



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-S-35.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-35
[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	17503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	18345	18345	18130
55	17816	17860	17557
65	16233	15813	12250
75	11750	7877	4788
85	6066	3591	3251

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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	5800.206	5800.206	5800.206	5800.206	5800.206
2.5	5781.459	5846.354	5826.165	5803.091	5794.438
5.0	5791.554	5849.239	5823.280	5797.322	5787.227
7.5	5790.112	5843.470	5814.628	5782.901	5775.690
10.0	5782.901	5830.491	5803.091	5771.364	5768.480
12.5	5767.038	5808.859	5784.343	5756.943	5749.732
15.0	5738.195	5778.575	5755.501	5728.100	5718.006
17.5	5702.142	5738.195	5723.774	5684.837	5679.068
20.0	5650.226	5686.279	5677.626	5631.478	5617.057
22.5	5589.657	5624.268	5614.173	5566.583	5556.488
25.0	5521.877	5552.162	5537.741	5488.709	5480.056
27.5	5433.908	5468.519	5444.003	5400.739	5392.087
30.0	5338.728	5371.897	5347.381	5301.233	5283.928
32.5	5223.358	5259.411	5236.338	5182.979	5167.116
35.0	5095.010	5129.621	5107.989	5048.862	5037.325
37.5	4946.471	4982.524	4963.777	4906.092	4893.113
40.0	4786.396	4818.123	4796.491	4747.459	4744.575
42.5	4613.342	4643.626	4614.784	4580.173	4571.520
45.0	4422.982	4450.382	4422.982	4388.371	4371.066
47.5	4208.106	4238.391	4221.085	4173.495	4164.842
50.0	3984.577	4014.862	3996.114	3947.082	3945.640
52.5	3735.091	3775.470	3752.396	3706.248	3703.364
55.0	3484.162	3523.099	3492.815	3446.667	3433.688
57.5	3211.601	3253.423	3220.254	3159.685	3130.842
60.0	2934.714	2967.883	2931.830	2825.113	2741.470
62.5	2636.195	2676.575	2624.658	2435.741	2265.570
65.0	2339.119	2363.635	2278.550	1948.304	1765.155
67.5	2004.547	2021.852	1893.504	1478.173	1279.160
70.0	1681.512	1678.628	1460.868	1036.884	876.809
72.5	1342.614	1348.382	1041.211	703.755	607.133
75.0	1036.884	1029.674	695.102	480.226	422.541
77.5	752.787	732.597	457.152	333.130	307.172
80.0	511.953	470.131	292.750	230.739	220.644
82.5	317.266	271.119	183.149	154.307	148.538
85.0	180.265	145.654	106.717	98.064	96.622
87.5	87.969	64.895	54.801	51.916	53.358
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	2179.44	N.A.	12.50
0-30	4725.56	N.A.	27.00
0-40	7908.04	N.A.	45.20
0-60	14407.2	N.A.	82.30
0-80	17350.14	N.A.	99.10
0-90	17503.32	N.A.	100.00
10-90	16949.02	N.A.	96.80
20-40	5728.6	N.A.	32.70
20-50	9129.36	N.A.	52.20
40-70	8621.98	N.A.	49.30
60-80	2942.94	N.A.	16.80
70-80	820.12	N.A.	4.70
80-90	153.17	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	17503.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	554.30
10-20	1625.14
20-30	2546.11
30-40	3182.49
40-50	3400.76
50-60	3098.4
60-70	2122.82
70-80	820.12
80-90	153.17
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

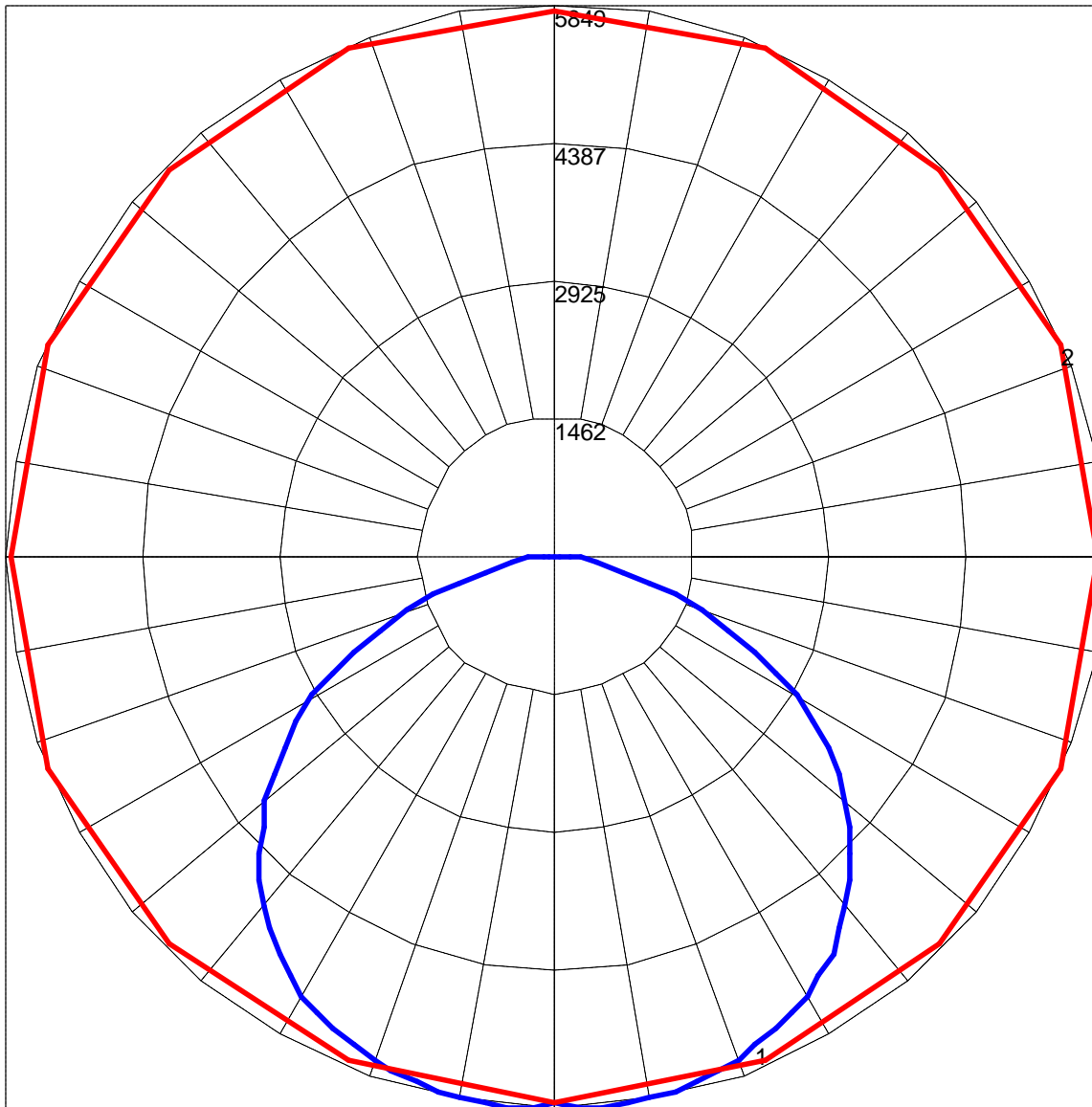
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5849.239 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.)