



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL8-LED-140L-FL-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9821  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]5/11/2018  
[TEST DATE]02/28/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]SDL8-LED-140L-FL-40  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	106.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.42
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	17771	11728	11018
55	16997	10305	9903
65	15584	8893	8768
75	12986	7570	7753
85	7364	6239	6140

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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>	3465	3465	3465	3465	3465
<b>2.5</b>	3481	3480	3469	3465	3476
<b>5.0</b>	3481	3479	3470	3468	3480
<b>7.5</b>	3471	3472	3466	3470	3482
<b>10.0</b>	3455	3457	3457	3466	3480
<b>12.5</b>	3431	3436	3441	3457	3474
<b>15.0</b>	3398	3407	3421	3444	3461
<b>17.5</b>	3358	3370	3394	3423	3447
<b>20.0</b>	3310	3326	3360	3398	3425
<b>22.5</b>	3255	3272	3319	3369	3400
<b>25.0</b>	3188	3212	3273	3332	3368
<b>27.5</b>	3117	3145	3216	3289	3329
<b>30.0</b>	3037	3069	3157	3239	3285
<b>32.5</b>	2945	2987	3091	3182	3235
<b>35.0</b>	2852	2900	3018	3119	3179
<b>37.5</b>	2750	2806	2937	3051	3118
<b>40.0</b>	2642	2706	2852	2977	3050
<b>42.5</b>	2529	2599	2762	2900	2972
<b>45.0</b>	2410	2488	2667	2815	2898
<b>47.5</b>	2286	2370	2566	2730	2820
<b>50.0</b>	2166	2250	2460	2643	2737
<b>52.5</b>	2031	2124	2353	2554	2653
<b>55.0</b>	1894	2001	2244	2462	2565
<b>57.5</b>	1743	1872	2133	2368	2472
<b>60.0</b>	1604	1740	2018	2266	2377
<b>62.5</b>	1456	1608	1908	2163	2273
<b>65.0</b>	1307	1477	1792	2057	2167
<b>67.5</b>	1157	1346	1681	1950	2064
<b>70.0</b>	1005	1212	1572	1848	1963
<b>72.5</b>	847	1083	1463	1748	1865
<b>75.0</b>	698	960	1356	1651	1766
<b>77.5</b>	545	843	1257	1550	1667
<b>80.0</b>	405	735	1156	1450	1561
<b>82.5</b>	276	636	1061	1329	1417
<b>85.0</b>	162	544	944	1164	1237
<b>87.5</b>	74	454	785	948	1005
<b>90.0</b>	24	348	605	755	808
<b>92.5</b>	8	270	466	593	641
<b>95.0</b>	7	229	421	530	567
<b>97.5</b>	7	207	386	490	530
<b>100.0</b>	7	186	369	460	497
<b>102.5</b>	7	155	391	451	481
<b>105.0</b>	7	134	401	484	500
<b>107.5</b>	6	112	375	515	555
<b>110.0</b>	6	94	329	533	573
<b>112.5</b>	6	81	293	486	567
<b>115.0</b>	7	69	261	437	513
<b>117.5</b>	6	58	236	394	466
<b>120.0</b>	6	48	209	357	418
<b>122.5</b>	6	41	183	322	377
<b>125.0</b>	6	35	162	292	342
<b>127.5</b>	6	29	140	258	309
<b>130.0</b>	6	25	120	228	274
<b>132.5</b>	6	21	100	198	241

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6	18	83	171	208
<b>137.5</b>	6	15	70	144	177
<b>140.0</b>	6	13	58	119	148
<b>142.5</b>	6	11	47	96	121
<b>145.0</b>	7	10	39	79	98
<b>147.5</b>	7	10	32	64	79
<b>150.0</b>	7	9	26	51	64
<b>152.5</b>	6	8	20	40	50
<b>155.0</b>	7	8	16	31	39
<b>157.5</b>	6	7	12	23	29
<b>160.0</b>	6	7	9	17	21
<b>162.5</b>	7	7	8	13	16
<b>165.0</b>	7	7	7	9	12
<b>167.5</b>	6	6	6	7	9
<b>170.0</b>	6	6	6	6	7
<b>172.5</b>	6	6	5	5	6
<b>175.0</b>	6	6	5	5	4
<b>177.5</b>	7	6	5	4	4
<b>180.0</b>	5	5	5	5	5

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1299.38	N.A.	9.30
0-30	2809.41	N.A.	20.00
0-40	4695.46	N.A.	33.40
0-60	8743.79	N.A.	62.30
0-80	11869.15	N.A.	84.50
0-90	12766.82	N.A.	90.90
10-90	12435.59	N.A.	88.50
20-40	3396.08	N.A.	24.20
20-50	5446.47	N.A.	38.80
40-70	5798.49	N.A.	41.30
60-80	3125.36	N.A.	22.30
70-80	1375.21	N.A.	9.80
80-90	897.67	N.A.	6.40
90-110	754.84	N.A.	5.40
90-120	1011.93	N.A.	7.20
90-130	1161.44	N.A.	8.30
90-150	1265.78	N.A.	9.00
90-180	1278.2	N.A.	9.10
110-180	523.37	N.A.	3.70
0-180	14045.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	331.23
10-20	968.16
20-30	1510.03
30-40	1886.05
40-50	2050.4
50-60	1997.93
60-70	1750.16
70-80	1375.21
80-90	897.67
90-100	420.80
100-110	334.03
110-120	257.10
120-130	149.51
130-140	74.80
140-150	29.54
150-160	9.44
160-170	2.46
170-180	0.53

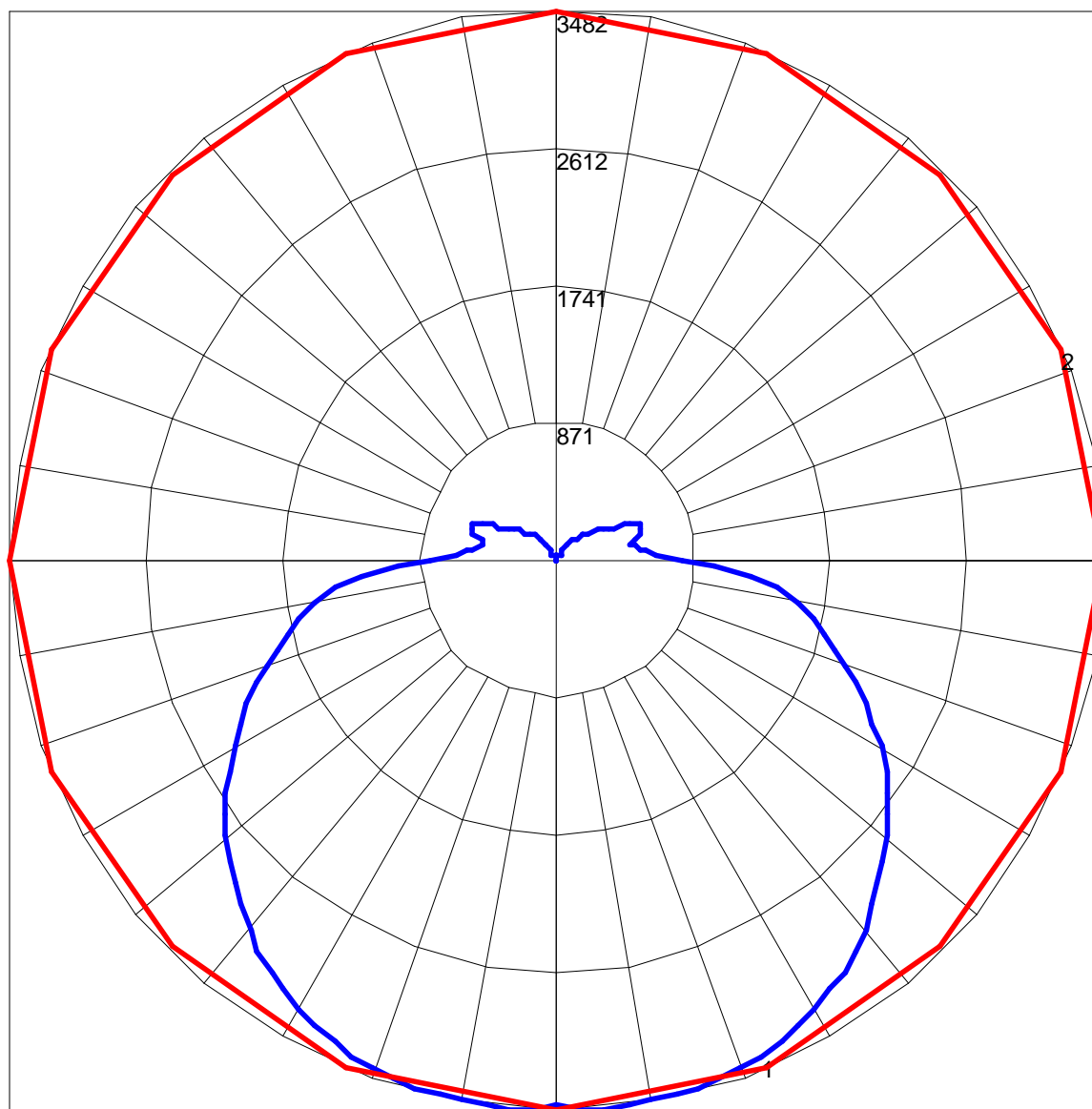
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	83	80	77	78	76	74	71
2	94	84	76	70	90	81	74	68	76	70	65	72	67	62	67	63	60	57
3	85	73	64	57	81	71	62	56	66	59	54	62	56	51	59	54	49	47
4	77	64	55	47	74	62	53	47	59	51	45	55	49	43	52	46	42	39
5	71	57	47	40	68	55	46	40	52	44	38	49	42	37	46	41	36	33
6	65	51	42	35	63	50	41	34	47	39	33	44	37	32	42	36	31	29
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	38	32	28	25
8	56	42	33	27	54	41	32	27	39	31	26	37	30	25	35	29	25	22
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18

POLAR GRAPH



Maximum Candela = 3482 Located At Horizontal Angle = 90, Vertical Angle = 7.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)