



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK4-LED-30L-FL-50.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-9918\_scaled  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 09/25/19  
[TEST DATE] 03/20/18  
[MANUFACTURER] LSI INDUSTRIES, INC  
[LUMCAT] SDLRK4-LED-30L-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\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	22.6
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	7994	5200	4873
55	7473	4525	4350
65	6773	3885	3840
75	5384	3262	3387
85	2439	2763	3012

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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	790.889	790.889	790.889	790.889	790.889
2.5	810.258	798.960	792.503	786.047	779.591
5.0	810.258	797.346	792.503	786.047	779.591
7.5	808.644	795.732	790.889	784.433	779.591
10.0	805.416	792.503	789.275	784.433	777.977
12.5	798.960	787.661	784.433	781.205	776.363
15.0	792.503	782.819	779.591	777.977	773.135
17.5	782.819	773.135	773.135	773.135	768.293
20.0	771.521	763.450	765.064	766.679	763.450
22.5	758.608	750.538	755.380	760.222	756.994
25.0	742.468	737.625	744.082	750.538	750.538
27.5	726.327	721.485	731.169	740.854	740.854
30.0	706.958	705.344	716.643	729.555	731.169
32.5	685.976	685.976	702.116	718.257	718.257
35.0	663.379	666.607	682.747	703.730	705.344
37.5	639.168	644.010	664.993	687.590	690.818
40.0	613.343	619.799	644.010	669.835	674.677
42.5	587.518	595.588	623.027	652.080	656.922
45.0	558.465	569.763	598.816	632.712	640.782
47.5	529.412	542.324	576.219	613.343	623.027
50.0	498.745	514.885	552.009	593.974	603.658
52.5	471.306	484.218	527.798	571.377	585.904
55.0	434.182	455.165	500.359	548.780	563.307
57.5	403.515	424.498	474.534	526.184	542.324
60.0	371.234	393.831	450.323	503.587	521.341
62.5	338.953	364.778	424.498	479.376	498.745
65.0	301.829	334.110	398.673	455.165	474.534
67.5	267.934	303.443	372.848	432.568	451.937
70.0	232.425	272.776	347.023	408.357	429.340
72.5	195.301	240.495	322.812	385.760	406.743
75.0	159.792	214.670	298.601	363.164	385.760
77.5	125.897	188.845	276.004	342.181	364.778
80.0	92.001	164.634	255.021	321.198	343.795
82.5	62.948	142.037	234.039	300.215	322.812
85.0	33.895	121.055	214.670	280.846	303.443
87.5	14.527	101.686	196.915	263.092	285.689
90.0	1.614	85.545	179.161	243.723	267.934
92.5	0.000	71.019	163.020	225.968	248.565
95.0	1.614	59.720	146.879	208.214	230.811
97.5	1.614	50.036	132.353	192.073	213.056
100.0	1.614	40.352	117.826	175.933	196.915
102.5	1.614	33.895	106.528	159.792	180.775
105.0	1.614	29.053	93.615	146.879	166.248
107.5	0.000	24.211	83.931	133.967	151.722
110.0	0.000	19.369	74.247	121.055	138.809
112.5	0.000	16.141	66.176	109.756	125.897
115.0	0.000	14.527	58.106	98.458	114.598
117.5	0.000	11.298	50.036	88.773	103.300
120.0	0.000	9.684	43.580	79.089	92.001
122.5	0.000	8.070	38.737	69.405	82.317
125.0	0.000	6.456	33.895	62.948	74.247
127.5	0.000	4.842	27.439	54.878	64.562
130.0	1.614	4.842	24.211	46.808	56.492
132.5	0.000	3.228	19.369	40.352	48.422

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	1.614	3.228	17.755	33.895	41.966
<b>137.5</b>	1.614	1.614	14.527	29.053	35.509
<b>140.0</b>	1.614	1.614	11.298	24.211	30.667
<b>142.5</b>	0.000	1.614	9.684	20.983	24.211
<b>145.0</b>	1.614	1.614	8.070	16.141	20.983
<b>147.5</b>	1.614	1.614	4.842	12.912	16.141
<b>150.0</b>	1.614	1.614	4.842	9.684	12.912
<b>152.5</b>	1.614	1.614	3.228	8.070	9.684
<b>155.0</b>	1.614	1.614	1.614	4.842	6.456
<b>157.5</b>	1.614	1.614	1.614	3.228	4.842
<b>160.0</b>	1.614	1.614	1.614	1.614	3.228
<b>162.5</b>	1.614	1.614	1.614	1.614	1.614
<b>165.0</b>	0.000	1.614	0.000	0.000	0.000
<b>167.5</b>	1.614	1.614	0.000	0.000	0.000
<b>170.0</b>	1.614	1.614	0.000	0.000	0.000
<b>172.5</b>	1.614	0.000	0.000	0.000	0.000
<b>175.0</b>	1.614	1.614	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	296.13	N.A.	9.10
0-30	639.63	N.A.	19.70
0-40	1067.93	N.A.	32.90
0-60	1980.06	N.A.	61.10
0-80	2675.24	N.A.	82.50
0-90	2891.11	N.A.	89.20
10-90	2815.56	N.A.	86.80
20-40	771.81	N.A.	23.80
20-50	1235.35	N.A.	38.10
40-70	1302.84	N.A.	40.20
60-80	695.17	N.A.	21.40
70-80	304.46	N.A.	9.40
80-90	215.87	N.A.	6.70
90-110	239.82	N.A.	7.40
90-120	296.84	N.A.	9.20
90-130	328.34	N.A.	10.10
90-150	349.22	N.A.	10.80
90-180	351.21	N.A.	10.80
110-180	111.39	N.A.	3.40
0-180	3242.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.55
10-20	220.58
20-30	343.50
30-40	428.31
40-50	463.54
50-60	448.59
60-70	390.71
70-80	304.46
80-90	215.87
90-100	145.68
100-110	94.14
110-120	57.02
120-130	31.50
130-140	14.98
140-150	5.91
150-160	1.67
160-170	0.29
170-180	0.03

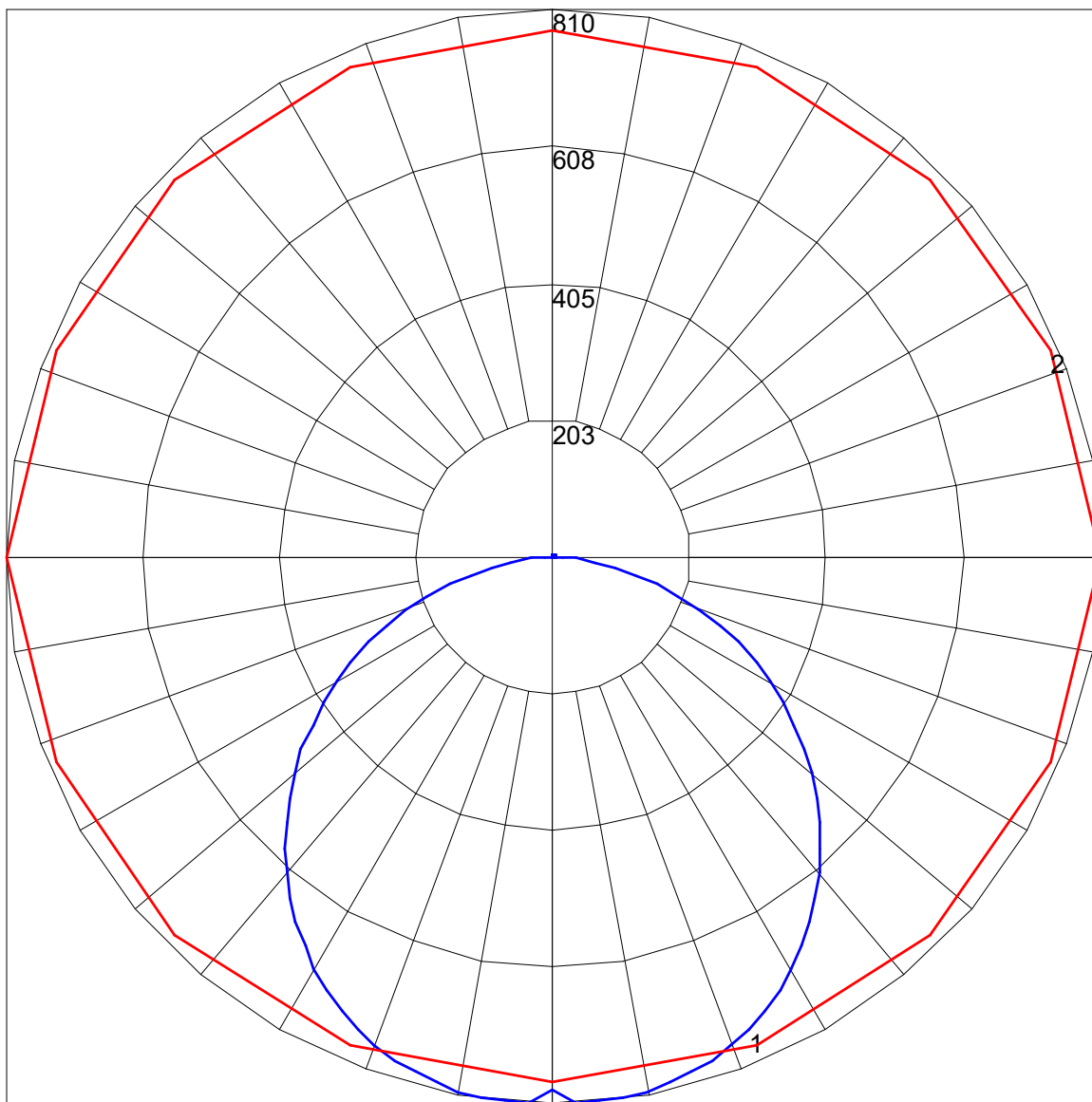
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	94	90	85	88	84	81	82	79	76	77	74	72	69
2	93	84	76	70	90	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	38	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 = 810.258 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.)