



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-24L-LL-35.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-24L-LL-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	22335
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	152
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	22876	22940	22678
55	22945	23093	22884
65	22504	22918	16813
75	20112	7747	3246
85	14400	5508	5336

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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	7131.597	7131.597	7131.597	7131.597	7131.597
2.5	7129.892	7182.744	7158.875	7128.187	7114.548
5.0	7133.302	7186.154	7160.580	7126.482	7111.138
7.5	7128.187	7184.449	7157.170	7123.072	7102.614
10.0	7112.843	7170.810	7141.826	7106.023	7083.860
12.5	7085.565	7143.531	7112.843	7075.335	7053.171
15.0	7046.352	7109.433	7077.040	7036.122	7012.254
17.5	7000.320	7061.696	7031.008	6984.975	6962.812
20.0	6933.828	7002.024	6969.631	6921.894	6899.730
22.5	6862.223	6923.599	6896.321	6845.174	6823.010
25.0	6773.568	6838.354	6807.666	6756.519	6734.355
27.5	6666.159	6734.355	6707.077	6652.520	6633.766
30.0	6550.226	6620.127	6592.848	6531.472	6511.013
32.5	6417.244	6483.735	6456.456	6395.080	6374.621
35.0	6268.917	6331.999	6306.425	6238.229	6224.590
37.5	6105.247	6166.623	6141.050	6074.559	6054.100
40.0	5922.823	5982.494	5950.101	5890.430	5873.381
42.5	5726.759	5784.726	5750.628	5689.251	5677.317
45.0	5515.352	5566.499	5530.696	5479.549	5467.614
47.5	5288.600	5334.632	5298.829	5252.797	5244.272
50.0	5036.275	5080.602	5058.438	5015.816	5005.586
52.5	4777.130	4811.228	4787.359	4753.261	4753.261
55.0	4487.297	4536.739	4516.280	4487.297	4475.363
57.5	4199.169	4250.316	4234.972	4209.398	4195.759
60.0	3895.697	3948.548	3938.319	3905.926	3836.025
62.5	3575.175	3629.732	3628.027	3437.078	3065.410
65.0	3242.720	3300.686	3302.391	2714.201	2422.663
67.5	2894.920	2951.182	2944.362	2027.126	1541.230
70.0	2524.957	2574.399	2238.534	1087.726	746.746
72.5	2143.059	2206.141	1568.508	576.256	330.751
75.0	1774.801	1841.292	683.665	274.489	286.423
77.5	1399.723	1473.034	283.013	269.374	277.899
80.0	1051.923	893.368	219.932	250.620	260.850
82.5	722.878	310.292	204.588	219.932	221.637
85.0	427.930	143.212	163.670	161.966	158.556
87.5	190.949	102.294	92.065	92.065	93.770
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	2679.06	N.A.	12.00
0-30	5811.26	N.A.	26.00
0-40	9742.06	N.A.	43.60
0-60	18021.49	N.A.	80.70
0-80	22103.46	N.A.	99.00
0-90	22335.25	N.A.	100.00
10-90	21653.46	N.A.	96.90
20-40	7063.00	N.A.	31.60
20-50	11317.74	N.A.	50.70
40-70	11238.74	N.A.	50.30
60-80	4081.97	N.A.	18.30
70-80	1122.67	N.A.	5.00
80-90	231.79	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	22335.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	681.79
10-20	1997.27
20-30	3132.2
30-40	3930.8
40-50	4254.74
50-60	4024.7
60-70	2959.31
70-80	1122.67
80-90	231.79
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

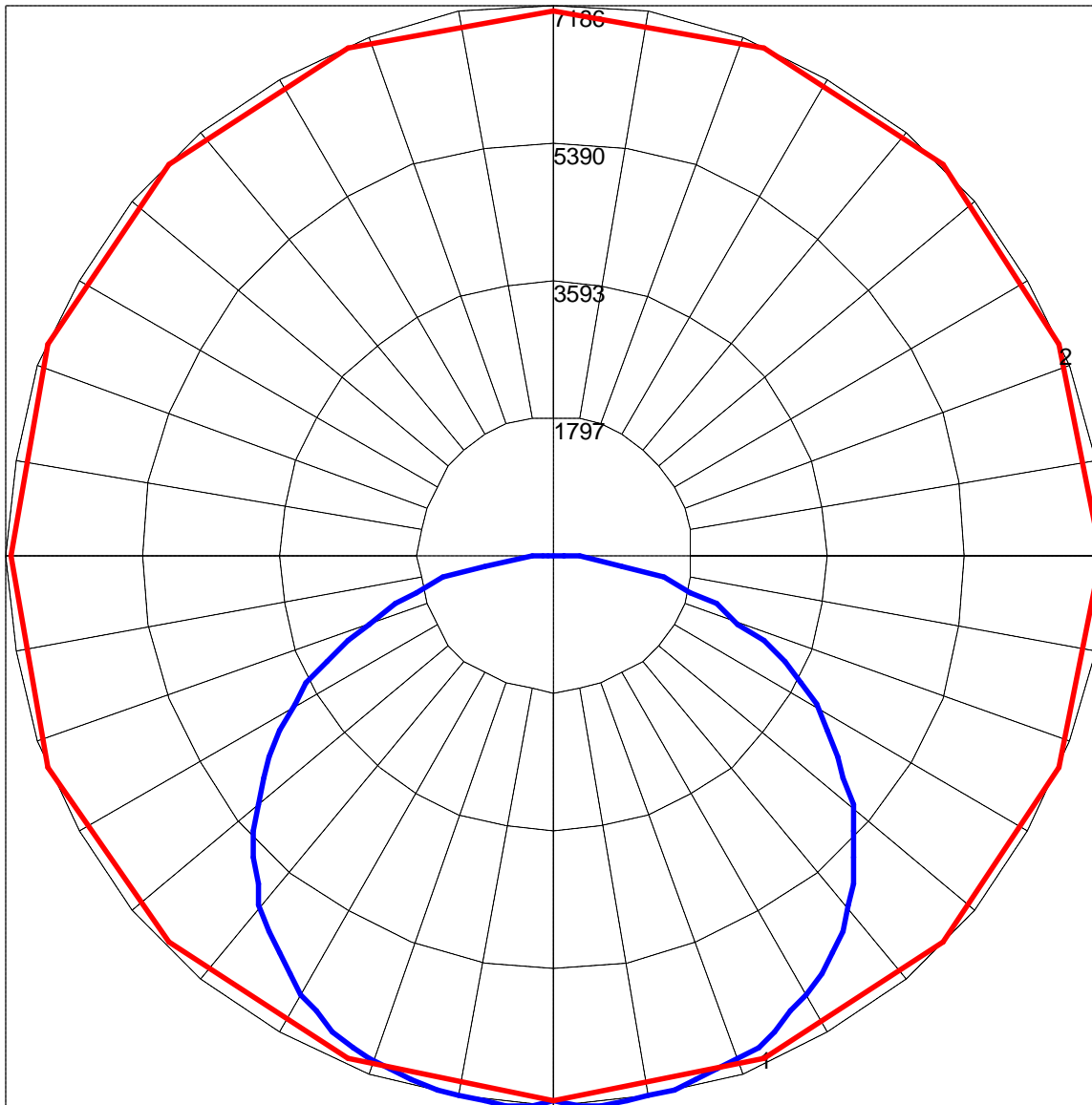
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 7186.154 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.)