



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-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-18L-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	17512
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	131
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	18416	19580	17223
55	17925	17104	12998
65	16487	11127	6068
75	12551	4352	2358
85	6251	1786	1222

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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	5642.587	5642.587	5642.587	5642.587	5642.587
2.5	5632.810	5685.884	5676.108	5657.951	5642.587
5.0	5652.364	5720.801	5736.165	5741.751	5736.165
7.5	5684.488	5772.478	5836.726	5871.643	5873.039
10.0	5722.198	5847.899	5956.840	6007.121	6018.294
12.5	5759.908	5927.510	6088.128	6150.979	6173.326
15.0	5786.445	6015.501	6226.399	6299.027	6317.184
17.5	5773.875	6071.368	6360.481	6430.315	6448.472
20.0	5729.181	6103.492	6473.612	6537.859	6508.529
22.5	5653.761	6099.302	6556.016	6569.983	6501.545
25.0	5547.613	6067.178	6576.966	6529.479	6388.414
27.5	5412.135	6007.121	6526.686	6396.794	6181.706
30.0	5262.690	5917.733	6417.745	6173.326	5910.750
32.5	5118.832	5814.379	6234.780	5882.816	5586.720
35.0	4993.131	5724.991	5995.947	5530.853	5240.343
37.5	4864.636	5625.827	5702.644	5167.716	4919.107
40.0	4727.762	5505.713	5402.358	4836.703	4652.341
42.5	4602.061	5356.268	5064.362	4546.193	4402.335
45.0	4440.046	5180.286	4720.778	4264.064	4152.330
47.5	4248.701	4948.437	4375.798	3979.141	3886.960
50.0	4022.438	4669.101	4036.405	3691.425	3560.137
52.5	3773.829	4345.071	3698.409	3308.735	3071.299
55.0	3505.667	3974.951	3345.049	2822.690	2541.958
57.5	3244.488	3540.584	2991.689	2297.539	2023.789
60.0	2980.515	3122.976	2568.495	1807.304	1588.025
62.5	2680.229	2723.526	2081.053	1392.490	1217.905
65.0	2375.753	2335.249	1603.389	1043.320	874.322
67.5	2058.706	1960.939	1195.558	734.654	590.796
70.0	1755.627	1585.232	847.785	495.821	402.244
72.5	1435.787	1220.698	576.829	337.997	282.129
75.0	1107.567	867.338	384.087	241.626	208.105
77.5	807.281	564.259	258.386	171.792	149.445
80.0	553.085	346.377	174.585	115.924	101.958
82.5	332.410	206.709	103.354	71.231	64.247
85.0	185.758	111.734	53.074	40.504	36.314
87.5	83.801	46.090	23.744	19.554	20.950
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	2297.57	N.A.	13.10
0-30	5181.9	N.A.	29.60
0-40	8676.93	N.A.	49.50
0-60	15152.64	N.A.	86.50
0-80	17409.09	N.A.	99.40
0-90	17512.42	N.A.	100.00
10-90	16959.66	N.A.	96.80
20-40	6379.36	N.A.	36.40
20-50	9931.28	N.A.	56.70
40-70	8133.16	N.A.	46.40
60-80	2256.45	N.A.	12.90
70-80	599.01	N.A.	3.40
80-90	103.33	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	17512.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	552.76
10-20	1744.81
20-30	2884.33
30-40	3495.03
40-50	3551.93
50-60	2923.79
60-70	1657.44
70-80	599.01
80-90	103.33
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

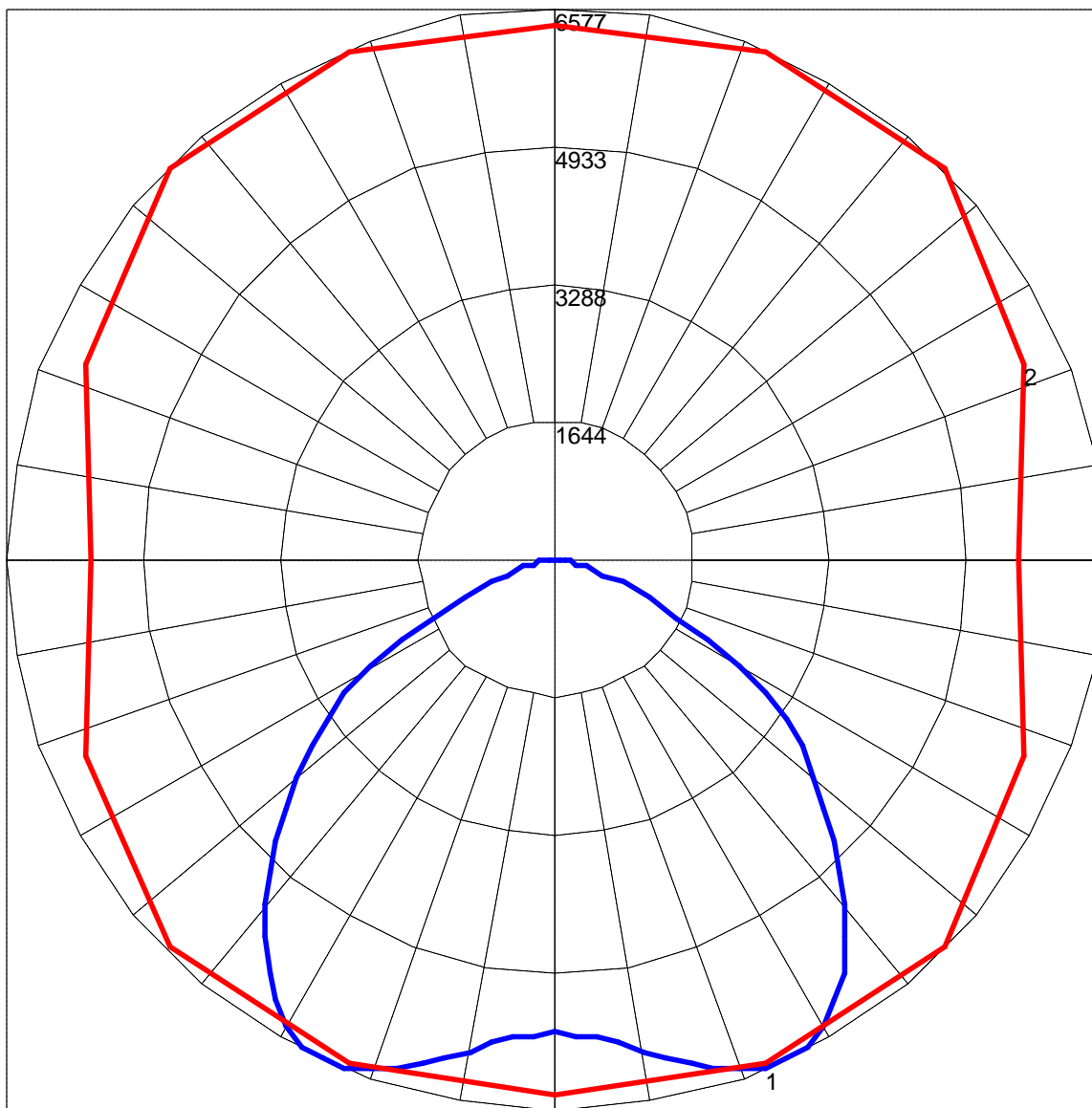
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6576.966 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.)