



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-80L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9690
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]02/08/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL4-LED-80L-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	8048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	61.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 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	19910	12956	12129
55	18624	11260	10833
65	16851	9638	9549
75	13409	8083	8403
85	6765	6808	7475

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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	1972	1972	1972	1972	1972
2.5	2021	1988	1973	1957	1939
5.0	2021	1988	1973	1958	1940
7.5	2016	1984	1971	1957	1940
10.0	2007	1976	1965	1953	1938
12.5	1993	1963	1955	1947	1933
15.0	1975	1947	1942	1938	1926
17.5	1951	1926	1925	1926	1916
20.0	1923	1901	1904	1911	1903
22.5	1891	1871	1881	1894	1889
25.0	1853	1837	1853	1871	1869
27.5	1808	1800	1821	1847	1847
30.0	1760	1757	1785	1818	1822
32.5	1708	1709	1745	1786	1792
35.0	1651	1657	1701	1751	1757
37.5	1592	1602	1654	1711	1721
40.0	1527	1543	1603	1668	1680
42.5	1460	1482	1550	1622	1639
45.0	1391	1418	1492	1575	1595
47.5	1315	1347	1432	1525	1549
50.0	1241	1274	1371	1473	1502
52.5	1161	1203	1309	1418	1453
55.0	1082	1130	1245	1363	1403
57.5	1001	1055	1180	1306	1348
60.0	919	980	1116	1247	1294
62.5	836	904	1053	1188	1236
65.0	751	829	989	1128	1180
67.5	662	751	923	1070	1123
70.0	574	674	862	1013	1066
72.5	488	599	800	955	1011
75.0	398	531	740	900	957
77.5	314	465	684	847	903
80.0	234	404	630	793	853
82.5	159	346	578	743	801
85.0	94	295	529	694	753
87.5	41	250	483	648	707
90.0	12	209	440	603	661
92.5	4	174	398	557	616
95.0	3	145	359	514	571
97.5	3	120	323	471	524
100.0	3	100	289	431	483
102.5	3	84	258	395	445
105.0	3	70	231	361	410
107.5	3	58	205	329	375
110.0	3	49	182	299	343
112.5	3	41	161	269	311
115.0	3	35	142	242	281
117.5	2	29	125	217	253
120.0	2	25	109	193	228
122.5	2	20	95	172	203
125.0	2	17	82	152	181
127.5	2	14	70	133	159
130.0	2	11	60	116	140
132.5	2	9	51	100	121

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CANDELA TABULATION - (Cont.)

135.0	2	7	43	85	104
137.5	2	6	36	72	88
140.0	2	5	30	61	75
142.5	2	4	24	51	63
145.0	2	3	20	42	52
147.5	2	3	15	33	42
150.0	2	3	12	26	32
152.5	2	2	9	20	25
155.0	2	2	6	14	18
157.5	2	2	4	10	13
160.0	2	2	3	6	8
162.5	2	2	2	3	5
165.0	2	2	2	2	2
167.5	2	2	2	2	2
170.0	2	2	2	2	1
172.5	2	2	2	2	1
175.0	2	2	2	2	1
177.5	2	2	2	2	1
180.0	2	2	2	2	2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	737.74	N.A.	9.20
0-30	1593.67	N.A.	19.80
0-40	2659.79	N.A.	33.10
0-60	4926.51	N.A.	61.20
0-80	6649.51	N.A.	82.60
0-90	7182.71	N.A.	89.30
10-90	6994.47	N.A.	86.90
20-40	1922.05	N.A.	23.90
20-50	3075.02	N.A.	38.20
40-70	3235.18	N.A.	40.20
60-80	1722.99	N.A.	21.40
70-80	754.53	N.A.	9.40
80-90	533.20	N.A.	6.60
90-110	589.32	N.A.	7.30
90-120	729.94	N.A.	9.10
90-130	807.69	N.A.	10.00
90-150	859.90	N.A.	10.70
90-180	864.89	N.A.	10.70
110-180	275.56	N.A.	3.40
0-180	8047.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.24
10-20	549.49
20-30	855.94
30-40	1066.12
40-50	1152.97
50-60	1113.75
60-70	968.46
70-80	754.53
80-90	533.20
90-100	357.99
100-110	231.34
110-120	140.62
120-130	77.75
130-140	37.34
140-150	14.87
150-160	4.11
160-170	0.70
170-180	0.18

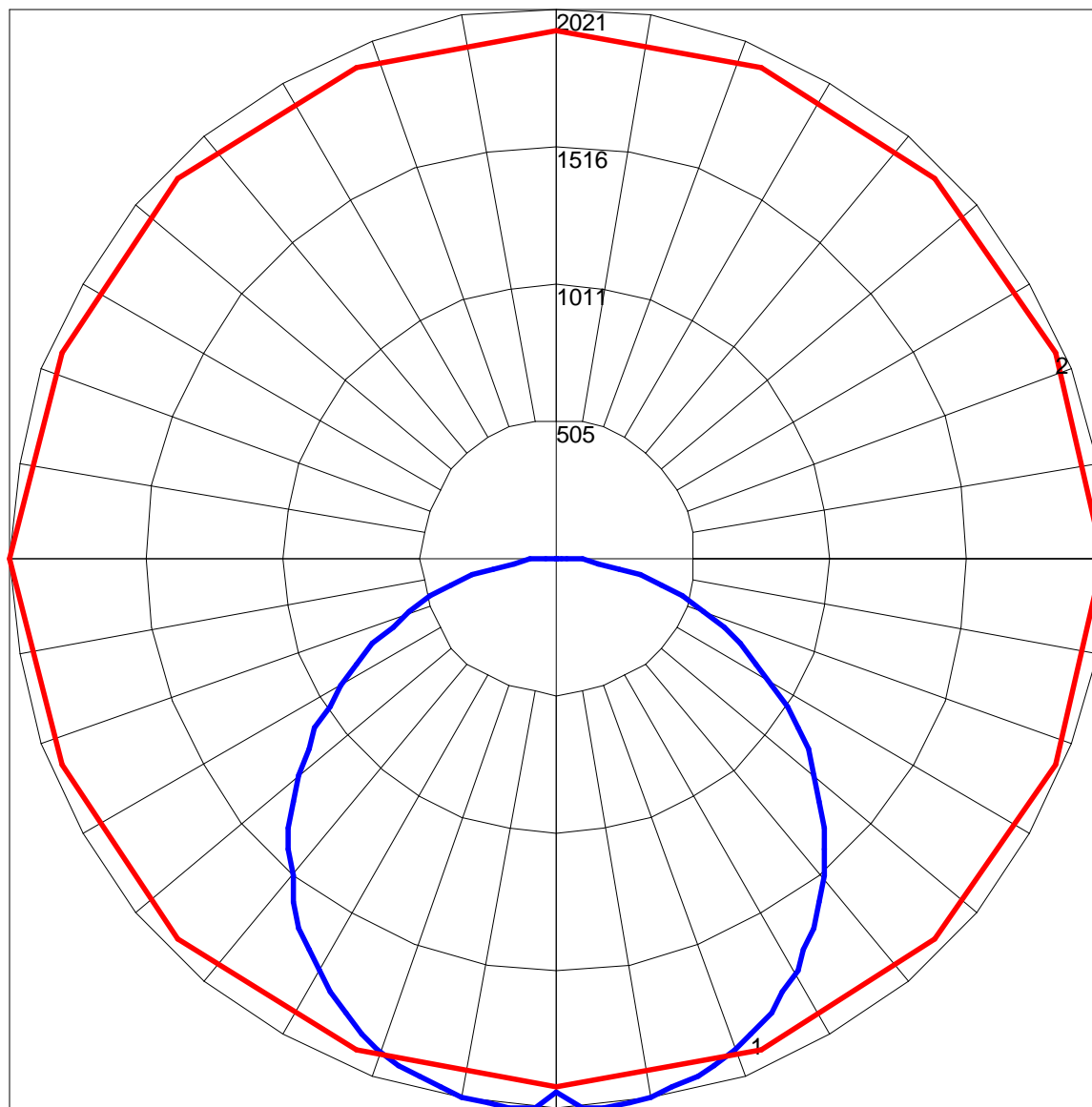
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	95	90	85	88	84	81	82	79	76	77	75	72	69
2	93	84	76	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	47	74	62	53	47	58	51	45	54	48	43	51	46	41	39
5	71	57	47	40	68	55	46	40	52	44	38	49	42	37	46	40	35	33
6	65	51	42	35	62	50	41	34	47	39	33	44	37	32	41	35	31	29
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	38	32	27	25
8	56	42	33	27	54	41	32	27	39	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	34	27	22	32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 2021 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)