



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK8-LED-160L-FL-30.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-9829\_scaled

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 09/25/19

[TEST DATE] 03/01/18

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] SDLRK8-LED-160L-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	15743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	123.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 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	19884	13111	12343
55	18905	11508	11017
65	17254	9886	9776
75	14609	8429	8618
85	9484	7013	7004

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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	3937.325	3937.325	3937.325	3937.325	3937.325
2.5	3953.029	3957.516	3939.568	3935.081	3950.786
5.0	3950.786	3955.273	3941.812	3939.568	3953.029
7.5	3939.568	3946.299	3932.838	3939.568	3950.786
10.0	3919.377	3928.351	3921.620	3930.594	3948.542
12.5	3887.968	3899.186	3901.429	3919.377	3939.568
15.0	3849.829	3865.533	3874.507	3903.673	3919.377
17.5	3800.472	3820.663	3838.611	3876.751	3901.429
20.0	3744.385	3769.063	3798.229	3845.342	3872.264
22.5	3679.324	3708.489	3751.115	3807.202	3838.611
25.0	3603.045	3634.454	3695.028	3760.089	3798.229
27.5	3520.036	3558.175	3627.723	3708.489	3753.359
30.0	3425.809	3468.436	3553.688	3650.158	3695.028
32.5	3320.365	3374.209	3475.166	3582.853	3634.454
35.0	3210.434	3271.008	3389.913	3508.818	3567.149
37.5	3091.529	3158.834	3295.687	3430.296	3495.357
40.0	2963.650	3037.685	3196.973	3345.044	3416.835
42.5	2833.528	2916.537	3091.529	3250.817	3333.826
45.0	2696.675	2788.658	2981.598	3158.834	3246.330
47.5	2555.335	2656.292	2867.180	3055.633	3147.616
50.0	2407.265	2521.683	2748.275	2956.920	3051.146
52.5	2274.899	2375.856	2627.127	2851.476	2954.676
55.0	2106.637	2241.246	2505.978	2746.032	2853.719
57.5	1947.349	2086.446	2375.856	2638.344	2748.275
60.0	1792.548	1936.132	2243.490	2526.170	2640.588
62.5	1615.313	1788.062	2117.855	2413.995	2528.413
65.0	1447.051	1635.504	1992.219	2295.090	2416.239
67.5	1278.789	1487.434	1866.584	2176.185	2290.603
70.0	1119.502	1346.094	1743.192	2059.524	2178.429
72.5	948.996	1198.024	1622.043	1945.106	2068.498
75.0	785.221	1065.658	1509.869	1839.662	1963.054
77.5	619.203	935.535	1397.694	1731.974	1853.123
80.0	468.889	814.387	1287.763	1619.800	1743.192
82.5	325.306	699.969	1180.076	1500.895	1613.069
85.0	208.645	601.255	1061.171	1325.903	1411.155
87.5	116.661	502.542	874.961	1067.901	1121.745
90.0	58.331	376.906	646.125	796.439	848.039
92.5	31.409	298.384	531.707	655.099	695.482
95.0	20.191	255.758	477.863	603.499	646.125
97.5	15.704	219.862	439.724	558.629	601.255
100.0	11.217	206.401	415.046	524.977	567.603
102.5	11.217	177.236	432.994	500.298	536.194
105.0	8.974	152.557	459.915	529.464	540.681
107.5	8.974	127.879	417.289	614.716	637.151
110.0	6.730	109.931	370.176	607.986	697.725
112.5	6.730	91.983	334.280	551.899	643.882
115.0	6.730	78.522	298.384	498.055	583.307
117.5	6.730	67.305	264.732	453.185	533.951
120.0	6.730	56.087	233.323	406.072	482.350
122.5	6.730	47.113	201.914	363.445	430.750
125.0	6.730	40.383	177.236	323.063	383.637
127.5	6.730	33.652	152.557	284.923	341.010
130.0	6.730	29.165	130.122	246.784	300.628
132.5	6.730	24.678	109.931	215.375	262.488

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6.730	20.191	89.740	183.966	228.836
<b>137.5</b>	6.730	17.948	76.279	154.801	192.940
<b>140.0</b>	6.730	13.461	65.061	127.879	159.288
<b>142.5</b>	6.730	11.217	53.844	105.444	130.122
<b>145.0</b>	6.730	8.974	42.626	85.253	107.688
<b>147.5</b>	6.730	8.974	35.896	69.548	87.496
<b>150.0</b>	6.730	6.730	26.922	56.087	69.548
<b>152.5</b>	6.730	6.730	20.191	42.626	53.844
<b>155.0</b>	6.730	6.730	13.461	31.409	40.383
<b>157.5</b>	6.730	6.730	11.217	22.435	31.409
<b>160.0</b>	6.730	6.730	8.974	15.704	20.191
<b>162.5</b>	6.730	6.730	6.730	11.217	13.461
<b>165.0</b>	6.730	6.730	6.730	6.730	8.974
<b>167.5</b>	6.730	6.730	6.730	4.487	6.730
<b>170.0</b>	6.730	6.730	6.730	4.487	6.730
<b>172.5</b>	6.730	6.730	4.487	4.487	4.487
<b>175.0</b>	6.730	6.730	4.487	4.487	4.487
<b>177.5</b>	6.730	6.730	4.487	4.487	4.487
<b>180.0</b>	4.487	4.487	4.487	4.487	4.487

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1473.08	N.A.	9.40
0-30	3178.68	N.A.	20.20
0-40	5300.18	N.A.	33.70
0-60	9825.33	N.A.	62.40
0-80	13301.87	N.A.	84.50
0-90	14307.78	N.A.	90.90
10-90	13931.65	N.A.	88.50
20-40	3827.1	N.A.	24.30
20-50	6123.22	N.A.	38.90
40-70	6471.09	N.A.	41.10
60-80	3476.54	N.A.	22.10
70-80	1530.59	N.A.	9.70
80-90	1005.91	N.A.	6.40
90-110	849.00	N.A.	5.40
90-120	1142.56	N.A.	7.30
90-130	1309.45	N.A.	8.30
90-150	1423.01	N.A.	9.00
90-180	1435.33	N.A.	9.10
110-180	586.32	N.A.	3.70
0-180	15743.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	376.13
10-20	1096.95
20-30	1705.61
30-40	2121.5
40-50	2296.11
50-60	2229.03
60-70	1945.95
70-80	1530.59
80-90	1005.91
90-100	470.75
100-110	378.26
110-120	293.56
120-130	166.89
130-140	81.53
140-150	32.02
150-160	9.56
160-170	2.24
170-180	0.52

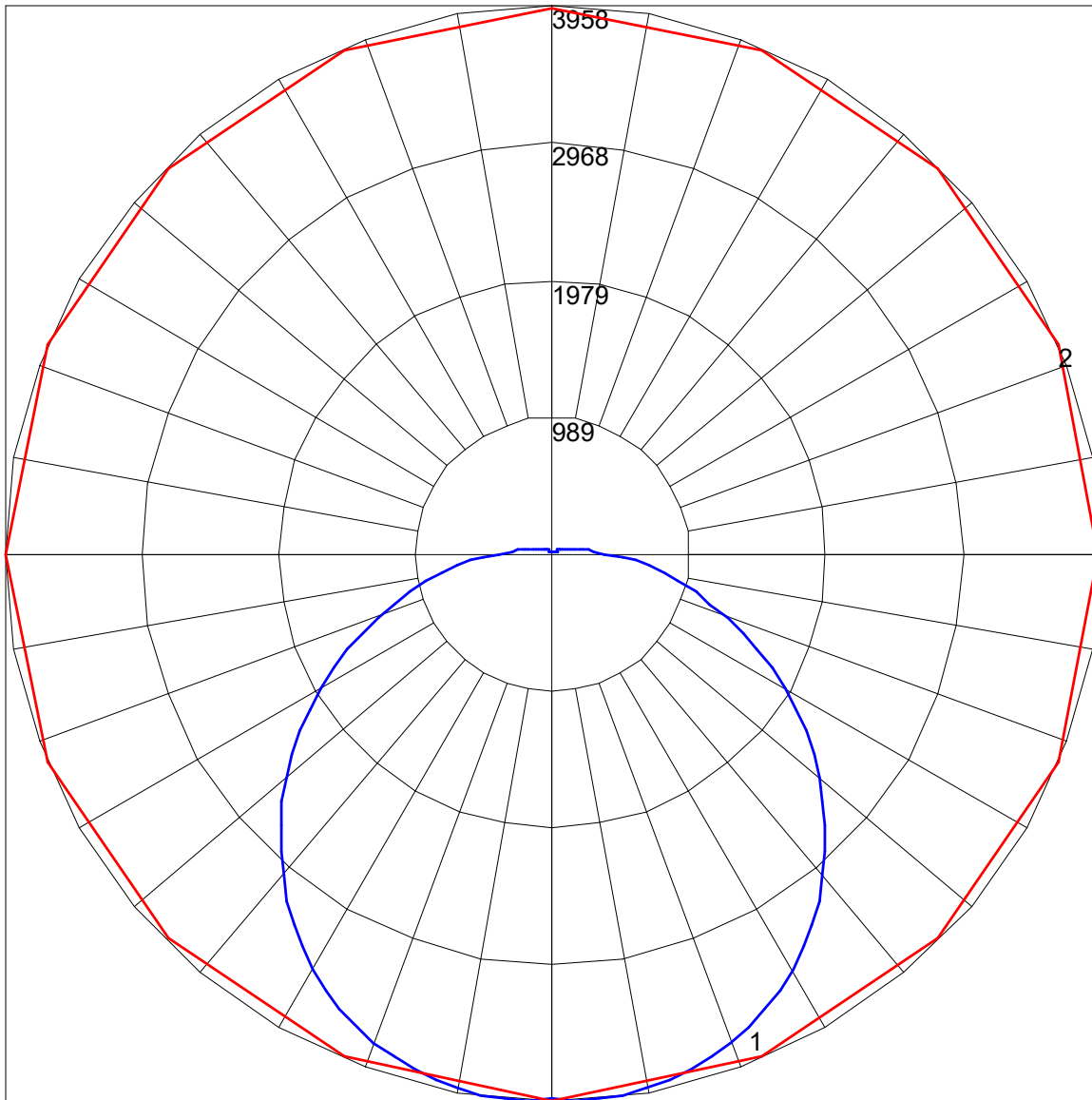
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	104	98	93	88	100	95	90	86	89	85	82	84	80	77	78	76	74	71
2	94	84	76	70	90	82	74	68	76	70	65	72	67	63	67	63	60	57
3	85	73	64	57	81	71	63	56	67	59	54	62	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39
5	71	57	48	41	68	55	47	40	52	45	39	49	43	37	46	41	36	34
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23
9	52	38	30	24	50	38	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 3957.516 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)