



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
LWW-2-27 (2700K)

Order Number
12250114
Test Number
12250114.05

Test Date

2018-04-12

Prepared By

Samuel DePue, 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 housing with brass glare shield, dual light source and adjustable knuckle
Lamp: Two (2) XP-L 2700K LEDs with two (2) acrylic optics
Mounting: Flood
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Length: 2.00 in.
Luminous Width: 3.250 in.
Luminous Height: 1.00 in.

Summary of Results

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

Test Conditions

Test Temperature: 24.6 °C
Voltage: 12.02 VAC
Current: 0.5527 A
Power: 4.136 W
Power Factor: 0.623
Frequency: 60 Hz
Current THD: 93.4 %

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
24.6 °C	12.02 VAC	0.5527 A	4.136 W	0.623	60 Hz	93.4 %

Summary of Results

Spacing Criteria

0-180: 1.25

90-270: 1.21

Total Lumen Output:

170.7 Lumens

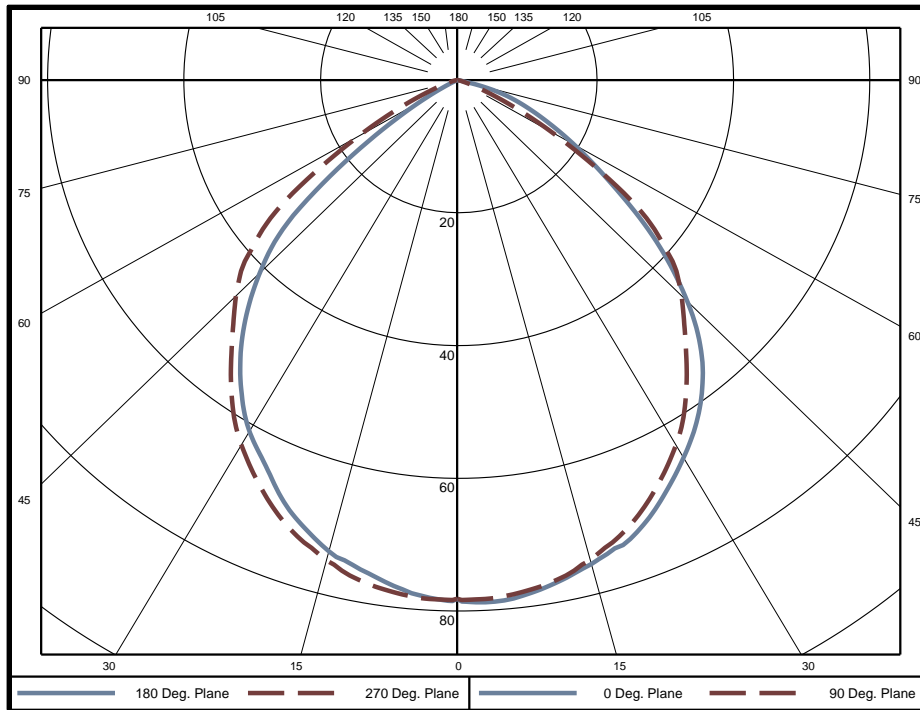
Luminaire Efficacy:

41.3 lm/w

Maximum Candela:

79 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.87	1.1%	60-65	7.03	4.1%	120-125	0	0.0%
5-10	5.52	3.2%	65-70	3.72	2.2%	125-130	0	0.0%
10-15	8.96	5.2%	70-75	1.82	1.1%	130-135	0	0.0%
15-20	12.08	7.1%	75-80	0.88	0.5%	135-140	0	0.0%
20-25	14.70	8.6%	80-85	0.38	0.2%	140-145	0	0.0%
25-30	16.62	9.7%	85-90	0.08	0.0%	145-150	0	0.0%
30-35	17.88	10.5%	90-95	0.00	0.0%	150-155	0	0.0%
35-40	18.28	10.7%	95-100	0	0.0%	155-160	0	0.0%
40-45	17.96	10.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	16.96	9.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	14.79	8.7%	110-115	0	0.0%	170-175	0	0.0%
55-60	11.14	6.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	96	56.2%
0-60	157	91.8%
0-90	171	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	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14	78.14
	5	78.69	78.14	78.13	78.14	78.06	77.64	77.23	77.07	77.60	77.07	77.23	77.64	78.06	78.14	78.14
	10	77.35	76.95	77.06	77.22	76.98	76.36	75.64	75.14	75.47	75.14	75.64	76.36	76.98	77.22	77.06
	15	75.47	75.21	75.52	75.45	74.88	74.49	73.82	73.03	73.48	73.03	73.82	74.49	74.88	75.45	75.52
	20	73.58	73.39	73.53	73.31	72.04	71.87	70.63	69.65	70.14	69.65	70.63	71.87	72.04	73.31	73.53
	25	69.96	69.91	70.00	69.31	68.17	67.40	65.94	65.12	65.63	65.12	65.94	67.40	68.17	69.31	70.00
	30	65.76	66.05	65.54	64.69	63.68	62.42	60.95	60.54	61.40	60.54	60.95	62.42	63.68	64.69	65.54
	35	61.24	61.10	59.92	59.05	58.12	56.53	55.06	54.96	55.94	54.96	55.06	56.53	58.12	59.05	59.92
	40	55.48	54.77	54.23	53.01	51.82	50.29	48.98	48.31	49.34	48.31	48.98	50.29	51.82	53.01	54.23
	45	47.43	47.67	48.19	47.40	46.30	44.66	42.87	41.20	41.58	41.20	42.87	44.66	46.30	47.40	48.19
	50	37.79	39.59	41.86	41.89	39.74	39.13	36.88	33.62	31.71	33.62	36.88	39.13	39.74	41.89	41.86
	55	27.63	31.23	35.04	34.51	29.67	30.23	30.82	20.93	16.07	20.93	30.82	30.23	29.67	34.51	35.04
	60	19.93	23.39	27.90	23.40	16.64	17.33	23.05	8.55	5.14	8.55	23.05	17.33	16.64	23.40	27.90
	65	13.87	16.53	20.24	12.36	7.68	7.55	9.99	1.22	0.17	1.22	9.99	7.55	7.68	12.36	20.24
	70	9.17	10.55	12.42	5.28	2.89	2.24	1.74	0.00	0.00	0.00	1.74	2.24	2.89	5.28	12.42
	75	4.38	6.10	7.45	1.73	0.91	0.50	0.00	0.00	0.00	0.00	0.50	0.91	1.73	7.45	6.10
	80	0.51	3.62	3.90	0.40	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.40	3.90	3.62
	85	0.12	1.10	1.59	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.59	1.10
	90	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
	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)

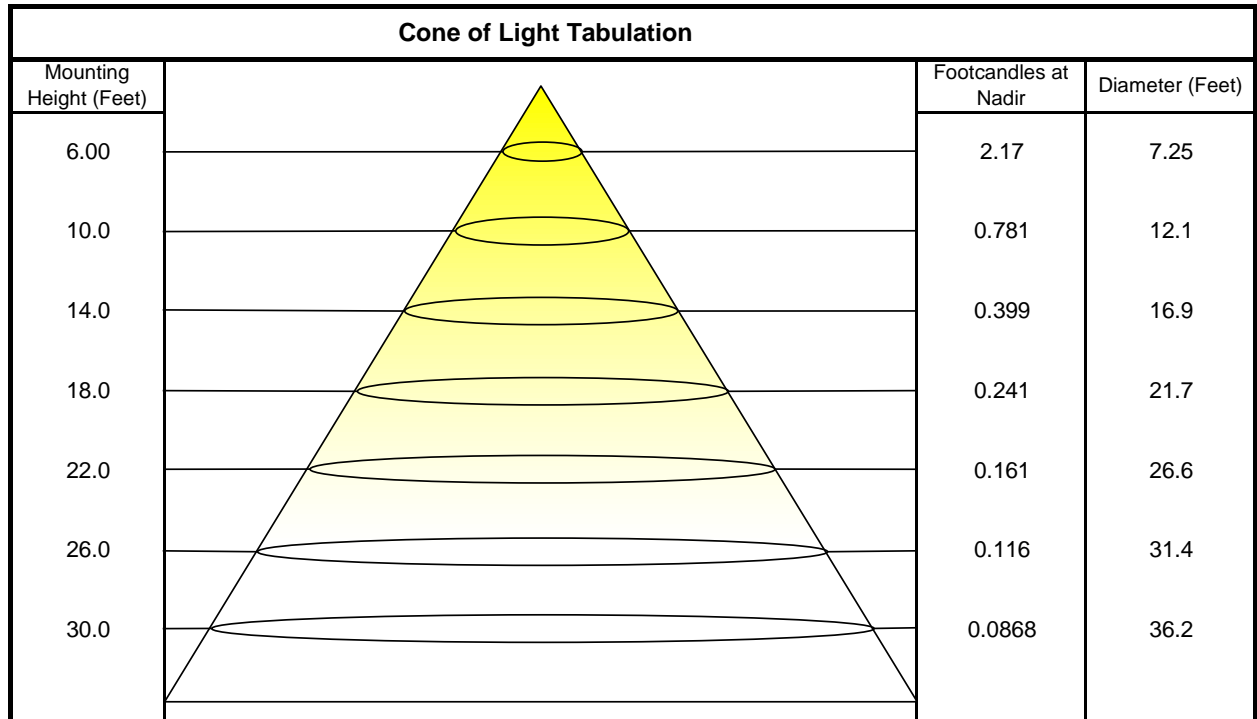
Vertical Angle (Degrees)	0	45	90
	0	18630	18630
	45	10660	10340
	55	6702	8023
	65	3775	5132
	75	1408	2191
	85	50	577



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	203	203	203	203	198	198	198	198	190	190	190	182	182	182	174	174	174	171
1	189	183	177	172	185	179	174	169	172	168	164	165	162	159	159	157	154	151
2	175	163	153	145	171	160	151	144	154	147	140	149	143	137	144	139	134	131
3	161	146	134	124	157	143	132	123	138	129	121	134	126	119	130	123	117	114
4	149	131	118	108	145	129	116	107	125	114	106	121	112	104	117	109	103	100
5	138	118	104	94	134	116	103	94	113	101	93	110	100	92	107	98	91	88
6	128	107	93	83	125	106	92	83	103	91	82	100	89	82	97	88	81	78
7	119	98	84	74	116	96	83	74	94	82	73	91	81	73	89	80	72	69
8	111	89	76	67	108	88	75	66	86	74	66	84	74	66	82	73	65	62
9	104	82	69	60	102	81	69	60	80	68	60	78	67	60	76	66	59	56
10	97	76	63	55	95	75	63	55	74	62	55	72	62	54	71	61	54	51

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	78.14 Candela
Central Cone Intensity:	78 Candela
Beam Flux:	130.2 Lumens
Beam Angle (0-180):	95.9 Degrees
Beam Angle (90-270):	100.8 Degrees
Field Angle (0-180):	130.1 Degrees
Field Angle (90-270):	129.8 Degrees





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	30.4	17.8%
FM	(30-60)	51.4	30.2%
FH	(60-80)	10.1	5.9%
FVH	(80-90)	0.5	0.3%
BL	(0-30)	29.4	17.2%
BM	(30-60)	45.4	26.6%
BH	(60-80)	3.3	2.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		170.4	100.0%
BUG Rating	B0 U1 G0		