



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
LWL2-4-M-30 (4W, 25° OPTIC, 3000K)

Order Number
13551695
Test Number
13551695.20

Test Date

2021-08-02

Prepared By

Kevin Rodriguez, Project Handler

Approved By

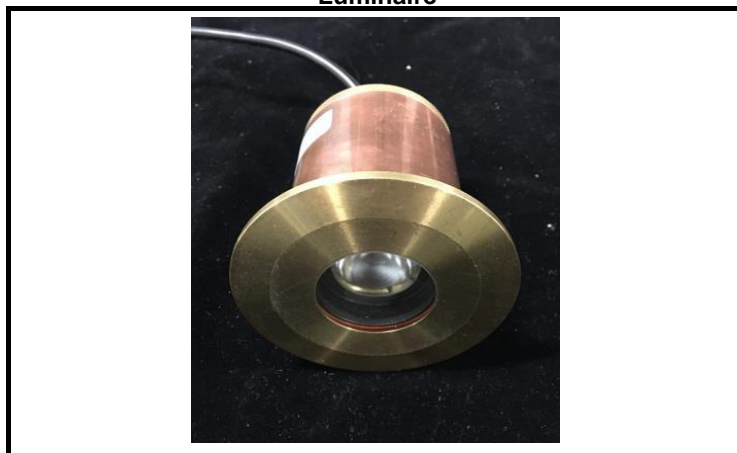
Alexa Lambert, Project Handler

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Luminaire Description: Cylindrical brass housing with circular brass faceplate and clear lens
Lamp: One (1) XHP35 3000K Cree LED
Mounting: Ground recessed
Ballast/Driver: Integrated
Note: Report extrapolated using data from Test Numbers 13551695.21, 13551695.11, and 13551695.10

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.25 in.

Summary of Results

Roadway Classification:	Type V, Very Long
Cutoff Classification:	Noncutoff
BUG Rating:	B0 U3 G0

Test Conditions

Test Temperature:	24.8 °C
Voltage:	12.04 VAC
Current:	0.3736 A
Power:	4.483 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	4.58 %

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

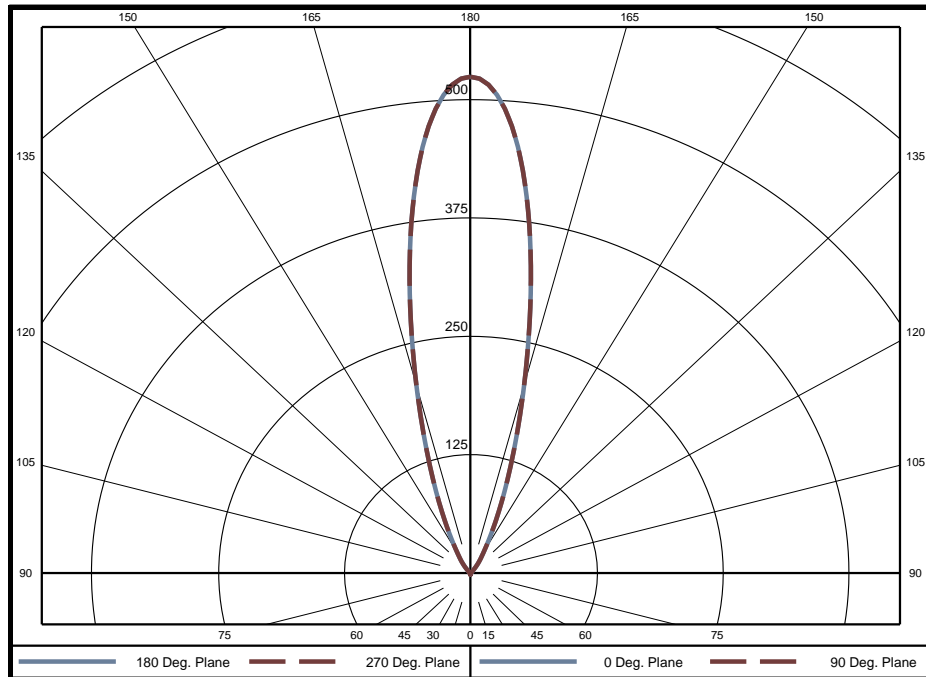
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	12.04 VAC	0.3736 A	4.483 W	0.996	60 Hz	4.58 %

Summary of Results

Total Lumen Output:	299.5 Lumens
Luminaire Efficacy:	66.8 lm/w
Maximum Candela:	1113 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	1.35	0.5%
5-10	0	0.0%	65-70	0	0.0%	125-130	1.67	0.6%
10-15	0	0.0%	70-75	0	0.0%	130-135	2.16	0.7%
15-20	0	0.0%	75-80	0	0.0%	135-140	3.58	1.2%
20-25	0	0.0%	80-85	0	0.0%	140-145	7.96	2.7%
25-30	0	0.0%	85-90	0	0.0%	145-150	13.27	4.4%
30-35	0	0.0%	90-95	0.04	0.0%	150-155	21.86	7.3%
35-40	0	0.0%	95-100	0.14	0.0%	155-160	36.22	12.1%
40-45	0	0.0%	100-105	0.31	0.1%	160-165	53.80	18.0%
45-50	0	0.0%	105-110	0.52	0.2%	165-170	67.82	22.6%
50-55	0	0.0%	110-115	0.75	0.3%	170-175	61.71	20.6%
55-60	0	0.0%	115-120	1.04	0.3%	175-180	25.32	8.5%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	300	100.0%



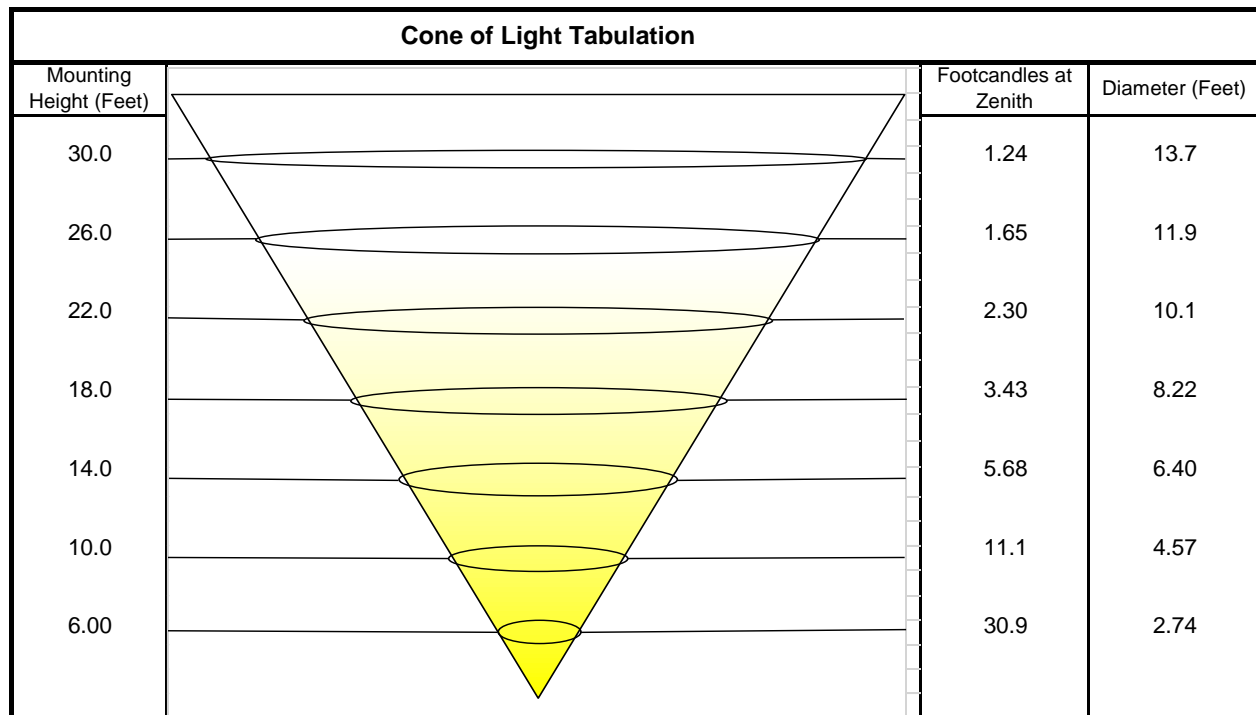
Candela Tabulation
Horizontal Angle (Degrees)

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	115	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	120	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	125	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	130	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	135	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	140	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	145	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
	150	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	155	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122
	160	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238
	165	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440
	170	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732
	175	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006
	180	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113



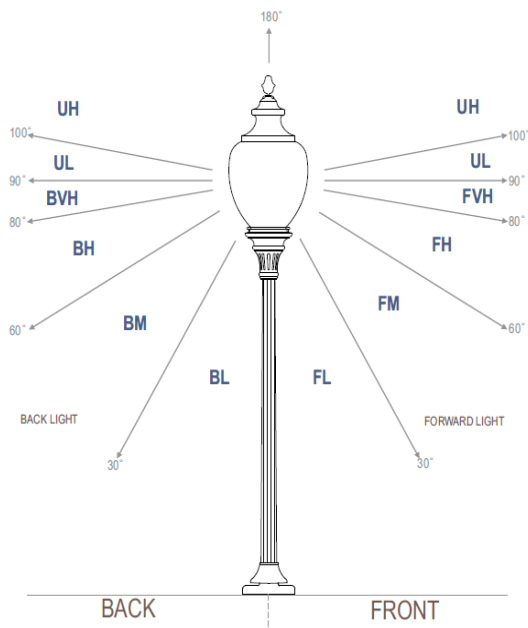
Utilization of Lumens - Zonal Cavity Method

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	285	285	285	285	244	244	244	244	166	166	166	96	96	96	31	31	31	0
1	259	247	237	227	221	212	203	195	145	140	135	83	81	79	27	26	25	0
2	236	216	199	185	201	185	171	160	127	118	111	73	69	65	23	22	21	0
3	215	189	169	153	183	162	146	133	111	101	93	64	59	55	21	19	18	0
4	196	167	145	129	167	143	125	112	98	87	79	57	51	47	18	17	15	0
5	179	147	125	109	152	127	108	95	87	76	67	51	44	40	16	15	13	0
6	164	131	109	93	140	113	94	81	78	66	57	45	39	34	15	13	11	0
7	151	117	96	80	128	101	83	70	70	58	50	41	34	30	13	11	10	0
8	139	106	84	70	119	91	73	61	63	51	43	37	30	26	12	10	9	0
9	129	96	75	61	110	82	65	53	57	46	38	33	27	23	11	9	7	0
10	120	87	67	54	102	75	58	47	52	41	33	30	24	20	10	8	7	0





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	0.0	0.0%
FM	(30-60)	0.0	0.0%
FH	(60-80)	0.0	0.0%
FVH	(80-90)	0.0	0.0%
BL	(0-30)	0.0	0.0%
BM	(30-60)	0.0	0.0%
BH	(60-80)	0.0	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	0.1	0.1%
UH	(100-180)	141.2	99.9%
Total		141.3	100.0%
BUG Rating	B0 U3 G0		