



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-S-40.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-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	17225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	18054	18054	17842
55	17533	17576	17279
65	15975	15561	12055
75	11563	7752	4712
85	5970	3534	3200

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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	5708.062	5708.062	5708.062	5708.062	5708.062
2.5	5689.613	5753.477	5733.608	5710.901	5702.386
5.0	5699.547	5756.316	5730.770	5705.224	5695.290
7.5	5698.128	5750.639	5722.255	5691.032	5683.936
10.0	5691.032	5737.866	5710.901	5679.678	5676.840
12.5	5675.421	5716.578	5692.451	5665.486	5658.390
15.0	5647.036	5686.774	5664.067	5637.102	5627.167
17.5	5611.556	5647.036	5632.844	5594.526	5588.849
20.0	5560.465	5595.945	5587.430	5542.015	5527.823
22.5	5500.858	5534.919	5524.984	5478.150	5468.216
25.0	5434.155	5463.958	5449.766	5401.513	5392.998
27.5	5347.583	5381.644	5357.518	5314.941	5306.426
30.0	5253.915	5286.557	5262.431	5217.016	5199.985
32.5	5140.378	5175.859	5153.151	5100.641	5085.029
35.0	5014.069	5048.130	5026.842	4968.654	4957.300
37.5	4867.890	4903.370	4884.921	4828.152	4815.379
40.0	4710.358	4741.580	4720.292	4672.039	4669.201
42.5	4540.053	4569.856	4541.472	4507.411	4498.896
45.0	4352.717	4379.682	4352.717	4318.656	4301.625
47.5	4141.255	4171.058	4154.028	4107.194	4098.678
50.0	3921.277	3951.081	3932.631	3884.378	3882.958
52.5	3675.754	3715.492	3692.784	3647.370	3644.531
55.0	3428.811	3467.130	3437.327	3391.912	3379.139
57.5	3160.581	3201.738	3169.096	3109.489	3081.105
60.0	2888.092	2920.734	2885.254	2780.232	2697.918
62.5	2594.316	2634.054	2582.962	2397.046	2229.579
65.0	2301.959	2326.085	2242.352	1917.353	1737.113
67.5	1972.702	1989.732	1863.423	1454.690	1258.839
70.0	1654.799	1651.960	1437.660	1020.412	862.880
72.5	1321.284	1326.961	1024.670	692.574	597.487
75.0	1020.412	1013.316	684.059	472.597	415.829
77.5	740.828	720.959	449.890	327.838	302.292
80.0	503.820	462.662	288.100	227.074	217.139
82.5	312.226	266.811	180.240	151.855	146.179
85.0	177.401	143.340	105.022	96.506	95.087
87.5	86.572	63.864	53.930	51.092	52.511
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	2144.82	N.A.	12.50
0-30	4650.48	N.A.	27.00
0-40	7782.41	N.A.	45.20
0-60	14178.32	N.A.	82.30
0-80	17074.51	N.A.	99.10
0-90	17225.25	N.A.	100.00
10-90	16679.76	N.A.	96.80
20-40	5637.6	N.A.	32.70
20-50	8984.33	N.A.	52.20
40-70	8485.01	N.A.	49.30
60-80	2896.19	N.A.	16.80
70-80	807.09	N.A.	4.70
80-90	150.74	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	17225.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	545.49
10-20	1599.32
20-30	2505.67
30-40	3131.93
40-50	3346.73
50-60	3049.18
60-70	2089.1
70-80	807.09
80-90	150.74
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

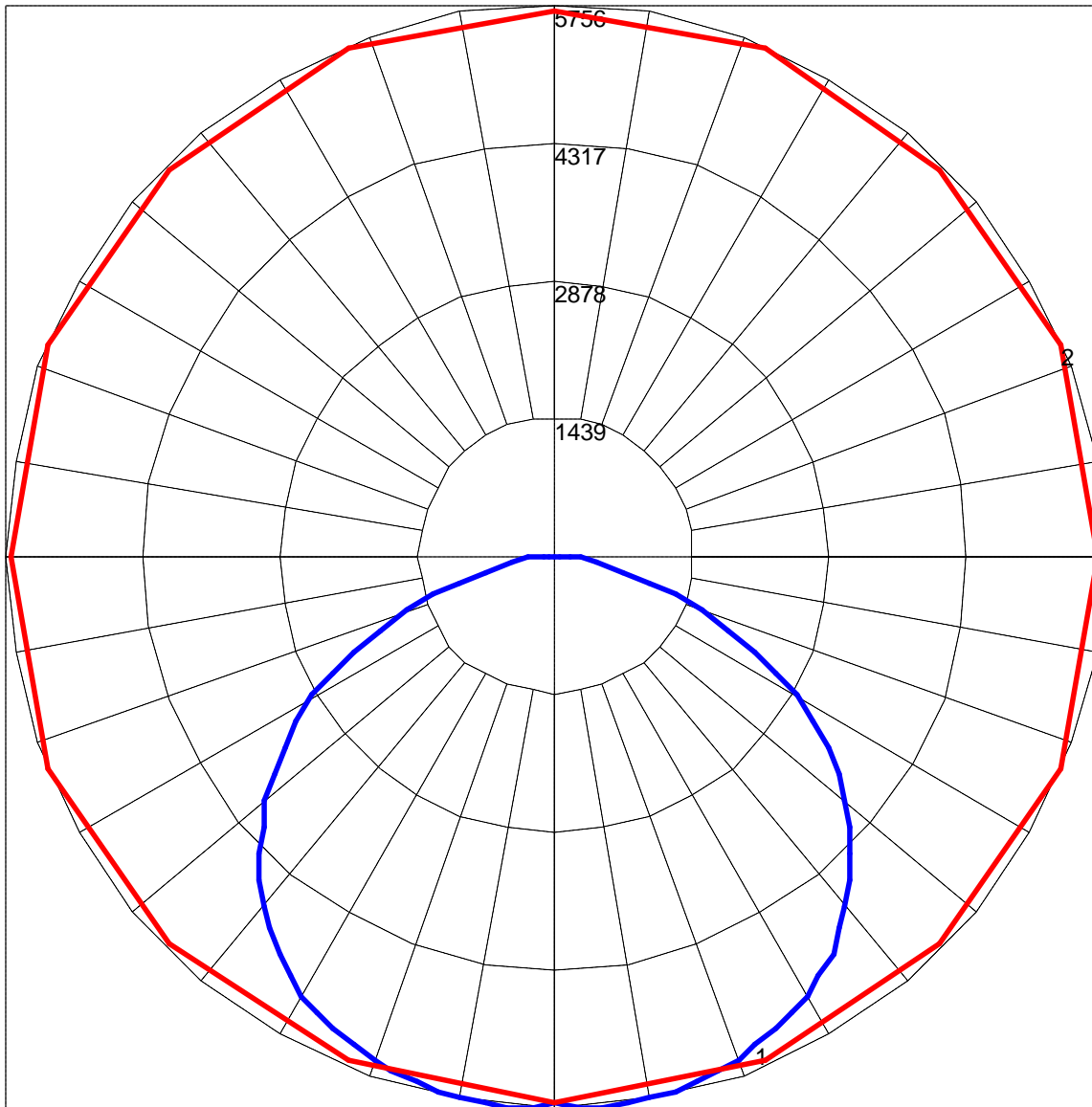
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5756.316 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.)