



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDLRK8-LED-80L-FL-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-9827  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 09/25/19  
[TEST DATE] 03/01/18  
[MANUFACT] LSI INDUSTRIES, INC  
[LUMCAT] SDLRK8-LED-80L-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	8075
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	60.6
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	10242	6746	6342
55	9710	5924	5691
65	8967	5101	5033
75	7368	4338	4452
85	4046	3608	3588

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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>	2004	2004	2004	2004	2004
<b>2.5</b>	2015	2015	2007	2003	2011
<b>5.0</b>	2015	2014	2007	2006	2013
<b>7.5</b>	2009	2010	2005	2006	2013
<b>10.0</b>	2000	2001	1999	2003	2011
<b>12.5</b>	1986	1988	1990	1998	2007
<b>15.0</b>	1967	1971	1976	1990	2000
<b>17.5</b>	1942	1949	1960	1978	1991
<b>20.0</b>	1914	1922	1941	1963	1978
<b>22.5</b>	1879	1890	1916	1944	1962
<b>25.0</b>	1842	1856	1889	1923	1943
<b>27.5</b>	1800	1816	1855	1897	1921
<b>30.0</b>	1754	1773	1820	1868	1893
<b>32.5</b>	1703	1726	1781	1834	1862
<b>35.0</b>	1648	1675	1739	1797	1828
<b>37.5</b>	1589	1621	1692	1757	1792
<b>40.0</b>	1527	1562	1642	1715	1753
<b>42.5</b>	1461	1499	1590	1669	1712
<b>45.0</b>	1389	1431	1534	1622	1668
<b>47.5</b>	1316	1364	1475	1573	1623
<b>50.0</b>	1238	1293	1416	1522	1575
<b>52.5</b>	1172	1221	1353	1468	1525
<b>55.0</b>	1082	1148	1290	1415	1474
<b>57.5</b>	1005	1076	1225	1358	1415
<b>60.0</b>	924	1000	1161	1301	1360
<b>62.5</b>	840	923	1094	1241	1302
<b>65.0</b>	752	847	1028	1181	1244
<b>67.5</b>	659	767	962	1121	1185
<b>70.0</b>	567	692	899	1062	1127
<b>72.5</b>	480	619	838	1003	1070
<b>75.0</b>	396	549	777	945	1014
<b>77.5</b>	311	483	718	888	950
<b>80.0</b>	230	421	662	829	893
<b>82.5</b>	156	361	607	769	825
<b>85.0</b>	89	308	546	681	723
<b>87.5</b>	37	258	451	551	584
<b>90.0</b>	10	193	329	404	434
<b>92.5</b>	5	154	271	335	357
<b>95.0</b>	4	131	245	308	331
<b>97.5</b>	4	119	224	286	308
<b>100.0</b>	4	105	209	268	291
<b>102.5</b>	4	89	223	254	273
<b>105.0</b>	3	76	240	268	275
<b>107.5</b>	3	63	214	315	317
<b>110.0</b>	3	53	190	312	359
<b>112.5</b>	3	45	170	283	328
<b>115.0</b>	3	39	152	255	299
<b>117.5</b>	3	32	135	230	271
<b>120.0</b>	3	27	119	209	246
<b>122.5</b>	3	23	103	186	222
<b>125.0</b>	3	19	90	166	198
<b>127.5</b>	3	16	77	146	175
<b>130.0</b>	3	14	66	127	153
<b>132.5</b>	3	12	55	110	134

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CANDELA TABULATION - (Cont.)

135.0	3	9	47	94	116
137.5	3	8	39	79	97
140.0	3	6	33	66	82
142.5	3	5	27	55	68
145.0	3	5	22	45	56
147.5	3	4	18	36	45
150.0	3	4	14	29	35
152.5	3	4	10	22	28
155.0	3	4	8	17	21
157.5	3	3	6	12	16
160.0	3	4	4	8	11
162.5	3	3	4	6	7
165.0	3	3	3	4	5
167.5	3	3	3	3	4
170.0	3	3	3	3	3
172.5	3	3	3	2	3
175.0	3	3	3	2	3
177.5	3	3	3	2	2
180.0	3	3	3	3	3

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	751.26	N.A.	9.30
0-30	1622.91	N.A.	20.10
0-40	2710.41	N.A.	33.60
0-60	5038.82	N.A.	62.40
0-80	6829.5	N.A.	84.60
0-90	7343.91	N.A.	90.90
10-90	7152.3	N.A.	88.60
20-40	1959.16	N.A.	24.30
20-50	3139.67	N.A.	38.90
40-70	3332.12	N.A.	41.30
60-80	1790.68	N.A.	22.20
70-80	786.97	N.A.	9.70
80-90	514.41	N.A.	6.40
90-110	432.41	N.A.	5.40
90-120	581.85	N.A.	7.20
90-130	666.95	N.A.	8.30
90-150	724.78	N.A.	9.00
90-180	731.17	N.A.	9.10
110-180	298.76	N.A.	3.70
0-180	8075.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	191.61
10-20	559.64
20-30	871.66
30-40	1087.5
40-50	1180.52
50-60	1147.9
60-70	1003.71
70-80	786.97
80-90	514.41
90-100	239.90
100-110	192.52
110-120	149.44
120-130	85.10
130-140	41.37
140-150	16.45
150-160	4.99
160-170	1.14
170-180	0.27

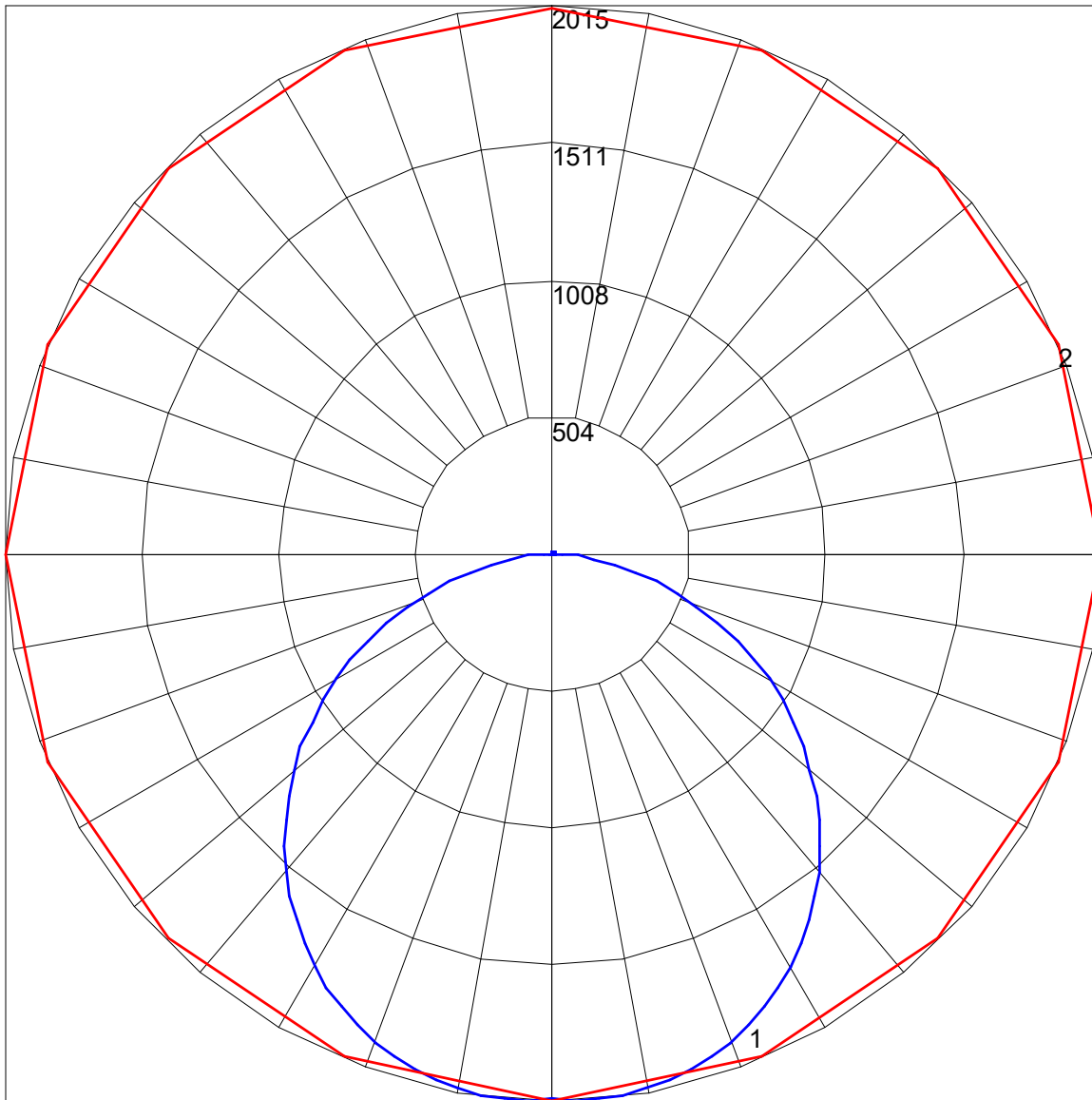
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	78	78	76	74	71
2	94	84	76	70	90	82	74	68	76	70	65	72	67	62	67	63	60	57
3	85	73	64	57	81	71	63	56	66	59	54	62	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	43	52	46	42	39
5	71	57	48	40	68	55	46	40	52	44	39	49	43	37	46	41	36	34
6	65	51	42	35	63	50	41	34	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	25
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	37	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 = 2015 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)