



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL2-LED-15L-FL-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9884  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/18  
[TEST DATE]03/13/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]SDL2-LED-15L-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	1552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	12.5
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	7165	4862	4730
55	6554	4213	4216
65	5699	3555	3739
75	4307	2973	3284
85	1829	2494	2918

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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>	381	381	381	381	381
<b>2.5</b>	390	386	381	376	374
<b>5.0</b>	390	386	382	376	375
<b>7.5</b>	388	385	381	376	374
<b>10.0</b>	386	383	379	376	374
<b>12.5</b>	384	381	378	374	373
<b>15.0</b>	380	378	375	373	372
<b>17.5</b>	376	374	372	371	370
<b>20.0</b>	370	369	369	369	368
<b>22.5</b>	364	363	364	365	365
<b>25.0</b>	357	356	358	361	362
<b>27.5</b>	348	349	353	357	358
<b>30.0</b>	339	340	345	351	354
<b>32.5</b>	329	330	337	345	348
<b>35.0</b>	317	319	328	338	342
<b>37.5</b>	305	308	319	331	335
<b>40.0</b>	292	296	309	322	328
<b>42.5</b>	279	283	298	314	320
<b>45.0</b>	265	270	287	304	311
<b>47.5</b>	251	257	276	295	302
<b>50.0</b>	236	244	264	284	293
<b>52.5</b>	221	230	252	274	282
<b>55.0</b>	206	216	240	263	273
<b>57.5</b>	191	201	227	252	263
<b>60.0</b>	174	186	214	242	252
<b>62.5</b>	157	171	202	230	242
<b>65.0</b>	142	157	189	220	231
<b>67.5</b>	125	143	177	208	220
<b>70.0</b>	109	129	165	197	208
<b>72.5</b>	92	115	153	185	197
<b>75.0</b>	76	102	142	175	187
<b>77.5</b>	60	89	131	164	176
<b>80.0</b>	44	77	121	154	166
<b>82.5</b>	30	66	111	144	157
<b>85.0</b>	18	56	102	135	147
<b>87.5</b>	8	48	93	126	138
<b>90.0</b>	3	40	85	117	129
<b>92.5</b>	1	34	77	108	120
<b>95.0</b>	1	28	69	100	111
<b>97.5</b>	1	23	62	92	102
<b>100.0</b>	1	19	56	84	95
<b>102.5</b>	1	16	50	77	87
<b>105.0</b>	1	13	45	70	80
<b>107.5</b>	1	11	40	64	73
<b>110.0</b>	1	10	35	58	67
<b>112.5</b>	0	8	31	52	61
<b>115.0</b>	1	7	27	47	55
<b>117.5</b>	1	6	24	43	50
<b>120.0</b>	1	5	21	38	44
<b>122.5</b>	1	4	18	33	39
<b>125.0</b>	0	3	16	29	35
<b>127.5</b>	1	3	14	26	31
<b>130.0</b>	0	2	11	22	27
<b>132.5</b>	0	2	9	19	23

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CANDELA TABULATION - (Cont.)

135.0	0	1	8	16	20
137.5	0	1	7	14	17
140.0	0	1	6	11	14
142.5	0	1	4	9	11
145.0	0	1	3	8	9
147.5	0	1	3	6	7
150.0	0	0	2	4	6
152.5	0	0	1	3	4
155.0	0	0	1	2	3
157.5	0	0	0	1	2
160.0	0	0	0	1	1
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	142.50	N.A.	9.20
0-30	308.02	N.A.	19.80
0-40	513.81	N.A.	33.10
0-60	949.99	N.A.	61.20
0-80	1281.76	N.A.	82.60
0-90	1384.85	N.A.	89.20
10-90	1348.5	N.A.	86.90
20-40	371.31	N.A.	23.90
20-50	593.23	N.A.	38.20
40-70	622.45	N.A.	40.10
60-80	331.77	N.A.	21.40
70-80	145.49	N.A.	9.40
80-90	103.09	N.A.	6.60
90-110	114.48	N.A.	7.40
90-120	141.90	N.A.	9.10
90-130	156.95	N.A.	10.10
90-150	166.62	N.A.	10.70
90-180	167.18	N.A.	10.80
110-180	52.70	N.A.	3.40
0-180	1552.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.35
10-20	106.16
20-30	165.52
30-40	205.79
40-50	221.92
50-60	214.26
60-70	186.27
70-80	145.49
80-90	103.09
90-100	69.49
100-110	45.00
110-120	27.42
120-130	15.05
130-140	7.02
140-150	2.65
150-160	0.54
160-170	0.02
170-180	0.00

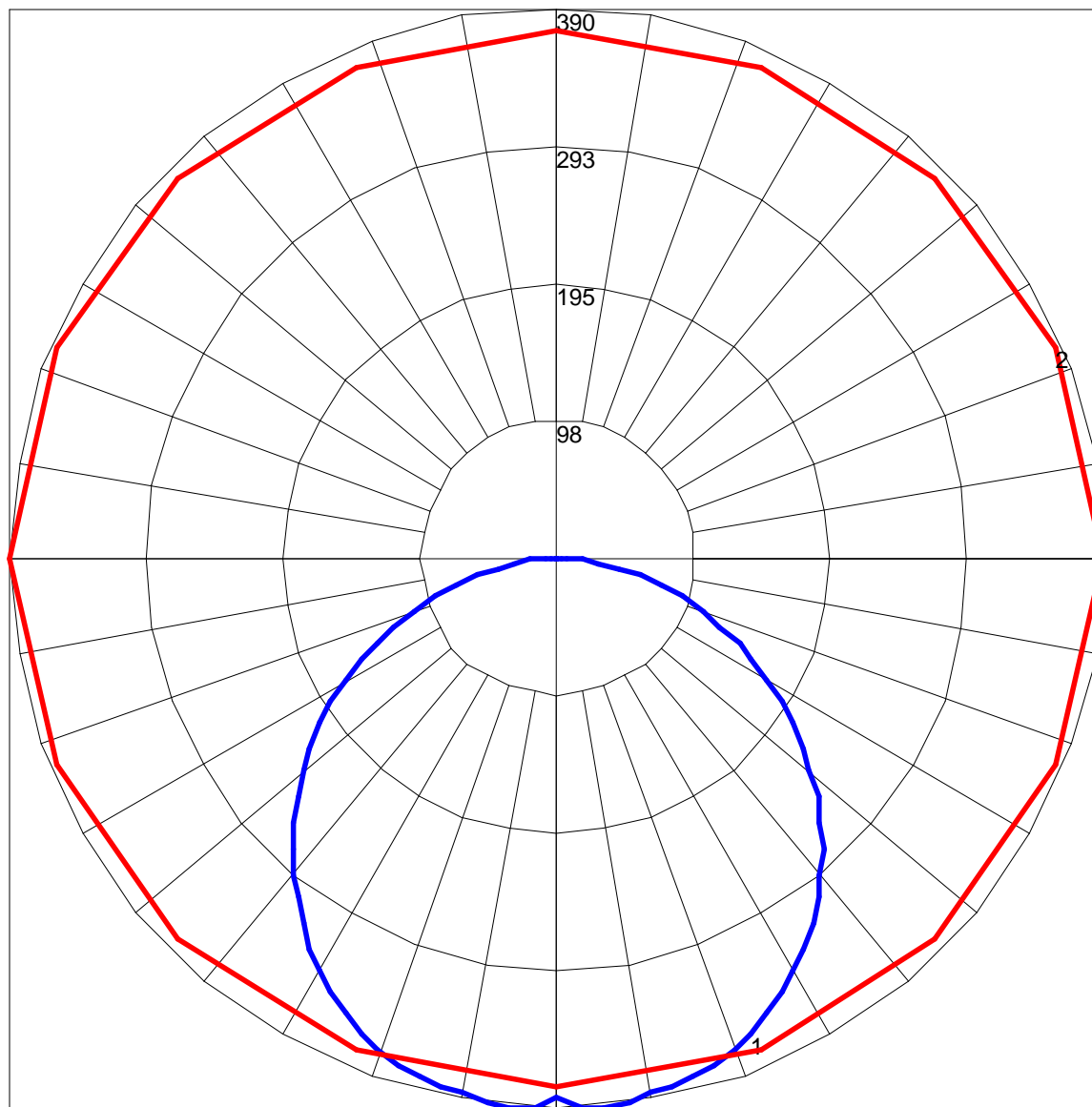
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	95	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	48	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 = 390 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.)