



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-100L-FL-50.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-100L-FL-50
[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	10727
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	72.9
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	13549	8934	8410
55	12881	7841	7507
65	11757	6736	6661
75	9954	5743	5872
85	6462	4779	4772

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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	2682.833	2682.833	2682.833	2682.833	2682.833
2.5	2693.534	2696.591	2684.362	2681.305	2692.005
5.0	2692.005	2695.063	2685.891	2684.362	2693.534
7.5	2684.362	2688.948	2679.776	2684.362	2692.005
10.0	2670.604	2676.719	2672.133	2678.247	2690.477
12.5	2649.202	2656.846	2658.374	2670.604	2684.362
15.0	2623.215	2633.916	2640.030	2659.903	2670.604
17.5	2589.584	2603.342	2615.571	2641.559	2658.374
20.0	2551.367	2568.182	2588.055	2620.157	2638.502
22.5	2507.035	2526.908	2555.953	2594.170	2615.571
25.0	2455.060	2476.462	2517.736	2562.068	2588.055
27.5	2398.499	2424.486	2471.876	2526.908	2557.482
30.0	2334.294	2363.339	2421.429	2487.162	2517.736
32.5	2262.446	2299.135	2367.925	2441.302	2476.462
35.0	2187.541	2228.815	2309.835	2390.855	2430.601
37.5	2106.521	2152.381	2245.631	2337.352	2381.683
40.0	2019.386	2069.833	2178.369	2279.262	2328.180
42.5	1930.723	1987.284	2106.521	2215.057	2271.618
45.0	1837.473	1900.149	2031.616	2152.381	2212.000
47.5	1741.166	1809.957	1953.653	2082.062	2144.738
50.0	1640.274	1718.236	1872.633	2014.800	2079.005
52.5	1550.081	1618.872	1790.084	1942.952	2013.272
55.0	1435.430	1527.151	1707.536	1871.104	1944.481
57.5	1326.894	1421.672	1618.872	1797.728	1872.633
60.0	1221.415	1319.251	1528.680	1721.294	1799.256
62.5	1100.650	1218.358	1443.074	1644.860	1722.822
65.0	985.999	1114.408	1357.468	1563.840	1646.388
67.5	871.348	1013.515	1271.862	1482.820	1560.782
70.0	762.811	917.208	1187.784	1403.328	1484.348
72.5	646.632	816.315	1105.236	1325.366	1409.443
75.0	535.038	726.123	1028.802	1253.518	1337.595
77.5	421.916	637.460	952.368	1180.141	1262.690
80.0	319.494	554.911	877.462	1103.707	1187.784
82.5	221.659	476.948	804.086	1022.687	1099.121
85.0	142.167	409.686	723.066	903.450	961.540
87.5	79.491	342.424	596.185	727.652	764.340
90.0	39.746	256.818	440.260	542.681	577.841
92.5	21.402	203.314	362.297	446.375	473.891
95.0	13.758	174.270	325.609	411.215	440.260
97.5	10.701	149.811	299.621	380.641	409.686
100.0	7.643	140.639	282.806	357.711	386.756
102.5	7.643	120.766	295.035	340.896	365.355
105.0	6.115	103.950	313.379	360.768	368.412
107.5	6.115	87.135	284.334	418.858	434.145
110.0	4.586	74.905	252.232	414.272	475.419
112.5	4.586	62.676	227.773	376.055	438.731
115.0	4.586	53.504	203.314	339.367	397.457
117.5	4.586	45.860	180.384	308.793	363.826
120.0	4.586	38.217	158.983	276.691	328.666
122.5	4.586	32.102	137.581	247.646	293.507
125.0	4.586	27.516	120.766	220.130	261.404
127.5	4.586	22.930	103.950	194.142	232.359
130.0	4.586	19.873	88.663	168.155	204.843
132.5	4.586	16.815	74.905	146.753	178.856

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CANDELA TABULATION - (Cont.)

135.0	4.586	13.758	61.147	125.352	155.925
137.5	4.586	12.229	51.975	105.479	131.466
140.0	4.586	9.172	44.332	87.135	108.536
142.5	4.586	7.643	36.688	71.848	88.663
145.0	4.586	6.115	29.045	58.090	73.377
147.5	4.586	6.115	24.459	47.389	59.619
150.0	4.586	4.586	18.344	38.217	47.389
152.5	4.586	4.586	13.758	29.045	36.688
155.0	4.586	4.586	9.172	21.402	27.516
157.5	4.586	4.586	7.643	15.287	21.402
160.0	4.586	4.586	6.115	10.701	13.758
162.5	4.586	4.586	4.586	7.643	9.172
165.0	4.586	4.586	4.586	4.586	6.115
167.5	4.586	4.586	4.586	3.057	4.586
170.0	4.586	4.586	4.586	3.057	4.586
172.5	4.586	4.586	3.057	3.057	3.057
175.0	4.586	4.586	3.057	3.057	3.057
177.5	4.586	4.586	3.057	3.057	3.057
180.0	3.057	3.057	3.057	3.057	3.057

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1003.73	N.A.	9.40
0-30	2165.91	N.A.	20.20
0-40	3611.46	N.A.	33.70
0-60	6694.83	N.A.	62.40
0-80	9063.69	N.A.	84.50
0-90	9749.1	N.A.	90.90
10-90	9492.82	N.A.	88.50
20-40	2607.73	N.A.	24.30
20-50	4172.27	N.A.	38.90
40-70	4409.31	N.A.	41.10
60-80	2368.86	N.A.	22.10
70-80	1042.92	N.A.	9.70
80-90	685.41	N.A.	6.40
90-110	578.50	N.A.	5.40
90-120	778.52	N.A.	7.30
90-130	892.24	N.A.	8.30
90-150	969.61	N.A.	9.00
90-180	978.01	N.A.	9.10
110-180	399.51	N.A.	3.70
0-180	10727.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	256.29
10-20	747.45
20-30	1162.17
30-40	1445.56
40-50	1564.54
50-60	1518.83
60-70	1325.94
70-80	1042.92
80-90	685.41
90-100	320.76
100-110	257.74
110-120	200.03
120-130	113.72
130-140	55.56
140-150	21.82
150-160	6.51
160-170	1.53
170-180	0.36

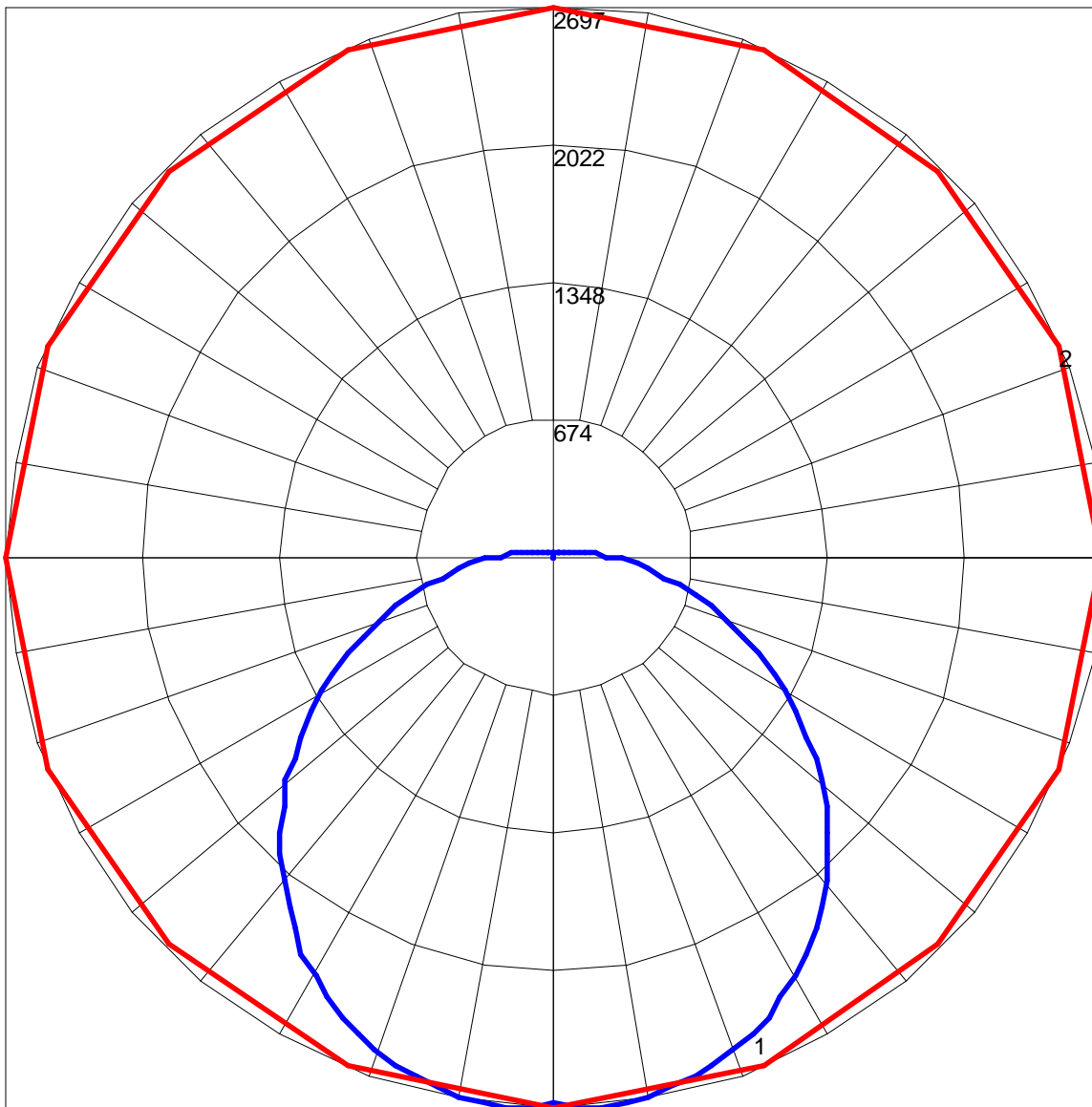
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2696.591 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.)