



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-12L-AL-50.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-12L-AL-50
[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	13185
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	89
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	13865	14741	12966
55	13496	12877	9786
65	12413	8377	4568
75	9449	3277	1775
85	4706	1345	920

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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	4248.141	4248.141	4248.141	4248.141	4248.141
2.5	4240.780	4280.738	4273.377	4259.707	4248.141
5.0	4255.501	4307.026	4318.593	4322.799	4318.593
7.5	4279.686	4345.932	4394.302	4420.590	4421.642
10.0	4308.077	4402.714	4484.733	4522.587	4531.000
12.5	4336.468	4462.651	4583.576	4630.894	4647.718
15.0	4356.447	4528.897	4687.676	4742.355	4756.025
17.5	4346.984	4570.957	4788.622	4841.198	4854.868
20.0	4313.335	4595.142	4873.795	4922.165	4900.083
22.5	4256.553	4591.988	4935.835	4946.350	4894.826
25.0	4176.637	4567.803	4951.608	4915.856	4809.652
27.5	4074.640	4522.587	4913.753	4815.962	4654.027
30.0	3962.127	4455.290	4831.734	4647.718	4450.033
32.5	3853.821	4377.478	4693.985	4429.002	4206.080
35.0	3759.184	4310.180	4514.175	4164.019	3945.303
37.5	3662.444	4235.523	4293.356	3890.624	3703.453
40.0	3559.395	4145.092	4067.279	3641.414	3502.613
42.5	3464.758	4032.579	3812.811	3422.698	3314.391
45.0	3342.782	3900.088	3554.138	3210.291	3126.169
47.5	3198.724	3725.535	3294.412	2995.780	2926.380
50.0	3028.378	3515.231	3038.893	2779.167	2680.324
52.5	2841.207	3271.279	2784.425	2491.051	2312.292
55.0	2639.315	2992.626	2518.390	2125.122	1913.766
57.5	2442.681	2665.603	2252.356	1729.750	1523.652
60.0	2243.944	2351.199	1933.745	1360.667	1195.578
62.5	2017.867	2050.464	1566.765	1048.365	916.925
65.0	1788.636	1758.141	1207.145	785.485	658.252
67.5	1549.940	1476.334	900.101	553.100	444.793
70.0	1321.761	1193.475	638.273	373.290	302.838
72.5	1080.963	919.028	434.278	254.468	212.407
75.0	833.855	652.994	289.168	181.913	156.676
77.5	607.779	424.814	194.531	129.337	112.513
80.0	416.402	260.777	131.440	87.276	76.761
82.5	250.262	155.625	77.812	53.628	48.370
85.0	139.852	84.122	39.958	30.494	27.340
87.5	63.091	34.700	17.876	14.721	15.773
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	1729.77	N.A.	13.10
0-30	3901.3	N.A.	29.60
0-40	6532.61	N.A.	49.50
0-60	11407.99	N.A.	86.50
0-80	13106.8	N.A.	99.40
0-90	13184.6	N.A.	100.00
10-90	12768.44	N.A.	96.80
20-40	4802.83	N.A.	36.40
20-50	7476.98	N.A.	56.70
40-70	6123.22	N.A.	46.40
60-80	1698.81	N.A.	12.90
70-80	450.97	N.A.	3.40
80-90	77.80	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	13184.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	416.16
10-20	1313.61
20-30	2171.53
30-40	2631.31
40-50	2674.14
50-60	2201.24
60-70	1247.84
70-80	450.97
80-90	77.80
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

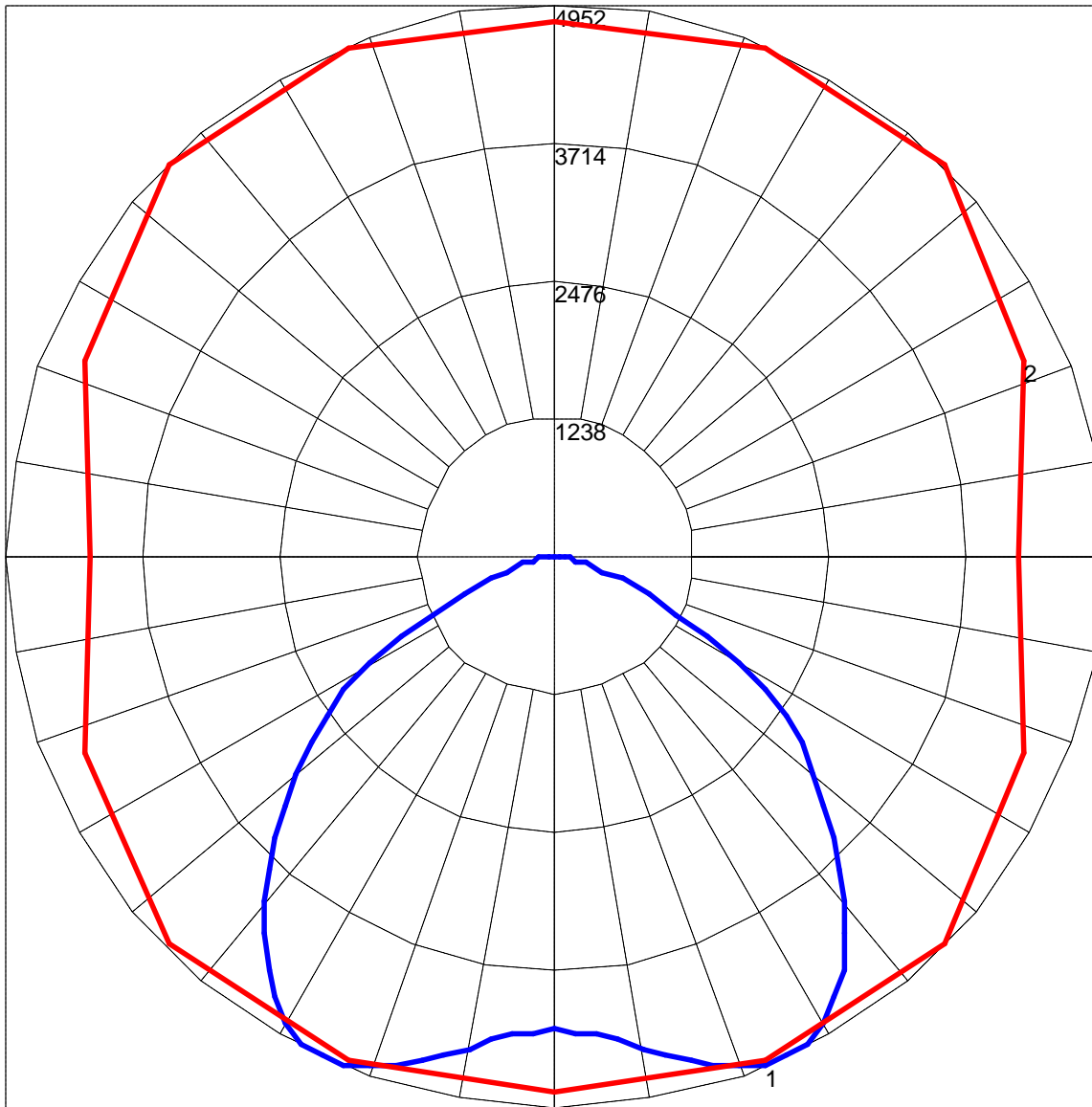
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4951.608 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.)