



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8608R\_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-SDFL-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	12262
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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	12033	11950	11545
55	11135	11001	10539
65	10092	9910	9348
75	9032	8639	8019
85	8882	6688	5485

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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>
<b>0.0</b>	4439.602	4439.602	4439.602	4439.602	4439.602
<b>2.5</b>	4435.396	4476.406	4459.581	4438.550	4432.241
<b>5.0</b>	4435.396	4475.354	4456.427	4433.293	4424.880
<b>7.5</b>	4426.983	4465.890	4445.911	4418.571	4410.159
<b>10.0</b>	4408.056	4444.860	4422.777	4393.334	4381.767
<b>12.5</b>	4373.355	4410.159	4388.076	4353.376	4342.860
<b>15.0</b>	4328.139	4363.891	4340.757	4303.953	4289.232
<b>17.5</b>	4277.665	4309.211	4281.871	4245.067	4227.191
<b>20.0</b>	4211.418	4242.964	4210.366	4169.356	4152.532
<b>22.5</b>	4134.655	4163.047	4127.295	4083.130	4063.151
<b>25.0</b>	4044.223	4068.408	4032.656	3985.337	3964.306
<b>27.5</b>	3943.275	3963.254	3928.554	3874.925	3853.894
<b>30.0</b>	3820.245	3837.070	3810.781	3753.998	3731.916
<b>32.5</b>	3693.009	3705.627	3677.235	3622.555	3598.370
<b>35.0</b>	3547.896	3565.772	3533.174	3479.546	3456.412
<b>37.5</b>	3399.629	3415.402	3381.753	3322.866	3302.887
<b>40.0</b>	3241.898	3257.671	3219.816	3158.826	3134.641
<b>42.5</b>	3073.651	3089.425	3053.672	2987.425	2967.446
<b>45.0</b>	2901.199	2913.817	2881.220	2814.973	2783.426
<b>47.5</b>	2727.695	2736.107	2700.355	2638.314	2606.768
<b>50.0</b>	2551.036	2558.397	2522.645	2456.397	2426.954
<b>52.5</b>	2359.656	2369.120	2333.367	2274.481	2241.883
<b>55.0</b>	2177.739	2177.739	2151.451	2094.668	2061.018
<b>57.5</b>	1984.256	1994.771	1966.380	1914.854	1879.102
<b>60.0</b>	1808.649	1811.803	1781.309	1730.835	1690.876
<b>62.5</b>	1631.990	1636.196	1604.650	1557.331	1518.424
<b>65.0</b>	1454.280	1461.641	1427.991	1377.517	1347.023
<b>67.5</b>	1292.343	1293.394	1258.693	1209.271	1172.467
<b>70.0</b>	1123.045	1125.148	1082.035	1041.025	1012.633
<b>72.5</b>	951.644	957.953	920.098	885.397	859.108
<b>75.0</b>	797.067	788.655	762.367	729.769	707.686
<b>77.5</b>	642.491	640.388	611.996	575.192	557.316
<b>80.0</b>	506.842	495.275	466.884	431.131	413.255
<b>82.5</b>	375.400	359.627	329.132	292.328	272.349
<b>85.0</b>	263.937	240.803	198.741	165.092	162.989
<b>87.5</b>	159.834	124.082	88.329	78.866	74.659
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1645.51	N.A.	13.40
0-30	3497.84	N.A.	28.50
0-40	5697.35	N.A.	46.50
0-60	9815.55	N.A.	80.10
0-80	12026.53	N.A.	98.10
0-90	12261.75	N.A.	100.00
10-90	11838.21	N.A.	96.50
20-40	4051.84	N.A.	33.00
20-50	6259.87	N.A.	51.10
40-70	5523.97	N.A.	45.10
60-80	2210.97	N.A.	18.00
70-80	805.20	N.A.	6.60
80-90	235.22	N.A.	1.90
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	12261.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	423.54
10-20	1221.98
20-30	1852.33
30-40	2199.51
40-50	2208.03
50-60	1910.17
60-70	1405.77
70-80	805.20
80-90	235.22
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

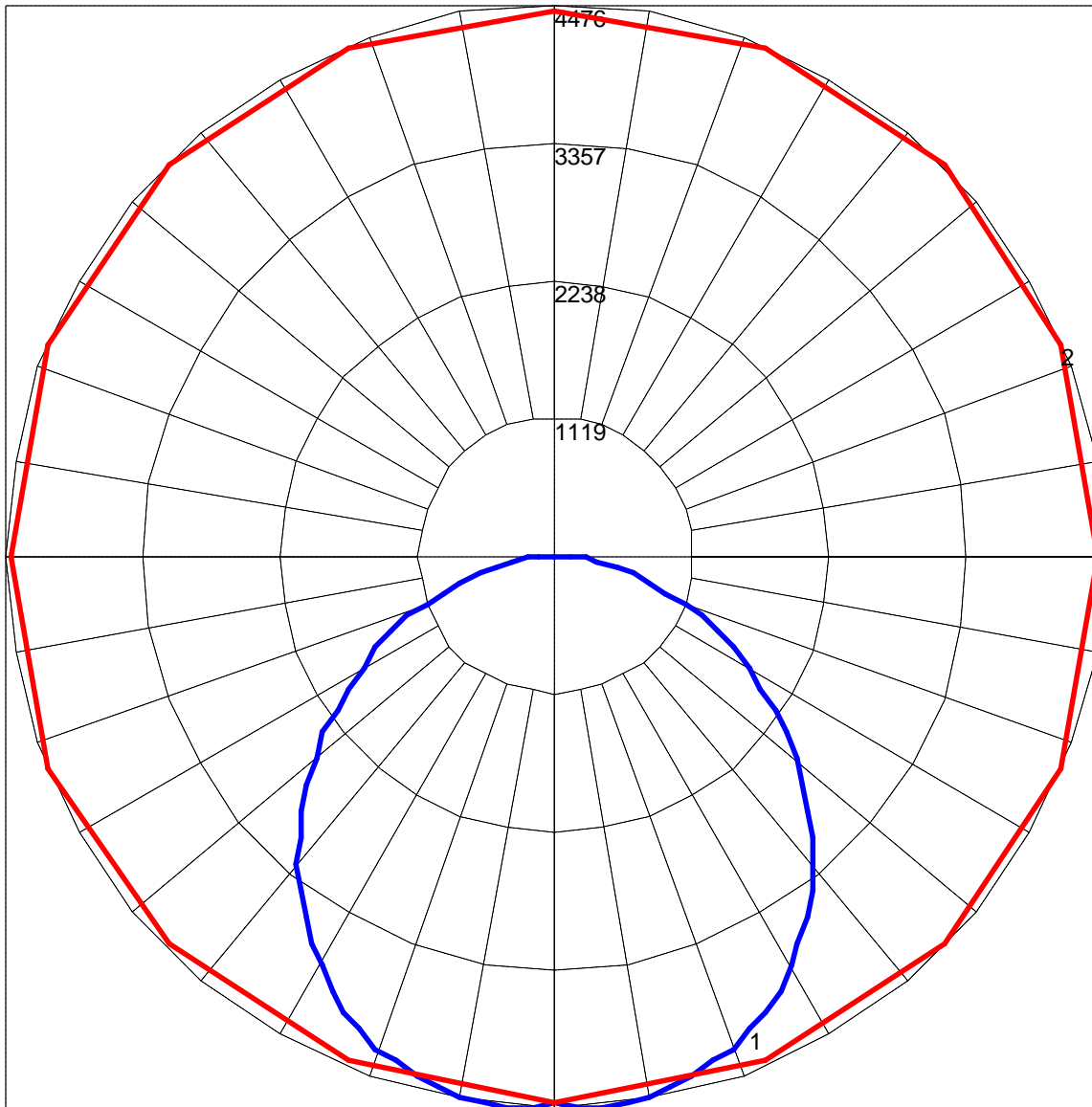
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 4476.406 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)