



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL8-LED-120L-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  
[LUMCAT]SDL8-LED-120L-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	12267
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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	15494	10217	9618
55	14731	8967	8585
65	13445	7704	7618
75	11383	6568	6715
85	7390	5465	5457

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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	3067.986	3067.986	3067.986	3067.986	3067.986
2.5	3080.223	3083.719	3069.734	3066.238	3078.475
5.0	3078.475	3081.971	3071.482	3069.734	3080.223
7.5	3069.734	3074.978	3064.489	3069.734	3078.475
10.0	3054.001	3060.993	3055.749	3062.741	3076.726
12.5	3029.527	3038.267	3040.015	3054.001	3069.734
15.0	2999.808	3012.045	3019.038	3041.764	3054.001
17.5	2961.349	2977.082	2991.068	3020.786	3040.015
20.0	2917.646	2936.875	2959.601	2996.312	3017.290
22.5	2866.950	2889.675	2922.890	2966.594	2991.068
25.0	2807.513	2831.987	2879.187	2929.883	2959.601
27.5	2742.832	2772.550	2826.742	2889.675	2924.638
30.0	2669.410	2702.624	2769.054	2844.224	2879.187
32.5	2587.247	2629.203	2707.869	2791.780	2831.987
35.0	2501.588	2548.788	2641.440	2734.091	2779.543
37.5	2408.937	2461.381	2568.018	2672.906	2723.602
40.0	2309.293	2366.982	2491.099	2606.477	2662.417
42.5	2207.901	2272.582	2408.937	2533.055	2597.736
45.0	2101.264	2172.938	2323.278	2461.381	2529.559
47.5	1991.131	2069.798	2234.123	2380.967	2452.640
50.0	1875.754	1964.909	2141.471	2304.048	2377.470
52.5	1772.614	1851.280	2047.072	2221.886	2302.300
55.0	1641.503	1746.392	1952.672	2139.723	2223.634
57.5	1517.386	1625.770	1851.280	2055.813	2141.471
60.0	1396.764	1508.645	1748.140	1968.406	2057.561
62.5	1258.661	1393.268	1650.244	1880.999	1970.154
65.0	1127.550	1274.394	1552.348	1788.347	1882.747
67.5	996.440	1159.017	1454.452	1695.696	1784.851
70.0	872.322	1048.884	1358.305	1604.792	1697.444
72.5	739.463	933.507	1263.905	1515.637	1611.785
75.0	611.849	830.366	1176.498	1433.475	1529.622
77.5	482.487	728.974	1089.091	1349.564	1443.964
80.0	365.361	634.575	1003.432	1262.157	1358.305
82.5	253.480	545.420	919.522	1169.506	1256.913
85.0	162.577	468.502	826.870	1033.151	1099.580
87.5	90.903	391.583	681.775	832.115	874.070
90.0	45.452	293.688	503.464	620.590	660.797
92.5	24.474	232.503	414.309	510.457	541.923
95.0	15.733	199.288	372.354	470.250	503.464
97.5	12.237	171.318	342.635	435.287	468.502
100.0	8.741	160.829	323.406	409.065	442.279
102.5	8.741	138.103	337.391	389.835	417.805
105.0	6.993	118.874	358.369	412.561	421.302
107.5	6.993	99.644	325.154	478.990	496.472
110.0	5.244	85.659	288.443	473.746	543.672
112.5	5.244	71.674	260.473	430.042	501.716
115.0	5.244	61.185	232.503	388.087	454.516
117.5	5.244	52.444	206.281	353.124	416.057
120.0	5.244	43.703	181.807	316.413	375.850
122.5	5.244	36.711	157.333	283.199	335.643
125.0	5.244	31.467	138.103	251.732	298.932
127.5	5.244	26.222	118.874	222.014	265.717
130.0	5.244	22.726	101.392	192.295	234.251
132.5	5.244	19.230	85.659	167.821	204.532

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	5.244	15.733	69.926	143.347	178.310
<b>137.5</b>	5.244	13.985	59.437	120.622	150.340
<b>140.0</b>	5.244	10.489	50.696	99.644	124.118
<b>142.5</b>	5.244	8.741	41.955	82.163	101.392
<b>145.0</b>	5.244	6.993	33.215	66.429	83.911
<b>147.5</b>	5.244	6.993	27.970	54.192	68.177
<b>150.0</b>	5.244	5.244	20.978	43.703	54.192
<b>152.5</b>	5.244	5.244	15.733	33.215	41.955
<b>155.0</b>	5.244	5.244	10.489	24.474	31.467
<b>157.5</b>	5.244	5.244	8.741	17.481	24.474
<b>160.0</b>	5.244	5.244	6.993	12.237	15.733
<b>162.5</b>	5.244	5.244	5.244	8.741	10.489
<b>165.0</b>	5.244	5.244	5.244	5.244	6.993
<b>167.5</b>	5.244	5.244	5.244	3.496	5.244
<b>170.0</b>	5.244	5.244	5.244	3.496	5.244
<b>172.5</b>	5.244	5.244	3.496	3.496	3.496
<b>175.0</b>	5.244	5.244	3.496	3.496	3.496
<b>177.5</b>	5.244	5.244	3.496	3.496	3.496
<b>180.0</b>	3.496	3.496	3.496	3.496	3.496

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1147.83	N.A.	9.40
0-30	2476.85	N.A.	20.20
0-40	4129.93	N.A.	33.70
0-60	7655.95	N.A.	62.40
0-80	10364.89	N.A.	84.50
0-90	11148.7	N.A.	90.90
10-90	10855.62	N.A.	88.50
20-40	2982.1	N.A.	24.30
20-50	4771.25	N.A.	38.90
40-70	5042.31	N.A.	41.10
60-80	2708.94	N.A.	22.10
70-80	1192.64	N.A.	9.70
80-90	783.81	N.A.	6.40
90-110	661.55	N.A.	5.40
90-120	890.29	N.A.	7.30
90-130	1020.33	N.A.	8.30
90-150	1108.81	N.A.	9.00
90-180	1118.42	N.A.	9.10
110-180	456.87	N.A.	3.70
0-180	12267.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	293.08
10-20	854.75
20-30	1329.02
30-40	1653.08
40-50	1789.14
50-60	1736.87
60-70	1516.3
70-80	1192.64
80-90	783.81
90-100	366.81
100-110	294.74
110-120	228.74
120-130	130.04
130-140	63.53
140-150	24.95
150-160	7.45
160-170	1.74
170-180	0.41

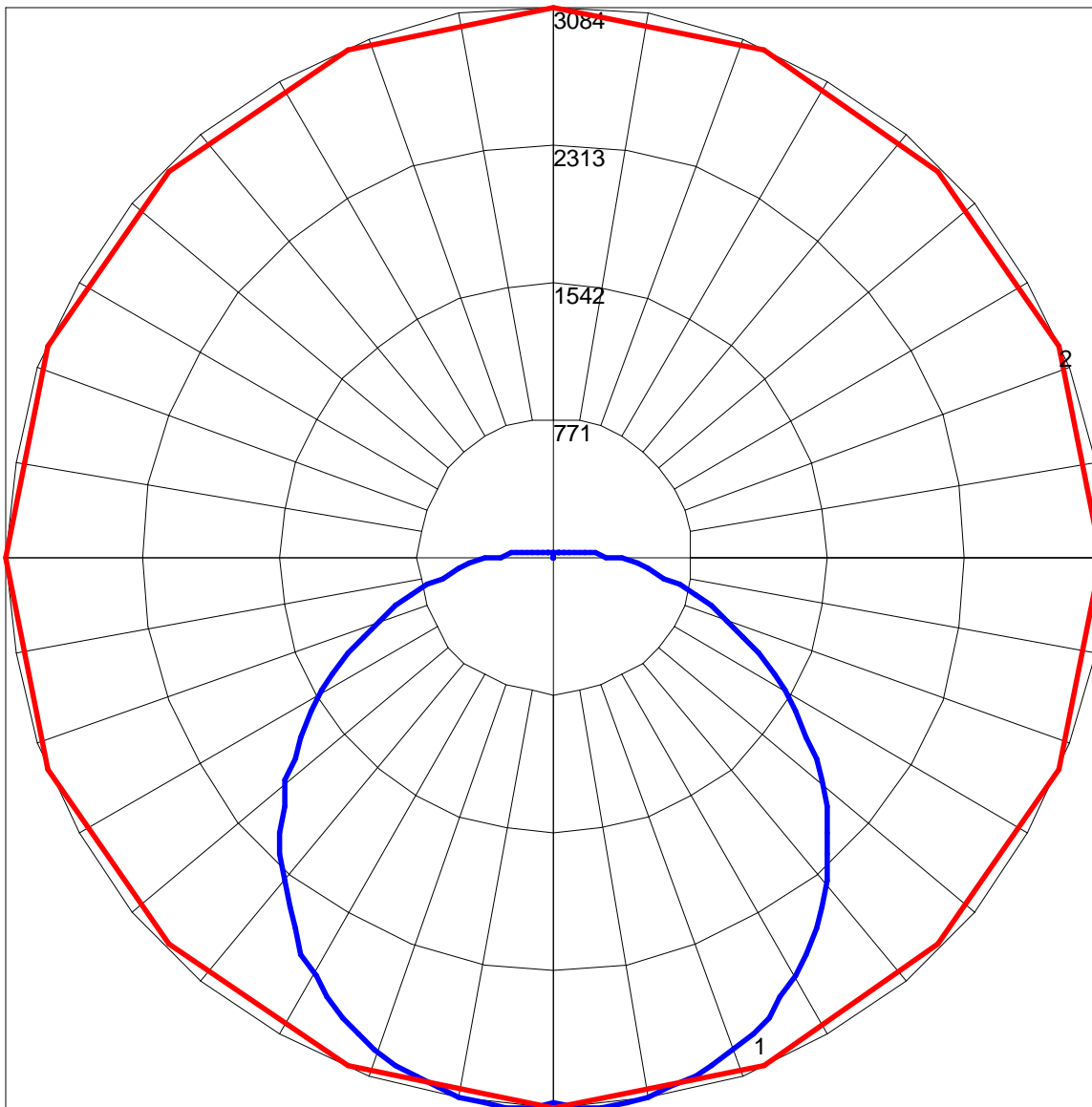
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3083.719 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.)