



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-180L-FL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9829_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]03/01/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL8-LED-180L-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 SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	142.3
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	24420	16102	15158
55	23217	14133	13530
65	21190	12142	12006
75	17941	10351	10584
85	11648	8613	8601

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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	4835.411	4835.411	4835.411	4835.411	4835.411
2.5	4854.698	4860.208	4838.166	4832.656	4851.942
5.0	4851.942	4857.453	4840.921	4838.166	4854.698
7.5	4838.166	4846.432	4829.901	4838.166	4851.942
10.0	4813.369	4824.390	4816.124	4827.145	4849.187
12.5	4774.796	4788.572	4791.327	4813.369	4838.166
15.0	4727.957	4747.244	4758.265	4794.083	4813.369
17.5	4667.343	4692.140	4714.181	4761.020	4791.327
20.0	4598.462	4628.769	4664.587	4722.447	4755.510
22.5	4518.561	4554.379	4606.728	4675.608	4714.181
25.0	4424.883	4463.456	4537.847	4617.749	4664.587
27.5	4322.940	4369.779	4455.191	4554.379	4609.483
30.0	4207.221	4259.570	4364.268	4482.743	4537.847
32.5	4077.726	4143.851	4267.836	4400.086	4463.456
35.0	3942.720	4017.111	4163.137	4309.164	4380.800
37.5	3796.693	3879.350	4047.418	4212.731	4292.633
40.0	3639.646	3730.568	3926.188	4108.033	4196.200
42.5	3479.843	3581.786	3796.693	3992.314	4094.257
45.0	3311.774	3424.738	3661.687	3879.350	3986.803
47.5	3138.196	3262.180	3521.171	3752.610	3865.574
50.0	2956.351	3096.867	3375.144	3631.380	3747.099
52.5	2793.793	2917.778	3226.363	3501.885	3628.625
55.0	2587.152	2752.465	3077.581	3372.389	3504.640
57.5	2391.531	2562.355	2917.778	3240.139	3375.144
60.0	2201.421	2377.755	2755.220	3102.378	3242.894
62.5	1983.758	2195.910	2600.928	2964.617	3105.133
65.0	1777.117	2008.555	2446.635	2818.590	2967.372
67.5	1570.475	1826.711	2292.343	2672.563	2813.080
70.0	1374.855	1653.132	2140.806	2529.292	2675.319
72.5	1165.458	1471.287	1992.024	2388.776	2540.313
75.0	964.327	1308.729	1854.263	2259.280	2410.817
77.5	760.441	1148.927	1716.502	2127.030	2275.812
80.0	575.841	1000.145	1581.496	1989.269	2140.806
82.5	399.507	859.629	1449.246	1843.242	1981.003
85.0	256.235	738.399	1303.219	1628.335	1733.033
87.5	143.271	617.169	1074.536	1311.485	1377.610
90.0	71.636	462.877	793.503	978.103	1041.473
92.5	38.573	366.444	652.987	804.524	854.118
95.0	24.797	314.095	586.862	741.154	793.503
97.5	19.287	270.012	540.023	686.050	738.399
100.0	13.776	253.480	509.716	644.721	697.071
102.5	13.776	217.662	531.757	614.414	658.498
105.0	11.021	187.355	564.820	650.232	664.008
107.5	11.021	157.048	512.471	754.930	782.482
110.0	8.266	135.006	454.611	746.665	856.873
112.5	8.266	112.964	410.528	677.784	790.748
115.0	8.266	96.433	366.444	611.659	716.357
117.5	8.266	82.657	325.116	556.554	655.742
120.0	8.266	68.880	286.543	498.695	592.372
122.5	8.266	57.860	247.970	446.346	529.002
125.0	8.266	49.594	217.662	396.752	471.143
127.5	8.266	41.328	187.355	349.913	418.793
130.0	8.266	35.818	159.803	303.074	369.199
132.5	8.266	30.307	135.006	264.501	322.361

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CANDELA TABULATION - (Cont.)

135.0	8.266	24.797	110.209	225.928	281.032
137.5	8.266	22.042	93.677	190.110	236.949
140.0	8.266	16.531	79.901	157.048	195.621
142.5	8.266	13.776	66.125	129.495	159.803
145.0	8.266	11.021	52.349	104.698	132.251
147.5	8.266	11.021	44.084	85.412	107.454
150.0	8.266	8.266	33.063	68.880	85.412
152.5	8.266	8.266	24.797	52.349	66.125
155.0	8.266	8.266	16.531	38.573	49.594
157.5	8.266	8.266	13.776	27.552	38.573
160.0	8.266	8.266	11.021	19.287	24.797
162.5	8.266	8.266	8.266	13.776	16.531
165.0	8.266	8.266	8.266	8.266	11.021
167.5	8.266	8.266	8.266	5.510	8.266
170.0	8.266	8.266	8.266	5.510	8.266
172.5	8.266	8.266	5.510	5.510	5.510
175.0	8.266	8.266	5.510	5.510	5.510
177.5	8.266	8.266	5.510	5.510	5.510
180.0	5.510	5.510	5.510	5.510	5.510

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1809.08	N.A.	9.40
0-30	3903.73	N.A.	20.20
0-40	6509.13	N.A.	33.70
0-60	12066.44	N.A.	62.40
0-80	16335.96	N.A.	84.50
0-90	17571.32	N.A.	90.90
10-90	17109.4	N.A.	88.50
20-40	4700.05	N.A.	24.30
20-50	7519.9	N.A.	38.90
40-70	7947.12	N.A.	41.10
60-80	4269.52	N.A.	22.10
70-80	1879.71	N.A.	9.70
80-90	1235.36	N.A.	6.40
90-110	1042.66	N.A.	5.40
90-120	1403.17	N.A.	7.30
90-130	1608.13	N.A.	8.30
90-150	1747.59	N.A.	9.00
90-180	1762.72	N.A.	9.10
110-180	720.06	N.A.	3.70
0-180	19334.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	461.92
10-20	1347.16
20-30	2094.65
30-40	2605.4
40-50	2819.85
50-60	2737.46
60-70	2389.82
70-80	1879.71
80-90	1235.36
90-100	578.12
100-110	464.54
110-120	360.52
120-130	204.96
130-140	100.13
140-150	39.32
150-160	11.74
160-170	2.75
170-180	0.64

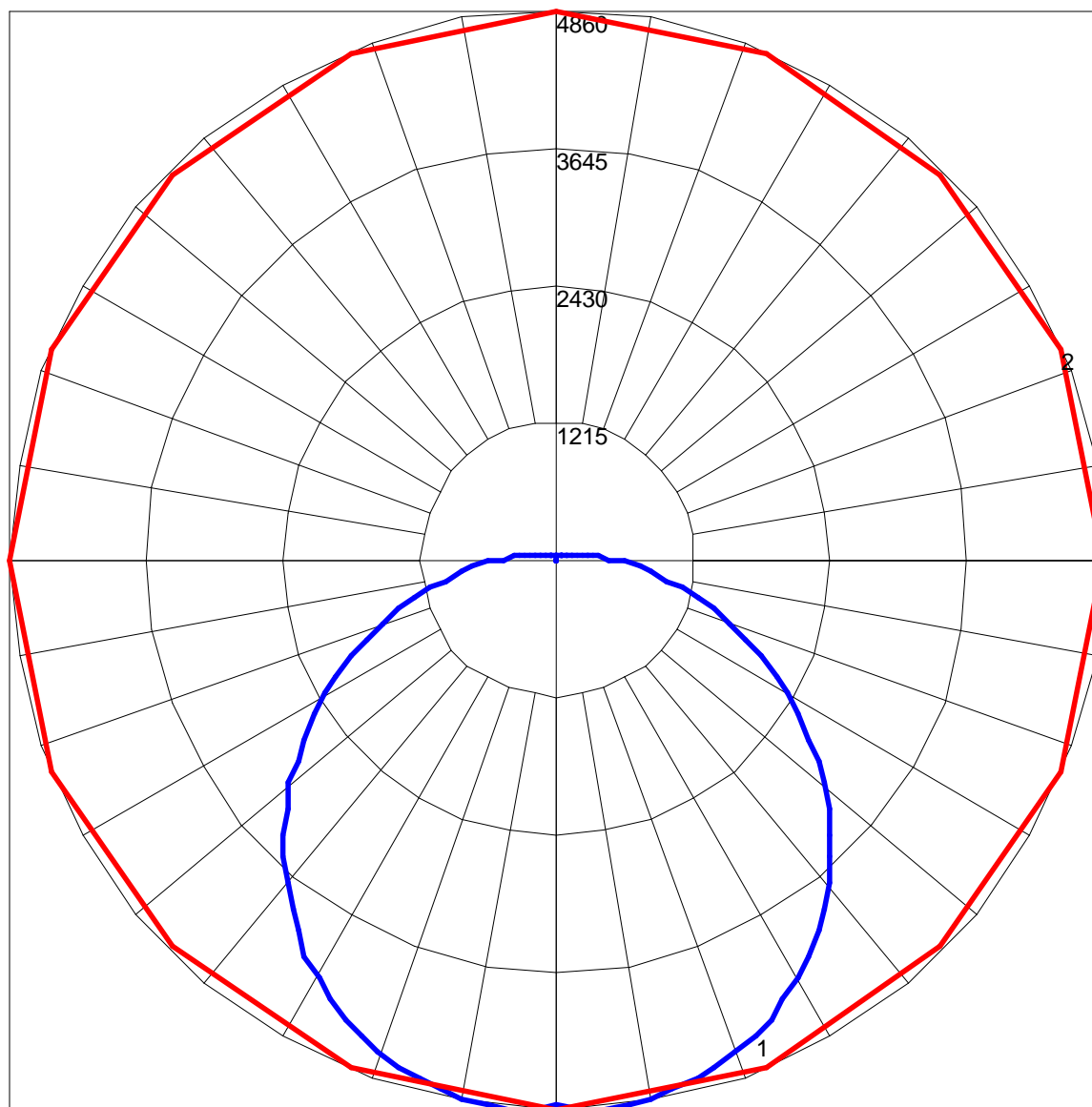
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4860.208 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.)