



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-30L-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-30L-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	29286
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	213
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	30797	32744	28801
55	29977	28603	21736
65	27571	18608	10147
75	20988	7278	3944
85	10453	2987	2044

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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	9436.066	9436.066	9436.066	9436.066	9436.066
2.5	9419.717	9508.472	9492.122	9461.759	9436.066
5.0	9452.416	9566.863	9592.556	9601.898	9592.556
7.5	9506.136	9653.283	9760.723	9819.115	9821.450
10.0	9569.199	9779.408	9961.590	10045.674	10064.359
12.5	9632.262	9912.541	10181.142	10286.247	10323.617
15.0	9676.639	10059.688	10412.372	10533.827	10564.190
17.5	9655.618	10153.114	10636.596	10753.379	10783.742
20.0	9580.877	10206.834	10825.784	10933.224	10884.176
22.5	9454.752	10199.827	10963.588	10986.945	10872.497
25.0	9277.241	10146.107	10998.623	10919.210	10683.309
27.5	9050.682	10045.674	10914.539	10697.323	10337.631
30.0	8800.767	9896.191	10732.358	10323.617	9884.513
32.5	8560.194	9723.352	10426.386	9837.800	9342.640
35.0	8349.984	9573.870	10026.988	9249.214	8763.396
37.5	8135.104	9408.038	9536.500	8641.942	8226.194
40.0	7906.209	9207.172	9034.333	8088.391	7780.083
42.5	7696.000	8957.256	8469.103	7602.573	7362.000
45.0	7425.063	8662.963	7894.531	7130.770	6943.917
47.5	7105.078	8275.243	7317.623	6654.295	6500.142
50.0	6726.701	7808.111	6750.057	6173.149	5953.597
52.5	6310.953	7266.238	6184.828	5533.178	5136.116
55.0	5862.507	6647.288	5593.906	4720.369	4250.901
57.5	5425.738	5920.898	5002.984	3842.161	3384.371
60.0	4984.298	5222.536	4295.279	3022.344	2655.645
62.5	4482.132	4554.537	3480.133	2328.653	2036.696
65.0	3972.958	3905.223	2681.338	1744.738	1462.123
67.5	3442.763	3279.267	1999.325	1228.557	987.984
70.0	2935.925	2650.974	1417.746	829.159	672.670
72.5	2401.058	2041.367	964.628	565.230	471.803
75.0	1852.178	1450.445	642.306	404.069	348.013
77.5	1350.011	943.607	432.097	287.286	249.916
80.0	924.921	579.244	291.957	193.860	170.503
82.5	555.887	345.678	172.839	119.119	107.440
85.0	310.643	186.853	88.755	67.734	60.727
87.5	140.140	77.077	39.706	32.699	35.035
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	3842.22	N.A.	13.10
0-30	8665.66	N.A.	29.60
0-40	14510.38	N.A.	49.50
0-60	25339.68	N.A.	86.50
0-80	29113.13	N.A.	99.40
0-90	29285.93	N.A.	100.00
10-90	28361.54	N.A.	96.80
20-40	10668.16	N.A.	36.40
20-50	16608.03	N.A.	56.70
40-70	13601.04	N.A.	46.40
60-80	3773.45	N.A.	12.90
70-80	1001.71	N.A.	3.40
80-90	172.80	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	29285.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	924.38
10-20	2917.83
20-30	4823.44
30-40	5844.72
40-50	5939.87
50-60	4889.44
60-70	2771.73
70-80	1001.71
80-90	172.80
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

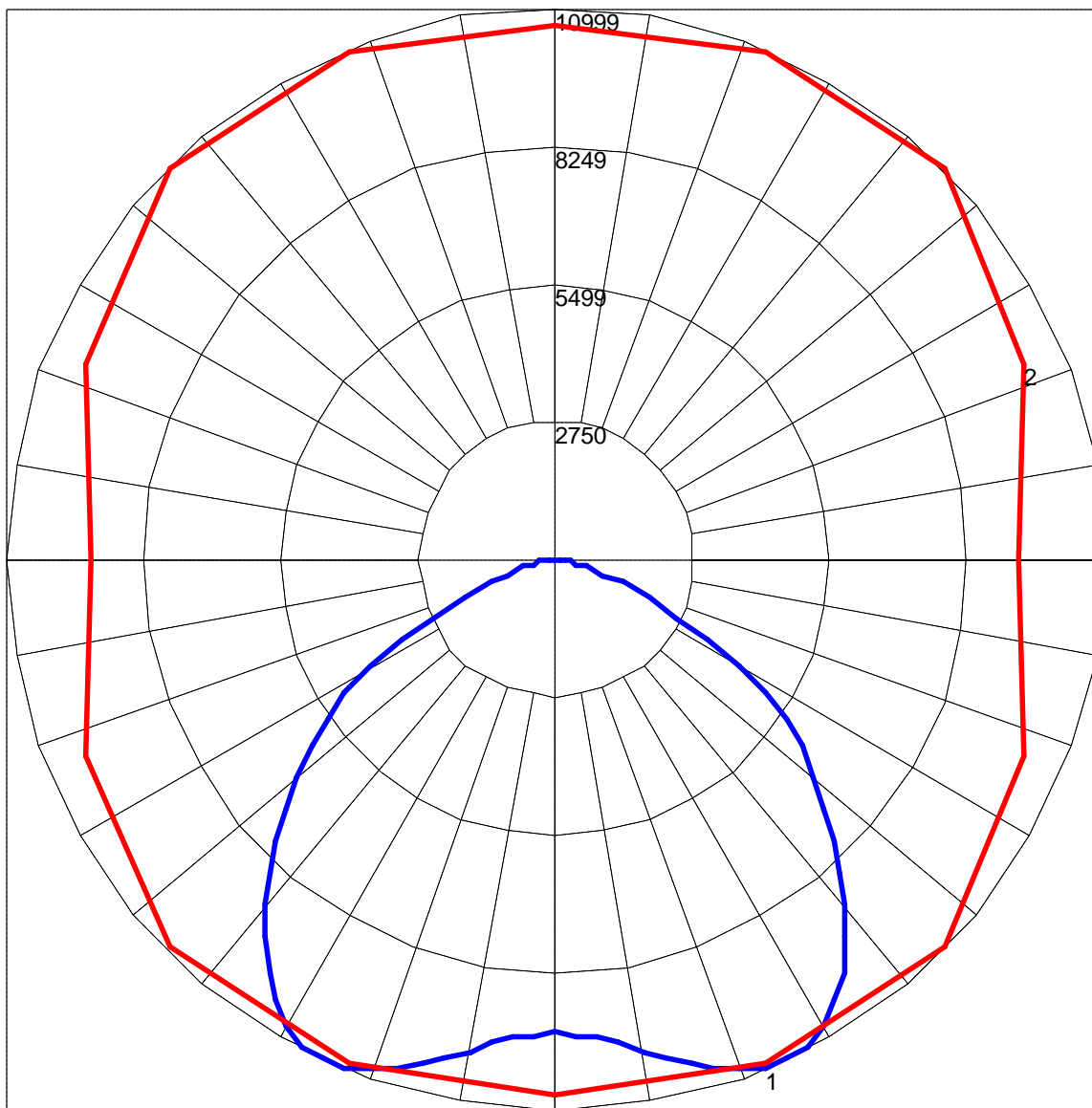
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 10998.623 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.)