



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD11-LED-18L-AL-35.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-35  
[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	17794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
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	18712	19896	17500
55	18214	17380	13207
65	16753	11306	6165
75	12753	4422	2396
85	6352	1815	1242

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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	5733.447	5733.447	5733.447	5733.447	5733.447
2.5	5723.513	5777.441	5767.507	5749.058	5733.447
5.0	5743.381	5812.920	5828.531	5834.208	5828.531
7.5	5776.022	5865.430	5930.712	5966.191	5967.610
10.0	5814.340	5942.065	6052.760	6103.850	6115.204
12.5	5852.657	6022.958	6186.162	6250.025	6272.731
15.0	5879.621	6112.365	6326.660	6400.457	6418.906
17.5	5866.849	6169.132	6462.900	6533.859	6552.308
20.0	5821.435	6201.773	6577.853	6643.135	6613.332
22.5	5744.800	6197.515	6661.584	6675.776	6606.236
25.0	5636.943	6164.875	6682.872	6634.620	6491.284
27.5	5499.284	6103.850	6631.782	6499.799	6281.247
30.0	5347.433	6013.023	6521.086	6272.731	6005.928
32.5	5201.258	5908.005	6335.175	5977.544	5676.680
35.0	5073.533	5817.178	6092.497	5619.913	5324.726
37.5	4942.969	5716.417	5794.471	5250.929	4998.317
40.0	4803.891	5594.368	5489.350	4914.586	4727.255
42.5	4676.165	5442.517	5145.910	4619.398	4473.224
45.0	4511.541	5263.702	4796.795	4332.726	4219.192
47.5	4317.115	5028.119	4446.260	4043.215	3949.550
50.0	4087.210	4744.285	4101.401	3750.866	3617.464
52.5	3834.597	4415.038	3757.962	3362.014	3120.755
55.0	3562.117	4038.958	3398.912	2868.143	2582.889
57.5	3296.732	3597.596	3039.862	2334.535	2056.377
60.0	3028.509	3173.264	2609.854	1836.406	1613.596
62.5	2723.387	2767.382	2114.563	1414.913	1237.516
65.0	2414.008	2372.852	1629.207	1060.120	888.400
67.5	2091.857	1992.515	1214.810	746.483	600.309
70.0	1783.897	1610.758	861.436	503.805	408.721
72.5	1458.907	1240.355	586.117	343.439	286.672
75.0	1125.402	881.305	390.272	245.516	211.456
77.5	820.280	573.345	262.546	174.558	151.851
80.0	561.991	351.954	177.396	117.791	103.599
82.5	337.762	210.037	105.019	72.378	65.282
85.0	188.750	113.534	53.928	41.156	36.898
87.5	85.150	46.833	24.126	19.868	21.288
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	2334.57	N.A.	13.10
0-30	5265.34	N.A.	29.60
0-40	8816.65	N.A.	49.50
0-60	15396.64	N.A.	86.50
0-80	17689.42	N.A.	99.40
0-90	17794.42	N.A.	100.00
10-90	17232.75	N.A.	96.80
20-40	6482.08	N.A.	36.40
20-50	10091.2	N.A.	56.70
40-70	8264.12	N.A.	46.40
60-80	2292.78	N.A.	12.90
70-80	608.65	N.A.	3.40
80-90	105.00	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	17794.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	561.67
10-20	1772.9
20-30	2930.77
30-40	3551.31
40-50	3609.12
50-60	2970.87
60-70	1684.13
70-80	608.65
80-90	105.00
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

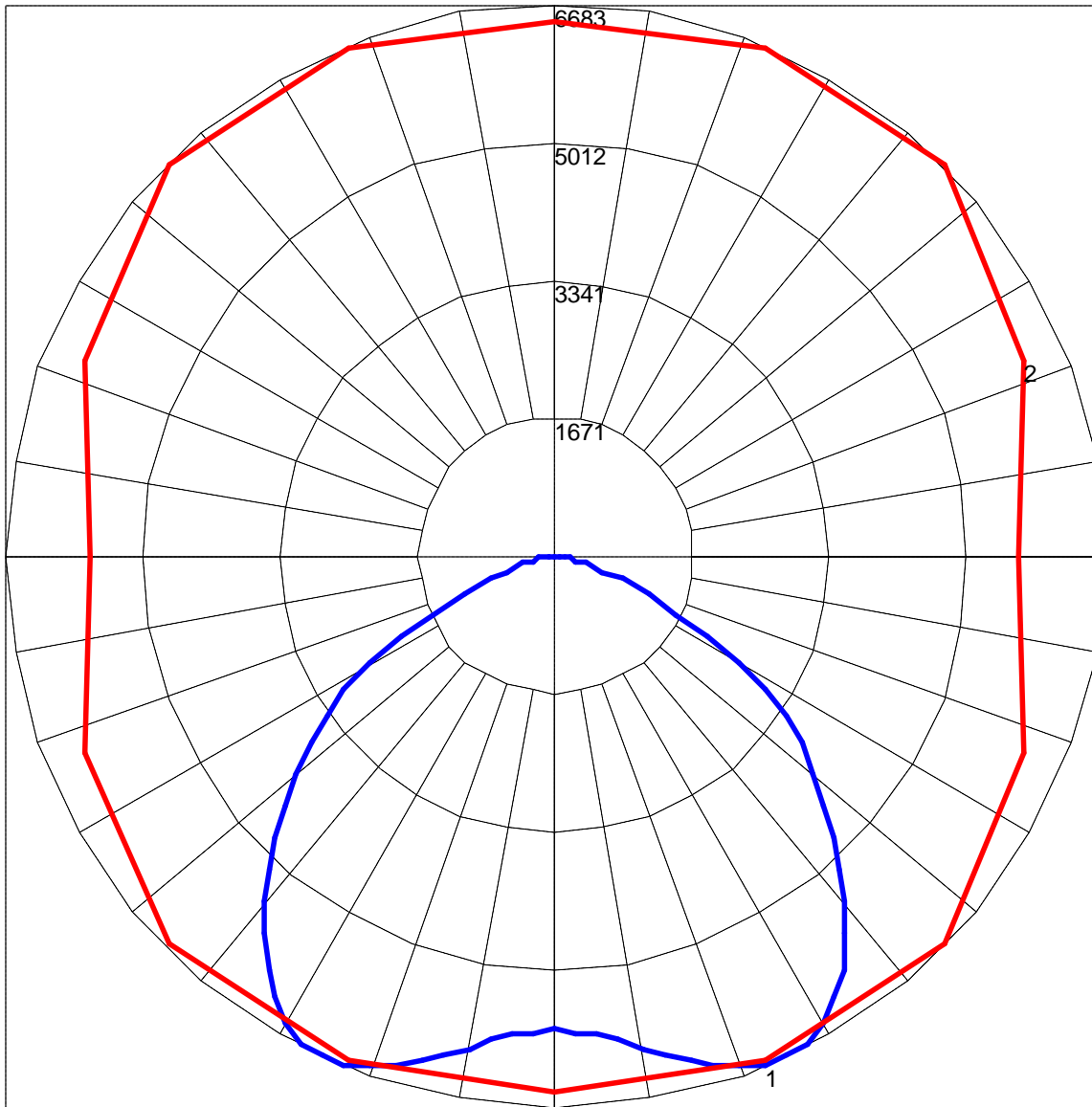
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 6682.872 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.)