



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-160L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9824
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]03/01/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL8-LED-160L-FL-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	123.7
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	20314	13390	12592
55	19339	11770	11316
65	17838	10158	10018
75	14754	8653	8859
85	8682	7118	6998

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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	3958	3958	3958	3958	3958
2.5	3976	3977	3963	3958	3972
5.0	3977	3977	3965	3964	3978
7.5	3968	3968	3961	3965	3979
10.0	3949	3952	3950	3960	3977
12.5	3921	3927	3932	3950	3968
15.0	3884	3894	3908	3934	3956
17.5	3838	3852	3876	3912	3938
20.0	3780	3801	3838	3884	3915
22.5	3716	3739	3792	3849	3885
25.0	3643	3669	3738	3808	3849
27.5	3562	3593	3676	3760	3806
30.0	3466	3506	3605	3703	3754
32.5	3366	3415	3530	3637	3698
35.0	3258	3315	3445	3563	3634
37.5	3143	3207	3355	3487	3556
40.0	3020	3093	3258	3404	3479
42.5	2890	2971	3153	3311	3398
45.0	2755	2841	3045	3218	3312
47.5	2612	2710	2929	3122	3223
50.0	2469	2569	2812	3023	3129
52.5	2322	2426	2688	2920	3032
55.0	2155	2284	2563	2811	2931
57.5	1992	2139	2434	2703	2826
60.0	1834	1988	2306	2588	2705
62.5	1664	1839	2178	2469	2592
65.0	1496	1689	2047	2349	2476
67.5	1324	1534	1920	2230	2359
70.0	1151	1383	1797	2113	2244
72.5	963	1236	1668	1998	2130
75.0	793	1095	1550	1883	2018
77.5	626	964	1432	1768	1904
80.0	467	841	1320	1656	1774
82.5	320	726	1212	1516	1616
85.0	191	620	1077	1328	1410
87.5	85	518	895	1082	1147
90.0	24	394	683	864	925
92.5	12	308	535	677	740
95.0	10	263	481	606	649
97.5	9	236	442	562	604
100.0	8	212	423	528	567
102.5	8	179	447	516	551
105.0	7	152	457	553	572
107.5	7	127	429	586	630
110.0	7	107	382	611	653
112.5	7	92	340	565	660
115.0	7	79	303	511	600
117.5	7	67	270	459	541
120.0	7	56	236	412	489
122.5	7	47	209	371	437
125.0	7	39	181	330	394
127.5	7	34	157	291	349
130.0	7	28	134	259	308
132.5	7	24	113	222	271

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CANDELA TABULATION - (Cont.)

135.0	7	20	94	193	231
137.5	7	18	79	162	200
140.0	7	15	67	134	166
142.5	7	13	55	110	138
145.0	7	11	45	90	112
147.5	7	10	37	73	90
150.0	7	9	29	58	72
152.5	7	9	23	46	57
155.0	7	8	18	35	45
157.5	7	8	13	26	33
160.0	7	8	11	19	25
162.5	7	7	9	15	17
165.0	7	7	8	10	13
167.5	6	7	7	8	10
170.0	6	6	6	6	8
172.5	7	7	6	6	6
175.0	7	7	5	5	5
177.5	7	7	5	5	5
180.0	6	6	6	6	6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1484.8	N.A.	9.30
0-30	3210.18	N.A.	20.00
0-40	5365.09	N.A.	33.40
0-60	9989.73	N.A.	62.30
0-80	13559.02	N.A.	84.50
0-90	14583.45	N.A.	90.90
10-90	14204.93	N.A.	88.50
20-40	3880.29	N.A.	24.20
20-50	6223.01	N.A.	38.80
40-70	6623.92	N.A.	41.30
60-80	3569.29	N.A.	22.20
70-80	1570.01	N.A.	9.80
80-90	1024.43	N.A.	6.40
90-110	863.09	N.A.	5.40
90-120	1160.92	N.A.	7.20
90-130	1331.33	N.A.	8.30
90-150	1449.26	N.A.	9.00
90-180	1463.22	N.A.	9.10
110-180	600.13	N.A.	3.70
0-180	16046.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	378.52
10-20	1106.28
20-30	1725.37
30-40	2154.91
40-50	2342.72
50-60	2281.92
60-70	1999.28
70-80	1570.01
80-90	1024.43
90-100	481.35
100-110	381.74
110-120	297.82
120-130	170.41
130-140	84.31
140-150	33.62
150-160	10.66
160-170	2.71
170-180	0.58

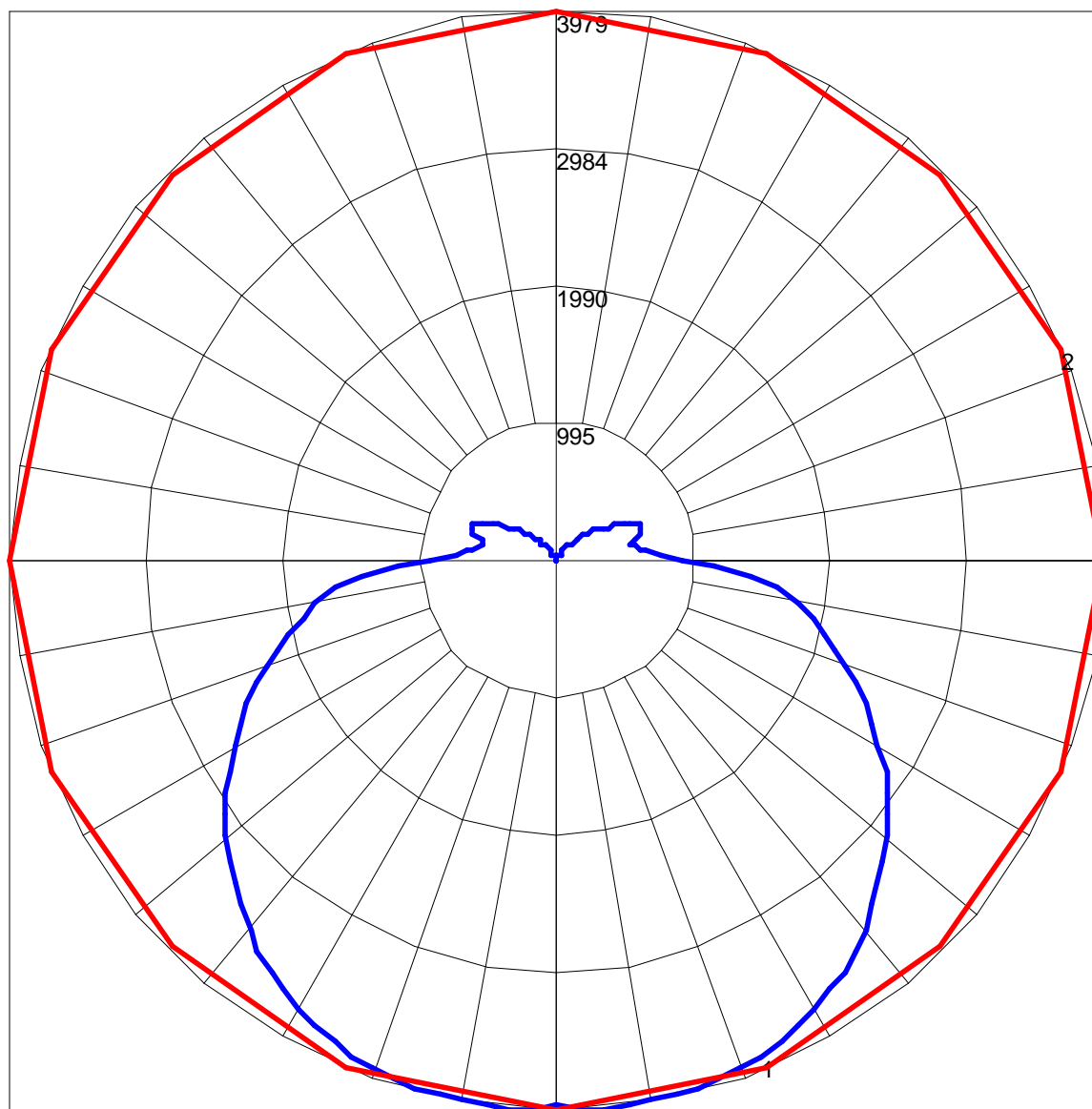
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	80	77	78	76	74	71
2	94	84	76	70	90	81	74	68	76	70	65	72	67	62	67	63	60	57
3	85	73	64	57	81	71	62	56	66	59	54	62	56	51	59	54	49	47
4	77	64	55	47	74	62	53	47	59	51	45	55	49	43	52	46	42	39
5	71	57	47	40	68	55	46	40	52	44	38	49	42	37	46	41	36	33
6	65	51	42	35	63	50	41	34	47	39	33	44	37	32	42	36	31	29
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	38	32	28	25
8	56	42	33	27	54	41	32	27	39	31	26	37	30	25	35	29	25	22
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	34	27	22	33	26	21	31	25	20	30	24	20	18

POLAR GRAPH



Maximum Candela = 3979 Located At Horizontal Angle = 90, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)