



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

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

Catalog Number
LPL6-6-30 (6W, 3000K)

Order Number
14012719
Test Number
14012719.06

Test Date

2021-09-27

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 stem with 6" shade and glass lens
Lamp: One white LED
Mounting: Bollard
Ballast/Driver: PROPRIETARY

Luminaire



Luminaire Characteristics

Luminous Diameter: 6.00 in.

Summary of Results

Roadway Classification: Type V, Very Short
Cutoff Classification: Semicutoff
BUG Rating: B0 U0 G1

Test Conditions

Test Temperature: 25.2 °C
Voltage: 12.06 VAC
Current: 0.4617 A
Power: 5.552 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 3.87 %

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
25.2 °C	12.06 VAC	0.4617 A	5.552 W	0.997	60 Hz	3.87 %

Summary of Results

Spacing Criteria

0-180: 1.36

90-270: 1.36

Total Lumen Output:

211.0 Lumens

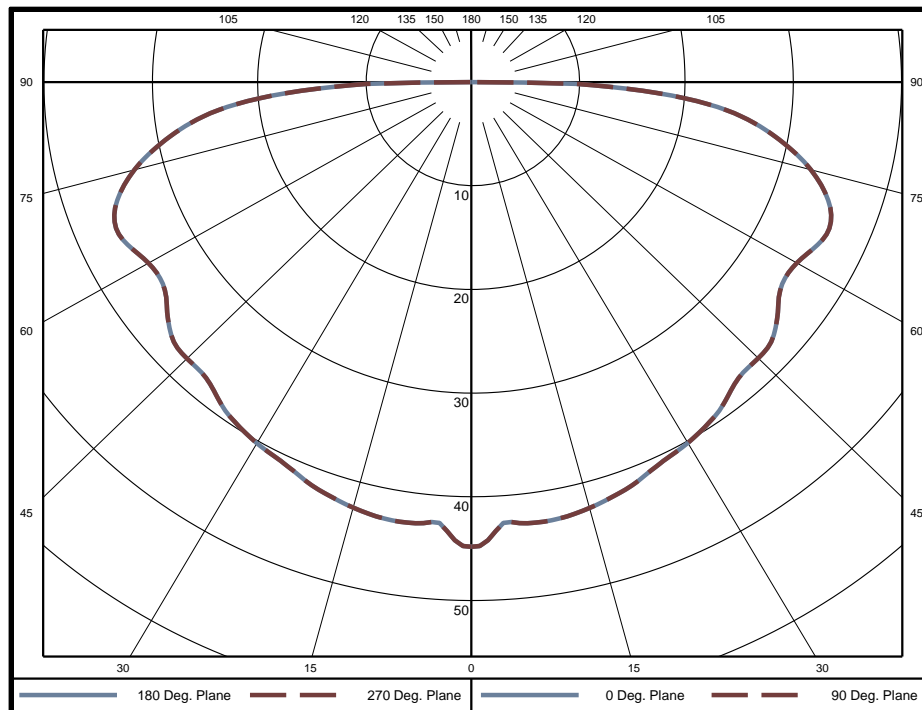
Luminaire Efficacy:

38.0 lm/w

Maximum Candela:

45 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.03	0.5%	60-65	17.22	8.2%	120-125	0	0.0%
5-10	3.07	1.5%	65-70	18.19	8.6%	125-130	0	0.0%
10-15	5.07	2.4%	70-75	17.86	8.5%	130-135	0	0.0%
15-20	6.95	3.3%	75-80	16.31	7.7%	135-140	0	0.0%
20-25	8.67	4.1%	80-85	13.59	6.4%	140-145	0	0.0%
25-30	10.24	4.9%	85-90	7.40	3.5%	145-150	0	0.0%
30-35	11.72	5.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	12.91	6.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	13.97	6.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	15.12	7.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	15.60	7.4%	110-115	0	0.0%	170-175	0	0.0%
55-60	16.08	7.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	60	28.3%
0-60	120	57.1%
0-90	211	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	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81	44.81
	5	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59	42.59
	10	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91	42.91
	15	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51	42.51
	20	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82
	25	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83	40.83
	30	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18	40.18
	35	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37	39.37
	40	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01
	45	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66	37.66
	50	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85	36.85
	55	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99	34.99
	60	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88
	65	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96
	70	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45	35.45
	75	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61
	80	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13
	85	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01
	90	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
	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	2457	2457
	45	2919	2919
	55	3344	3344
	65	4665	4665
	75	6906	6906
	85	13210	13210



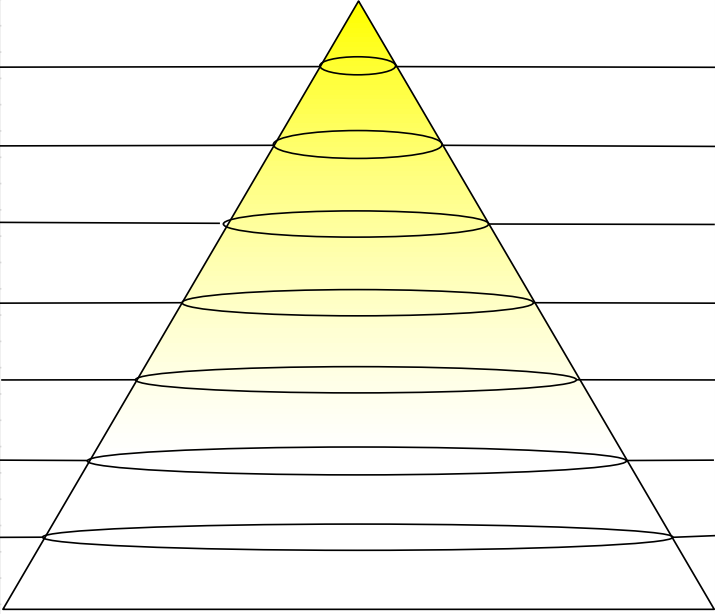
Utilization of Lumens - Zonal Cavity Method

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	251	251	251	251	245	245	245	245	234	234	234	224	224	224	215	215	215	211
1	218	203	190	178	212	198	186	175	189	179	169	180	172	164	172	165	159	154
2	193	170	151	135	187	166	148	133	158	143	129	150	137	126	143	133	123	118
3	173	145	123	106	167	141	121	105	135	117	103	128	113	101	122	110	99	93
4	157	126	104	86	151	123	102	86	117	99	84	112	96	83	107	93	82	76
5	143	111	89	72	138	108	87	72	104	85	71	99	83	70	95	80	69	64
6	131	99	77	62	127	97	76	61	93	74	61	89	72	60	85	71	59	54
7	121	89	68	54	117	87	67	53	84	66	53	80	64	52	77	63	52	47
8	113	81	61	47	109	79	60	47	76	59	46	73	58	46	71	56	46	41
9	105	74	55	42	102	73	54	42	70	53	41	68	52	41	65	51	41	37
10	98	68	50	38	95	67	49	37	65	48	37	62	48	37	60	47	37	33

Beam and Field Information

CIE Type:	Direct
Center Beam Intensity:	44.81 Candela
Central Cone Intensity:	44 Candela
Beam Flux:	201.8 Lumens
Beam Angle (0-180):	168.6 Degrees
Beam Angle (90-270):	168.6 Degrees
Field Angle (0-180):	179.1 Degrees
Field Angle (90-270):	179.1 Degrees

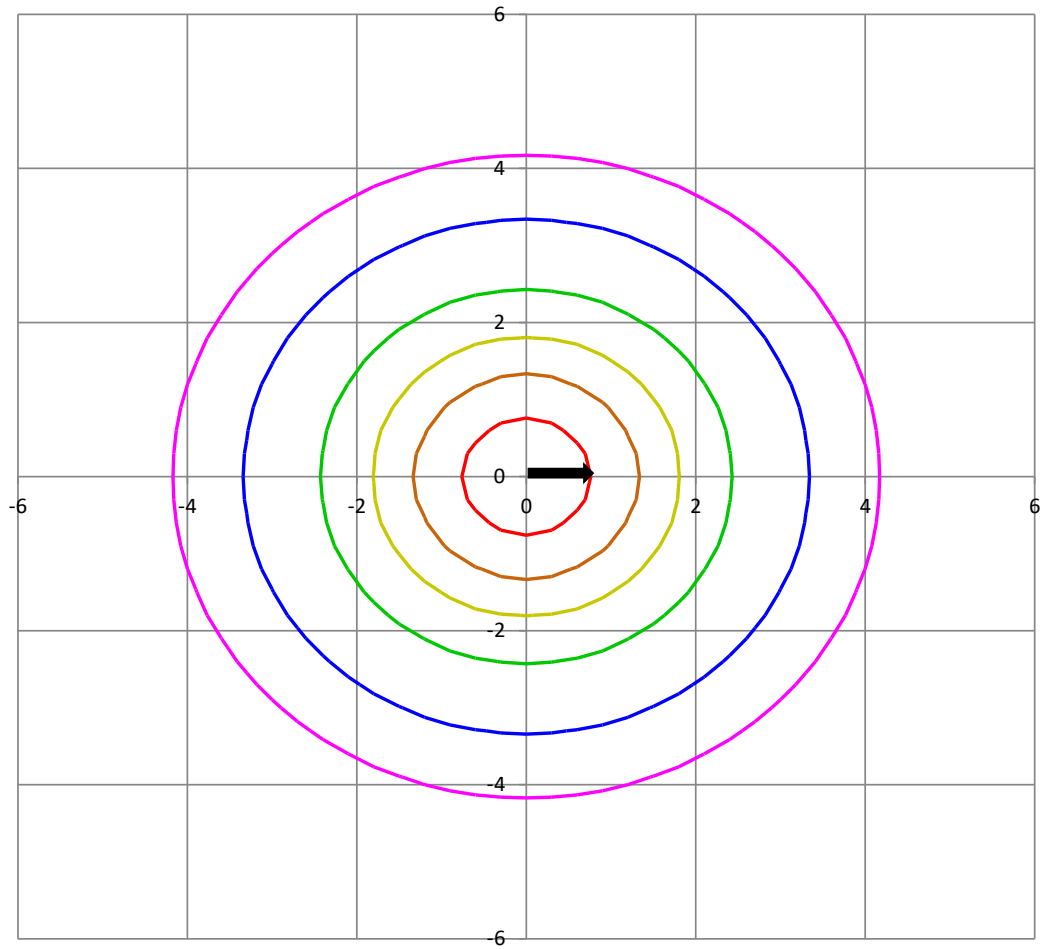
Cone of Light Tabulation

Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		2.80	5.42
6.00		1.24	8.14
8.00		0.700	10.8
10.0		0.448	13.6
12.0		0.311	16.3
14.0		0.229	19.0
16.0		0.175	21.7

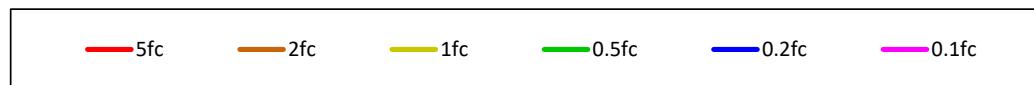


ISOFootcandle Plot

Mounting Height - 2 Feet

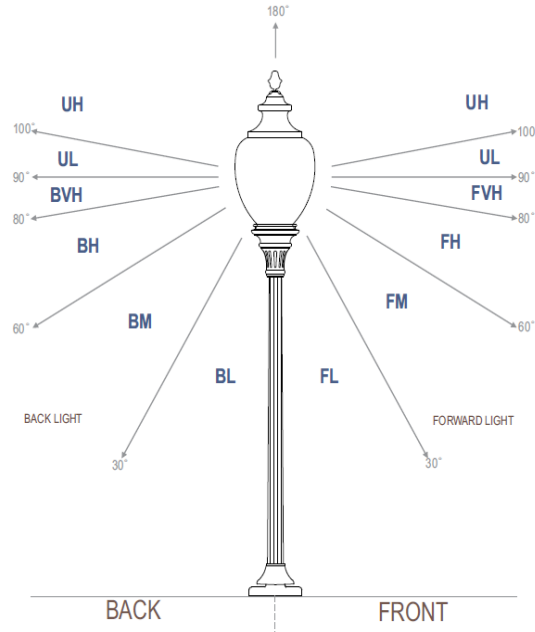


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	17.5	8.3%
FM	(30-60)	42.8	20.3%
FH	(60-80)	35.0	16.6%
FVH	(80-90)	10.2	4.9%
BL	(0-30)	17.5	8.3%
BM	(30-60)	42.8	20.3%
BH	(60-80)	35.0	16.6%
BVH	(80-90)	10.2	4.9%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		211.1	100.0%
BUG Rating	B0 U0 G1		