



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-120L-FL-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9829_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]03/01/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL8-LED-120L-FL-30
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11833
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	89.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14946	9855	9277
55	14209	8650	8281
65	12969	7431	7348
75	10981	6335	6478
85	7129	5271	5264

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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	2959.439	2959.439	2959.439	2959.439	2959.439
2.5	2971.243	2974.616	2961.125	2957.753	2969.557
5.0	2969.557	2972.929	2962.812	2961.125	2971.243
7.5	2961.125	2966.184	2956.066	2961.125	2969.557
10.0	2945.949	2952.694	2947.635	2954.380	2967.870
12.5	2922.341	2930.772	2932.458	2945.949	2961.125
15.0	2893.674	2905.478	2912.223	2934.145	2945.949
17.5	2856.575	2871.752	2885.242	2913.909	2932.458
20.0	2814.418	2832.967	2854.889	2890.301	2910.537
22.5	2765.516	2787.437	2819.477	2861.634	2885.242
25.0	2708.182	2731.790	2777.320	2826.222	2854.889
27.5	2645.789	2674.456	2726.731	2787.437	2821.163
30.0	2574.965	2607.004	2671.083	2743.594	2777.320
32.5	2495.709	2536.180	2612.063	2693.005	2731.790
35.0	2413.081	2458.611	2547.984	2637.358	2681.201
37.5	2323.708	2374.296	2477.160	2578.337	2627.240
40.0	2227.589	2283.237	2402.963	2514.258	2568.220
42.5	2129.784	2192.177	2323.708	2443.434	2505.827
45.0	2026.921	2096.059	2241.079	2374.296	2440.062
47.5	1920.684	1996.567	2155.079	2296.727	2365.865
50.0	1809.389	1895.390	2065.705	2222.530	2293.354
52.5	1709.898	1785.781	1974.646	2143.275	2220.844
55.0	1583.426	1684.604	1883.586	2064.019	2144.961
57.5	1463.700	1568.250	1785.781	1983.077	2065.705
60.0	1347.346	1455.268	1686.290	1898.763	1984.763
62.5	1214.129	1343.973	1591.858	1814.448	1900.449
65.0	1087.657	1229.305	1497.426	1725.075	1816.134
67.5	961.185	1118.010	1402.993	1635.701	1721.702
70.0	841.459	1011.774	1310.247	1548.014	1637.388
72.5	713.301	900.479	1219.188	1462.013	1554.759
75.0	590.202	800.988	1134.873	1382.758	1475.504
77.5	465.416	703.183	1050.559	1301.816	1392.876
80.0	352.435	612.123	967.930	1217.501	1310.247
82.5	244.512	526.122	886.989	1128.128	1212.443
85.0	156.825	451.926	797.615	996.597	1060.676
87.5	87.687	377.729	657.653	802.674	843.145
90.0	43.844	283.297	485.652	598.633	637.418
92.5	23.608	224.277	399.651	492.397	522.750
95.0	15.177	192.237	359.180	453.612	485.652
97.5	11.804	165.256	330.513	419.886	451.926
100.0	8.431	155.139	311.964	394.592	426.631
102.5	8.431	133.217	325.454	376.043	403.023
105.0	6.745	114.668	345.689	397.964	406.396
107.5	6.745	96.119	313.650	462.043	478.906
110.0	5.059	82.628	278.238	456.985	524.436
112.5	5.059	69.138	251.257	414.827	483.965
115.0	5.059	59.020	224.277	374.356	438.435
117.5	5.059	50.589	198.982	340.631	401.337
120.0	5.059	42.157	175.374	305.218	362.552
122.5	5.059	35.412	151.766	273.179	323.768
125.0	5.059	30.353	133.217	242.826	288.356
127.5	5.059	25.294	114.668	214.159	256.316
130.0	5.059	21.922	97.805	185.492	225.963
132.5	5.059	18.549	82.628	161.884	197.296

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CANDELA TABULATION - (Cont.)

135.0	5.059	15.177	67.452	138.276	172.002
137.5	5.059	13.490	57.334	116.354	145.021
140.0	5.059	10.118	48.902	96.119	119.727
142.5	5.059	8.431	40.471	79.256	97.805
145.0	5.059	6.745	32.040	64.079	80.942
147.5	5.059	6.745	26.981	52.275	65.765
150.0	5.059	5.059	20.235	42.157	52.275
152.5	5.059	5.059	15.177	32.040	40.471
155.0	5.059	5.059	10.118	23.608	30.353
157.5	5.059	5.059	8.431	16.863	23.608
160.0	5.059	5.059	6.745	11.804	15.177
162.5	5.059	5.059	5.059	8.431	10.118
165.0	5.059	5.059	5.059	5.059	6.745
167.5	5.059	5.059	5.059	3.373	5.059
170.0	5.059	5.059	5.059	3.373	5.059
172.5	5.059	5.059	3.373	3.373	3.373
175.0	5.059	5.059	3.373	3.373	3.373
177.5	5.059	5.059	3.373	3.373	3.373
180.0	3.373	3.373	3.373	3.373	3.373

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1107.22	N.A.	9.40
0-30	2389.22	N.A.	20.20
0-40	3983.81	N.A.	33.70
0-60	7385.08	N.A.	62.40
0-80	9998.17	N.A.	84.50
0-90	10754.26	N.A.	90.90
10-90	10471.54	N.A.	88.50
20-40	2876.59	N.A.	24.30
20-50	4602.44	N.A.	38.90
40-70	4863.91	N.A.	41.10
60-80	2613.1	N.A.	22.10
70-80	1150.45	N.A.	9.70
80-90	756.08	N.A.	6.40
90-110	638.14	N.A.	5.40
90-120	858.79	N.A.	7.30
90-130	984.23	N.A.	8.30
90-150	1069.58	N.A.	9.00
90-180	1078.85	N.A.	9.10
110-180	440.70	N.A.	3.70
0-180	11833.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	282.71
10-20	824.51
20-30	1282.00
30-40	1594.6
40-50	1725.84
50-60	1675.42
60-70	1462.65
70-80	1150.45
80-90	756.08
90-100	353.83
100-110	284.31
110-120	220.65
120-130	125.44
130-140	61.28
140-150	24.07
150-160	7.18
160-170	1.68
170-180	0.39

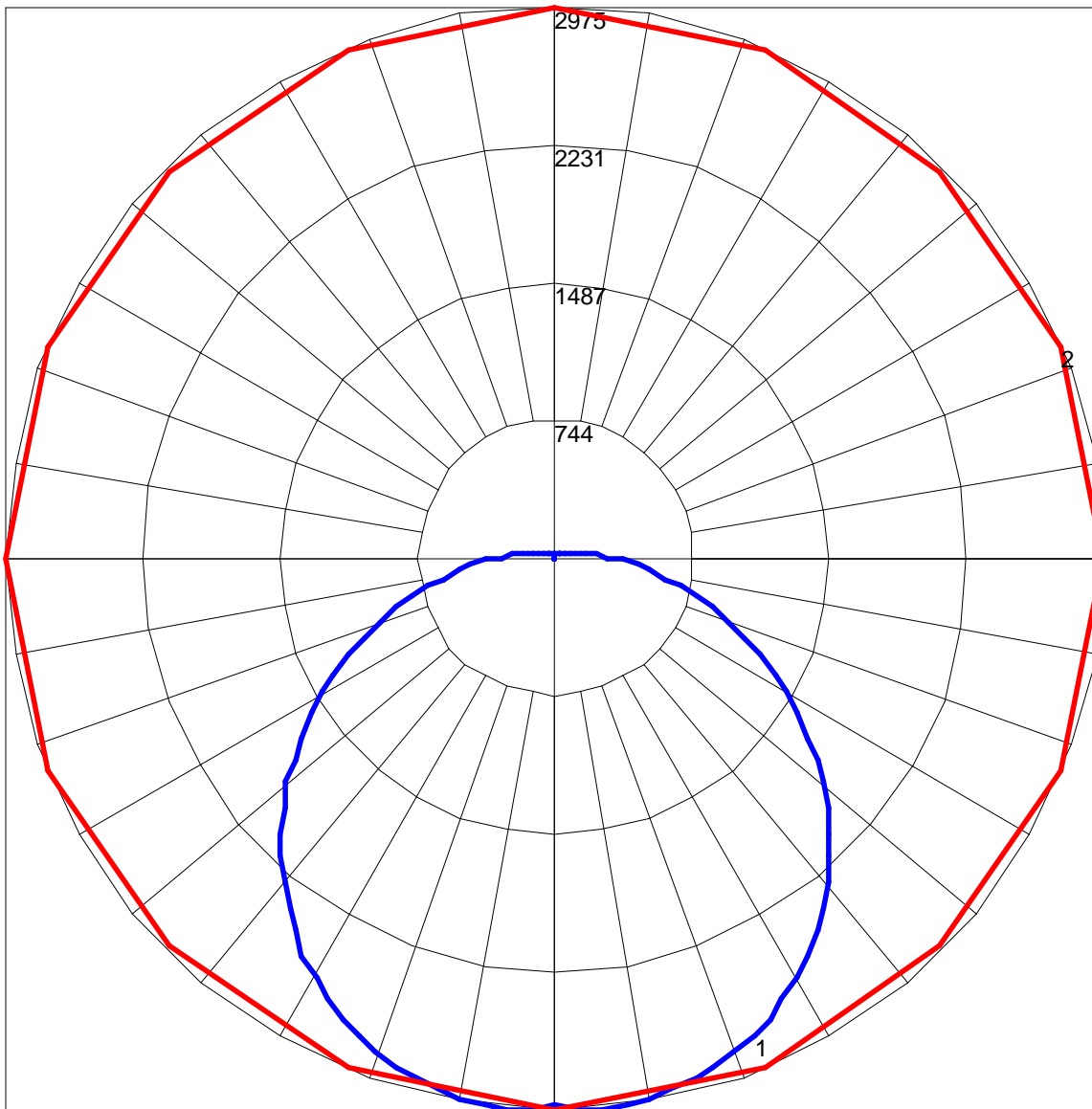
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	104	98	93	88	100	95	90	86	89	85	82	84	80	77	78	76	74	71
2	94	84	76	70	90	82	74	68	76	70	65	72	67	63	67	63	60	57
3	85	73	64	57	81	71	63	56	67	59	54	62	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39
5	71	57	48	41	68	55	47	40	52	45	39	49	43	37	46	41	36	34
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23
9	52	38	30	24	50	38	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 2974.616 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)