



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL4-LED-70L-FL-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9918\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]03/20/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]SDL4-LED-70L-FL-30  
[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	6789
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	52.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 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	16737	10888	10202
55	15647	9475	9107
65	14180	8134	8040
75	11272	6829	7092
85	5108	5785	6307

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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	1655.945	1655.945	1655.945	1655.945	1655.945
2.5	1696.499	1672.843	1659.325	1645.807	1632.289
5.0	1696.499	1669.463	1659.325	1645.807	1632.289
7.5	1693.119	1666.084	1655.945	1642.427	1632.289
10.0	1686.360	1659.325	1652.566	1642.427	1628.909
12.5	1672.843	1649.186	1642.427	1635.668	1625.530
15.0	1659.325	1639.048	1632.289	1628.909	1618.771
17.5	1639.048	1618.771	1618.771	1618.771	1608.632
20.0	1615.391	1598.494	1601.873	1605.253	1598.494
22.5	1588.356	1571.458	1581.597	1591.735	1584.976
25.0	1554.561	1544.422	1557.940	1571.458	1571.458
27.5	1520.766	1510.628	1530.904	1551.181	1551.181
30.0	1480.212	1476.833	1500.489	1527.525	1530.904
32.5	1436.279	1436.279	1470.074	1503.869	1503.869
35.0	1388.966	1395.725	1429.520	1473.453	1476.833
37.5	1338.274	1348.412	1392.346	1439.658	1446.417
40.0	1284.202	1297.720	1348.412	1402.484	1412.623
42.5	1230.131	1247.028	1304.479	1365.310	1375.448
45.0	1169.300	1192.956	1253.787	1324.756	1341.654
47.5	1108.469	1135.505	1206.474	1284.202	1304.479
50.0	1044.259	1078.054	1155.782	1243.649	1263.925
52.5	986.808	1013.844	1105.090	1196.336	1226.751
55.0	909.080	953.013	1047.639	1149.023	1179.438
57.5	844.870	888.803	993.567	1101.710	1135.505
60.0	777.280	824.593	942.875	1054.398	1091.572
62.5	709.691	763.762	888.803	1003.706	1044.259
65.0	631.963	699.552	834.732	953.013	993.567
67.5	560.994	635.342	780.660	905.701	946.254
70.0	486.645	571.132	726.588	855.008	898.942
72.5	408.917	503.543	675.896	807.696	851.629
75.0	334.569	449.471	625.204	760.383	807.696
77.5	263.599	395.399	577.891	716.450	763.762
80.0	192.630	344.707	533.958	672.516	719.829
82.5	131.800	297.394	490.025	628.583	675.896
85.0	70.969	253.461	449.471	588.030	635.342
87.5	30.415	212.907	412.297	550.855	598.168
90.0	3.379	179.112	375.122	510.301	560.994
92.5	0.000	148.697	341.327	473.127	520.440
95.0	3.379	125.041	307.533	435.953	483.266
97.5	3.379	104.764	277.117	402.158	446.091
100.0	3.379	84.487	246.702	368.363	412.297
102.5	3.379	70.969	223.046	334.569	378.502
105.0	3.379	60.831	196.010	307.533	348.086
107.5	0.000	50.692	175.733	280.497	317.671
110.0	0.000	40.554	155.456	253.461	290.635
112.5	0.000	33.795	138.559	229.805	263.599
115.0	0.000	30.415	121.661	206.148	239.943
117.5	0.000	23.656	104.764	185.871	216.287
120.0	0.000	20.277	91.246	165.595	192.630
122.5	0.000	16.897	81.108	145.318	172.353
125.0	0.000	13.518	70.969	131.800	155.456
127.5	0.000	10.138	57.451	114.902	135.179
130.0	3.379	10.138	50.692	98.005	118.282
132.5	0.000	6.759	40.554	84.487	101.384

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	3.379	6.759	37.174	70.969	87.866
<b>137.5</b>	3.379	3.379	30.415	60.831	74.349
<b>140.0</b>	3.379	3.379	23.656	50.692	64.210
<b>142.5</b>	0.000	3.379	20.277	43.933	50.692
<b>145.0</b>	3.379	3.379	16.897	33.795	43.933
<b>147.5</b>	3.379	3.379	10.138	27.036	33.795
<b>150.0</b>	3.379	3.379	10.138	20.277	27.036
<b>152.5</b>	3.379	3.379	6.759	16.897	20.277
<b>155.0</b>	3.379	3.379	3.379	10.138	13.518
<b>157.5</b>	3.379	3.379	3.379	6.759	10.138
<b>160.0</b>	3.379	3.379	3.379	3.379	6.759
<b>162.5</b>	3.379	3.379	3.379	3.379	3.379
<b>165.0</b>	0.000	3.379	0.000	0.000	0.000
<b>167.5</b>	3.379	3.379	0.000	0.000	0.000
<b>170.0</b>	3.379	3.379	0.000	0.000	0.000
<b>172.5</b>	3.379	0.000	0.000	0.000	0.000
<b>175.0</b>	3.379	3.379	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	620.03	N.A.	9.10
0-30	1339.24	N.A.	19.70
0-40	2236.01	N.A.	32.90
0-60	4145.81	N.A.	61.10
0-80	5601.34	N.A.	82.50
0-90	6053.33	N.A.	89.20
10-90	5895.15	N.A.	86.80
20-40	1615.99	N.A.	23.80
20-50	2586.54	N.A.	38.10
40-70	2727.85	N.A.	40.20
60-80	1455.54	N.A.	21.40
70-80	637.48	N.A.	9.40
80-90	451.99	N.A.	6.70
90-110	502.13	N.A.	7.40
90-120	621.51	N.A.	9.20
90-130	687.46	N.A.	10.10
90-150	731.19	N.A.	10.80
90-180	735.36	N.A.	10.80
110-180	233.23	N.A.	3.40
0-180	6788.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.18
10-20	461.84
20-30	719.21
30-40	896.78
40-50	970.55
50-60	939.24
60-70	818.06
70-80	637.48
80-90	451.99
90-100	305.03
100-110	197.10
110-120	119.38
120-130	65.95
130-140	31.35
140-150	12.37
150-160	3.49
160-170	0.61
170-180	0.07

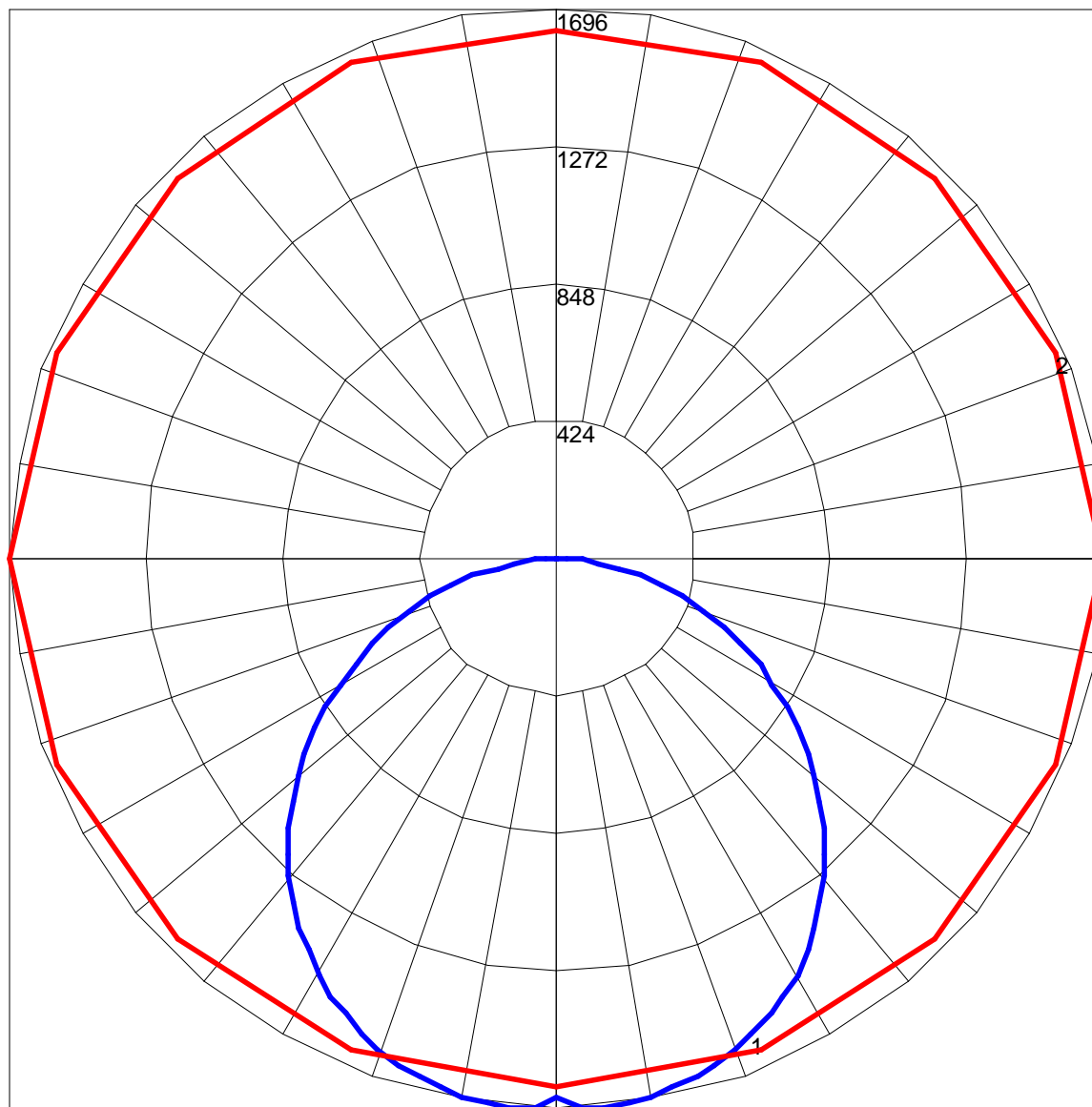
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	74	72	69
2	93	84	76	70	89	81	74	68	76	70	65	71	66	62	66	62	59	56
3	84	73	64	57	81	70	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	47	74	62	53	46	58	51	45	54	48	43	51	46	41	38
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	49	41	34	47	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	37	32	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 1696.499 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.)