



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL2-LED-20L-FL-50.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-9884\_scaled

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]6/12/2018

[TEST DATE]03/13/18

[MANUFACTURER]LSI INDUSTRIES, INC

[LUMEN CATEGORY]SDL2-LED-20L-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 SOURCE TYPE] LED

[SEARCH APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2226
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	16.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 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	10274	6972	6782
55	9399	6041	6045
65	8172	5097	5361
75	6175	4263	4709
85	2623	3576	4185

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL2-LED-20L-FL-50.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	546.339	546.339	546.339	546.339	546.339
2.5	559.244	553.509	546.339	539.169	536.301
5.0	559.244	553.509	547.773	539.169	537.735
7.5	556.376	552.075	546.339	539.169	536.301
10.0	553.509	549.207	543.471	539.169	536.301
12.5	550.641	546.339	542.037	536.301	534.867
15.0	544.905	542.037	537.735	534.867	533.433
17.5	539.169	536.301	533.433	531.999	530.565
20.0	530.565	529.131	529.131	529.131	527.697
22.5	521.961	520.527	521.961	523.395	523.395
25.0	511.924	510.490	513.358	517.660	519.094
27.5	499.018	500.452	506.188	511.924	513.358
30.0	486.112	487.546	494.716	503.320	507.622
32.5	471.773	473.207	483.245	494.716	499.018
35.0	454.565	457.433	470.339	484.678	490.414
37.5	437.358	441.660	457.433	474.641	480.377
40.0	418.716	424.452	443.094	461.735	470.339
42.5	400.075	405.811	427.320	450.263	458.867
45.0	379.999	387.169	411.547	435.924	445.962
47.5	359.924	368.528	395.773	423.018	433.056
50.0	338.415	349.886	378.565	407.245	420.150
52.5	316.905	329.811	361.358	392.905	404.377
55.0	295.396	309.735	344.150	377.131	391.471
57.5	273.886	288.226	325.509	361.358	377.131
60.0	249.509	266.717	306.867	347.018	361.358
62.5	225.132	245.207	289.660	329.811	347.018
65.0	203.622	225.132	271.018	315.471	331.245
67.5	179.245	205.056	253.811	298.264	315.471
70.0	156.302	184.981	236.603	282.490	298.264
72.5	131.924	164.905	219.396	265.283	282.490
75.0	108.981	146.264	203.622	250.943	268.151
77.5	86.038	127.622	187.849	235.169	252.377
80.0	63.094	110.415	173.509	220.830	238.037
82.5	43.019	94.641	159.170	206.490	225.132
85.0	25.811	80.302	146.264	193.585	210.792
87.5	11.472	68.830	133.358	180.679	197.886
90.0	4.302	57.358	121.887	167.773	184.981
92.5	1.434	48.755	110.415	154.868	172.075
95.0	1.434	40.151	98.943	143.396	159.170
97.5	1.434	32.981	88.906	131.924	146.264
100.0	1.434	27.245	80.302	120.453	136.226
102.5	1.434	22.943	71.698	110.415	124.755
105.0	1.434	18.641	64.528	100.377	114.717
107.5	1.434	15.774	57.358	91.773	104.679
110.0	1.434	14.340	50.189	83.170	96.075
112.5	0.000	11.472	44.453	74.566	87.472
115.0	1.434	10.038	38.717	67.396	78.868
117.5	1.434	8.604	34.415	61.660	71.698
120.0	1.434	7.170	30.113	54.490	63.094
122.5	1.434	5.736	25.811	47.321	55.924
125.0	0.000	4.302	22.943	41.585	50.189
127.5	1.434	4.302	20.075	37.283	44.453
130.0	0.000	2.868	15.774	31.547	38.717
132.5	0.000	2.868	12.906	27.245	32.981

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL2-LED-20L-FL-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.000	1.434	11.472	22.943	28.679
<b>137.5</b>	0.000	1.434	10.038	20.075	24.377
<b>140.0</b>	0.000	1.434	8.604	15.774	20.075
<b>142.5</b>	0.000	1.434	5.736	12.906	15.774
<b>145.0</b>	0.000	1.434	4.302	11.472	12.906
<b>147.5</b>	0.000	1.434	4.302	8.604	10.038
<b>150.0</b>	0.000	0.000	2.868	5.736	8.604
<b>152.5</b>	0.000	0.000	1.434	4.302	5.736
<b>155.0</b>	0.000	0.000	1.434	2.868	4.302
<b>157.5</b>	0.000	0.000	0.000	1.434	2.868
<b>160.0</b>	0.000	0.000	0.000	1.434	1.434
<b>162.5</b>	0.000	0.000	0.000	0.000	0.000
<b>165.0</b>	0.000	0.000	0.000	0.000	0.000
<b>167.5</b>	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL2-LED-20L-FL-50.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	204.34	N.A.	9.20
0-30	441.69	N.A.	19.80
0-40	736.79	N.A.	33.10
0-60	1362.25	N.A.	61.20
0-80	1837.99	N.A.	82.60
0-90	1985.82	N.A.	89.20
10-90	1933.7	N.A.	86.90
20-40	532.44	N.A.	23.90
20-50	850.67	N.A.	38.20
40-70	892.57	N.A.	40.10
60-80	475.74	N.A.	21.40
70-80	208.63	N.A.	9.40
80-90	147.83	N.A.	6.60
90-110	164.16	N.A.	7.40
90-120	203.48	N.A.	9.10
90-130	225.06	N.A.	10.10
90-150	238.93	N.A.	10.70
90-180	239.73	N.A.	10.80
110-180	75.57	N.A.	3.40
0-180	2225.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	52.12
10-20	152.22
20-30	237.35
30-40	295.10
40-50	318.23
50-60	307.24
60-70	267.11
70-80	208.63
80-90	147.83
90-100	99.64
100-110	64.52
110-120	39.32
120-130	21.58
130-140	10.06
140-150	3.81
150-160	0.77
160-170	0.02
170-180	0.00

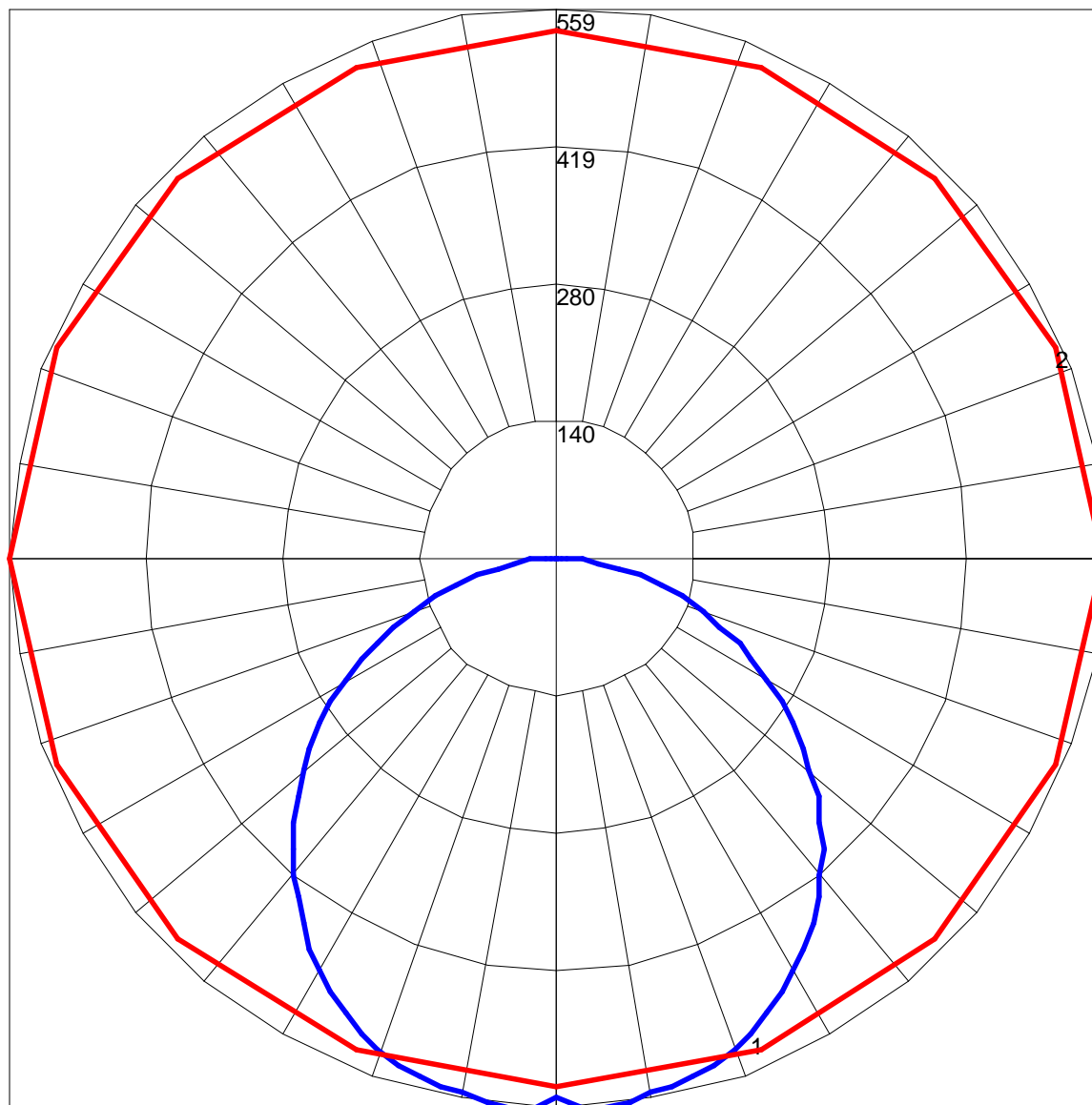
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL2-LED-20L-FL-50.IES**

**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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	94	90	85	88	84	81	82	79	76	77	75	72	69
2	93	84	76	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	47	74	62	53	47	58	51	45	54	48	43	51	46	41	39
5	71	57	47	40	68	55	46	40	52	44	38	49	42	37	46	40	35	33
6	65	51	42	35	62	50	41	34	47	39	33	44	37	32	41	35	31	29
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	38	32	27	25
8	56	42	33	27	54	41	32	27	39	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 559.244 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.)