



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD11-LED-12L-SDFL-40.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-40  
[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	11476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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	11262	11184	10805
55	10422	10296	9863
65	9445	9275	8749
75	8453	8085	7505
85	8312	6259	5133

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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	4155.039	4155.039	4155.039	4155.039	4155.039
2.5	4151.102	4189.484	4173.738	4154.055	4148.150
5.0	4151.102	4188.500	4170.785	4149.134	4141.261
7.5	4143.229	4179.642	4160.944	4135.356	4127.483
10.0	4125.515	4159.960	4139.293	4111.737	4100.911
12.5	4093.038	4127.483	4106.816	4074.340	4064.498
15.0	4050.720	4084.181	4062.530	4028.085	4014.307
17.5	4003.481	4033.006	4007.418	3972.973	3956.243
20.0	3941.481	3971.005	3940.496	3902.115	3886.369
22.5	3869.638	3896.210	3862.749	3821.416	3802.717
25.0	3785.002	3807.638	3774.177	3729.891	3710.208
27.5	3690.525	3709.224	3676.747	3626.556	3606.873
30.0	3575.381	3591.127	3566.523	3513.380	3492.713
32.5	3456.300	3468.109	3441.538	3390.362	3367.727
35.0	3320.488	3337.219	3306.710	3256.519	3234.868
37.5	3181.725	3196.487	3164.994	3109.882	3091.184
40.0	3034.104	3048.866	3013.437	2956.356	2933.721
42.5	2876.641	2891.403	2857.942	2795.942	2777.243
45.0	2715.242	2727.052	2696.544	2634.543	2605.019
47.5	2552.859	2560.732	2527.271	2469.207	2439.683
50.0	2387.524	2394.413	2360.952	2298.951	2271.395
52.5	2208.410	2217.267	2183.807	2128.695	2098.186
55.0	2038.154	2038.154	2013.550	1960.407	1928.914
57.5	1857.072	1866.914	1840.342	1792.119	1758.658
60.0	1692.721	1695.673	1667.133	1619.894	1582.497
62.5	1527.385	1531.322	1501.798	1457.511	1421.098
65.0	1361.066	1367.955	1336.462	1289.223	1260.683
67.5	1209.508	1210.492	1178.016	1131.761	1097.316
70.0	1051.061	1053.030	1012.680	974.299	947.727
72.5	890.647	896.552	861.122	828.646	804.042
75.0	745.978	738.105	713.501	682.993	662.326
77.5	601.310	599.341	572.769	538.325	521.594
80.0	474.355	463.530	436.958	403.497	386.767
82.5	351.338	336.576	308.036	273.591	254.892
85.0	247.019	225.368	186.002	154.510	152.542
87.5	149.589	116.129	82.668	73.810	69.874
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	1540.04	N.A.	13.40
0-30	3273.64	N.A.	28.50
0-40	5332.17	N.A.	46.50
0-60	9186.41	N.A.	80.10
0-80	11255.67	N.A.	98.10
0-90	11475.81	N.A.	100.00
10-90	11079.42	N.A.	96.50
20-40	3792.13	N.A.	33.00
20-50	5858.63	N.A.	51.10
40-70	5169.91	N.A.	45.10
60-80	2069.26	N.A.	18.00
70-80	753.59	N.A.	6.60
80-90	220.14	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	11475.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	396.39
10-20	1143.65
20-30	1733.6
30-40	2058.53
40-50	2066.5
50-60	1787.74
60-70	1315.66
70-80	753.59
80-90	220.14
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

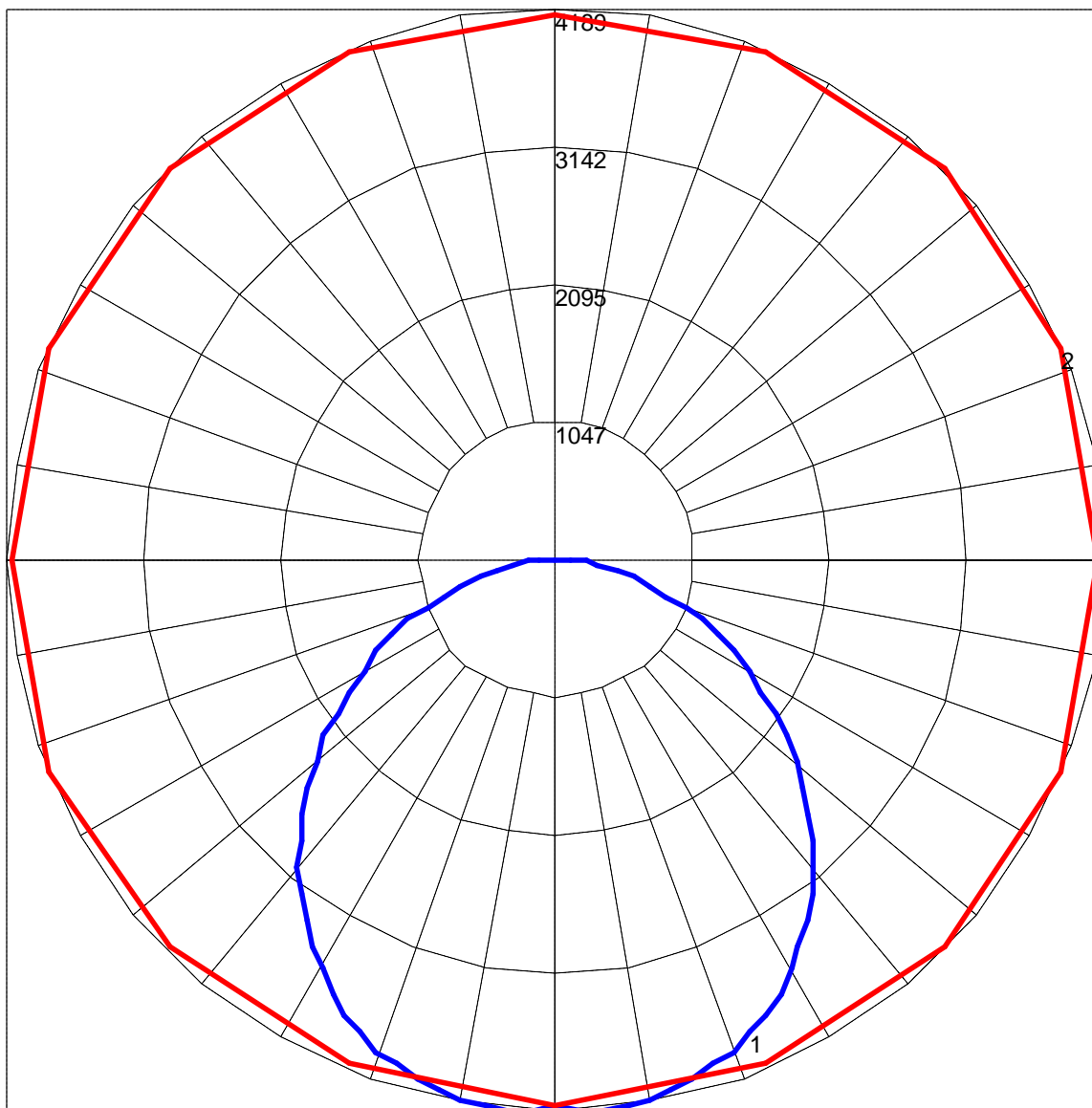
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4189.484 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.)