



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL8-LED-140L-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-140L-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	14283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	106.2
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	18040	11896	11198
55	17151	10440	9996
65	15654	8970	8870
75	13254	7647	7819
85	8605	6363	6354

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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	3572.180	3572.180	3572.180	3572.180	3572.180
2.5	3586.428	3590.498	3574.215	3570.144	3584.392
5.0	3584.392	3588.463	3576.250	3574.215	3586.428
7.5	3574.215	3580.321	3568.109	3574.215	3584.392
10.0	3555.896	3564.038	3557.932	3566.073	3582.357
12.5	3527.400	3537.577	3539.613	3555.896	3574.215
15.0	3492.798	3507.046	3515.188	3541.648	3555.896
17.5	3448.018	3466.337	3482.621	3517.223	3539.613
20.0	3397.133	3419.522	3445.983	3488.727	3513.152
22.5	3338.105	3364.566	3403.239	3454.125	3482.621
25.0	3268.901	3297.397	3352.353	3411.381	3445.983
27.5	3193.590	3228.192	3291.290	3364.566	3405.274
30.0	3108.102	3146.775	3224.121	3311.645	3352.353
32.5	3012.436	3061.287	3152.881	3250.582	3297.397
35.0	2912.700	2967.657	3075.535	3183.412	3236.334
37.5	2804.822	2865.885	2990.047	3112.172	3171.200
40.0	2688.803	2755.972	2900.488	3034.826	3099.960
42.5	2570.748	2646.059	2804.822	2949.338	3024.649
45.0	2446.587	2530.039	2705.086	2865.885	2945.267
47.5	2318.355	2409.949	2601.279	2772.256	2855.708
50.0	2184.016	2287.823	2493.402	2682.697	2768.185
52.5	2063.926	2155.520	2383.488	2587.031	2680.661
55.0	1911.269	2033.395	2273.575	2491.366	2589.067
57.5	1766.753	1892.950	2155.520	2393.666	2493.402
60.0	1626.309	1756.576	2035.430	2291.894	2395.701
62.5	1465.510	1622.238	1921.446	2190.123	2293.930
65.0	1312.852	1483.828	1807.462	2082.245	2192.158
67.5	1160.195	1349.490	1693.478	1974.367	2078.174
70.0	1015.680	1221.258	1581.529	1868.525	1976.402
72.5	860.987	1086.920	1471.616	1764.718	1876.666
75.0	712.400	966.829	1369.844	1669.053	1781.001
77.5	561.779	848.774	1268.073	1571.352	1681.265
80.0	425.405	738.861	1168.337	1469.580	1581.529
82.5	295.137	635.054	1070.636	1361.703	1463.474
85.0	189.295	545.495	962.758	1202.939	1280.285
87.5	105.842	455.936	793.818	968.865	1017.715
90.0	52.921	341.952	586.204	722.578	769.393
92.5	28.496	270.712	482.397	594.346	630.983
95.0	18.319	232.039	433.547	547.531	586.204
97.5	14.248	199.472	398.944	506.822	545.495
100.0	10.177	187.260	376.555	476.291	514.964
102.5	10.177	160.799	392.838	453.901	486.468
105.0	8.142	138.409	417.263	480.361	490.539
107.5	8.142	116.020	378.590	557.708	578.062
110.0	6.106	99.736	335.846	551.602	633.019
112.5	6.106	83.453	303.279	500.716	584.168
115.0	6.106	71.240	270.712	451.865	529.212
117.5	6.106	61.063	240.181	411.157	484.432
120.0	6.106	50.886	211.685	368.413	437.617
122.5	6.106	42.744	183.189	329.740	390.803
125.0	6.106	36.638	160.799	293.102	348.059
127.5	6.106	30.531	138.409	258.500	309.385
130.0	6.106	26.461	118.055	223.897	272.748
132.5	6.106	22.390	99.736	195.401	238.145

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6.106	18.319	81.417	166.905	207.614
<b>137.5</b>	6.106	16.283	69.205	140.445	175.047
<b>140.0</b>	6.106	12.213	59.027	116.020	144.516
<b>142.5</b>	6.106	10.177	48.850	95.665	118.055
<b>145.0</b>	6.106	8.142	38.673	77.346	97.701
<b>147.5</b>	6.106	8.142	32.567	63.098	79.382
<b>150.0</b>	6.106	6.106	24.425	50.886	63.098
<b>152.5</b>	6.106	6.106	18.319	38.673	48.850
<b>155.0</b>	6.106	6.106	12.213	28.496	36.638
<b>157.5</b>	6.106	6.106	10.177	20.354	28.496
<b>160.0</b>	6.106	6.106	8.142	14.248	18.319
<b>162.5</b>	6.106	6.106	6.106	10.177	12.213
<b>165.0</b>	6.106	6.106	6.106	6.106	8.142
<b>167.5</b>	6.106	6.106	6.106	4.071	6.106
<b>170.0</b>	6.106	6.106	6.106	4.071	6.106
<b>172.5</b>	6.106	6.106	4.071	4.071	4.071
<b>175.0</b>	6.106	6.106	4.071	4.071	4.071
<b>177.5</b>	6.106	6.106	4.071	4.071	4.071
<b>180.0</b>	4.071	4.071	4.071	4.071	4.071

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1336.47	N.A.	9.40
0-30	2883.9	N.A.	20.20
0-40	4808.65	N.A.	33.70
0-60	8914.13	N.A.	62.40
0-80	12068.26	N.A.	84.50
0-90	12980.88	N.A.	90.90
10-90	12639.64	N.A.	88.50
20-40	3472.18	N.A.	24.30
20-50	5555.35	N.A.	38.90
40-70	5870.97	N.A.	41.10
60-80	3154.13	N.A.	22.10
70-80	1388.64	N.A.	9.70
80-90	912.62	N.A.	6.40
90-110	770.27	N.A.	5.40
90-120	1036.6	N.A.	7.30
90-130	1188.02	N.A.	8.30
90-150	1291.04	N.A.	9.00
90-180	1302.22	N.A.	9.10
110-180	531.95	N.A.	3.70
0-180	14283.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	341.25
10-20	995.22
20-30	1547.43
30-40	1924.75
40-50	2083.17
50-60	2022.31
60-70	1765.49
70-80	1388.64
80-90	912.62
90-100	427.09
100-110	343.18
110-120	266.33
120-130	151.41
130-140	73.97
140-150	29.05
150-160	8.67
160-170	2.03
170-180	0.48

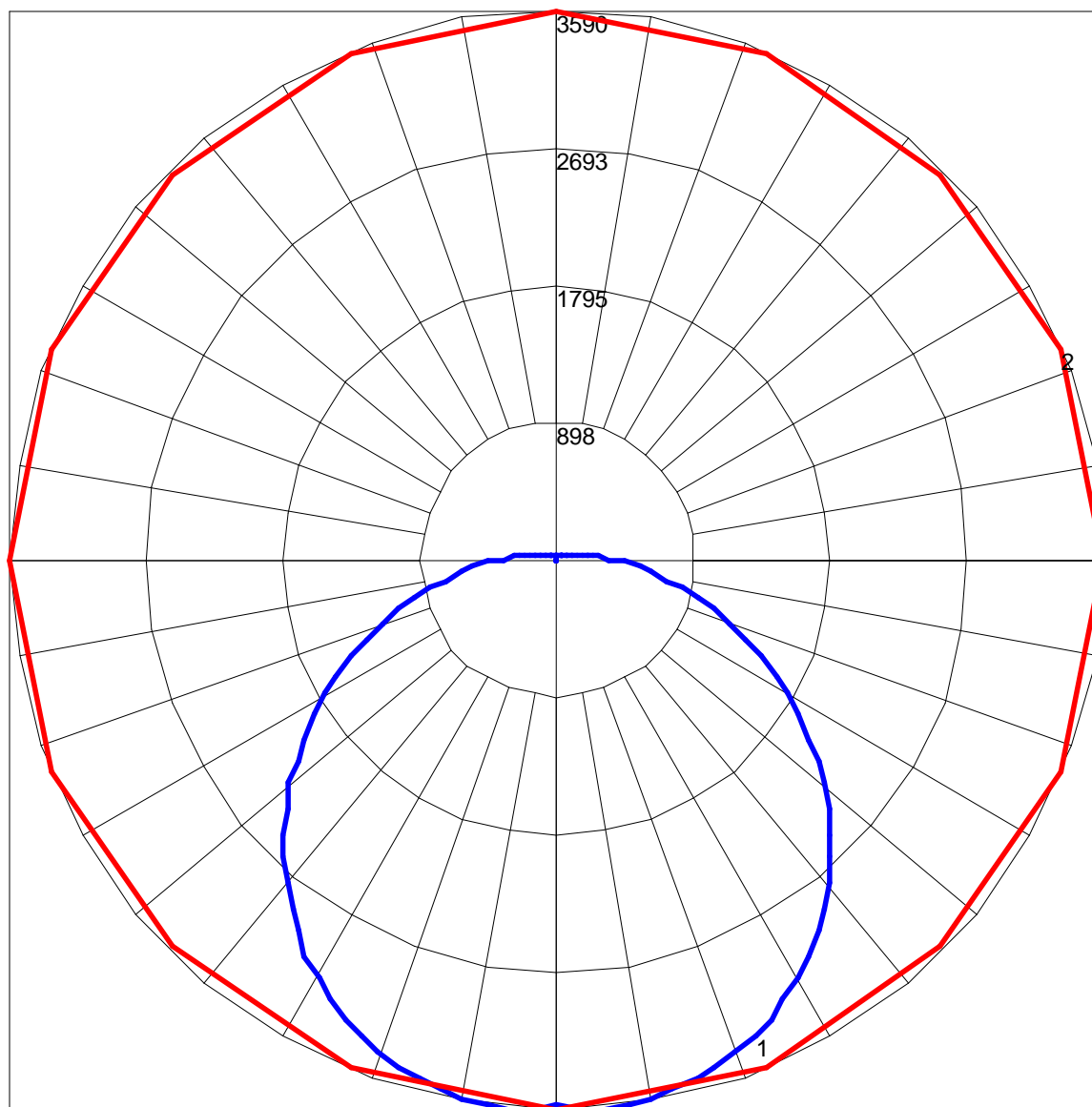
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3590.498 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.)