



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-12L-AL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8609R_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-AL-40
[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	12340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.52
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	12976	13797	12135
55	12631	12052	9159
65	11617	7840	4275
75	8843	3067	1662
85	4405	1258	861

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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	3975.885	3975.885	3975.885	3975.885	3975.885
2.5	3968.996	4006.393	3999.504	3986.711	3975.885
5.0	3982.774	4030.997	4041.822	4045.759	4041.822
7.5	4005.409	4067.409	4112.679	4137.283	4138.267
10.0	4031.981	4120.552	4197.315	4232.743	4240.616
12.5	4058.552	4176.648	4289.823	4334.109	4349.855
15.0	4077.251	4238.648	4387.252	4438.426	4451.220
17.5	4068.394	4278.013	4481.728	4530.935	4543.728
20.0	4036.901	4300.648	4561.443	4606.713	4586.046
22.5	3983.758	4297.696	4619.506	4629.348	4581.125
25.0	3908.964	4275.061	4634.268	4600.808	4501.411
27.5	3813.504	4232.743	4598.840	4507.316	4355.759
30.0	3708.202	4169.759	4522.077	4349.855	4164.838
32.5	3606.837	4096.933	4393.156	4145.156	3936.520
35.0	3518.265	4033.949	4224.870	3897.155	3692.456
37.5	3427.725	3964.076	4018.203	3641.281	3466.106
40.0	3331.280	3879.441	3806.615	3408.042	3278.137
42.5	3242.708	3774.139	3568.455	3203.343	3101.978
45.0	3128.549	3650.138	3326.359	3004.549	2925.819
47.5	2993.724	3486.773	3083.279	2803.786	2738.834
50.0	2834.294	3289.947	2844.136	2601.056	2508.547
52.5	2659.119	3061.629	2605.976	2331.404	2164.102
55.0	2470.166	2800.834	2356.991	1988.927	1791.117
57.5	2286.134	2494.770	2108.007	1618.894	1426.004
60.0	2100.133	2200.515	1809.815	1273.464	1118.956
62.5	1888.546	1919.054	1466.354	981.178	858.161
65.0	1674.005	1645.465	1129.781	735.145	616.065
67.5	1450.608	1381.719	842.415	517.652	416.287
70.0	1237.051	1116.988	597.367	349.366	283.429
72.5	1011.686	860.130	406.446	238.159	198.794
75.0	780.415	611.145	270.636	170.254	146.635
77.5	568.827	397.589	182.064	121.048	105.302
80.0	389.715	244.064	123.016	81.683	71.841
82.5	234.223	145.651	72.826	50.191	45.270
85.0	130.889	78.730	37.397	28.540	25.587
87.5	59.048	32.476	16.730	13.778	14.762
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	1618.92	N.A.	13.10
0-30	3651.27	N.A.	29.60
0-40	6113.95	N.A.	49.50
0-60	10676.87	N.A.	86.50
0-80	12266.81	N.A.	99.40
0-90	12339.62	N.A.	100.00
10-90	11950.13	N.A.	96.80
20-40	4495.03	N.A.	36.40
20-50	6997.79	N.A.	56.70
40-70	5730.79	N.A.	46.40
60-80	1589.94	N.A.	12.90
70-80	422.07	N.A.	3.40
80-90	72.81	N.A.	0.60
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	12339.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	389.49
10-20	1229.43
20-30	2032.36
30-40	2462.67
40-50	2502.76
50-60	2060.16
60-70	1167.87
70-80	422.07
80-90	72.81
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

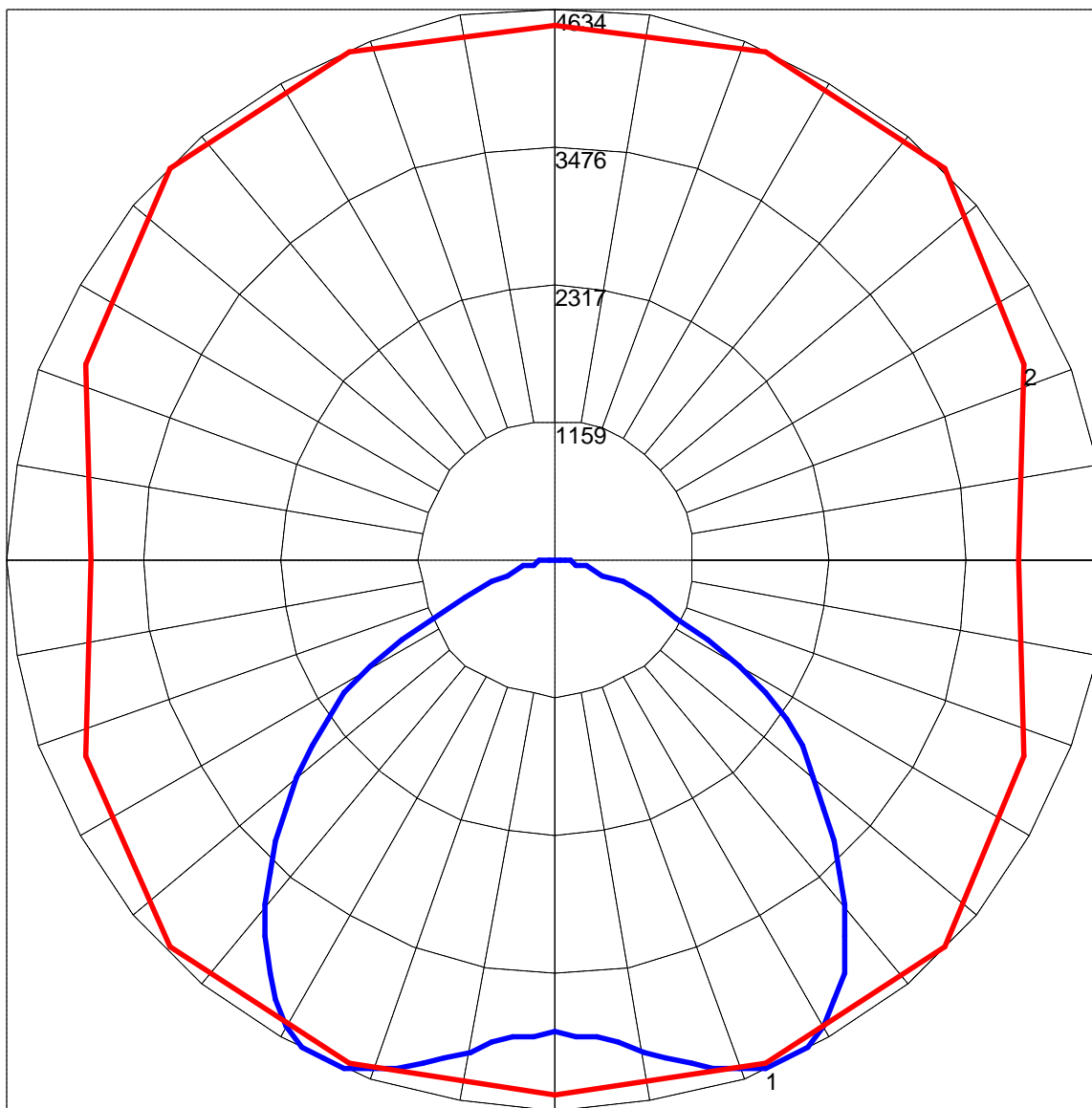
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 4634.268 Located At Horizontal Angle = 45, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)