



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-100L-FL-35.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-35
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10168
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	12843	8468	7972
55	12210	7433	7116
65	11144	6385	6314
75	9436	5444	5566
85	6126	4530	4524

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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	2543.030	2543.030	2543.030	2543.030	2543.030
2.5	2553.173	2556.071	2544.479	2541.581	2551.724
5.0	2551.724	2554.622	2545.928	2544.479	2553.173
7.5	2544.479	2548.826	2540.132	2544.479	2551.724
10.0	2531.438	2537.234	2532.887	2538.683	2550.275
12.5	2511.152	2518.397	2519.846	2531.438	2544.479
15.0	2486.518	2496.662	2502.458	2521.295	2531.438
17.5	2454.640	2467.681	2479.273	2503.907	2519.846
20.0	2418.414	2434.354	2453.191	2483.620	2501.009
22.5	2376.393	2395.230	2422.761	2458.987	2479.273
25.0	2327.126	2347.412	2386.536	2428.558	2453.191
27.5	2273.512	2298.146	2343.065	2395.230	2424.211
30.0	2212.654	2240.185	2295.248	2357.556	2386.536
32.5	2144.550	2179.326	2244.532	2314.085	2347.412
35.0	2073.548	2112.671	2189.469	2266.267	2303.942
37.5	1996.750	2040.220	2128.610	2215.552	2257.573
40.0	1914.155	1961.973	2064.854	2160.489	2206.858
42.5	1830.112	1883.726	1996.750	2099.630	2153.244
45.0	1741.722	1801.132	1925.748	2040.220	2096.732
47.5	1650.434	1715.640	1851.848	1973.565	2032.975
50.0	1554.798	1628.699	1775.050	1909.808	1970.667
52.5	1469.306	1534.512	1696.802	1841.704	1908.359
55.0	1360.630	1447.571	1618.555	1773.601	1843.153
57.5	1257.749	1347.589	1534.512	1704.048	1775.050
60.0	1157.767	1250.504	1449.020	1631.597	1705.497
62.5	1043.294	1154.869	1367.875	1559.146	1633.046
65.0	934.618	1056.336	1286.730	1482.347	1560.595
67.5	825.941	960.700	1205.585	1405.549	1479.449
70.0	723.061	869.412	1125.889	1330.200	1406.998
72.5	612.935	773.777	1047.641	1256.300	1335.996
75.0	507.157	688.285	975.190	1188.196	1267.893
77.5	399.930	604.241	902.739	1118.643	1196.891
80.0	302.845	525.994	831.737	1046.192	1125.889
82.5	210.108	452.094	762.185	969.394	1041.845
85.0	134.759	388.337	685.386	856.371	911.434
87.5	75.349	324.580	565.118	689.734	724.510
90.0	37.675	243.435	417.318	514.402	547.730
92.5	20.286	192.720	343.418	423.114	449.196
95.0	13.041	165.188	308.641	389.786	417.318
97.5	10.143	142.004	284.008	360.806	388.337
100.0	7.245	133.310	268.069	339.071	366.602
102.5	7.245	114.473	279.661	323.131	346.316
105.0	5.796	98.533	297.049	341.969	349.214
107.5	5.796	82.594	269.518	397.031	411.522
110.0	4.347	71.002	239.088	392.684	450.645
112.5	4.347	59.410	215.904	356.459	415.869
115.0	4.347	50.716	192.720	321.682	376.745
117.5	4.347	43.471	170.984	292.702	344.867
120.0	4.347	36.226	150.698	262.273	311.539
122.5	4.347	30.429	130.412	234.741	278.212
125.0	4.347	26.082	114.473	208.659	247.782
127.5	4.347	21.735	98.533	184.026	220.251
130.0	4.347	18.837	84.043	159.392	194.169
132.5	4.347	15.939	71.002	139.106	169.535

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CANDELA TABULATION - (Cont.)

135.0	4.347	13.041	57.961	118.820	147.800
137.5	4.347	11.592	49.267	99.982	124.616
140.0	4.347	8.694	42.022	82.594	102.880
142.5	4.347	7.245	34.776	68.104	84.043
145.0	4.347	5.796	27.531	55.063	69.553
147.5	4.347	5.796	23.184	44.920	56.512
150.0	4.347	4.347	17.388	36.226	44.920
152.5	4.347	4.347	13.041	27.531	34.776
155.0	4.347	4.347	8.694	20.286	26.082
157.5	4.347	4.347	7.245	14.490	20.286
160.0	4.347	4.347	5.796	10.143	13.041
162.5	4.347	4.347	4.347	7.245	8.694
165.0	4.347	4.347	4.347	4.347	5.796
167.5	4.347	4.347	4.347	2.898	4.347
170.0	4.347	4.347	4.347	2.898	4.347
172.5	4.347	4.347	2.898	2.898	2.898
175.0	4.347	4.347	2.898	2.898	2.898
177.5	4.347	4.347	2.898	2.898	2.898
180.0	2.898	2.898	2.898	2.898	2.898

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	951.43	N.A.	9.40
0-30	2053.04	N.A.	20.20
0-40	3423.27	N.A.	33.70
0-60	6345.96	N.A.	62.40
0-80	8591.38	N.A.	84.50
0-90	9241.07	N.A.	90.90
10-90	8998.14	N.A.	88.50
20-40	2471.84	N.A.	24.30
20-50	3954.85	N.A.	38.90
40-70	4179.54	N.A.	41.10
60-80	2245.42	N.A.	22.10
70-80	988.57	N.A.	9.70
80-90	649.70	N.A.	6.40
90-110	548.35	N.A.	5.40
90-120	737.95	N.A.	7.30
90-130	845.75	N.A.	8.30
90-150	919.09	N.A.	9.00
90-180	927.05	N.A.	9.10
110-180	378.69	N.A.	3.70
0-180	10168.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	242.93
10-20	708.50
20-30	1101.61
30-40	1370.23
40-50	1483.01
50-60	1439.68
60-70	1256.85
70-80	988.57
80-90	649.70
90-100	304.04
100-110	244.31
110-120	189.60
120-130	107.79
130-140	52.66
140-150	20.68
150-160	6.17
160-170	1.45
170-180	0.34

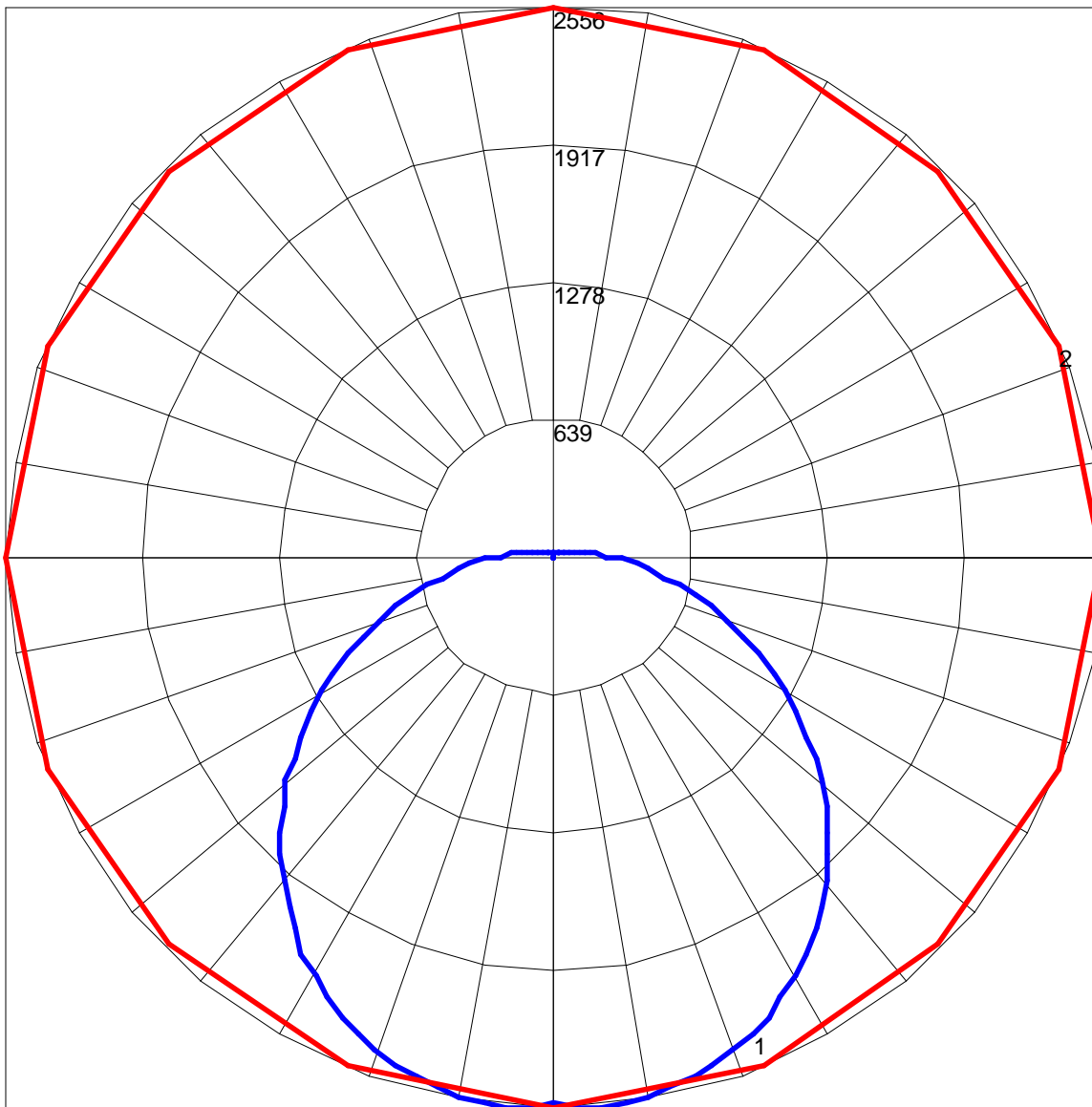
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2556.071 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.)