



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-24L-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-24L-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	20694
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
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)	1.48
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	21690	21690	21435
55	21063	21116	20758
65	19192	18695	14483
75	13892	9313	5661
85	7172	4246	3844

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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	6857.631	6857.631	6857.631	6857.631	6857.631
2.5	6835.465	6912.191	6888.321	6861.041	6850.810
5.0	6847.400	6915.602	6884.911	6854.220	6842.285
7.5	6845.695	6908.781	6874.681	6837.170	6828.645
10.0	6837.170	6893.436	6861.041	6823.530	6820.120
12.5	6818.415	6867.861	6838.875	6806.480	6797.954
15.0	6784.314	6832.055	6804.775	6772.379	6760.444
17.5	6741.688	6784.314	6767.264	6721.228	6714.408
20.0	6680.307	6722.933	6712.703	6658.142	6641.092
22.5	6608.696	6649.617	6637.682	6581.416	6569.480
25.0	6528.560	6564.365	6547.315	6489.344	6479.114
27.5	6424.553	6465.474	6436.488	6385.337	6375.107
30.0	6312.021	6351.237	6322.251	6267.690	6247.230
32.5	6175.619	6218.244	6190.964	6127.878	6109.122
35.0	6023.871	6064.792	6039.216	5969.310	5955.670
37.5	5848.253	5890.879	5868.713	5800.512	5785.167
40.0	5658.994	5696.505	5670.930	5612.959	5609.549
42.5	5454.391	5490.196	5456.096	5415.175	5404.945
45.0	5229.327	5261.722	5229.327	5188.406	5167.946
47.5	4975.277	5011.083	4990.623	4934.357	4924.127
50.0	4710.998	4746.803	4724.638	4666.667	4664.962
52.5	4416.028	4463.768	4436.488	4381.927	4378.517
55.0	4119.352	4165.388	4129.583	4075.022	4059.676
57.5	3797.102	3846.548	3807.332	3735.721	3701.620
60.0	3469.736	3508.952	3466.326	3340.154	3241.262
62.5	3116.795	3164.536	3103.155	2879.796	2678.602
65.0	2765.559	2794.544	2693.947	2303.495	2086.957
67.5	2369.992	2390.452	2238.704	1747.656	1512.362
70.0	1988.065	1984.655	1727.195	1225.917	1036.658
72.5	1587.383	1594.203	1231.032	832.055	717.818
75.0	1225.917	1217.391	821.824	567.775	499.574
77.5	890.026	866.155	540.494	393.862	363.171
80.0	605.286	555.840	346.121	272.805	260.870
82.5	375.107	320.546	216.539	182.438	175.618
85.0	213.129	172.208	126.172	115.942	114.237
87.5	104.007	76.726	64.791	61.381	63.086
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	2576.77	N.A.	12.50
0-30	5587.06	N.A.	27.00
0-40	9349.74	N.A.	45.20
0-60	17033.75	N.A.	82.30
0-80	20513.21	N.A.	99.10
0-90	20694.31	N.A.	100.00
10-90	20038.96	N.A.	96.80
20-40	6772.97	N.A.	32.70
20-50	10793.71	N.A.	52.20
40-70	10193.84	N.A.	49.30
60-80	3479.46	N.A.	16.80
70-80	969.63	N.A.	4.70
80-90	181.10	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	20694.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	655.35
10-20	1921.42
20-30	3010.29
30-40	3762.68
40-50	4020.74
50-60	3663.26
60-70	2509.83
70-80	969.63
80-90	181.10
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

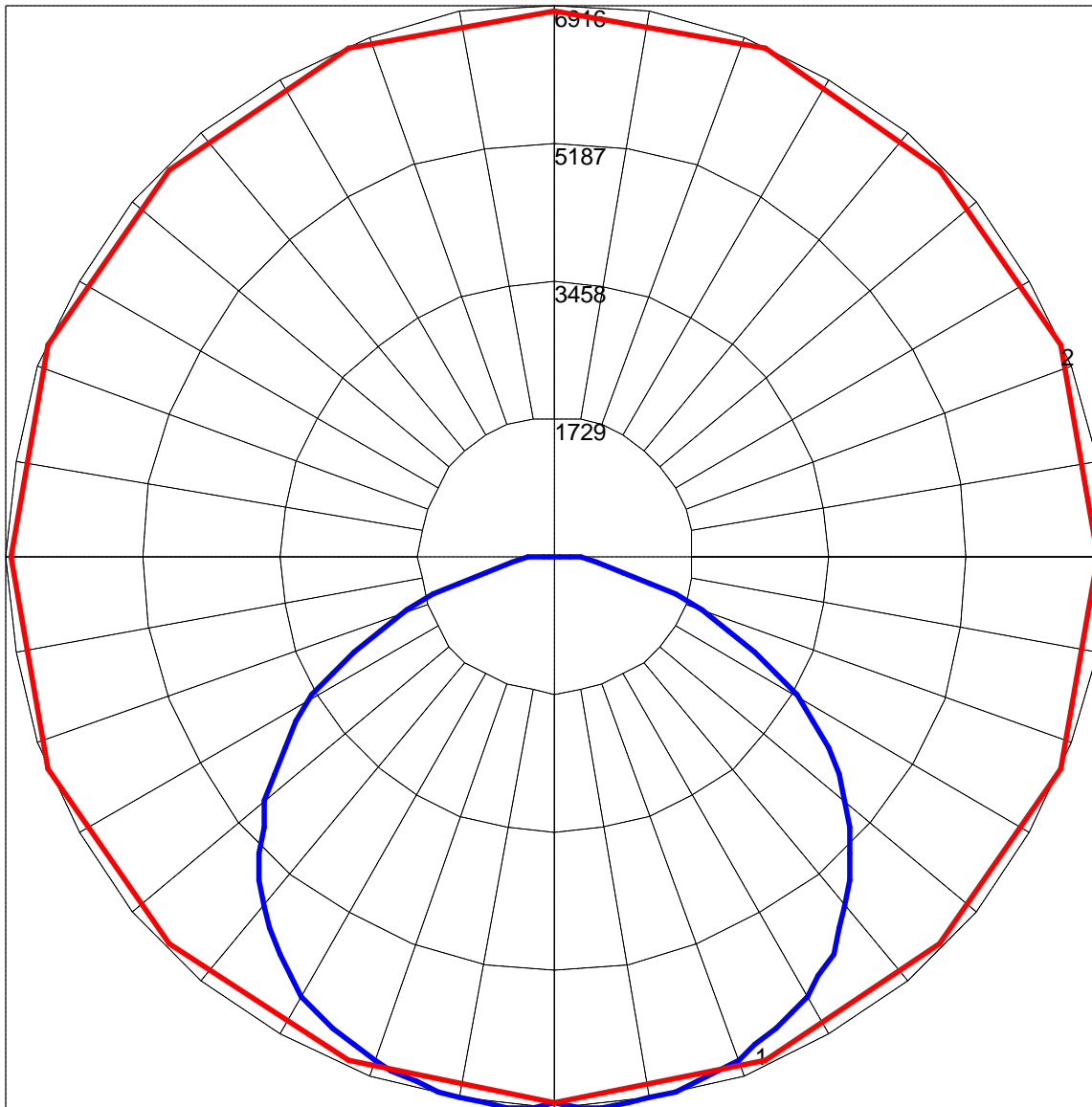
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6915.602 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.)