



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-12L-LL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8606R_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]05/02/17
[TEST DATE]02/23/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB11-LED-12L-LL-50
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13776
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14109	14148	13987
55	14152	14243	14114
65	13879	14135	10369
75	12404	4778	2002
85	8882	3397	3291

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	4398.508	4398.508	4398.508	4398.508	4398.508
2.5	4397.457	4430.054	4415.332	4396.405	4387.993
5.0	4399.560	4432.157	4416.384	4395.354	4385.890
7.5	4396.405	4431.105	4414.281	4393.251	4380.632
10.0	4386.941	4422.693	4404.817	4382.735	4369.066
12.5	4370.117	4405.869	4386.941	4363.808	4350.138
15.0	4345.932	4384.838	4364.859	4339.623	4324.902
17.5	4317.541	4355.396	4336.468	4308.077	4294.408
20.0	4276.532	4318.593	4298.614	4269.171	4255.501
22.5	4232.368	4270.223	4253.398	4221.853	4208.183
25.0	4177.689	4217.647	4198.719	4167.174	4153.504
27.5	4111.443	4153.504	4136.680	4103.031	4091.464
30.0	4039.940	4083.052	4066.228	4028.373	4015.755
32.5	3957.921	3998.931	3982.106	3944.251	3931.633
35.0	3866.439	3905.345	3889.572	3847.512	3839.099
37.5	3765.493	3803.348	3787.575	3746.566	3733.947
40.0	3652.980	3689.784	3669.805	3633.002	3622.486
42.5	3532.056	3567.807	3546.777	3508.922	3501.562
45.0	3401.667	3433.213	3411.131	3379.585	3372.225
47.5	3261.815	3290.206	3268.124	3239.733	3234.475
50.0	3106.190	3133.530	3119.860	3093.572	3087.263
52.5	2946.359	2967.389	2952.668	2931.638	2931.638
55.0	2767.601	2798.095	2785.476	2767.601	2760.240
57.5	2589.894	2621.439	2611.976	2596.203	2587.791
60.0	2402.723	2435.320	2429.011	2409.032	2365.920
62.5	2205.037	2238.686	2237.635	2119.864	1890.633
65.0	1999.991	2035.743	2036.794	1674.020	1494.210
67.5	1785.481	1820.181	1815.975	1250.257	950.574
70.0	1557.301	1587.795	1380.646	670.870	460.566
72.5	1321.761	1360.667	967.398	355.414	203.995
75.0	1094.632	1135.642	421.660	169.295	176.655
77.5	863.298	908.513	174.552	166.140	171.398
80.0	648.788	550.996	135.646	154.573	160.883
82.5	445.844	191.377	126.182	135.646	136.698
85.0	263.932	88.328	100.946	99.894	97.791
87.5	117.770	63.091	56.782	56.782	57.834
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1652.35	N.A.	12.00
0-30	3584.17	N.A.	26.00
0-40	6008.55	N.A.	43.60
0-60	11115.00	N.A.	80.70
0-80	13632.61	N.A.	99.00
0-90	13775.57	N.A.	100.00
10-90	13355.06	N.A.	96.90
20-40	4356.2	N.A.	31.60
20-50	6980.37	N.A.	50.70
40-70	6931.64	N.A.	50.30
60-80	2517.61	N.A.	18.30
70-80	692.42	N.A.	5.00
80-90	142.96	N.A.	1.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13775.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	420.50
10-20	1231.84
20-30	1931.82
30-40	2424.38
40-50	2624.17
50-60	2482.29
60-70	1825.19
70-80	692.42
80-90	142.96
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

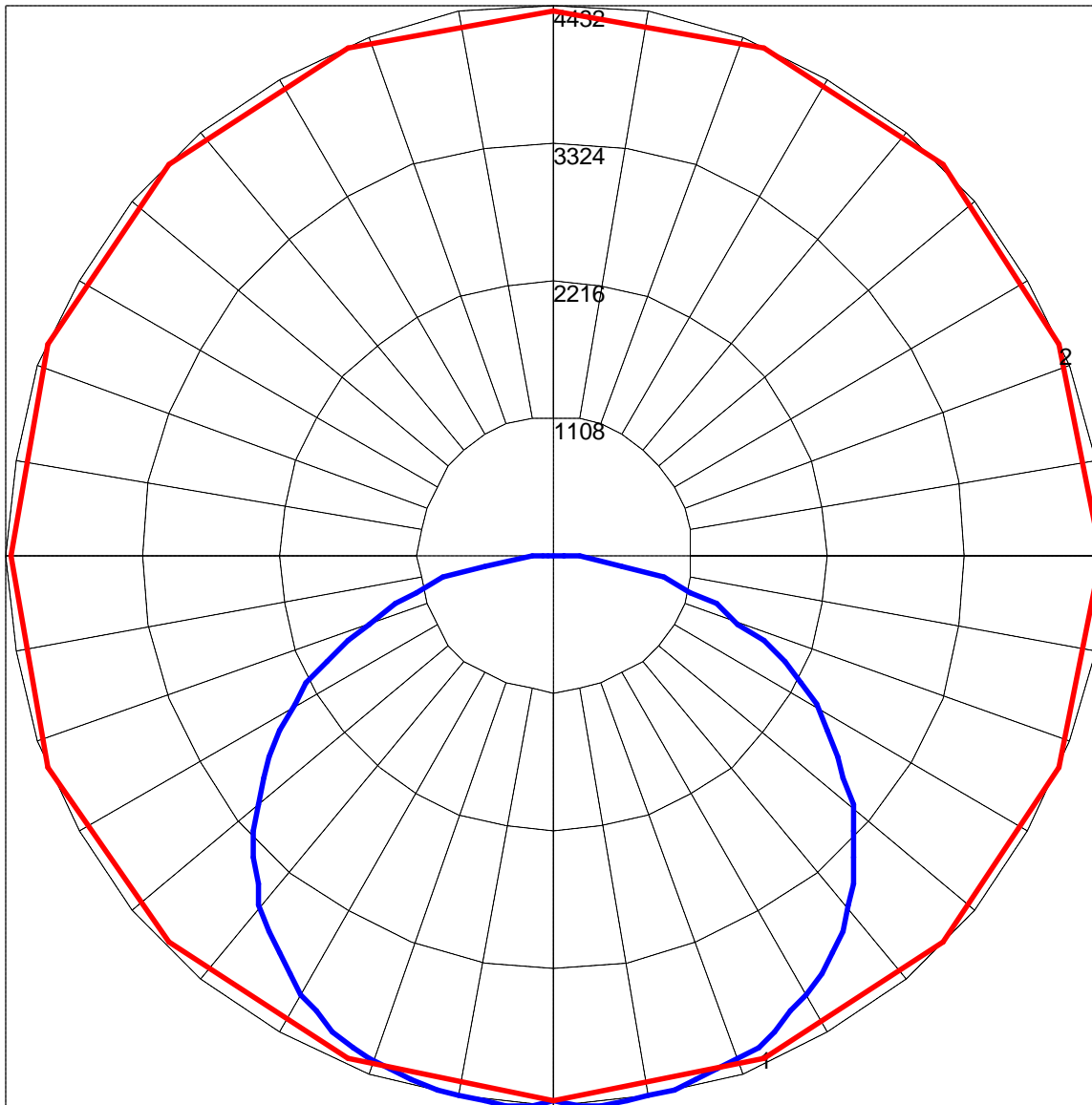
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 4432.157 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)