



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL2-LED-20L-FL-35.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  
[LUMCAT]SDL2-LED-20L-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	2112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	9748	6615	6435
55	8917	5732	5736
65	7753	4836	5086
75	5859	4045	4468
85	2488	3393	3970

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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	518.354	518.354	518.354	518.354	518.354
2.5	530.599	525.157	518.354	511.552	508.831
5.0	530.599	525.157	519.715	511.552	510.191
7.5	527.878	523.796	518.354	511.552	508.831
10.0	525.157	521.075	515.633	511.552	508.831
12.5	522.436	518.354	514.273	508.831	507.470
15.0	516.994	514.273	510.191	507.470	506.110
17.5	511.552	508.831	506.110	504.749	503.389
20.0	503.389	502.028	502.028	502.028	500.668
22.5	495.226	493.865	495.226	496.586	496.586
25.0	485.702	484.342	487.063	491.144	492.505
27.5	473.457	474.818	480.260	485.702	487.063
30.0	461.213	462.573	469.376	477.539	481.621
32.5	447.608	448.968	458.492	469.376	473.457
35.0	431.282	434.003	446.247	459.852	465.294
37.5	414.956	419.037	434.003	450.329	455.771
40.0	397.269	402.711	420.398	438.084	446.247
42.5	379.582	385.024	405.432	427.200	435.363
45.0	360.535	367.338	390.466	413.595	423.119
47.5	341.488	349.651	375.501	401.350	410.874
50.0	321.080	331.964	359.175	386.385	398.629
52.5	300.673	312.917	342.849	372.780	383.664
55.0	280.265	293.870	326.522	357.814	371.419
57.5	259.857	273.463	308.836	342.849	357.814
60.0	236.729	253.055	291.149	329.243	342.849
62.5	213.600	232.647	274.823	312.917	329.243
65.0	193.192	213.600	257.136	299.312	314.278
67.5	170.064	194.553	240.810	282.986	299.312
70.0	148.296	175.506	224.484	268.020	282.986
72.5	125.167	156.459	208.158	251.694	268.020
75.0	103.399	138.772	193.192	238.089	254.415
77.5	81.631	121.085	178.227	223.124	239.450
80.0	59.862	104.759	164.622	209.519	225.845
82.5	40.815	89.794	151.017	195.913	213.600
85.0	24.489	76.189	138.772	183.669	199.995
87.5	10.884	65.304	126.527	171.424	187.750
90.0	4.082	54.420	115.643	159.180	175.506
92.5	1.361	46.257	104.759	146.935	163.261
95.0	1.361	38.094	93.875	136.051	151.017
97.5	1.361	31.292	84.352	125.167	138.772
100.0	1.361	25.850	76.189	114.283	129.248
102.5	1.361	21.768	68.025	104.759	118.364
105.0	1.361	17.687	61.223	95.236	108.841
107.5	1.361	14.966	54.420	87.073	99.317
110.0	1.361	13.605	47.618	78.910	91.154
112.5	0.000	10.884	42.176	70.747	82.991
115.0	1.361	9.524	36.734	63.944	74.828
117.5	1.361	8.163	32.652	58.502	68.025
120.0	1.361	6.803	28.571	51.699	59.862
122.5	1.361	5.442	24.489	44.897	53.060
125.0	0.000	4.082	21.768	39.455	47.618
127.5	1.361	4.082	19.047	35.373	42.176
130.0	0.000	2.721	14.966	29.931	36.734
132.5	0.000	2.721	12.245	25.850	31.292

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.000	1.361	10.884	21.768	27.210
<b>137.5</b>	0.000	1.361	9.524	19.047	23.129
<b>140.0</b>	0.000	1.361	8.163	14.966	19.047
<b>142.5</b>	0.000	1.361	5.442	12.245	14.966
<b>145.0</b>	0.000	1.361	4.082	10.884	12.245
<b>147.5</b>	0.000	1.361	4.082	8.163	9.524
<b>150.0</b>	0.000	0.000	2.721	5.442	8.163
<b>152.5</b>	0.000	0.000	1.361	4.082	5.442
<b>155.0</b>	0.000	0.000	1.361	2.721	4.082
<b>157.5</b>	0.000	0.000	0.000	1.361	2.721
<b>160.0</b>	0.000	0.000	0.000	1.361	1.361
<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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	193.88	N.A.	9.20
0-30	419.07	N.A.	19.80
0-40	699.05	N.A.	33.10
0-60	1292.47	N.A.	61.20
0-80	1743.84	N.A.	82.60
0-90	1884.1	N.A.	89.20
10-90	1834.65	N.A.	86.90
20-40	505.17	N.A.	23.90
20-50	807.10	N.A.	38.20
40-70	846.85	N.A.	40.10
60-80	451.37	N.A.	21.40
70-80	197.94	N.A.	9.40
80-90	140.26	N.A.	6.60
90-110	155.75	N.A.	7.40
90-120	193.06	N.A.	9.10
90-130	213.53	N.A.	10.10
90-150	226.69	N.A.	10.70
90-180	227.45	N.A.	10.80
110-180	71.70	N.A.	3.40
0-180	2111.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.45
10-20	144.43
20-30	225.19
30-40	279.98
40-50	301.93
50-60	291.50
60-70	253.43
70-80	197.94
80-90	140.26
90-100	94.54
100-110	61.22
110-120	37.31
120-130	20.47
130-140	9.55
140-150	3.61
150-160	0.73
160-170	0.02
170-180	0.00

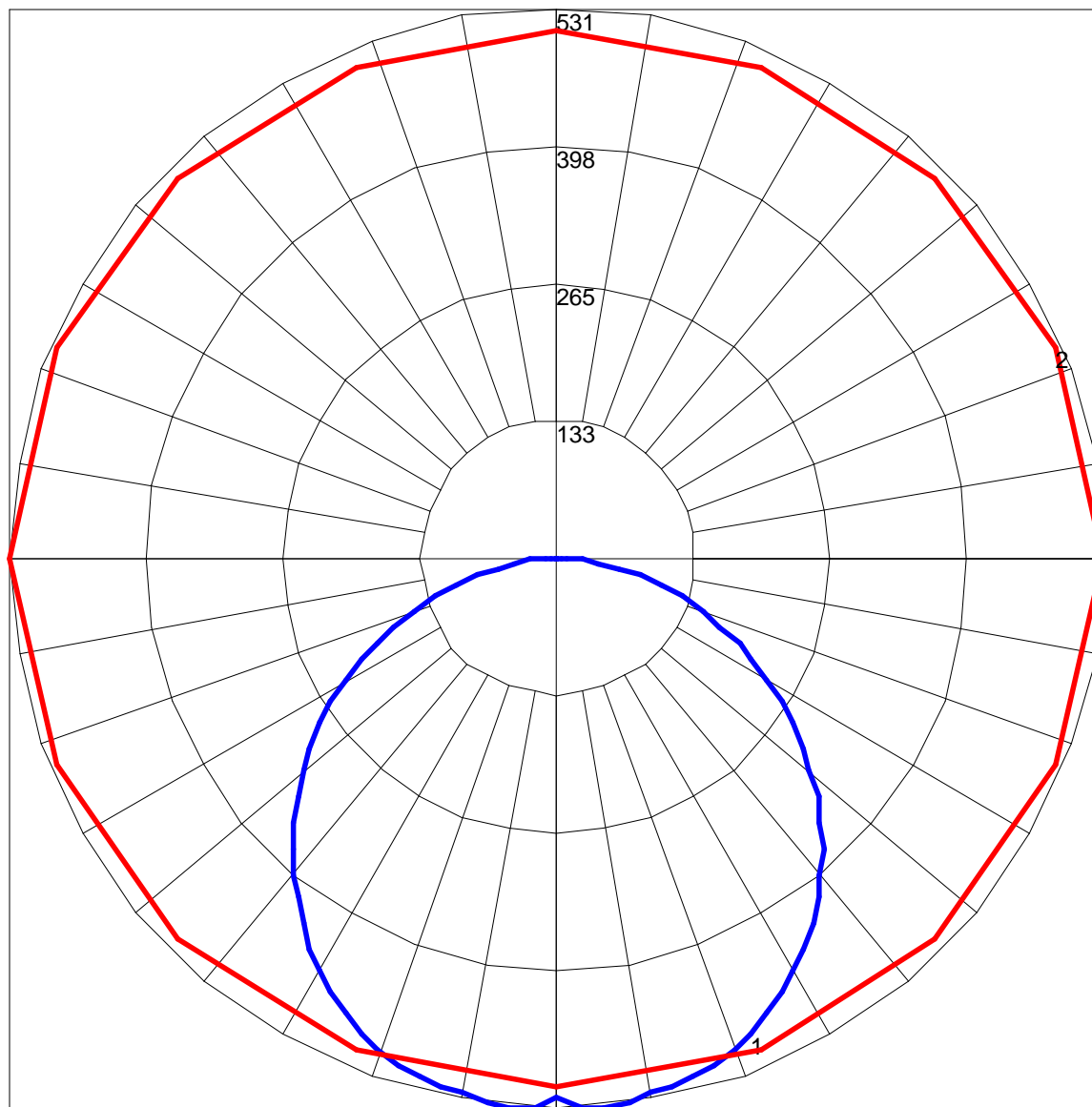
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 530.599 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.)