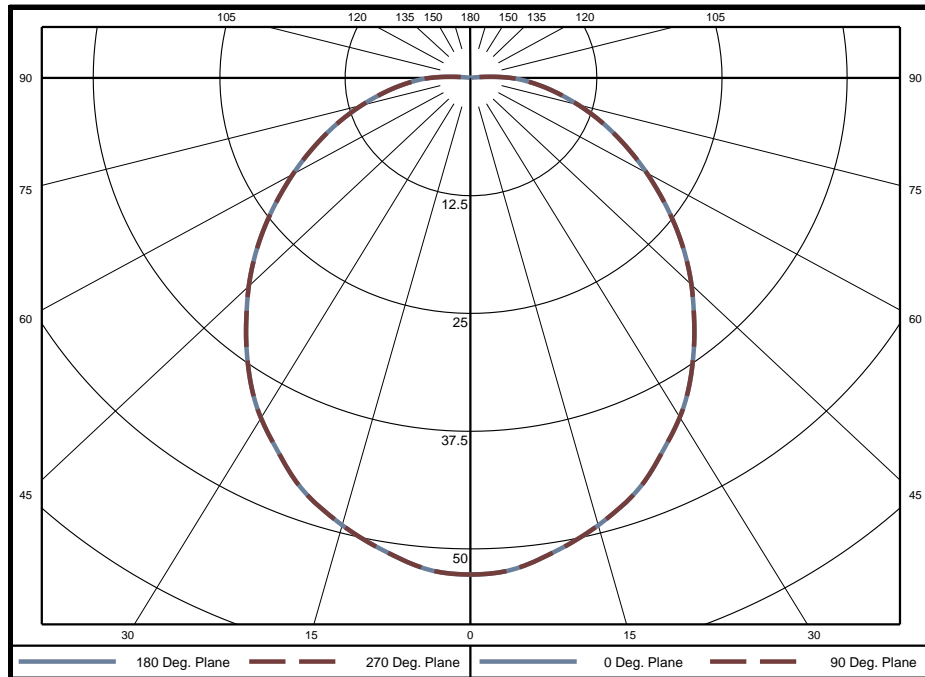
Luminaire Efficacy:

44.6 lm/w

Maximum Candela:

53 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.26	0.9%	60-65	9.07	6.2%	120-125	0	0.0%
5-10	3.68	2.5%	65-70	7.85	5.4%	125-130	0	0.0%
10-15	5.93	4.1%	70-75	6.56	4.5%	130-135	0	0.0%
15-20	7.94	5.4%	75-80	5.25	3.6%	135-140	0	0.0%
20-25	9.62	6.6%	80-85	4.01	2.8%	140-145	0	0.0%
25-30	10.89	7.5%	85-90	2.81	1.9%	145-150	0	0.0%
30-35	11.78	8.1%	90-95	1.36	0.9%	150-155	0	0.0%
35-40	12.17	8.4%	95-100	0.15	0.1%	155-160	0	0.0%
40-45	12.17	8.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	11.84	8.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	11.15	7.7%	110-115	0	0.0%	170-175	0	0.0%
55-60	10.19	7.0%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	63	43.4%
0-60	109	74.6%
0-90	144	98.9%
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	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71	52.71
	5	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26	52.26
	10	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82
	15	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16	49.16
	20	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19
	25	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46	44.46
	30	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64	41.64
	35	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33	38.33
	40	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68
	45	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13	31.13
	50	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51	27.51
	55	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83
	60	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32
	65	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04
	70	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01
	75	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14	11.14
	80	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55
	85	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23
	90	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97
	95	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	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	104000	104000	104000
	45	86880	86880	86880
	55	81990	81990	81990
	65	79560	79560	79560
	75	84920	84920	84920
	85	141000	141000	141000



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	173	173	173	173	169	169	169	169	161	161	161	154	154	154	147	147	147	144
1	156	149	142	135	152	145	139	133	139	133	129	133	128	124	127	124	120	117
2	142	129	118	110	138	126	116	108	121	112	105	116	109	103	111	105	100	97
3	129	113	101	91	125	111	99	90	106	96	88	102	93	86	98	91	85	81
4	118	100	87	77	115	98	86	76	94	84	75	91	81	74	87	79	73	70
5	109	90	76	66	106	88	75	66	85	74	65	82	72	64	79	70	63	60
6	101	81	68	58	98	79	67	58	77	65	57	74	64	57	72	63	56	53
7	93	73	61	51	91	72	60	51	70	59	51	68	58	50	65	57	50	47
8	87	67	55	46	85	66	54	46	64	53	45	62	52	45	60	51	45	42
9	81	62	50	41	79	61	49	41	59	48	41	57	48	41	56	47	40	38
10	76	57	45	38	74	56	45	38	55	44	37	53	44	37	52	43	37	34

Beam and Field Information

CIE Type:	Direct
Center Beam Intensity:	52.71 Candela
Central Cone Intensity:	53 Candela
Beam Flux:	90.8 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

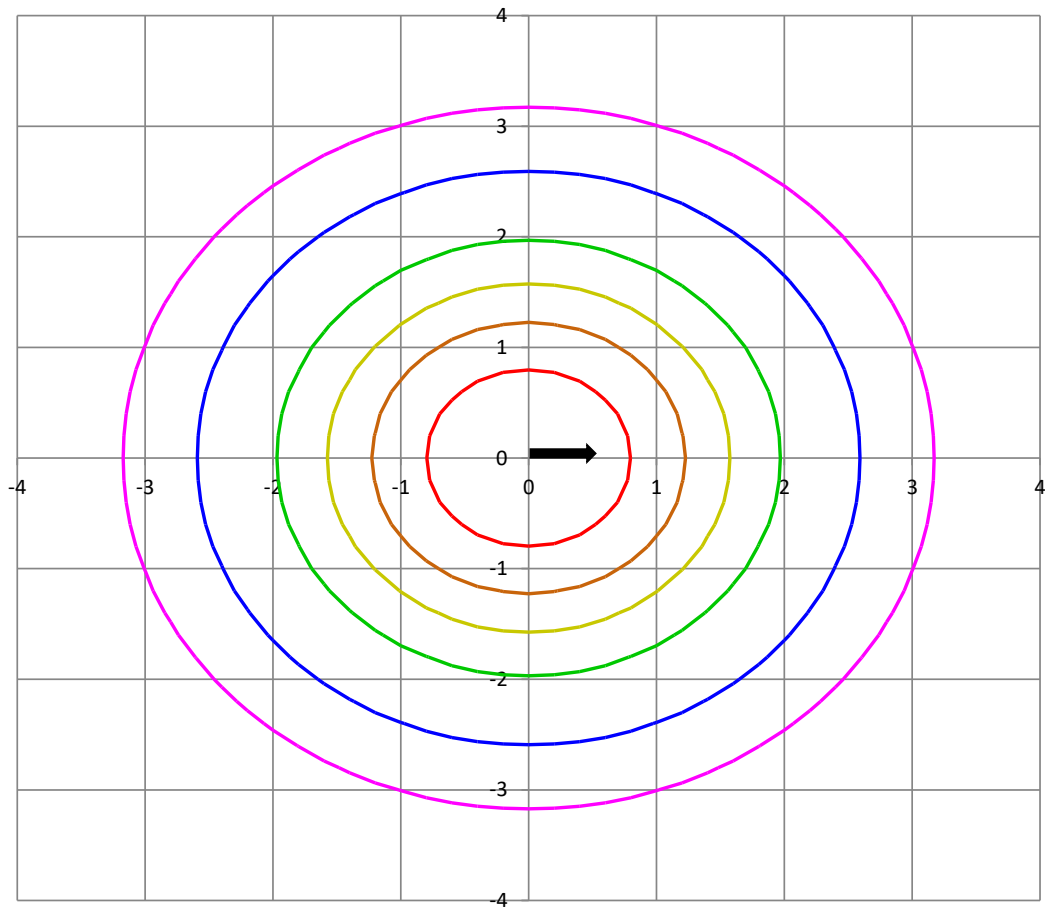
Cone of Light Tabulation

Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		3.29	4.73
6.00		1.46	7.09
8.00		0.824	9.46
10.0		0.527	11.8
12.0		0.366	14.2
14.0		0.269	16.5
16.0		0.206	18.9

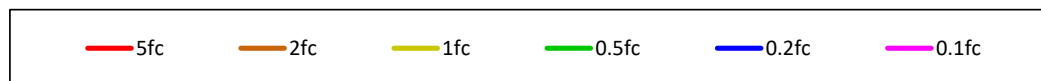


ISOFootcandle Plot

Mounting Height - 2 Feet

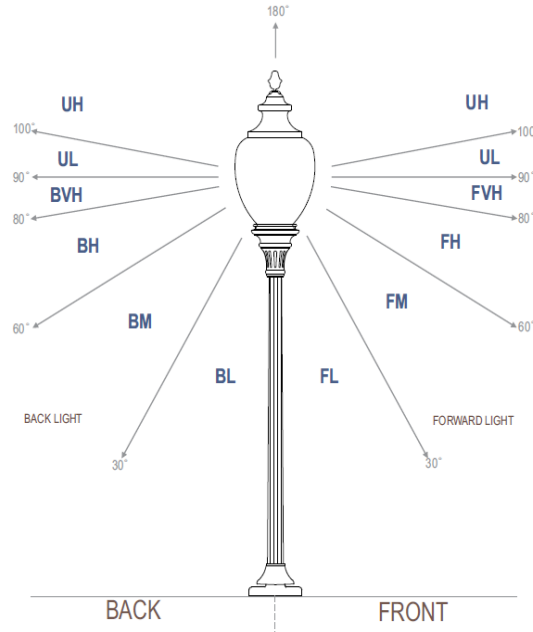


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	19.7	13.5%
FM	(30-60)	34.6	23.8%
FH	(60-80)	14.3	9.8%
FVH	(80-90)	3.4	2.3%
BL	(0-30)	19.7	13.5%
BM	(30-60)	34.6	23.8%
BH	(60-80)	14.3	9.8%
BVH	(80-90)	3.4	2.3%
UL	(90-100)	1.4	1.0%
UH	(100-180)	0.0	0.0%
Total		145.1	100.0%
BUG Rating	B0 U1 G0		