



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
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## Photometric Test Report

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

Prepared For  
**Auroralight Inc**  
2742 Locker Avenue West  
Carlsba, CA 92010  
United States

Catalog Number  
**LML250-C8-30**  
Order Number  
12571021  
Test Number  
12571021.01

Test Date  
2018-10-26

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:** Conical 8" copper shade with stacked louvers and frosted glass lens 8W  
**Lamp:** One White Cree XHP50 3000K LED  
**Lamp Catalog Number:** HD230G/510  
**Mounting:** Pendant  
**Ballast/Driver:** Integrated

### Luminaire



### Luminaire Characteristics

Luminous Diameter: 8.00 in.  
Luminous Height: 2.000 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: 12.01 VAC  
Current: 0.5188 A  
Power: 6.166 W  
Power Factor: 0.989  
Frequency: 60 Hz  
Current THD: 7.79 %

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

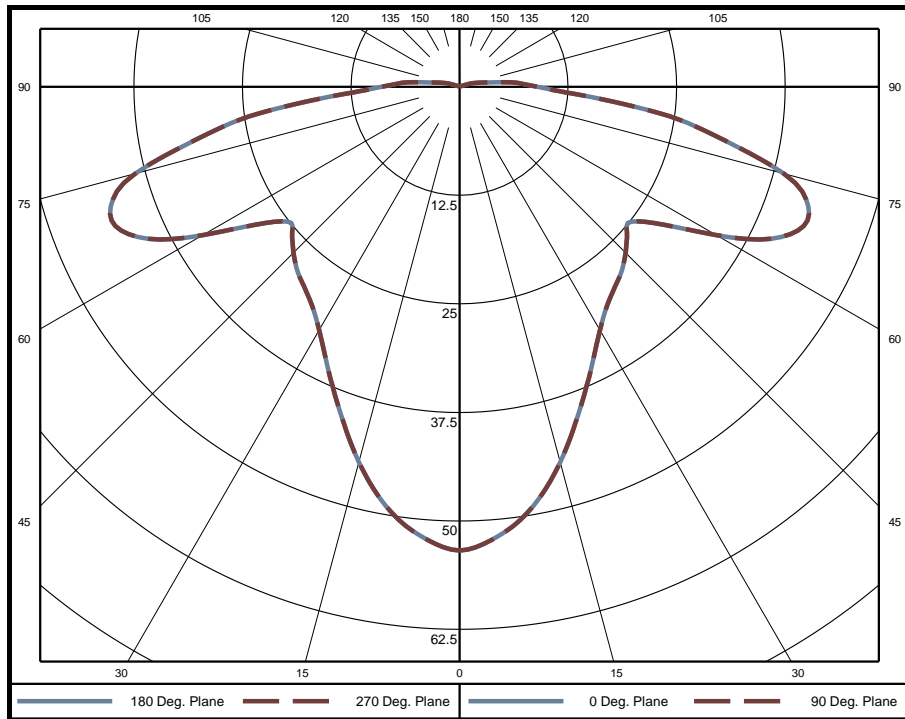
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	12.01 VAC	0.5188 A	6.166 W	0.989	60 Hz	7.79 %

### Summary of Results

**Spacing Criteria**  
 0-180: 0.93  
 90-270: 0.93

**Total Lumen Output:** 205.2 Lumens  
**Luminaire Efficacy:** 33.3 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	0.6%	60-65	18.43	9.0%	120-125	0	0.0%
5-10	3.61	1.8%	65-70	21.44	10.4%	125-130	0	0.0%
10-15	5.56	2.7%	70-75	21.61	10.5%	130-135	0	0.0%
15-20	6.97	3.4%	75-80	17.89	8.7%	135-140	0	0.0%
20-25	7.94	3.9%	80-85	12.39	6.0%	140-145	0	0.0%
25-30	8.60	4.2%	85-90	6.52	3.2%	145-150	0	0.0%
30-35	9.15	4.5%	90-95	4.03	2.0%	150-155	0	0.0%
35-40	9.77	4.8%	95-100	2.18	1.1%	155-160	0	0.0%
40-45	10.32	5.0%	100-105	1.14	0.6%	160-165	0	0.0%
45-50	10.54	5.1%	105-110	0.50	0.2%	165-170	0	0.0%
50-55	11.19	5.5%	110-115	0.08	0.0%	170-175	0	0.0%
55-60	14.11	6.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	53	25.8%
0-60	99	48.3%
0-90	197	96.2%
90-180	8	3.9%



**Candela Tabulation**  
Horizontal 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	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40	53.40
5	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90
10	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00
15	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77	44.77
20	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05	40.05
25	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84	35.84
30	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34	32.34
35	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03	30.03
40	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63
45	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05	27.05
50	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08
55	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37	27.37
60	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18	34.18
65	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92
70	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83
75	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67
80	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38	28.38
85	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40
90	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92
95	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86	5.86
100	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78
105	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
110	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

	0	45	90
0	1647	1647	1647
45	1180	1180	1180
55	1471	1471	1471
65	2986	2986	2986
75	4607	4607	4607
85	5803	5803	5803

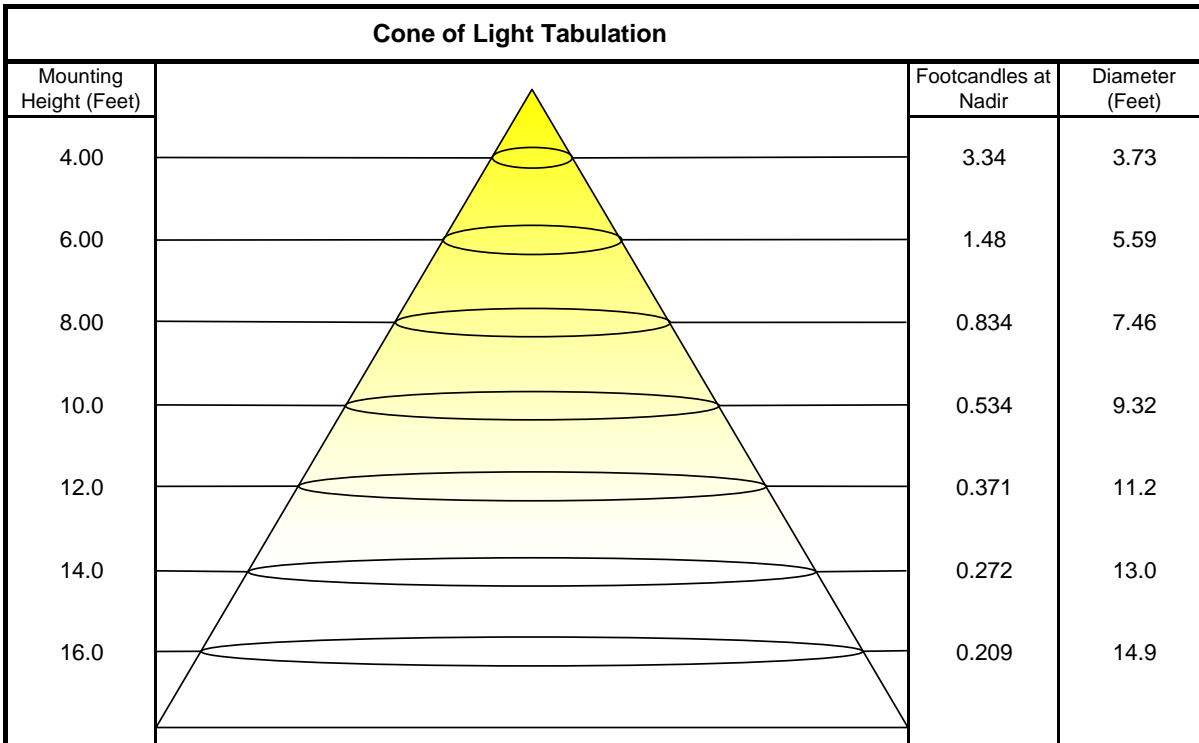


### Coefficients of Utilization - Zonal Cavity Method

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 percent of total lumen output delivered to the task surface **																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	98	98	98	96
1	102	95	88	83	99	92	86	81	87	82	77	82	78	74	78	74	71	69
2	90	79	69	61	87	76	68	60	72	64	58	68	62	56	64	59	54	51
3	80	67	56	48	77	65	55	47	61	52	46	57	50	44	54	48	43	40
4	73	58	47	39	70	56	46	38	53	44	37	50	42	36	47	41	35	32
5	66	51	40	32	64	50	40	32	47	38	31	44	37	30	42	35	30	27
6	61	46	35	28	59	44	35	27	42	33	27	40	32	26	38	31	26	23
7	56	41	31	24	54	40	31	24	38	30	24	36	29	23	34	28	23	20
8	53	37	28	22	51	37	28	21	35	27	21	33	26	20	32	25	20	18
9	49	34	25	19	47	34	25	19	32	24	19	31	24	18	29	23	18	16
10	46	32	23	17	45	31	23	17	30	22	17	29	22	17	27	21	16	15

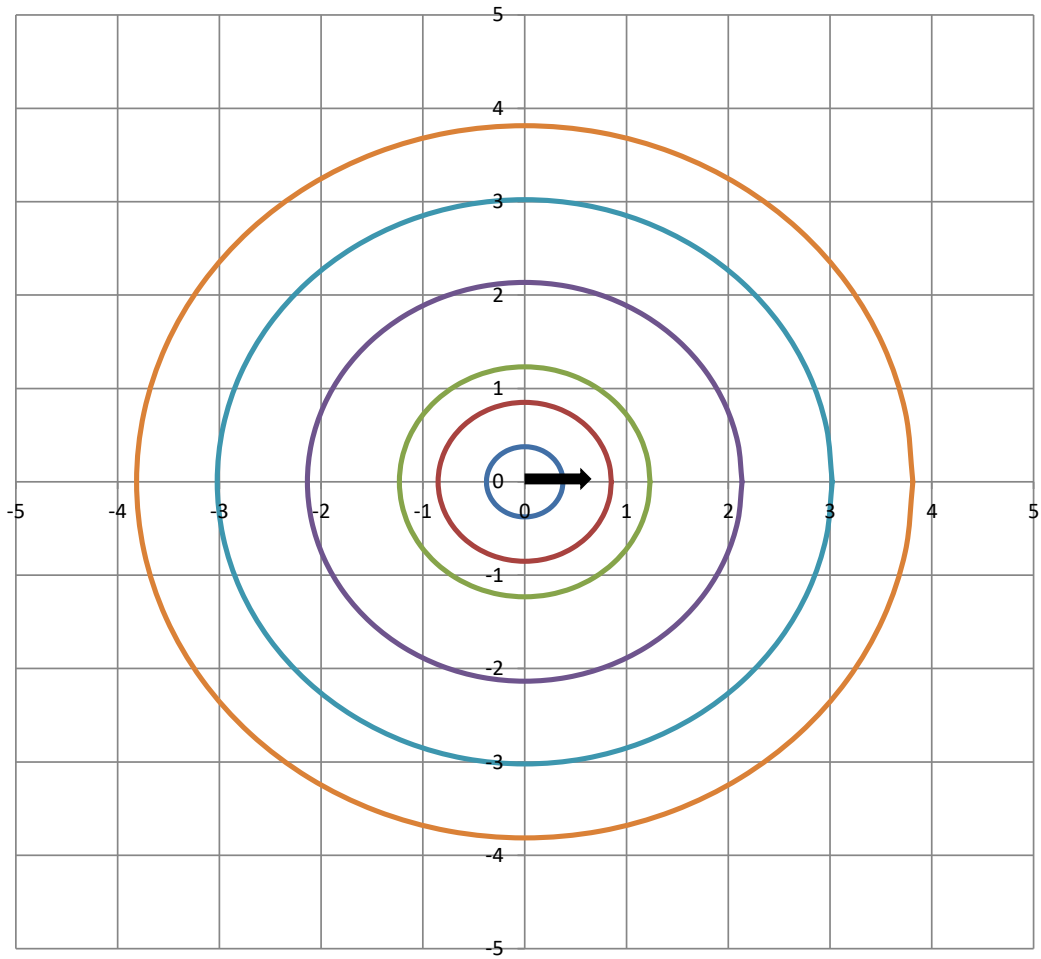
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	53.40 Candela
Central Cone Intensity:	53 Candela
Beam Flux:	163.3 Lumens
Beam Angle (0-180):	161.9 Degrees
Beam Angle (90-270):	161.9 Degrees
Field Angle (0-180):	191.2 Degrees
Field Angle (90-270):	191.2 Degrees



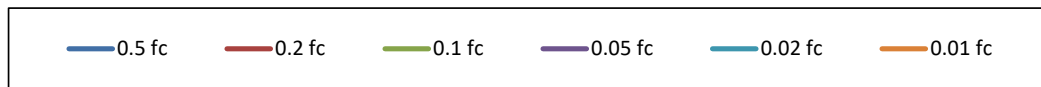


# ISOFootcandle Plot

Mounting Height - 8 Feet

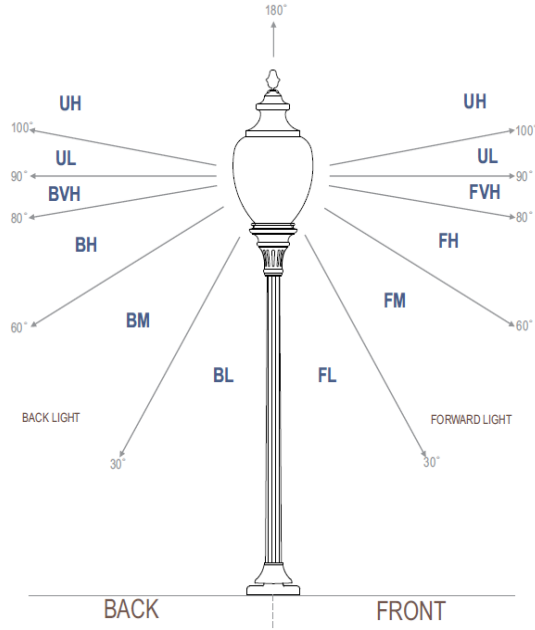


Grid Lines in Units of Mounting Height





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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	17.0	8.3%
FM	(30-60)	32.6	15.9%
FH	(60-80)	39.6	19.3%
FVH	(80-90)	9.5	4.6%
BL	(0-30)	17.0	8.3%
BM	(30-60)	32.6	15.9%
BH	(60-80)	39.6	19.3%
BVH	(80-90)	9.5	4.6%
UL	(90-100)	6.2	3.0%
UH	(100-180)	1.7	0.8%
Total		205.1	100.0%
<b>BUG Rating</b>	<b>B0 U1 G0</b>		