



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL8-LED-180L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9815
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]02/28/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL8-LED-180L-FL-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18019
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	142.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.42
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	22858	15053	14155
55	21699	13211	12694
65	19937	11359	11212
75	16428	9635	9891
85	9773	7884	7758

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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	4469	4469	4469	4469	4469
2.5	4490	4491	4474	4467	4485
5.0	4490	4490	4475	4474	4490
7.5	4479	4481	4471	4475	4490
10.0	4458	4462	4458	4469	4488
12.5	4428	4434	4436	4457	4478
15.0	4383	4397	4408	4439	4464
17.5	4328	4348	4372	4415	4442
20.0	4266	4288	4327	4382	4414
22.5	4188	4217	4274	4342	4380
25.0	4107	4137	4213	4296	4337
27.5	4013	4050	4140	4238	4287
30.0	3908	3954	4060	4173	4228
32.5	3795	3850	3974	4100	4162
35.0	3672	3737	3880	4015	4086
37.5	3541	3614	3776	3927	4001
40.0	3401	3485	3664	3830	3914
42.5	3253	3343	3547	3727	3819
45.0	3100	3199	3423	3622	3723
47.5	2931	3044	3288	3510	3619
50.0	2774	2885	3155	3398	3513
52.5	2599	2725	3018	3281	3402
55.0	2418	2566	2877	3158	3288
57.5	2237	2404	2729	3031	3156
60.0	2055	2234	2584	2900	3030
62.5	1866	2063	2434	2766	2903
65.0	1672	1886	2289	2633	2771
67.5	1471	1713	2142	2498	2638
70.0	1277	1541	1999	2366	2508
72.5	1073	1380	1862	2237	2380
75.0	883	1221	1726	2108	2253
77.5	698	1074	1600	1979	2114
80.0	522	936	1472	1845	1977
82.5	358	806	1350	1683	1793
85.0	215	691	1193	1474	1563
87.5	99	575	985	1197	1264
90.0	36	436	764	957	1031
92.5	16	345	604	765	831
95.0	12	296	544	689	736
97.5	11	259	498	637	685
100.0	10	240	481	599	646
102.5	9	203	495	593	629
105.0	8	172	517	631	655
107.5	8	141	484	672	719
110.0	8	121	429	694	751
112.5	8	103	384	642	744
115.0	8	88	341	578	675
117.5	8	75	298	522	611
120.0	7	62	264	468	552
122.5	8	53	233	413	493
125.0	8	45	204	367	433
127.5	7	38	176	325	386
130.0	8	32	148	286	342
132.5	8	27	125	249	297

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CANDELA TABULATION - (Cont.)

135.0	8	23	105	215	260
137.5	8	20	89	178	223
140.0	8	16	75	148	184
142.5	8	14	62	123	152
145.0	8	12	51	102	125
147.5	8	12	42	83	102
150.0	8	11	33	66	82
152.5	8	10	25	52	63
155.0	8	9	19	39	49
157.5	8	9	14	28	37
160.0	8	8	12	21	26
162.5	8	8	10	15	18
165.0	7	8	9	11	14
167.5	7	8	7	9	11
170.0	8	8	7	7	9
172.5	8	8	7	7	7
175.0	8	7	6	6	6
177.5	8	7	6	5	6
180.0	6	6	6	6	6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1675.61	N.A.	9.30
0-30	3620.58	N.A.	20.10
0-40	6047.82	N.A.	33.60
0-60	11242.91	N.A.	62.40
0-80	15231.93	N.A.	84.50
0-90	16369.56	N.A.	90.80
10-90	15942.28	N.A.	88.50
20-40	4372.21	N.A.	24.30
20-50	7006.39	N.A.	38.90
40-70	7431.65	N.A.	41.20
60-80	3989.02	N.A.	22.10
70-80	1752.46	N.A.	9.70
80-90	1137.64	N.A.	6.30
90-110	976.10	N.A.	5.40
90-120	1312.41	N.A.	7.30
90-130	1502.79	N.A.	8.30
90-150	1634.32	N.A.	9.10
90-180	1649.8	N.A.	9.20
110-180	673.69	N.A.	3.70
0-180	18019.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	427.28
10-20	1248.33
20-30	1944.98
30-40	2427.24
40-50	2634.18
50-60	2560.9
60-70	2236.56
70-80	1752.46
80-90	1137.64
90-100	542.53
100-110	433.57
110-120	336.31
120-130	190.38
130-140	93.79
140-150	37.74
150-160	11.84
160-170	2.96
170-180	0.67

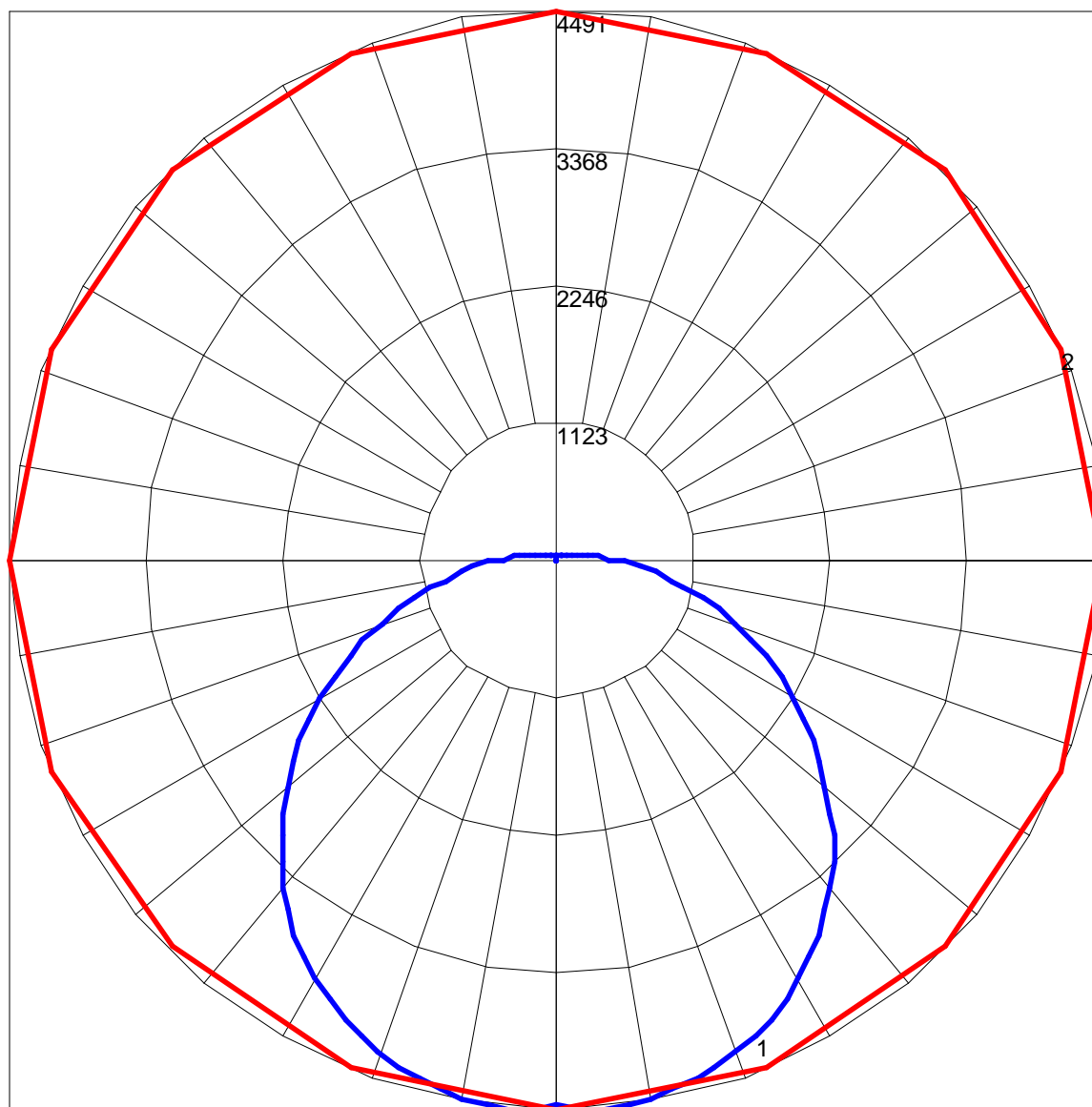
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	78	76	74	71
2	94	84	77	70	90	82	74	68	76	70	65	72	67	62	67	63	60	57
3	85	73	64	57	81	71	63	56	66	59	54	62	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	43	52	46	42	39
5	71	57	48	41	68	55	47	40	52	44	39	49	43	37	46	41	36	34
6	65	51	42	35	63	50	41	34	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	25
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	37	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 = 4491 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.)