



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-LL-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8606R_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-LL-35
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[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	18592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	131
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.50
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	19043	19096	18878
55	19100	19223	19049
65	18733	19077	13995
75	16741	6449	2702
85	11987	4585	4441

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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	5936.513	5936.513	5936.513	5936.513	5936.513
2.5	5935.094	5979.089	5959.221	5933.675	5922.321
5.0	5937.933	5981.928	5960.640	5932.256	5919.483
7.5	5933.675	5980.509	5957.801	5929.417	5912.387
10.0	5920.902	5969.155	5945.029	5915.225	5896.776
12.5	5898.195	5946.448	5920.902	5889.680	5871.230
15.0	5865.553	5918.064	5891.099	5857.038	5837.169
17.5	5827.235	5878.326	5852.781	5814.462	5796.013
20.0	5771.886	5828.654	5801.689	5761.952	5743.502
22.5	5712.280	5763.371	5740.664	5698.088	5679.638
25.0	5638.481	5692.411	5666.865	5624.289	5605.840
27.5	5549.072	5605.840	5583.133	5537.718	5522.107
30.0	5452.566	5510.753	5488.046	5436.955	5419.925
32.5	5341.869	5397.217	5374.510	5323.419	5306.389
35.0	5218.398	5270.909	5249.621	5192.853	5181.499
37.5	5082.155	5133.246	5111.958	5056.609	5039.579
40.0	4930.301	4979.973	4953.008	4903.336	4889.144
42.5	4767.093	4815.345	4786.961	4735.870	4725.936
45.0	4591.112	4633.688	4603.885	4561.309	4551.374
47.5	4402.358	4440.677	4410.873	4372.555	4365.459
50.0	4192.317	4229.216	4210.766	4175.286	4166.771
52.5	3976.598	4004.982	3985.113	3956.729	3956.729
55.0	3735.334	3776.491	3759.461	3735.334	3725.400
57.5	3495.489	3538.065	3525.293	3504.005	3492.651
60.0	3242.872	3286.867	3278.352	3251.387	3193.200
62.5	2976.062	3021.477	3020.057	2861.107	2551.721
65.0	2699.318	2747.571	2748.990	2259.366	2016.683
67.5	2409.802	2456.635	2450.958	1687.429	1282.957
70.0	2101.835	2142.992	1863.410	905.450	621.610
72.5	1783.934	1836.445	1305.664	479.690	275.325
75.0	1477.387	1532.736	569.099	228.491	238.426
77.5	1165.163	1226.189	235.587	224.234	231.330
80.0	875.646	743.661	183.077	208.622	217.138
82.5	601.741	258.294	170.304	183.077	184.496
85.0	356.219	119.213	136.243	134.824	131.986
87.5	158.950	85.152	76.637	76.637	78.056
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	2230.12	N.A.	12.00
0-30	4837.43	N.A.	26.00
0-40	8109.53	N.A.	43.60
0-60	15001.53	N.A.	80.70
0-80	18399.46	N.A.	99.00
0-90	18592.41	N.A.	100.00
10-90	18024.87	N.A.	96.90
20-40	5879.41	N.A.	31.60
20-50	9421.16	N.A.	50.70
40-70	9355.4	N.A.	50.30
60-80	3397.93	N.A.	18.30
70-80	934.53	N.A.	5.00
80-90	192.95	N.A.	1.00
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	18592.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	567.54
10-20	1662.58
20-30	2607.31
30-40	3272.1
40-50	3541.75
50-60	3350.26
60-70	2463.4
70-80	934.53
80-90	192.95
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

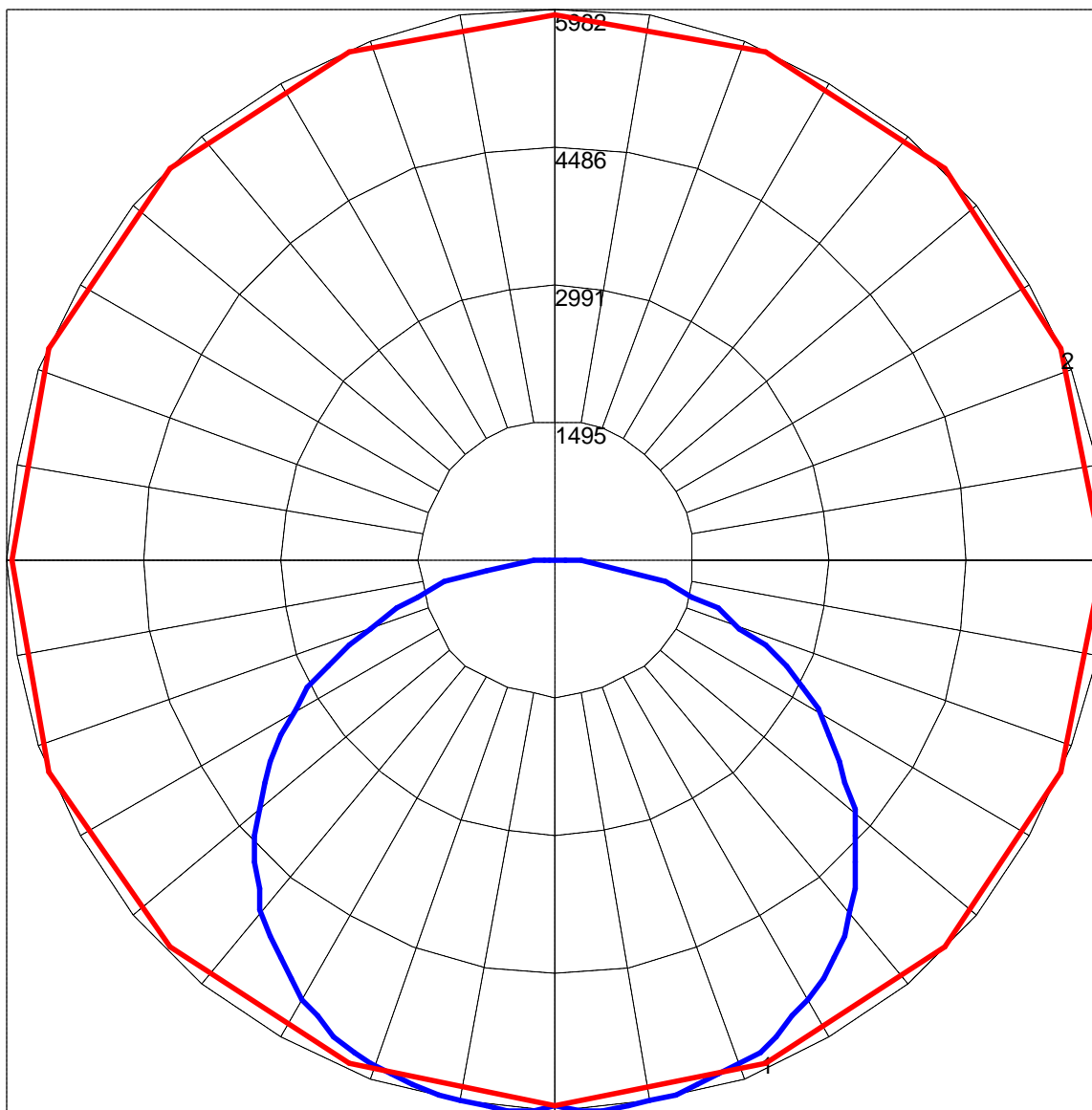
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 5981.928 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)