



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-LL-50.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-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	19551
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	20025	20080	19851
55	20085	20215	20032
65	19699	20061	14717
75	17605	6781	2841
85	12605	4821	4670

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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	6242.709	6242.709	6242.709	6242.709	6242.709
2.5	6241.217	6287.481	6266.588	6239.725	6227.785
5.0	6244.202	6290.466	6268.080	6238.232	6224.801
7.5	6239.725	6288.974	6265.095	6235.247	6217.339
10.0	6226.293	6277.035	6251.664	6220.323	6200.922
12.5	6202.415	6253.156	6226.293	6193.460	6174.059
15.0	6168.089	6223.308	6194.953	6159.135	6138.241
17.5	6127.795	6181.521	6154.658	6114.363	6094.962
20.0	6069.591	6129.287	6100.931	6059.144	6039.743
22.5	6006.910	6060.637	6036.758	5991.986	5972.585
25.0	5929.305	5986.017	5959.153	5914.381	5894.980
27.5	5835.284	5894.980	5871.102	5823.345	5806.929
30.0	5733.801	5794.989	5771.111	5717.385	5699.476
32.5	5617.394	5675.597	5651.719	5597.993	5580.084
35.0	5487.555	5542.774	5520.388	5460.692	5448.753
37.5	5344.285	5398.011	5375.625	5317.421	5299.513
40.0	5184.598	5236.832	5208.476	5156.242	5141.318
42.5	5012.972	5063.713	5033.865	4980.139	4969.692
45.0	4827.914	4872.686	4841.346	4796.574	4786.127
47.5	4629.425	4669.720	4638.379	4598.085	4590.623
50.0	4408.550	4447.352	4427.951	4390.641	4381.687
52.5	4181.705	4211.553	4190.659	4160.811	4160.811
55.0	3927.997	3971.277	3953.368	3927.997	3917.550
57.5	3675.781	3720.553	3707.122	3684.736	3672.797
60.0	3410.134	3456.399	3447.444	3419.089	3357.900
62.5	3129.563	3177.320	3175.827	3008.679	2683.335
65.0	2838.545	2889.286	2890.779	2375.901	2120.700
67.5	2534.095	2583.344	2577.375	1774.464	1349.130
70.0	2210.244	2253.524	1959.521	952.151	653.671
72.5	1875.947	1931.166	1373.008	504.431	289.526
75.0	1553.588	1611.792	598.452	240.276	250.723
77.5	1225.260	1289.434	247.738	235.799	243.261
80.0	920.811	782.018	192.520	219.383	228.337
82.5	632.778	271.617	179.088	192.520	194.012
85.0	374.592	125.362	143.270	141.778	138.793
87.5	167.149	89.544	80.590	80.590	82.082
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	2345.14	N.A.	12.00
0-30	5086.94	N.A.	26.00
0-40	8527.8	N.A.	43.60
0-60	15775.28	N.A.	80.70
0-80	19348.47	N.A.	99.00
0-90	19551.37	N.A.	100.00
10-90	18954.56	N.A.	96.90
20-40	6182.66	N.A.	31.60
20-50	9907.08	N.A.	50.70
40-70	9837.93	N.A.	50.30
60-80	3573.19	N.A.	18.30
70-80	982.74	N.A.	5.00
80-90	202.90	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	19551.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	596.81
10-20	1748.33
20-30	2741.8
30-40	3440.87
40-50	3724.42
50-60	3523.06
60-70	2590.46
70-80	982.74
80-90	202.90
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

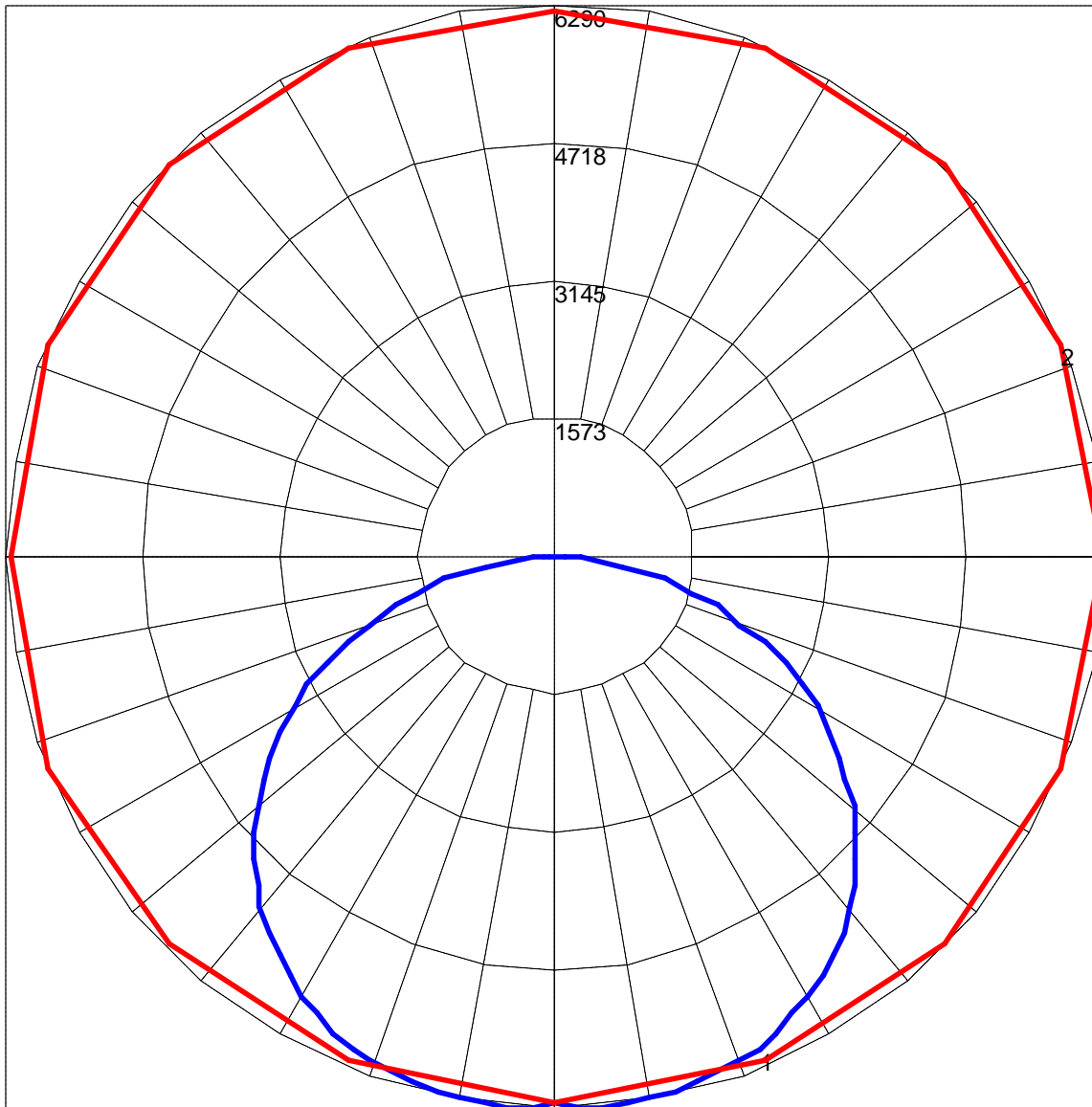
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6290.466 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.)