



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD11-LED-24L-S-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8707R\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]05/02/17  
[TEST DATE]03/17/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LHBXD\_LHB11-LED-24L-S-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	22112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	152
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.48
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	23176	23176	22904
55	22507	22563	22181
65	20507	19976	15475
75	14844	9951	6049
85	7663	4537	4108

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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	7327.521	7327.521	7327.521	7327.521	7327.521
2.5	7303.837	7385.820	7360.314	7331.164	7320.233
5.0	7316.590	7389.464	7356.671	7323.877	7311.124
7.5	7314.768	7382.177	7345.739	7305.658	7296.549
10.0	7305.658	7365.780	7331.164	7291.084	7287.440
12.5	7285.618	7338.452	7307.480	7272.865	7263.756
15.0	7249.181	7300.193	7271.043	7236.428	7223.675
17.5	7203.634	7249.181	7230.962	7181.772	7174.485
20.0	7138.047	7183.594	7172.663	7114.363	7096.145
22.5	7061.529	7105.254	7092.501	7032.379	7019.626
25.0	6975.902	7014.161	6995.942	6933.999	6923.068
27.5	6864.768	6908.493	6877.521	6822.866	6811.934
30.0	6744.526	6786.428	6755.457	6697.157	6675.295
32.5	6598.777	6644.323	6615.173	6547.765	6527.724
35.0	6436.631	6480.356	6453.028	6378.332	6363.757
37.5	6248.980	6294.526	6270.842	6197.968	6181.571
40.0	6046.753	6086.834	6059.506	5997.563	5993.919
42.5	5828.130	5866.389	5829.952	5786.227	5775.296
45.0	5587.644	5622.260	5587.644	5543.920	5522.058
47.5	5316.187	5354.446	5332.584	5272.463	5261.532
50.0	5033.799	5072.058	5048.374	4986.431	4984.609
52.5	4718.617	4769.629	4740.480	4682.180	4678.536
55.0	4401.614	4450.804	4412.545	4354.245	4337.849
57.5	4057.282	4110.116	4068.213	3991.695	3955.258
60.0	3707.485	3749.388	3703.841	3569.024	3463.356
62.5	3330.360	3381.372	3315.785	3077.121	2862.142
65.0	2955.057	2986.028	2878.539	2461.333	2229.957
67.5	2532.385	2554.248	2392.102	1867.406	1615.990
70.0	2124.289	2120.645	1845.544	1309.917	1107.691
72.5	1696.152	1703.439	1315.383	889.068	767.003
75.0	1309.917	1300.808	878.136	606.679	533.805
77.5	951.011	925.505	577.530	420.850	388.056
80.0	646.760	593.926	369.838	291.498	278.745
82.5	400.809	342.510	231.376	194.939	187.652
85.0	227.732	184.008	134.818	123.886	122.065
87.5	111.133	81.984	69.231	65.587	67.409
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	2753.33	N.A.	12.50
0-30	5969.89	N.A.	27.00
0-40	9990.4	N.A.	45.20
0-60	18200.92	N.A.	82.30
0-80	21918.79	N.A.	99.10
0-90	22112.3	N.A.	100.00
10-90	21412.04	N.A.	96.80
20-40	7237.06	N.A.	32.70
20-50	11533.31	N.A.	52.20
40-70	10892.33	N.A.	49.30
60-80	3717.88	N.A.	16.80
70-80	1036.07	N.A.	4.70
80-90	193.51	N.A.	0.90
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	22112.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	700.26
10-20	2053.08
20-30	3216.56
30-40	4020.5
40-50	4296.25
50-60	3914.27
60-70	2681.81
70-80	1036.07
80-90	193.51
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

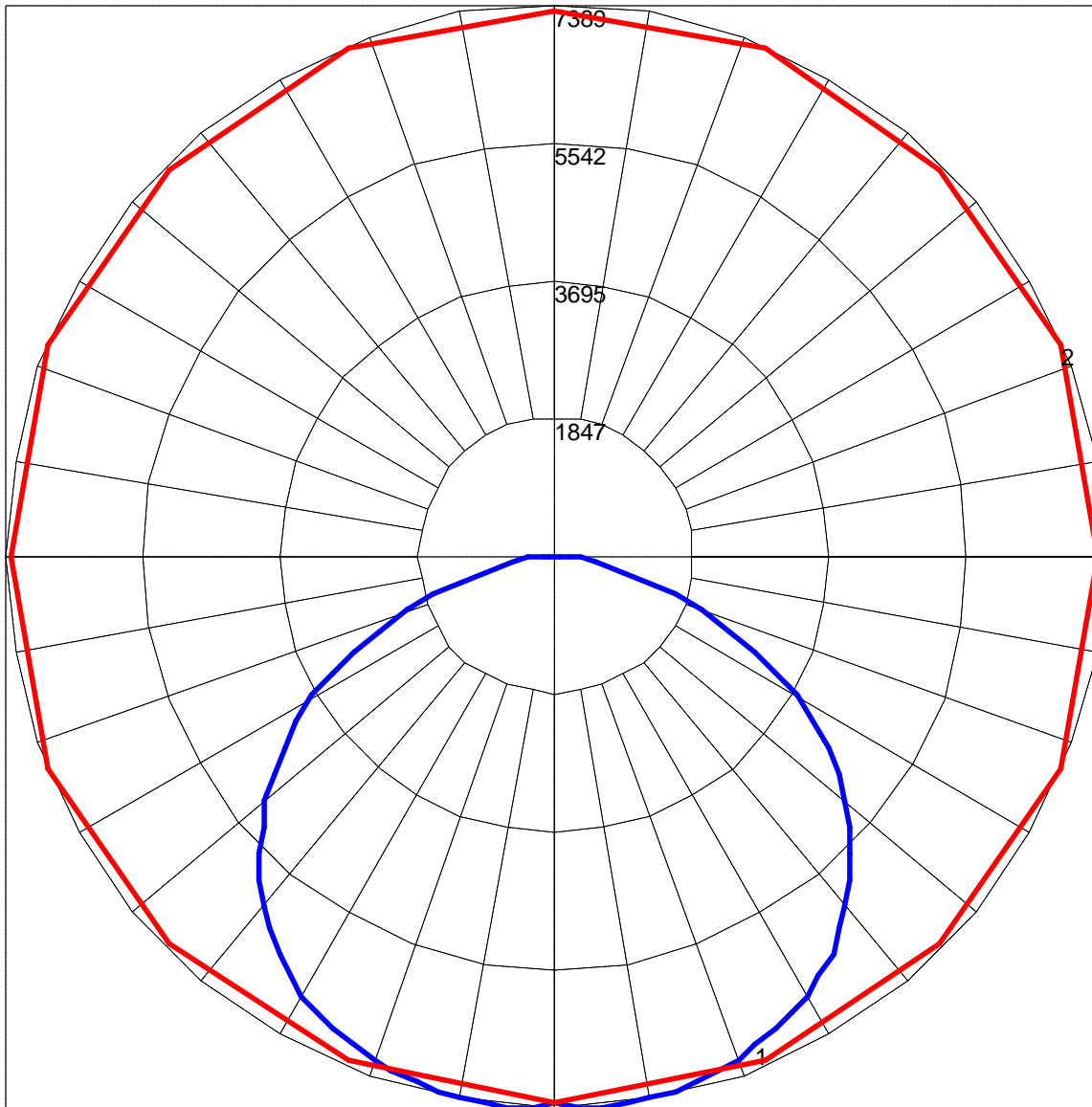
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 7389.464 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.)