



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-24L-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-24L-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	20906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	152
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	20516	20375	19683
55	18985	18756	17968
65	17207	16896	15938
75	15399	14729	13672
85	15143	11402	9351

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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	7569.286	7569.286	7569.286	7569.286	7569.286
2.5	7562.115	7632.035	7603.350	7567.493	7556.736
5.0	7562.115	7630.242	7597.971	7558.529	7544.186
7.5	7547.772	7614.106	7580.043	7533.430	7519.087
10.0	7515.501	7578.250	7540.601	7490.402	7470.681
12.5	7456.338	7519.087	7481.438	7422.275	7404.347
15.0	7379.247	7440.203	7400.761	7338.012	7312.913
17.5	7293.192	7346.976	7300.363	7237.614	7207.136
20.0	7180.244	7234.029	7178.451	7108.531	7079.846
22.5	7049.368	7097.774	7036.818	6961.520	6927.456
25.0	6895.186	6936.420	6875.465	6794.788	6758.931
27.5	6723.075	6757.138	6697.975	6606.542	6570.685
30.0	6513.315	6542.000	6497.180	6400.367	6362.718
32.5	6296.384	6317.898	6269.491	6176.265	6135.030
35.0	6048.975	6079.453	6023.875	5932.441	5892.999
37.5	5796.187	5823.079	5765.709	5665.311	5631.248
40.0	5527.264	5554.156	5489.615	5385.631	5344.396
42.5	5240.413	5267.305	5206.349	5093.402	5059.338
45.0	4946.390	4967.904	4912.327	4799.379	4745.594
47.5	4650.575	4664.918	4603.962	4498.185	4444.401
50.0	4349.381	4361.931	4300.975	4188.027	4137.829
52.5	4023.088	4039.223	3978.268	3877.870	3822.292
55.0	3712.930	3712.930	3668.110	3571.297	3513.927
57.5	3383.051	3400.979	3352.573	3264.725	3203.769
60.0	3083.650	3089.029	3037.037	2950.982	2882.855
62.5	2782.457	2789.628	2735.843	2655.166	2588.832
65.0	2479.470	2492.020	2434.650	2348.594	2296.602
67.5	2203.376	2205.169	2146.006	2061.743	1998.994
70.0	1914.732	1918.317	1844.812	1774.892	1726.486
72.5	1622.502	1633.259	1568.717	1509.554	1464.734
75.0	1358.958	1344.615	1299.794	1244.217	1206.568
77.5	1095.413	1091.827	1043.421	980.673	950.195
80.0	864.139	844.418	796.012	735.056	704.578
82.5	640.037	613.144	561.153	498.404	464.340
85.0	449.998	410.556	338.843	281.473	277.887
87.5	272.509	211.553	150.597	134.461	127.290
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	2805.51	N.A.	13.40
0-30	5963.63	N.A.	28.50
0-40	9713.68	N.A.	46.50
0-60	16735.00	N.A.	80.10
0-80	20504.59	N.A.	98.10
0-90	20905.63	N.A.	100.00
10-90	20183.52	N.A.	96.50
20-40	6908.17	N.A.	33.00
20-50	10672.74	N.A.	51.10
40-70	9418.08	N.A.	45.10
60-80	3769.59	N.A.	18.00
70-80	1372.83	N.A.	6.60
80-90	401.04	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	20905.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	722.11
10-20	2083.41
20-30	3158.12
30-40	3750.05
40-50	3764.58
50-60	3256.74
60-70	2396.76
70-80	1372.83
80-90	401.04
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

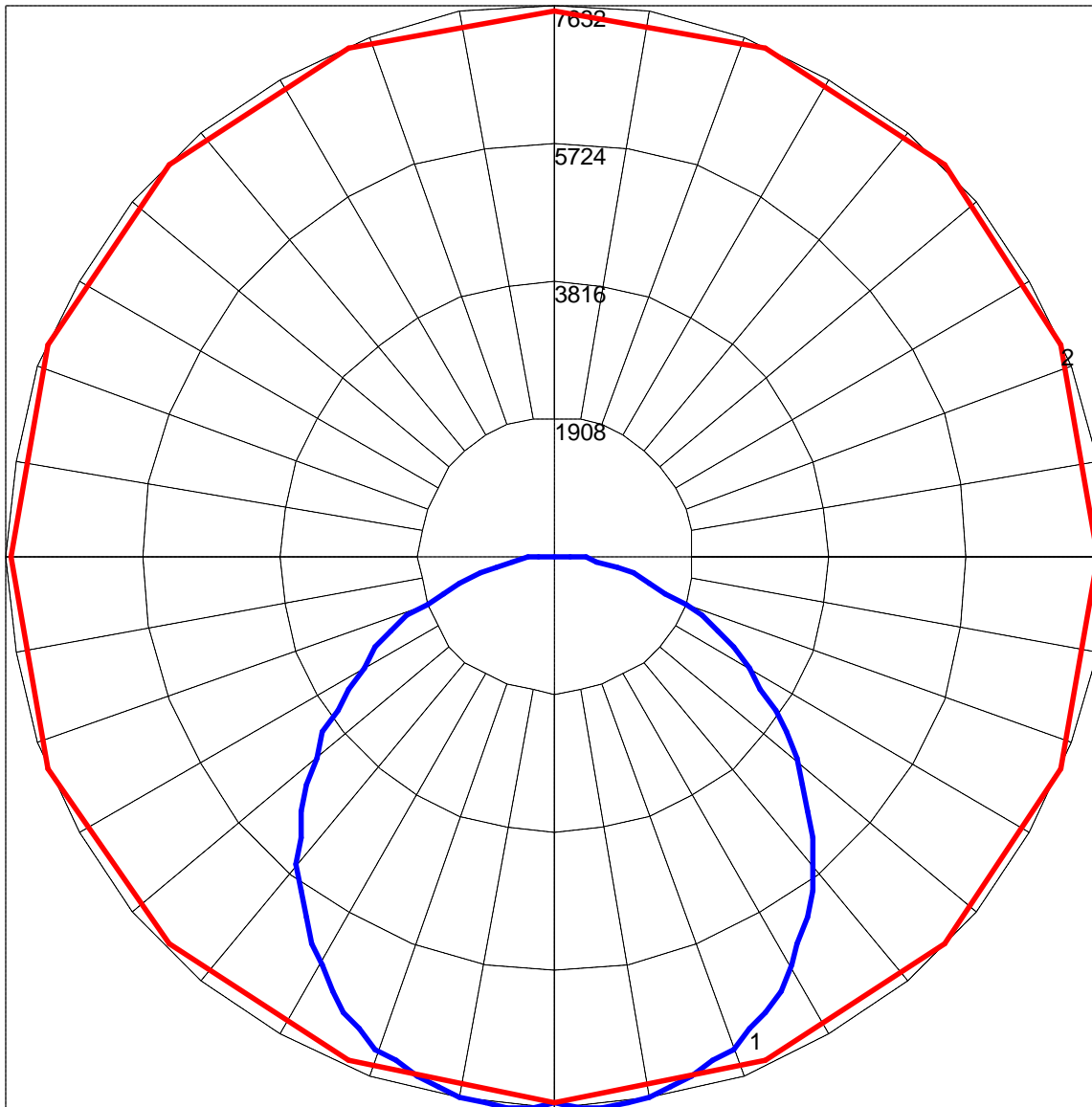
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 7632.035 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.)