



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-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-18L-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	18406
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	131
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	19292	19292	19065
55	18735	18781	18463
65	17070	16628	12882
75	12356	8283	5035
85	6379	3776	3419

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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	6099.444	6099.444	6099.444	6099.444	6099.444
2.5	6079.729	6147.972	6126.741	6102.477	6093.377
5.0	6090.344	6151.005	6123.708	6096.410	6085.795
7.5	6088.828	6144.939	6114.609	6081.245	6073.663
10.0	6081.245	6131.290	6102.477	6069.113	6066.080
12.5	6064.564	6108.543	6082.762	6053.948	6046.365
15.0	6034.233	6076.696	6052.431	6023.618	6013.002
17.5	5996.320	6034.233	6019.068	5978.122	5972.056
20.0	5941.725	5979.638	5970.539	5922.011	5906.845
22.5	5878.032	5914.428	5903.812	5853.767	5843.152
25.0	5806.755	5838.602	5823.437	5771.875	5762.776
27.5	5714.247	5750.644	5724.863	5679.367	5670.268
30.0	5614.157	5649.037	5623.256	5574.728	5556.529
32.5	5492.836	5530.749	5506.484	5450.373	5433.691
35.0	5357.865	5394.262	5371.514	5309.337	5297.204
37.5	5201.664	5239.577	5219.862	5159.201	5145.552
40.0	5033.330	5066.693	5043.946	4992.384	4989.351
42.5	4851.348	4883.194	4852.864	4816.468	4807.368
45.0	4651.167	4679.981	4651.167	4614.770	4596.572
47.5	4425.205	4457.052	4438.854	4388.809	4379.710
50.0	4190.145	4221.992	4202.277	4150.715	4149.199
52.5	3927.787	3970.249	3945.985	3897.456	3894.423
55.0	3663.912	3704.858	3673.011	3624.483	3610.834
57.5	3377.290	3421.269	3386.389	3322.695	3292.365
60.0	3086.118	3120.998	3083.085	2970.863	2882.905
62.5	2772.199	2814.661	2760.066	2561.402	2382.453
65.0	2459.795	2485.576	2396.102	2048.819	1856.221
67.5	2107.963	2126.161	1991.191	1554.433	1345.153
70.0	1768.262	1765.229	1536.235	1090.378	922.044
72.5	1411.880	1417.946	1094.927	740.062	638.455
75.0	1090.378	1082.795	730.963	505.001	444.340
77.5	791.623	770.392	480.737	350.316	323.019
80.0	538.365	494.386	307.854	242.643	232.028
82.5	333.634	285.106	192.598	162.268	156.202
85.0	189.565	153.169	112.222	103.123	101.607
87.5	92.508	68.243	57.628	54.595	56.111
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	2291.88	N.A.	12.50
0-30	4969.35	N.A.	27.00
0-40	8316.03	N.A.	45.20
0-60	15150.48	N.A.	82.30
0-80	18245.25	N.A.	99.10
0-90	18406.32	N.A.	100.00
10-90	17823.43	N.A.	96.80
20-40	6024.15	N.A.	32.70
20-50	9600.35	N.A.	52.20
40-70	9066.79	N.A.	49.30
60-80	3094.77	N.A.	16.80
70-80	862.43	N.A.	4.70
80-90	161.08	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	18406.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	582.90
10-20	1708.98
20-30	2677.47
30-40	3346.68
40-50	3576.2
50-60	3258.25
60-70	2232.34
70-80	862.43
80-90	161.08
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

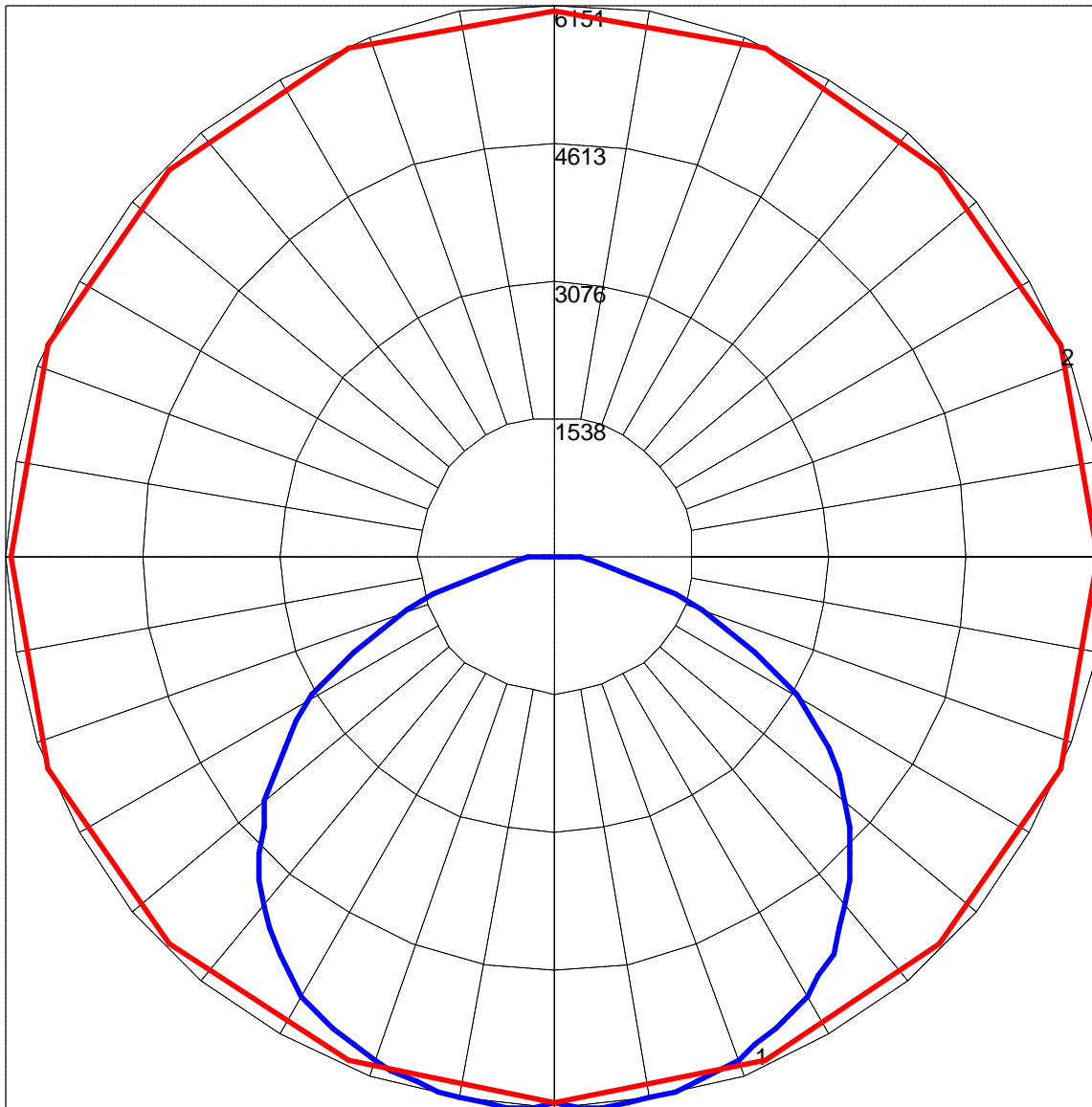
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6151.005 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.)