



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL8-LED-160L-FL-50.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-160L-FL-50  
[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	17218
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	123.7
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	21747	14340	13499
55	20676	12586	12050
65	18871	10813	10692
75	15978	9219	9426
85	10373	7670	7660

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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	4306.208	4306.208	4306.208	4306.208	4306.208
2.5	4323.384	4328.292	4308.662	4303.755	4320.931
5.0	4320.931	4325.838	4311.116	4308.662	4323.384
7.5	4308.662	4316.023	4301.301	4308.662	4320.931
10.0	4286.579	4296.394	4289.033	4298.847	4318.477
12.5	4252.228	4264.496	4266.950	4286.579	4308.662
15.0	4210.515	4227.691	4237.505	4269.403	4286.579
17.5	4156.534	4178.617	4198.247	4239.959	4266.950
20.0	4095.192	4122.182	4154.080	4205.608	4235.052
22.5	4024.035	4055.933	4102.553	4163.895	4198.247
25.0	3940.610	3974.962	4041.211	4112.368	4154.080
27.5	3849.824	3891.537	3967.601	4055.933	4105.007
30.0	3746.769	3793.389	3886.629	3992.137	4041.211
32.5	3631.446	3690.335	3800.750	3918.527	3974.962
35.0	3511.216	3577.465	3707.511	3837.556	3901.351
37.5	3381.171	3454.781	3604.456	3751.677	3822.833
40.0	3241.311	3322.283	3496.494	3658.437	3736.955
42.5	3098.998	3189.784	3381.171	3555.382	3646.169
45.0	2949.323	3049.924	3260.941	3454.781	3550.475
47.5	2794.742	2905.157	3135.803	3341.912	3442.513
50.0	2632.799	2757.936	3005.758	3233.950	3337.005
52.5	2488.032	2598.447	2873.259	3118.627	3231.497
55.0	2304.006	2451.226	2740.761	3003.304	3121.081
57.5	2129.794	2281.922	2598.447	2885.528	3005.758
60.0	1960.490	2117.526	2453.680	2762.844	2887.981
62.5	1766.650	1955.583	2316.274	2640.160	2765.297
65.0	1582.624	1788.733	2178.868	2510.115	2642.613
67.5	1398.598	1626.790	2041.462	2380.070	2505.207
70.0	1224.386	1472.208	1906.509	2252.478	2382.523
72.5	1037.907	1310.265	1774.011	2127.341	2262.293
75.0	858.788	1165.498	1651.327	2012.018	2146.970
77.5	677.216	1023.185	1528.643	1894.241	2026.740
80.0	512.819	890.686	1408.412	1771.557	1906.509
82.5	355.784	765.548	1290.636	1641.512	1764.196
85.0	228.192	657.586	1160.591	1450.125	1543.365
87.5	127.591	549.624	956.935	1167.952	1226.840
90.0	63.796	412.218	706.660	871.056	927.491
92.5	34.352	326.339	581.522	716.475	760.641
95.0	22.083	279.720	522.634	660.040	706.660
97.5	17.176	240.461	480.921	610.966	657.586
100.0	12.268	225.739	453.931	574.161	620.781
102.5	12.268	193.841	473.560	547.171	586.430
105.0	9.815	166.850	503.004	579.068	591.337
107.5	9.815	139.860	456.384	672.308	696.845
110.0	7.361	120.230	404.857	664.947	763.094
112.5	7.361	100.601	365.598	603.605	704.206
115.0	7.361	85.879	326.339	544.717	637.957
117.5	7.361	73.610	289.534	495.643	583.976
120.0	7.361	61.342	255.183	444.116	527.541
122.5	7.361	51.527	220.831	397.496	471.107
125.0	7.361	44.166	193.841	353.330	419.579
127.5	7.361	36.805	166.850	311.617	372.959
130.0	7.361	31.898	142.313	269.905	328.793
132.5	7.361	26.990	120.230	235.553	287.081

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	7.361	22.083	98.147	201.202	250.275
<b>137.5</b>	7.361	19.629	83.425	169.304	211.016
<b>140.0</b>	7.361	14.722	71.157	139.860	174.211
<b>142.5</b>	7.361	12.268	58.888	115.323	142.313
<b>145.0</b>	7.361	9.815	46.620	93.240	117.777
<b>147.5</b>	7.361	9.815	39.259	76.064	95.694
<b>150.0</b>	7.361	7.361	29.444	61.342	76.064
<b>152.5</b>	7.361	7.361	22.083	46.620	58.888
<b>155.0</b>	7.361	7.361	14.722	34.352	44.166
<b>157.5</b>	7.361	7.361	12.268	24.537	34.352
<b>160.0</b>	7.361	7.361	9.815	17.176	22.083
<b>162.5</b>	7.361	7.361	7.361	12.268	14.722
<b>165.0</b>	7.361	7.361	7.361	7.361	9.815
<b>167.5</b>	7.361	7.361	7.361	4.907	7.361
<b>170.0</b>	7.361	7.361	7.361	4.907	7.361
<b>172.5</b>	7.361	7.361	4.907	4.907	4.907
<b>175.0</b>	7.361	7.361	4.907	4.907	4.907
<b>177.5</b>	7.361	7.361	4.907	4.907	4.907
<b>180.0</b>	4.907	4.907	4.907	4.907	4.907

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1611.09	N.A.	9.40
0-30	3476.49	N.A.	20.20
0-40	5796.75	N.A.	33.70
0-60	10745.85	N.A.	62.40
0-80	14548.1	N.A.	84.50
0-90	15648.26	N.A.	90.90
10-90	15236.89	N.A.	88.50
20-40	4185.66	N.A.	24.30
20-50	6696.9	N.A.	38.90
40-70	7077.36	N.A.	41.10
60-80	3802.25	N.A.	22.10
70-80	1673.99	N.A.	9.70
80-90	1100.16	N.A.	6.40
90-110	928.55	N.A.	5.40
90-120	1249.61	N.A.	7.30
90-130	1432.13	N.A.	8.30
90-150	1556.33	N.A.	9.00
90-180	1569.8	N.A.	9.10
110-180	641.26	N.A.	3.70
0-180	17218.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	411.37
10-20	1199.72
20-30	1865.4
30-40	2320.26
40-50	2511.23
50-60	2437.86
60-70	2128.27
70-80	1673.99
80-90	1100.16
90-100	514.85
100-110	413.70
110-120	321.06
120-130	182.53
130-140	89.17
140-150	35.02
150-160	10.45
160-170	2.45
170-180	0.57

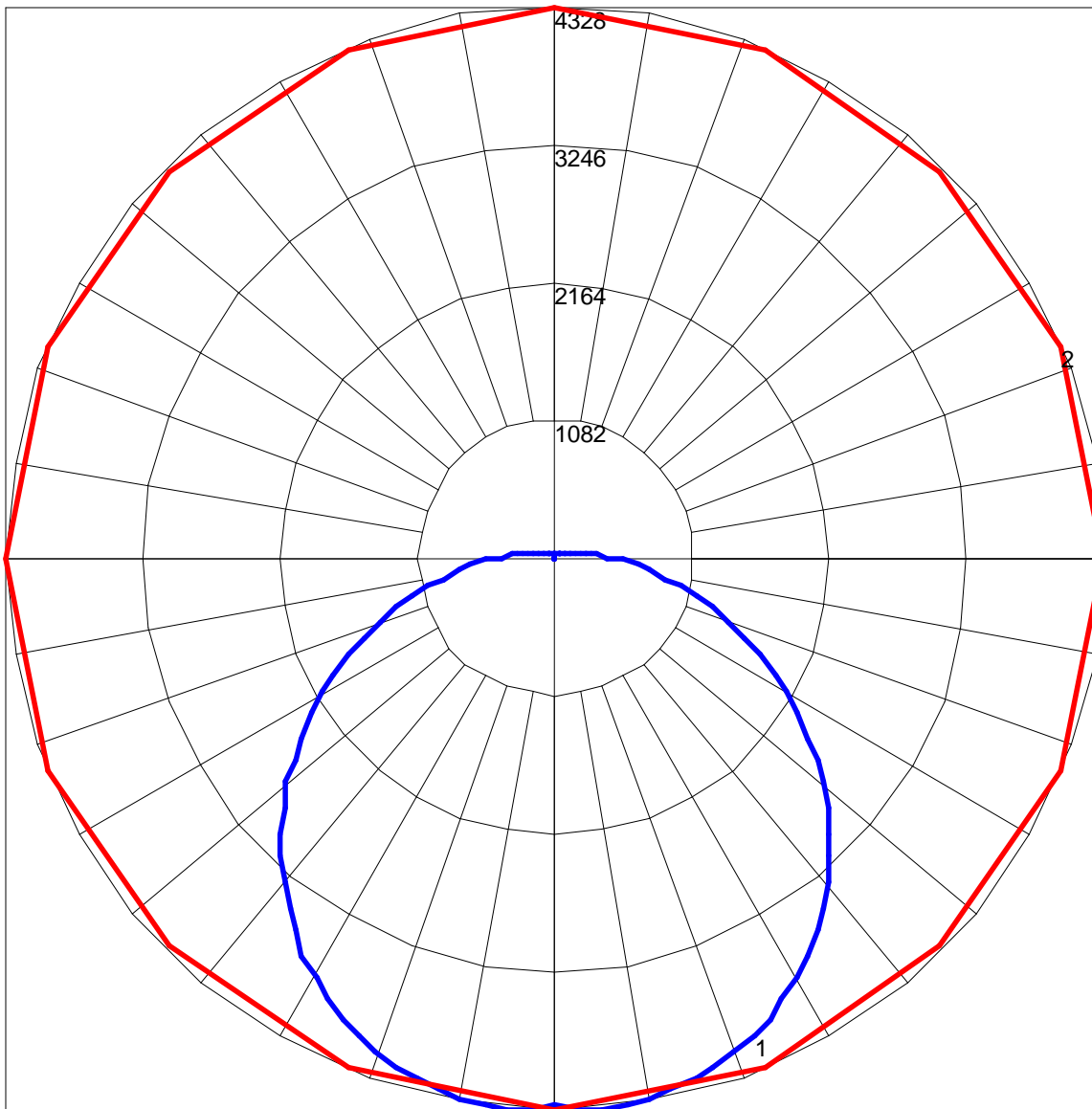
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4328.292 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.)