



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-LL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8606R_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]05/02/17
[TEST DATE]02/23/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB11-LED-18L-LL-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	18297
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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)	1.50
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	18740	18792	18578
55	18797	18918	18747
65	18435	18775	13773
75	16476	6347	2659
85	11797	4512	4371

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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	5842.312	5842.312	5842.312	5842.312	5842.312
2.5	5840.916	5884.213	5864.659	5839.519	5828.346
5.0	5843.709	5887.006	5866.056	5838.122	5825.552
7.5	5839.519	5885.610	5863.263	5835.329	5818.569
10.0	5826.949	5874.436	5850.693	5821.362	5803.205
12.5	5804.602	5852.089	5826.949	5796.222	5778.065
15.0	5772.478	5824.156	5797.619	5764.098	5744.545
17.5	5734.768	5785.049	5759.908	5722.198	5704.041
20.0	5680.298	5736.165	5709.628	5670.521	5652.364
22.5	5621.637	5671.917	5649.571	5607.670	5589.513
25.0	5549.010	5602.083	5576.943	5535.043	5516.886
27.5	5461.019	5516.886	5494.539	5449.845	5434.482
30.0	5366.045	5423.308	5400.962	5350.681	5333.921
32.5	5257.104	5311.574	5289.227	5238.947	5222.187
35.0	5135.592	5187.270	5166.319	5110.452	5099.279
37.5	5001.511	5051.792	5030.841	4976.371	4959.611
40.0	4852.066	4900.950	4874.413	4825.529	4811.563
42.5	4691.448	4738.935	4711.002	4660.721	4650.944
45.0	4518.260	4560.160	4530.830	4488.930	4479.153
47.5	4332.501	4370.212	4340.881	4303.171	4296.188
50.0	4125.793	4162.106	4143.950	4109.033	4100.652
52.5	3913.497	3941.431	3921.877	3893.944	3893.944
55.0	3676.062	3716.565	3699.805	3676.062	3666.285
57.5	3440.023	3481.923	3469.353	3448.403	3437.229
60.0	3191.414	3234.711	3226.331	3199.794	3142.530
62.5	2928.838	2973.532	2972.135	2815.707	2511.231
65.0	2656.485	2703.972	2705.369	2223.515	1984.682
67.5	2371.563	2417.653	2412.066	1660.653	1262.599
70.0	2068.483	2108.987	1833.841	891.082	611.746
72.5	1755.627	1807.304	1284.946	472.078	270.956
75.0	1453.944	1508.414	560.069	224.865	234.642
77.5	1146.674	1206.732	231.849	220.675	227.659
80.0	861.752	731.860	180.172	205.312	213.692
82.5	592.192	254.196	167.602	180.172	181.568
85.0	350.567	117.321	134.081	132.685	129.891
87.5	156.428	83.801	75.421	75.421	76.817
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	2194.73	N.A.	12.00
0-30	4760.67	N.A.	26.00
0-40	7980.84	N.A.	43.60
0-60	14763.48	N.A.	80.70
0-80	18107.49	N.A.	99.00
0-90	18297.38	N.A.	100.00
10-90	17738.85	N.A.	96.90
20-40	5786.12	N.A.	31.60
20-50	9271.66	N.A.	50.70
40-70	9206.95	N.A.	50.30
60-80	3344.01	N.A.	18.30
70-80	919.71	N.A.	5.00
80-90	189.89	N.A.	1.00
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	18297.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	558.53
10-20	1636.19
20-30	2565.94
30-40	3220.17
40-50	3485.54
50-60	3297.09
60-70	2424.31
70-80	919.71
80-90	189.89
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

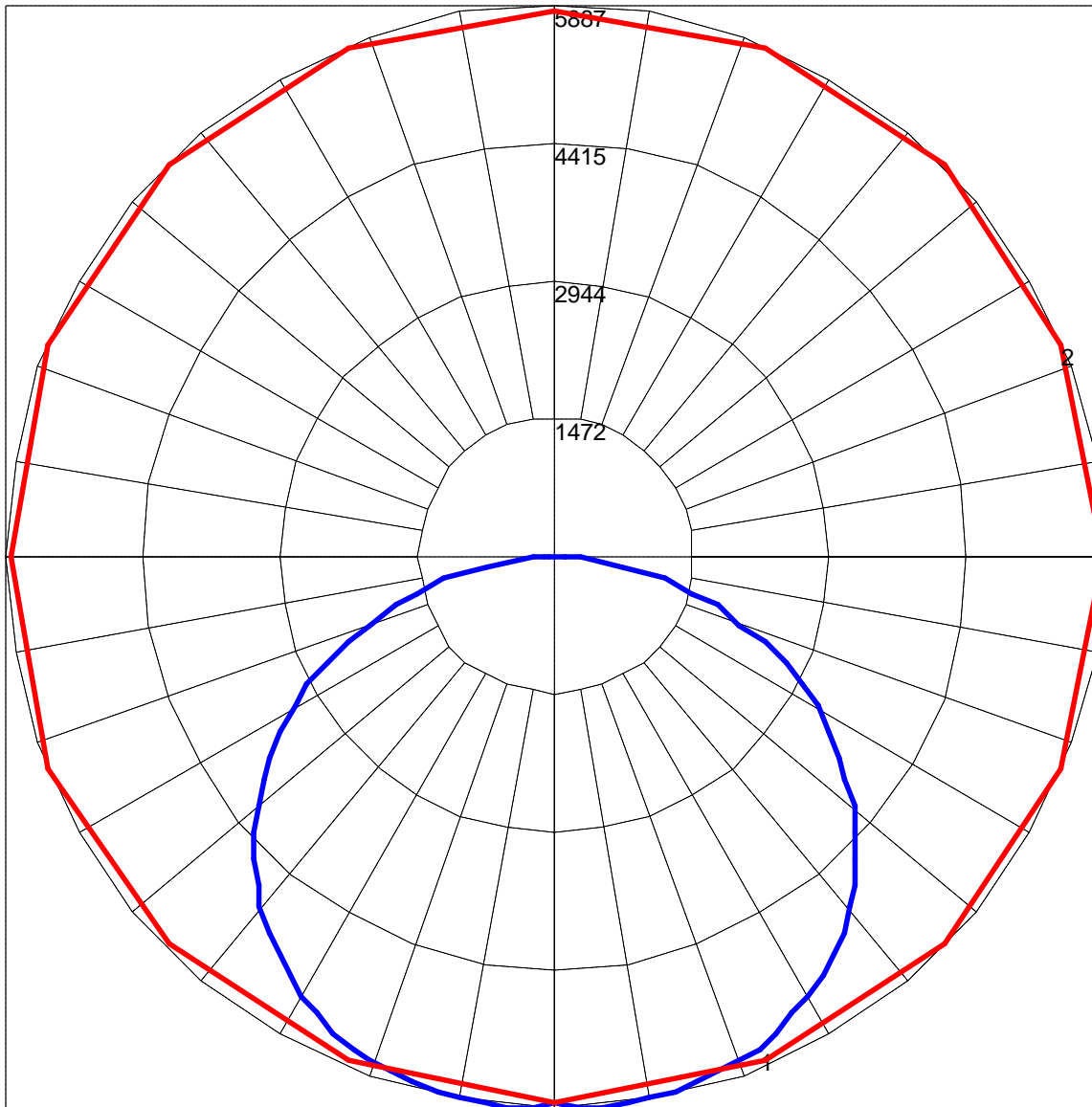
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 5887.006 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.)