



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

Photometric Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Auroralight Inc
2742 Loker Ave. West
Carlsbad, CA 92010

Catalog Number
LBD250-C8-SL-12-30-25 (STACKED LOUVERS, 3000K)
Order Number
11263738
Test Number
1254208

Test Date

2016-07-27

Prepared By

Tony Rubio, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Conical 8" copper shade with stacked louvers and cylindrical 25" copper stem with brass base
Lamp: Six (6) Cree XPL-L 3000K LEDs
Mounting: Path/Area
Ballast/Driver: L.T.F. DL112W480C24LP6?-0000

Luminaire



Luminaire Characteristics

Luminous Diameter: 8.00 in.
Luminous Height: 1.500 in.

Summary of Results

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

Test Conditions

Test Temperature: 24.6 °C
Voltage: 12.04 VAC
Current: 1.882 A
Power: 13.24 W
Power Factor: 0.584
Frequency: 60 Hz
Current THD: 79.0 %

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	12.04 VAC	1.882 A	13.24 W	0.584	60 Hz	79.0 %

Summary of Results

Spacing Criteria

0-180: 1.88
90-270: 1.88

Total Lumen Output:

232.0 Lumens

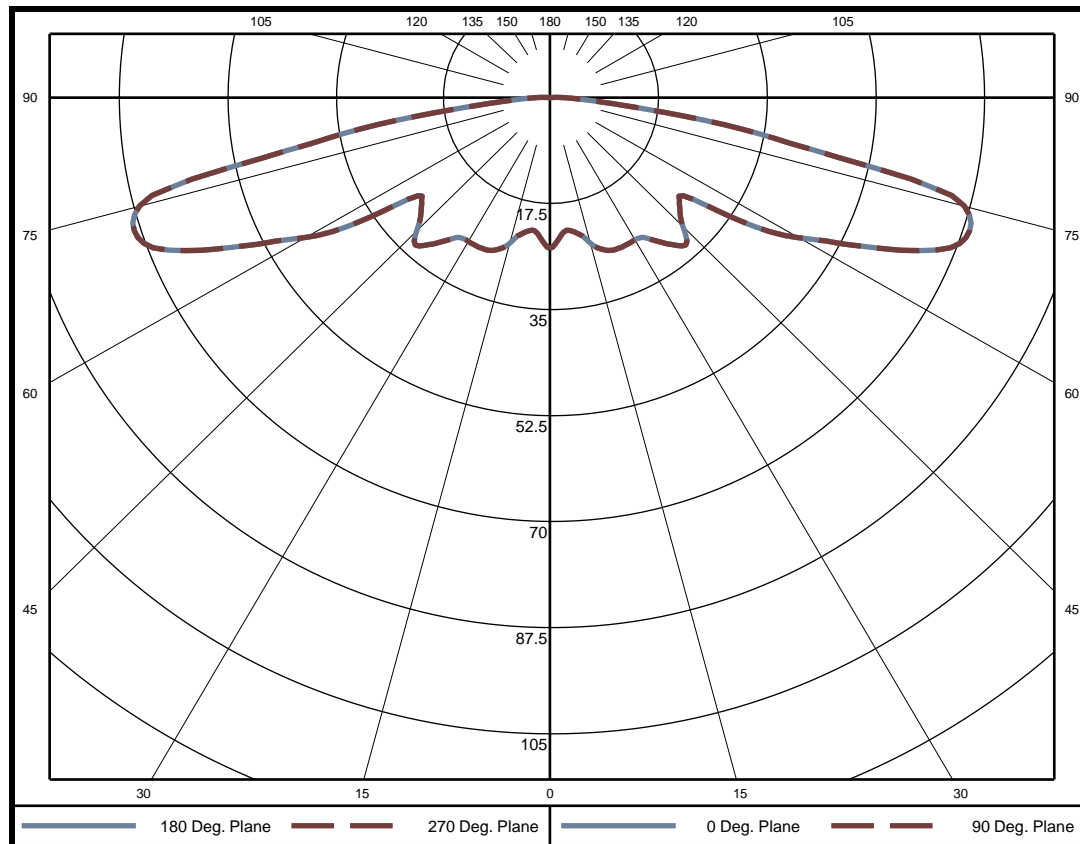
Luminaire Efficacy:

17.5 lm/w

Maximum Candela:

71 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.56	0.2%	60-65	25.34	10.9%	120-125	0	0.0%
5-10	1.59	0.7%	65-70	33.19	14.3%	125-130	0	0.0%
10-15	2.79	1.2%	70-75	36.91	15.9%	130-135	0	0.0%
15-20	4.29	1.8%	75-80	28.36	12.2%	135-140	0	0.0%
20-25	5.69	2.5%	80-85	10.78	4.6%	140-145	0	0.0%
25-30	6.89	3.0%	85-90	2.70	1.2%	145-150	0	0.0%
30-35	8.13	3.5%	90-95	0.80	0.3%	150-155	0	0.0%
35-40	10.10	4.4%	95-100	0.10	0.0%	155-160	0	0.0%
40-45	11.86	5.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	11.55	5.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	12.02	5.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	18.40	7.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	40	17.3%
0-60	94	40.5%
0-90	231	99.6%
90-180	1	0.4%



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	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85
	5	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56	22.56
	10	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49	22.49
	15	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77
	20	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83	26.83
	25	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28	27.28
	30	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15	27.15
	35	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62
	40	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85
	45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45	30.45
	50	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23	27.23
	55	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51	31.51
	60	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23	46.23
	65	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91	58.91
	70	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32	70.32
	75	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15	69.15
	80	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21	34.21
	85	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69	8.69
	90	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	95	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
	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	766	766
	45	1746	1746
	55	1690	1690
	65	2898	2898
	75	3239	3239
	85	404	404



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	276	276	276	276	269	269	269	269	257	257	257	246	246	246	236	236	236	231
1	237	219	203	189	229	213	199	185	202	190	179	192	182	173	183	175	168	162
2	204	175	152	132	197	170	149	130	161	142	126	153	137	123	145	131	120	113
3	179	145	118	97	172	140	116	95	132	111	93	125	107	91	118	103	89	82
4	160	123	95	74	154	119	93	74	112	90	72	106	87	71	100	83	69	63
5	145	106	79	59	139	103	78	59	98	75	58	92	72	57	87	70	56	50
6	132	94	68	49	127	91	67	49	86	64	48	82	62	47	78	60	46	41
7	122	84	59	42	117	81	58	41	77	56	41	73	54	40	70	53	39	34
8	113	75	52	36	109	74	51	36	70	50	35	67	48	35	64	47	34	29
9	105	69	46	31	101	67	46	31	64	44	31	61	43	30	59	42	30	25
10	98	63	42	28	95	62	41	28	59	40	27	57	39	27	54	38	27	22

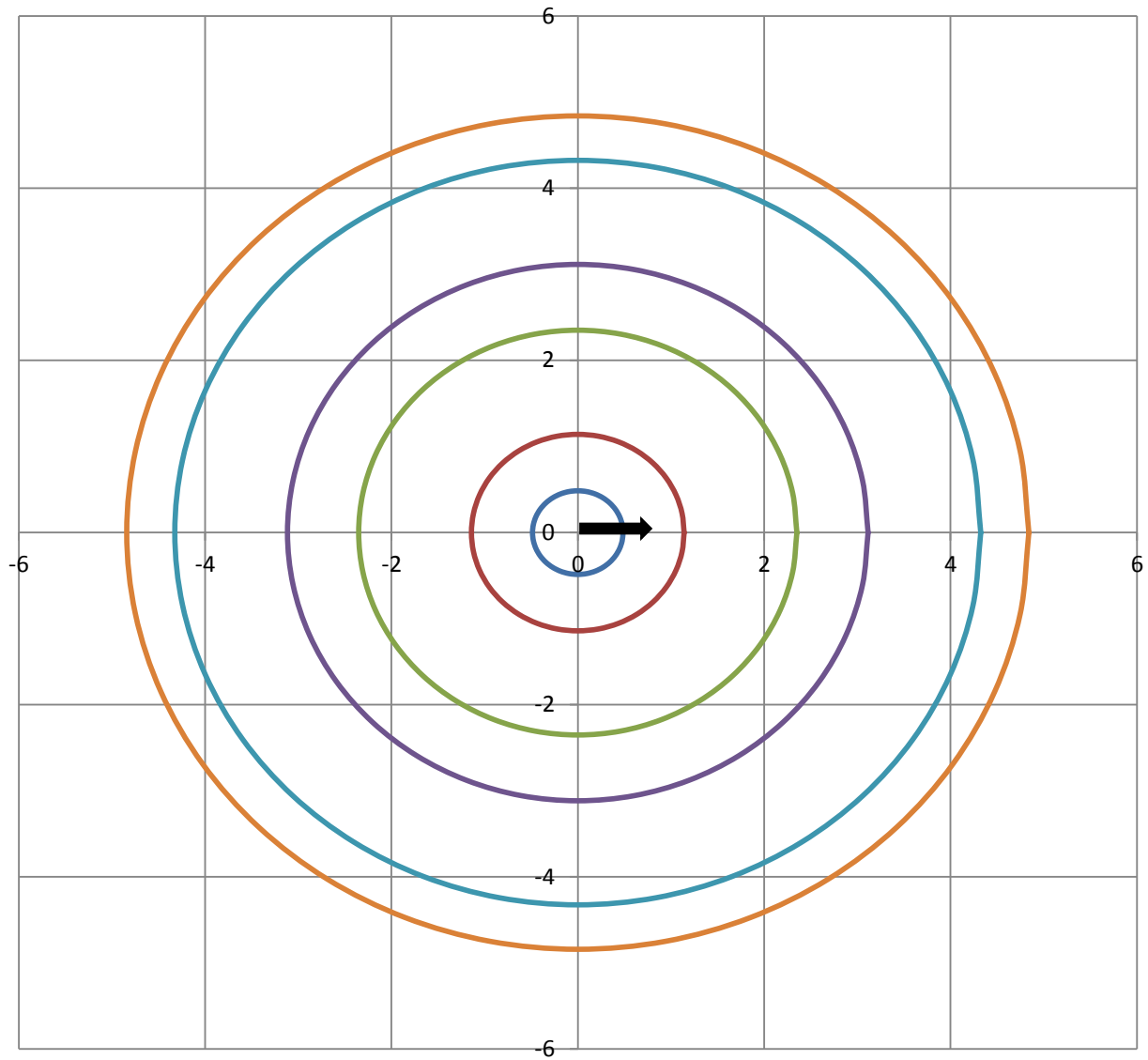
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	24.85 Candela
Central Cone Intensity:	24 Candela
Beam Flux:	227.1 Lumens
Beam Angle (0-180):	167.6 Degrees
Beam Angle (90-270):	167.6 Degrees
Field Angle (0-180):	180.0 Degrees
Field Angle (90-270):	180.0 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		1.55	7.53
6.00		0.690	11.3
8.00		0.388	15.1
10.0		0.249	18.8
12.0		0.173	22.6
14.0		0.127	26.3
16.0		0.0971	30.1



ISOFootcandle Plot

Mounting Height - 2 Feet



Grid Lines in Units of Mounting Height

5 fc 2 fc 1 fc 0.5 fc 0.2 fc 0.1 fc



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	10.9	4.7%
FM	(30-60)	36.2	15.5%
FH	(60-80)	62.4	26.7%
FVH	(80-90)	6.8	2.9%
BL	(0-30)	10.9	4.7%
BM	(30-60)	36.2	15.5%
BH	(60-80)	62.4	26.7%
BVH	(80-90)	6.8	2.9%
UL	(90-100)	0.9	0.4%
UH	(100-180)	0.0	0.0%
Total		233.6	100.0%
BUG Rating	B0 U1 G0		