



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-24L-AL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8609R_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-AL-40
[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	21038
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	152
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.52
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	22124	23523	20690
55	21535	20548	15615
65	19807	13367	7289
75	15078	5229	2833
85	7509	2146	1468

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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	6778.635	6778.635	6778.635	6778.635	6778.635
2.5	6766.890	6830.650	6818.905	6797.092	6778.635
5.0	6790.381	6872.597	6891.053	6897.765	6891.053
7.5	6828.972	6934.678	7011.861	7053.808	7055.486
10.0	6874.275	7025.284	7156.158	7216.562	7229.985
12.5	6919.577	7120.923	7313.879	7389.384	7416.230
15.0	6951.457	7226.629	7479.989	7567.239	7589.051
17.5	6936.356	7293.745	7641.066	7724.960	7746.772
20.0	6882.664	7332.336	7776.974	7854.157	7818.921
22.5	6792.058	7327.302	7875.969	7892.748	7810.532
25.0	6664.540	7288.711	7901.137	7844.089	7674.623
27.5	6501.785	7216.562	7840.733	7684.691	7426.297
30.0	6322.252	7109.178	7709.859	7416.230	7100.788
32.5	6149.430	6985.015	7490.057	7067.231	6711.520
35.0	5998.421	6877.630	7203.139	6644.405	6295.406
37.5	5844.056	6758.501	6850.784	6208.156	5909.494
40.0	5679.624	6614.203	6490.040	5810.499	5589.018
42.5	5528.615	6434.670	6083.993	5461.500	5288.678
45.0	5333.981	6223.257	5671.235	5122.568	4988.337
47.5	5104.111	5944.729	5256.798	4780.280	4669.540
50.0	4832.295	5609.153	4849.073	4434.637	4276.916
52.5	4533.632	5219.885	4443.026	3974.898	3689.658
55.0	4211.479	4775.247	4018.523	3390.996	3053.742
57.5	3897.715	4253.426	3594.019	2760.113	2431.248
60.0	3580.596	3751.740	3085.621	2171.177	1907.750
62.5	3219.852	3271.866	2500.041	1672.846	1463.111
65.0	2854.074	2805.415	1926.206	1253.376	1050.353
67.5	2473.195	2355.744	1436.265	882.565	709.743
70.0	2109.095	1904.394	1018.473	595.647	483.229
72.5	1724.861	1466.467	692.964	406.047	338.932
75.0	1330.559	1041.964	461.417	290.273	250.004
77.5	969.815	677.864	310.408	206.379	179.533
80.0	664.440	416.114	209.735	139.264	122.485
82.5	399.335	248.326	124.163	85.572	77.182
85.0	223.158	134.230	63.759	48.659	43.625
87.5	100.673	55.370	28.524	23.490	25.168
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	2760.15	N.A.	13.10
0-30	6225.19	N.A.	29.60
0-40	10423.89	N.A.	49.50
0-60	18203.39	N.A.	86.50
0-80	20914.14	N.A.	99.40
0-90	21038.28	N.A.	100.00
10-90	20374.23	N.A.	96.80
20-40	7663.74	N.A.	36.40
20-50	11930.79	N.A.	56.70
40-70	9770.65	N.A.	46.40
60-80	2710.75	N.A.	12.90
70-80	719.61	N.A.	3.40
80-90	124.14	N.A.	0.60
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	21038.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	664.05
10-20	2096.1
20-30	3465.04
30-40	4198.7
40-50	4267.05
50-60	3512.45
60-70	1991.14
70-80	719.61
80-90	124.14
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

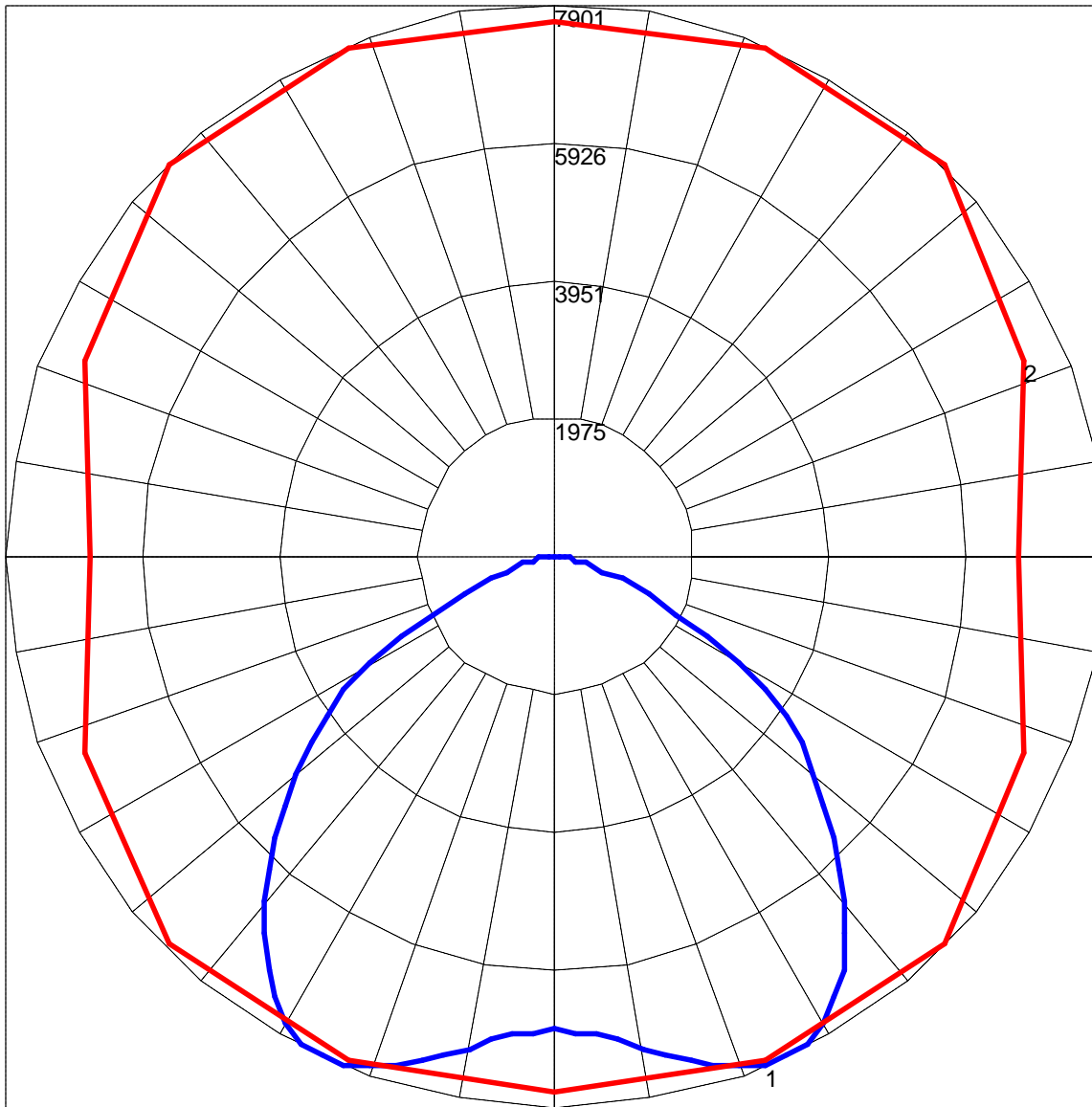
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 7901.137 Located At Horizontal Angle = 45, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)