



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL8-LED-100L-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-100L-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\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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	12389	8169	7690
55	11779	7170	6865
65	10751	6160	6091
75	9103	5252	5370
85	5909	4370	4364

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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>
<b>0.0</b>	2453.244	2453.244	2453.244	2453.244	2453.244
<b>2.5</b>	2463.029	2465.825	2454.642	2451.847	2461.632
<b>5.0</b>	2461.632	2464.427	2456.040	2454.642	2463.029
<b>7.5</b>	2454.642	2458.836	2450.449	2454.642	2461.632
<b>10.0</b>	2442.062	2447.653	2443.459	2449.051	2460.234
<b>12.5</b>	2422.491	2429.481	2430.879	2442.062	2454.642
<b>15.0</b>	2398.728	2408.513	2414.104	2432.276	2442.062
<b>17.5</b>	2367.975	2380.556	2391.739	2415.502	2430.879
<b>20.0</b>	2333.028	2348.405	2366.577	2395.932	2412.706
<b>22.5</b>	2292.490	2310.663	2337.222	2372.169	2391.739
<b>25.0</b>	2244.963	2264.533	2302.276	2342.813	2366.577
<b>27.5</b>	2193.242	2217.006	2260.340	2310.663	2338.620
<b>30.0</b>	2134.532	2161.092	2214.210	2274.318	2302.276
<b>32.5</b>	2068.833	2102.382	2165.285	2232.383	2264.533
<b>35.0</b>	2000.338	2038.080	2112.167	2186.253	2222.597
<b>37.5</b>	1926.251	1968.187	2053.456	2137.328	2177.866
<b>40.0</b>	1846.573	1892.703	1991.951	2084.209	2128.941
<b>42.5</b>	1765.497	1817.218	1926.251	2025.499	2077.220
<b>45.0</b>	1680.228	1737.540	1857.756	1968.187	2022.703
<b>47.5</b>	1592.163	1655.066	1786.465	1903.885	1961.198
<b>50.0</b>	1499.904	1571.195	1712.379	1842.380	1901.090
<b>52.5</b>	1417.430	1480.334	1636.894	1776.680	1840.982
<b>55.0</b>	1312.591	1396.462	1561.410	1710.981	1778.078
<b>57.5</b>	1213.343	1300.010	1480.334	1643.883	1712.379
<b>60.0</b>	1116.890	1206.353	1397.860	1573.990	1645.281
<b>62.5</b>	1006.459	1114.094	1319.580	1504.097	1575.388
<b>65.0</b>	901.620	1019.040	1241.300	1430.011	1505.495
<b>67.5</b>	796.780	926.781	1163.020	1355.924	1427.215
<b>70.0</b>	697.532	838.716	1086.137	1283.236	1357.322
<b>72.5</b>	591.295	746.457	1010.653	1211.945	1288.827
<b>75.0</b>	489.251	663.984	940.760	1146.245	1223.128
<b>77.5</b>	385.809	582.908	870.867	1079.148	1154.632
<b>80.0</b>	292.153	507.423	802.372	1009.255	1086.137
<b>82.5</b>	202.690	436.132	735.274	935.168	1005.061
<b>85.0</b>	130.001	374.626	661.188	826.135	879.254
<b>87.5</b>	72.689	313.121	545.165	665.381	698.930
<b>90.0</b>	36.344	234.840	402.584	496.240	528.391
<b>92.5</b>	19.570	185.915	331.293	408.175	433.337
<b>95.0</b>	12.581	159.356	297.744	376.024	402.584
<b>97.5</b>	9.785	136.990	273.981	348.067	374.626
<b>100.0</b>	6.989	128.603	258.604	327.099	353.659
<b>102.5</b>	6.989	110.431	269.787	311.723	334.089
<b>105.0</b>	5.591	95.054	286.561	329.895	336.884
<b>107.5</b>	5.591	79.678	260.002	383.014	396.992
<b>110.0</b>	4.194	68.495	230.647	378.820	434.734
<b>112.5</b>	4.194	57.312	208.281	343.874	401.186
<b>115.0</b>	4.194	48.925	185.915	310.325	363.444
<b>117.5</b>	4.194	41.936	164.947	282.368	332.691
<b>120.0</b>	4.194	34.947	145.377	253.013	300.540
<b>122.5</b>	4.194	29.355	125.807	226.453	268.389
<b>125.0</b>	4.194	25.161	110.431	201.292	239.034
<b>127.5</b>	4.194	20.968	95.054	177.528	212.475
<b>130.0</b>	4.194	18.172	81.076	153.765	187.313
<b>132.5</b>	4.194	15.376	68.495	134.195	163.550

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**CANDELA TABULATION - (Cont.)**

135.0	4.194	12.581	55.914	114.625	142.582
137.5	4.194	11.183	47.527	96.452	120.216
140.0	4.194	8.387	40.538	79.678	99.248
142.5	4.194	6.989	33.549	65.699	81.076
145.0	4.194	5.591	26.559	53.119	67.097
147.5	4.194	5.591	22.366	43.334	54.517
150.0	4.194	4.194	16.774	34.947	43.334
152.5	4.194	4.194	12.581	26.559	33.549
155.0	4.194	4.194	8.387	19.570	25.161
157.5	4.194	4.194	6.989	13.979	19.570
160.0	4.194	4.194	5.591	9.785	12.581
162.5	4.194	4.194	4.194	6.989	8.387
165.0	4.194	4.194	4.194	4.194	5.591
167.5	4.194	4.194	4.194	2.796	4.194
170.0	4.194	4.194	4.194	2.796	4.194
172.5	4.194	4.194	2.796	2.796	2.796
175.0	4.194	4.194	2.796	2.796	2.796
177.5	4.194	4.194	2.796	2.796	2.796
180.0	2.796	2.796	2.796	2.796	2.796

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	917.84	N.A.	9.40
0-30	1980.56	N.A.	20.20
0-40	3302.41	N.A.	33.70
0-60	6121.9	N.A.	62.40
0-80	8288.05	N.A.	84.50
0-90	8914.8	N.A.	90.90
10-90	8680.45	N.A.	88.50
20-40	2384.57	N.A.	24.30
20-50	3815.22	N.A.	38.90
40-70	4031.97	N.A.	41.10
60-80	2166.14	N.A.	22.10
70-80	953.67	N.A.	9.70
80-90	626.76	N.A.	6.40
90-110	528.99	N.A.	5.40
90-120	711.90	N.A.	7.30
90-130	815.89	N.A.	8.30
90-150	886.64	N.A.	9.00
90-180	894.32	N.A.	9.10
110-180	365.32	N.A.	3.70
0-180	9809.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	234.36
10-20	683.48
20-30	1062.72
30-40	1321.85
40-50	1430.65
50-60	1388.85
60-70	1212.47
70-80	953.67
80-90	626.76
90-100	293.31
100-110	235.68
110-120	182.91
120-130	103.99
130-140	50.80
140-150	19.95
150-160	5.96
160-170	1.40
170-180	0.33

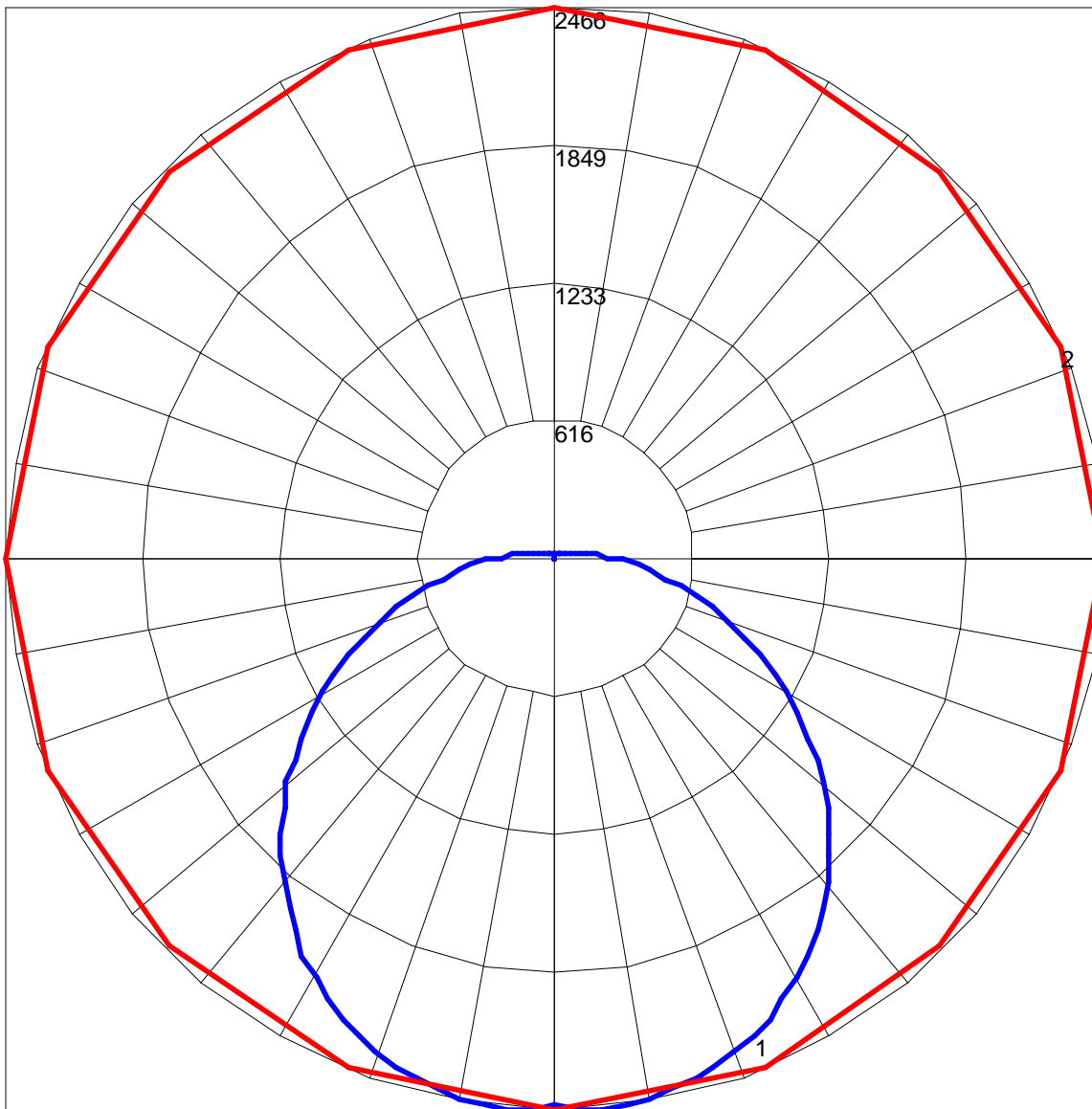
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2465.825 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.)