



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-24L-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-24L-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	21981
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	22513	22576	22319
55	22581	22727	22521
65	22147	22555	16546
75	19793	7624	3194
85	14172	5420	5251

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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	7018.572	7018.572	7018.572	7018.572	7018.572
2.5	7016.894	7068.909	7045.418	7015.216	7001.793
5.0	7020.250	7072.264	7047.096	7013.539	6998.438
7.5	7015.216	7070.587	7043.740	7010.183	6990.048
10.0	7000.116	7057.163	7028.640	6993.404	6971.592
12.5	6973.269	7030.317	7000.116	6963.202	6941.390
15.0	6934.678	6996.760	6964.880	6924.611	6901.121
17.5	6889.375	6949.779	6919.577	6874.275	6852.462
20.0	6823.938	6891.053	6859.174	6812.193	6790.381
22.5	6753.467	6813.871	6787.025	6736.688	6714.876
25.0	6666.217	6729.977	6699.775	6649.439	6627.626
27.5	6560.511	6627.626	6600.780	6547.088	6528.631
30.0	6446.415	6515.208	6488.362	6427.958	6407.824
32.5	6315.541	6380.978	6354.132	6293.728	6273.594
35.0	6169.565	6231.647	6206.478	6139.363	6125.940
37.5	6008.488	6068.892	6043.724	5978.287	5958.152
40.0	5828.955	5887.681	5855.801	5797.076	5780.297
42.5	5635.999	5693.047	5659.489	5599.086	5587.341
45.0	5427.942	5478.278	5443.043	5392.706	5380.961
47.5	5204.784	5250.087	5214.851	5169.548	5161.159
50.0	4956.458	5000.083	4978.270	4936.323	4926.256
52.5	4701.420	4734.977	4711.487	4677.930	4677.930
55.0	4416.180	4464.839	4444.704	4416.180	4404.435
57.5	4132.619	4182.955	4167.854	4142.686	4129.263
60.0	3833.956	3885.970	3875.903	3844.023	3775.230
62.5	3518.514	3572.207	3570.529	3382.606	3016.828
65.0	3191.328	3248.376	3250.054	2671.185	2384.268
67.5	2849.040	2904.410	2897.699	1994.999	1516.804
70.0	2484.940	2533.599	2203.057	1070.487	734.911
72.5	2109.095	2171.177	1543.650	567.123	325.509
75.0	1746.673	1812.110	672.830	270.139	281.884
77.5	1377.540	1449.688	278.528	265.105	273.494
80.0	1035.252	879.209	216.447	246.648	256.716
82.5	711.421	305.374	201.346	216.447	218.124
85.0	421.148	140.942	161.076	159.399	156.043
87.5	187.923	100.673	90.606	90.606	92.283
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	2636.6	N.A.	12.00
0-30	5719.16	N.A.	26.00
0-40	9587.66	N.A.	43.60
0-60	17735.88	N.A.	80.70
0-80	21753.16	N.A.	99.00
0-90	21981.28	N.A.	100.00
10-90	21310.29	N.A.	96.90
20-40	6951.06	N.A.	31.60
20-50	11138.37	N.A.	50.70
40-70	11060.62	N.A.	50.30
60-80	4017.28	N.A.	18.30
70-80	1104.87	N.A.	5.00
80-90	228.12	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	21981.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	670.99
10-20	1965.62
20-30	3082.56
30-40	3868.51
40-50	4187.31
50-60	3960.91
60-70	2912.41
70-80	1104.87
80-90	228.12
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

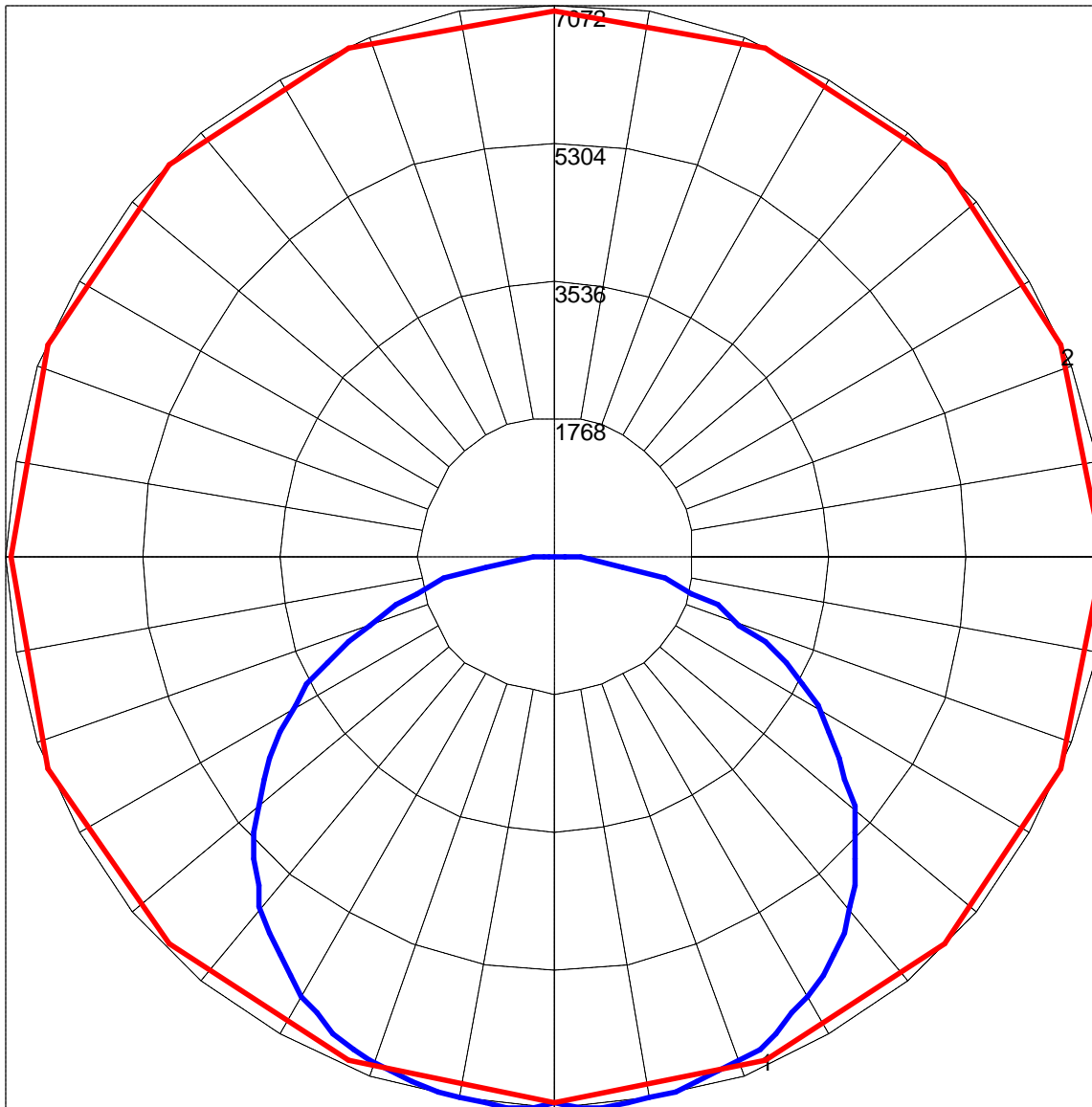
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 7072.264 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.)