



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-140L-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-140L-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	15070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	106.2
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	19034	12551	11815
55	18097	11016	10546
65	16517	9464	9358
75	13984	8068	8250
85	9079	6713	6704

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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	3769.003	3769.003	3769.003	3769.003	3769.003
2.5	3784.036	3788.331	3771.150	3766.855	3781.888
5.0	3781.888	3786.183	3773.298	3771.150	3784.036
7.5	3771.150	3777.593	3764.708	3771.150	3781.888
10.0	3751.822	3760.412	3753.970	3762.560	3779.741
12.5	3721.756	3732.494	3734.641	3751.822	3771.150
15.0	3685.247	3700.280	3708.871	3736.789	3751.822
17.5	3638.000	3657.329	3674.509	3711.018	3734.641
20.0	3584.311	3607.934	3635.853	3680.952	3706.723
22.5	3522.031	3549.950	3590.754	3644.443	3674.509
25.0	3449.013	3479.079	3537.064	3599.344	3635.853
27.5	3369.553	3406.062	3472.637	3549.950	3592.901
30.0	3279.355	3320.159	3401.767	3494.113	3537.064
32.5	3178.418	3229.960	3326.601	3429.685	3479.079
35.0	3073.187	3131.172	3244.993	3358.815	3414.652
37.5	2959.365	3023.793	3154.795	3283.650	3345.929
40.0	2836.953	2907.823	3060.301	3202.042	3270.764
42.5	2712.393	2791.854	2959.365	3111.843	3191.304
45.0	2581.391	2669.442	2854.134	3023.793	3107.548
47.5	2446.094	2542.735	2744.607	2925.004	3013.055
50.0	2304.353	2413.880	2630.785	2830.510	2920.709
52.5	2177.646	2274.287	2514.816	2729.574	2828.363
55.0	2016.578	2145.432	2398.847	2628.638	2731.722
57.5	1864.099	1997.249	2274.287	2525.554	2630.785
60.0	1715.916	1853.361	2147.580	2418.175	2527.702
62.5	1546.258	1711.621	2027.315	2310.796	2420.323
65.0	1385.189	1565.586	1907.051	2196.974	2312.944
67.5	1224.121	1423.845	1786.786	2083.153	2192.679
70.0	1071.642	1288.548	1668.670	1971.478	2085.300
72.5	908.426	1146.808	1552.700	1861.952	1980.069
75.0	751.653	1020.100	1445.321	1761.016	1879.132
77.5	592.732	895.541	1337.942	1657.932	1773.901
80.0	448.844	779.572	1232.711	1550.553	1668.670
82.5	311.399	670.045	1129.627	1436.731	1544.110
85.0	199.725	575.551	1015.805	1269.220	1350.828
87.5	111.674	481.058	837.556	1022.248	1073.790
90.0	55.837	360.793	618.503	762.391	811.785
92.5	30.066	285.628	508.976	627.093	665.750
95.0	19.328	244.824	457.435	577.699	618.503
97.5	15.033	210.463	420.926	534.747	575.551
100.0	10.738	197.577	397.302	502.534	543.338
102.5	10.738	169.659	414.483	478.910	513.272
105.0	8.590	146.035	440.254	506.829	517.567
107.5	8.590	122.412	399.450	588.437	609.913
110.0	6.443	105.231	354.351	581.994	667.897
112.5	6.443	88.051	319.989	528.305	616.355
115.0	6.443	75.165	285.628	476.763	558.371
117.5	6.443	64.427	253.414	433.811	511.124
120.0	6.443	53.689	223.348	388.712	461.730
122.5	6.443	45.099	193.282	347.908	412.335
125.0	6.443	38.656	169.659	309.252	367.236
127.5	6.443	32.214	146.035	272.743	326.432
130.0	6.443	27.919	124.560	236.234	287.776
132.5	6.443	23.623	105.231	206.168	251.267

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CANDELA TABULATION - (Cont.)

135.0	6.443	19.328	85.903	176.102	219.053
137.5	6.443	17.181	73.018	148.183	184.692
140.0	6.443	12.885	62.280	122.412	152.478
142.5	6.443	10.738	51.542	100.936	124.560
145.0	6.443	8.590	40.804	81.608	103.084
147.5	6.443	8.590	34.361	66.575	83.756
150.0	6.443	6.443	25.771	53.689	66.575
152.5	6.443	6.443	19.328	40.804	51.542
155.0	6.443	6.443	12.885	30.066	38.656
157.5	6.443	6.443	10.738	21.476	30.066
160.0	6.443	6.443	8.590	15.033	19.328
162.5	6.443	6.443	6.443	10.738	12.885
165.0	6.443	6.443	6.443	6.443	8.590
167.5	6.443	6.443	6.443	4.295	6.443
170.0	6.443	6.443	6.443	4.295	6.443
172.5	6.443	6.443	4.295	4.295	4.295
175.0	6.443	6.443	4.295	4.295	4.295
177.5	6.443	6.443	4.295	4.295	4.295
180.0	4.295	4.295	4.295	4.295	4.295

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1410.1	N.A.	9.40
0-30	3042.79	N.A.	20.20
0-40	5073.6	N.A.	33.70
0-60	9405.29	N.A.	62.40
0-80	12733.21	N.A.	84.50
0-90	13696.12	N.A.	90.90
10-90	13336.07	N.A.	88.50
20-40	3663.49	N.A.	24.30
20-50	5861.45	N.A.	38.90
40-70	6194.45	N.A.	41.10
60-80	3327.92	N.A.	22.10
70-80	1465.16	N.A.	9.70
80-90	962.91	N.A.	6.40
90-110	812.71	N.A.	5.40
90-120	1093.72	N.A.	7.30
90-130	1253.47	N.A.	8.30
90-150	1362.17	N.A.	9.00
90-180	1373.97	N.A.	9.10
110-180	561.26	N.A.	3.70
0-180	15070.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	360.05
10-20	1050.06
20-30	1632.69
30-40	2030.8
40-50	2197.95
50-60	2133.74
60-70	1862.76
70-80	1465.16
80-90	962.91
90-100	450.62
100-110	362.09
110-120	281.01
120-130	159.76
130-140	78.05
140-150	30.65
150-160	9.15
160-170	2.14
170-180	0.50

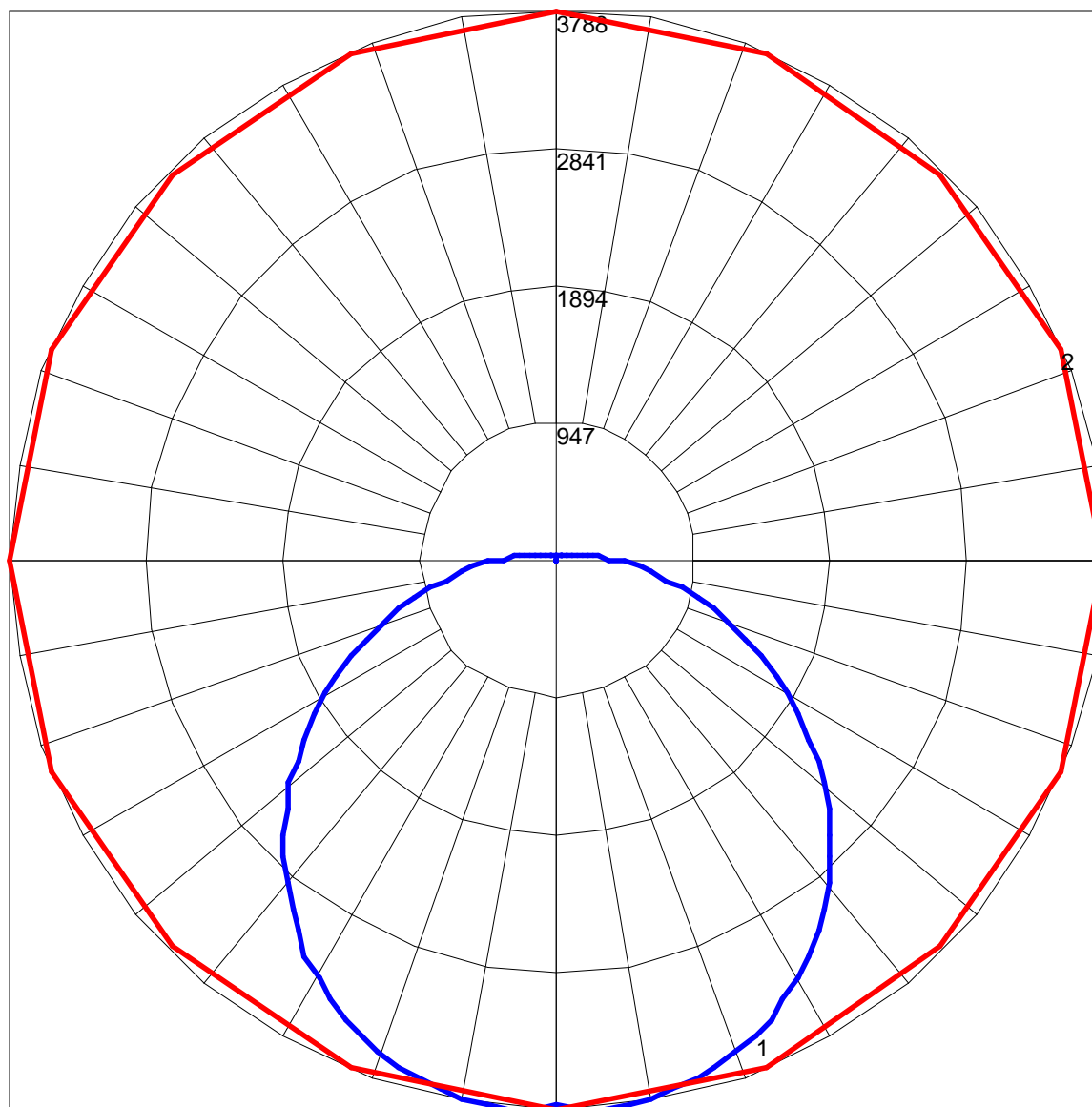
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3788.331 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.)