



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK8-LED-160L-FL-35.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-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	16319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	20612	13591	12794
55	19596	11929	11420
65	17886	10248	10134
75	15144	8737	8934
85	9831	7270	7260

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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	4081.376	4081.376	4081.376	4081.376	4081.376
2.5	4097.655	4102.306	4083.701	4079.050	4095.329
5.0	4095.329	4099.980	4086.027	4083.701	4097.655
7.5	4083.701	4090.678	4076.724	4083.701	4095.329
10.0	4062.771	4072.073	4065.097	4074.399	4093.003
12.5	4030.213	4041.841	4044.166	4062.771	4083.701
15.0	3990.678	4006.957	4016.260	4046.492	4062.771
17.5	3939.516	3960.446	3979.050	4018.585	4044.166
20.0	3881.377	3906.958	3937.190	3986.027	4013.934
22.5	3813.935	3844.167	3888.353	3946.492	3979.050
25.0	3734.866	3767.424	3830.214	3897.655	3937.190
27.5	3648.819	3688.354	3760.447	3844.167	3890.679
30.0	3551.146	3595.331	3683.703	3783.703	3830.214
32.5	3441.844	3497.657	3602.308	3713.935	3767.424
35.0	3327.891	3390.681	3513.936	3637.192	3697.656
37.5	3204.636	3274.403	3416.262	3555.797	3623.238
40.0	3072.078	3148.822	3313.937	3467.425	3541.843
42.5	2937.195	3023.241	3204.636	3369.751	3455.797
45.0	2795.335	2890.684	3090.683	3274.403	3365.100
47.5	2648.824	2753.475	2972.079	3167.426	3262.775
50.0	2495.337	2613.941	2848.823	3065.101	3162.775
52.5	2358.128	2462.779	2723.243	2955.800	3062.776
55.0	2183.710	2323.245	2597.662	2846.498	2958.125
57.5	2018.595	2162.780	2462.779	2734.870	2848.823
60.0	1858.131	2006.967	2325.570	2618.592	2737.196
62.5	1674.410	1853.479	2195.338	2502.313	2620.918
65.0	1499.993	1695.341	2065.106	2379.058	2504.639
67.5	1325.575	1541.853	1934.874	2255.803	2374.407
70.0	1160.459	1395.342	1806.968	2134.873	2258.129
72.5	983.716	1241.854	1681.387	2016.269	2144.176
75.0	813.950	1104.646	1565.109	1906.967	2034.874
77.5	641.857	969.763	1448.830	1795.340	1920.921
80.0	486.044	844.182	1334.877	1679.062	1806.968
82.5	337.208	725.578	1223.250	1555.806	1672.085
85.0	216.278	623.253	1099.995	1374.412	1462.784
87.5	120.930	520.928	906.972	1106.971	1162.785
90.0	60.465	390.696	669.764	825.577	879.066
92.5	32.558	309.301	551.160	679.066	720.927
95.0	20.930	265.115	495.346	625.578	669.764
97.5	16.279	227.906	455.812	579.067	623.253
100.0	11.628	213.952	430.230	544.183	588.369
102.5	11.628	183.720	448.835	518.602	555.811
105.0	9.302	158.139	476.742	548.835	560.462
107.5	9.302	132.557	432.556	637.206	660.462
110.0	6.977	113.953	383.719	630.229	723.252
112.5	6.977	95.348	346.510	572.090	667.439
115.0	6.977	81.395	309.301	516.277	604.648
117.5	6.977	69.767	274.417	469.765	553.486
120.0	6.977	58.139	241.859	420.928	499.998
122.5	6.977	48.837	209.301	376.742	446.509
125.0	6.977	41.860	183.720	334.882	397.672
127.5	6.977	34.884	158.139	295.347	353.487
130.0	6.977	30.232	134.883	255.813	311.626
132.5	6.977	25.581	113.953	223.255	272.092

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6.977	20.930	93.023	190.697	237.208
<b>137.5</b>	6.977	18.605	79.069	160.464	199.999
<b>140.0</b>	6.977	13.953	67.442	132.557	165.115
<b>142.5</b>	6.977	11.628	55.814	109.302	134.883
<b>145.0</b>	6.977	9.302	44.186	88.372	111.627
<b>147.5</b>	6.977	9.302	37.209	72.093	90.697
<b>150.0</b>	6.977	6.977	27.907	58.139	72.093
<b>152.5</b>	6.977	6.977	20.930	44.186	55.814
<b>155.0</b>	6.977	6.977	13.953	32.558	41.860
<b>157.5</b>	6.977	6.977	11.628	23.256	32.558
<b>160.0</b>	6.977	6.977	9.302	16.279	20.930
<b>162.5</b>	6.977	6.977	6.977	11.628	13.953
<b>165.0</b>	6.977	6.977	6.977	6.977	9.302
<b>167.5</b>	6.977	6.977	6.977	4.651	6.977
<b>170.0</b>	6.977	6.977	6.977	4.651	6.977
<b>172.5</b>	6.977	6.977	4.651	4.651	4.651
<b>175.0</b>	6.977	6.977	4.651	4.651	4.651
<b>177.5</b>	6.977	6.977	4.651	4.651	4.651
<b>180.0</b>	4.651	4.651	4.651	4.651	4.651

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1526.97	N.A.	9.40
0-30	3294.98	N.A.	20.20
0-40	5494.1	N.A.	33.70
0-60	10184.79	N.A.	62.40
0-80	13788.53	N.A.	84.50
0-90	14831.24	N.A.	90.90
10-90	14441.35	N.A.	88.50
20-40	3967.12	N.A.	24.30
20-50	6347.24	N.A.	38.90
40-70	6707.85	N.A.	41.10
60-80	3603.73	N.A.	22.10
70-80	1586.59	N.A.	9.70
80-90	1042.71	N.A.	6.40
90-110	880.06	N.A.	5.40
90-120	1184.36	N.A.	7.30
90-130	1357.36	N.A.	8.30
90-150	1475.07	N.A.	9.00
90-180	1487.84	N.A.	9.10
110-180	607.78	N.A.	3.70
0-180	16319.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	389.89
10-20	1137.08
20-30	1768.01
30-40	2199.12
40-50	2380.12
50-60	2310.58
60-70	2017.15
70-80	1586.59
80-90	1042.71
90-100	487.97
100-110	392.10
110-120	304.30
120-130	173.00
130-140	84.52
140-150	33.19
150-160	9.91
160-170	2.32
170-180	0.54

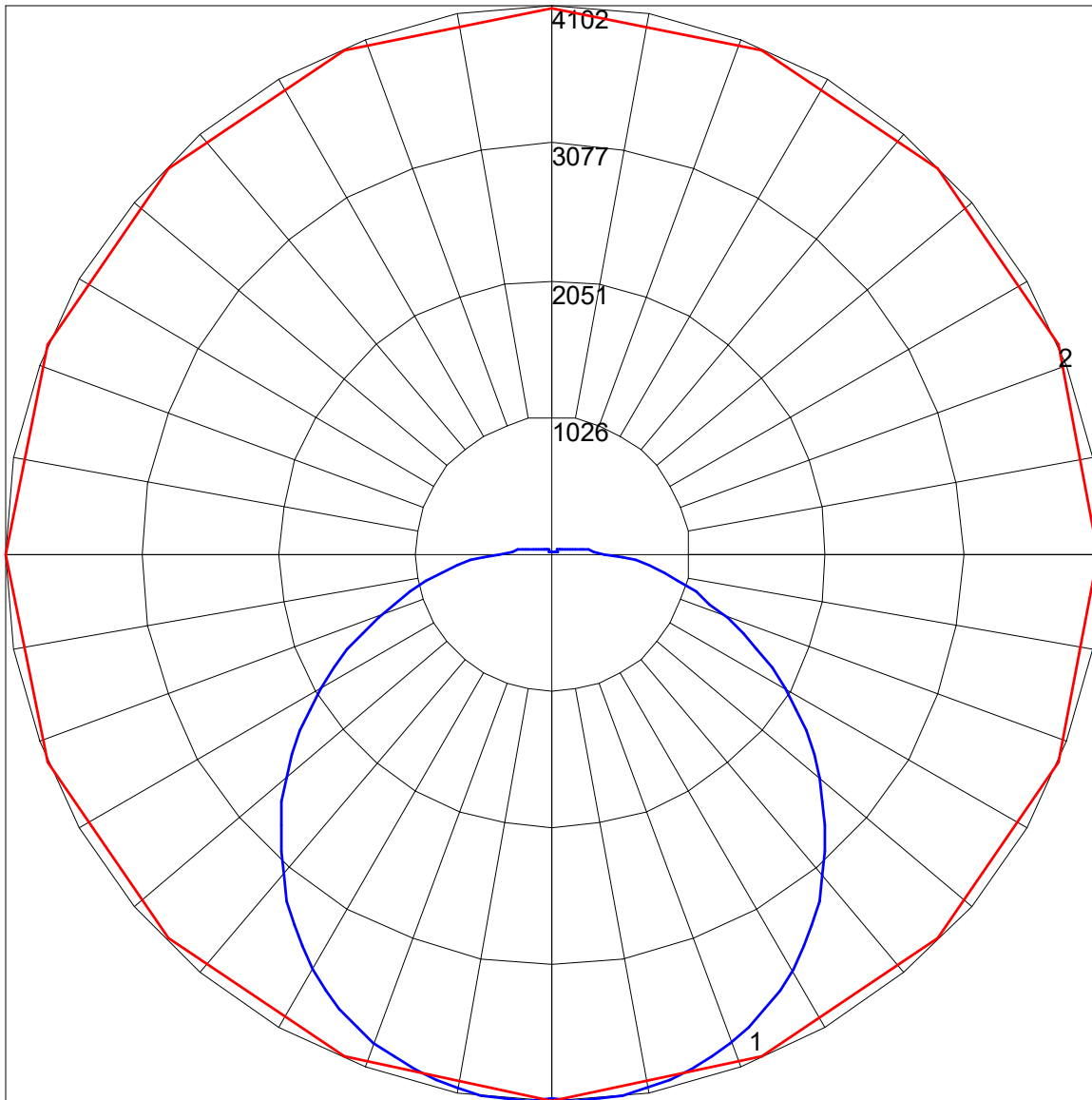
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4102.306 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.)