



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-80L-FL-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9918_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]03/20/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-80L-FL-35
[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	8073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	19903	12947	12132
55	18607	11268	10830
65	16862	9673	9561
75	13404	8121	8433
85	6074	6879	7500

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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	1969.183	1969.183	1969.183	1969.183	1969.183
2.5	2017.408	1989.276	1973.201	1957.126	1941.052
5.0	2017.408	1985.258	1973.201	1957.126	1941.052
7.5	2013.389	1981.239	1969.183	1953.108	1941.052
10.0	2005.351	1973.201	1965.164	1953.108	1937.033
12.5	1989.276	1961.145	1953.108	1945.070	1933.014
15.0	1973.201	1949.089	1941.052	1937.033	1924.977
17.5	1949.089	1924.977	1924.977	1924.977	1912.920
20.0	1920.958	1900.864	1904.883	1908.902	1900.864
22.5	1888.808	1868.714	1880.770	1892.827	1884.789
25.0	1848.620	1836.564	1852.639	1868.714	1868.714
27.5	1808.433	1796.377	1820.489	1844.602	1844.602
30.0	1760.208	1756.189	1784.321	1816.471	1820.489
32.5	1707.965	1707.965	1748.152	1788.339	1788.339
35.0	1651.702	1659.740	1699.927	1752.171	1756.189
37.5	1591.421	1603.477	1655.721	1711.983	1720.021
40.0	1527.121	1543.196	1603.477	1667.777	1679.833
42.5	1462.821	1482.915	1551.234	1623.571	1635.627
45.0	1390.484	1418.615	1490.953	1575.346	1595.440
47.5	1318.147	1350.297	1434.690	1527.121	1551.234
50.0	1241.791	1281.978	1374.409	1478.896	1503.009
52.5	1173.472	1205.622	1314.128	1422.634	1458.803
55.0	1081.041	1133.285	1245.809	1366.372	1402.540
57.5	1004.685	1056.929	1181.510	1310.109	1350.297
60.0	924.310	980.573	1121.229	1253.847	1298.053
62.5	843.935	908.235	1056.929	1193.566	1241.791
65.0	751.504	831.879	992.629	1133.285	1181.510
67.5	667.111	755.523	928.329	1077.022	1125.247
70.0	578.699	679.167	864.029	1016.741	1068.985
72.5	486.268	598.792	803.748	960.479	1012.723
75.0	397.855	534.492	743.467	904.217	960.479
77.5	313.462	470.193	687.205	851.973	908.235
80.0	229.068	409.911	634.961	799.729	855.992
82.5	156.731	353.649	582.717	747.486	803.748
85.0	84.394	301.406	534.492	699.261	755.523
87.5	36.169	253.181	490.286	655.055	711.317
90.0	4.019	212.993	446.080	606.830	667.111
92.5	0.000	176.825	405.893	562.624	618.886
95.0	4.019	148.693	365.705	518.417	574.680
97.5	4.019	124.581	329.537	478.230	530.474
100.0	4.019	100.469	293.368	438.043	490.286
102.5	4.019	84.394	265.237	397.855	450.099
105.0	4.019	72.337	233.087	365.705	413.930
107.5	0.000	60.281	208.974	333.555	377.762
110.0	0.000	48.225	184.862	301.406	345.612
112.5	0.000	40.187	164.768	273.274	313.462
115.0	0.000	36.169	144.675	245.143	285.331
117.5	0.000	28.131	124.581	221.031	257.199
120.0	0.000	24.112	108.506	196.918	229.068
122.5	0.000	20.094	96.450	172.806	204.956
125.0	0.000	16.075	84.394	156.731	184.862
127.5	0.000	12.056	68.319	136.637	160.750
130.0	4.019	12.056	60.281	116.543	140.656
132.5	0.000	8.037	48.225	100.469	120.562

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CANDELA TABULATION - (Cont.)

135.0	4.019	8.037	44.206	84.394	104.487
137.5	4.019	4.019	36.169	72.337	88.412
140.0	4.019	4.019	28.131	60.281	76.356
142.5	0.000	4.019	24.112	52.244	60.281
145.0	4.019	4.019	20.094	40.187	52.244
147.5	4.019	4.019	12.056	32.150	40.187
150.0	4.019	4.019	12.056	24.112	32.150
152.5	4.019	4.019	8.037	20.094	24.112
155.0	4.019	4.019	4.019	12.056	16.075
157.5	4.019	4.019	4.019	8.037	12.056
160.0	4.019	4.019	4.019	4.019	8.037
162.5	4.019	4.019	4.019	4.019	4.019
165.0	0.000	4.019	0.000	0.000	0.000
167.5	4.019	4.019	0.000	0.000	0.000
170.0	4.019	4.019	0.000	0.000	0.000
172.5	4.019	0.000	0.000	0.000	0.000
175.0	4.019	4.019	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	737.31	N.A.	9.10
0-30	1592.57	N.A.	19.70
0-40	2658.98	N.A.	32.90
0-60	4930.03	N.A.	61.10
0-80	6660.89	N.A.	82.50
0-90	7198.37	N.A.	89.20
10-90	7010.27	N.A.	86.80
20-40	1921.67	N.A.	23.80
20-50	3075.81	N.A.	38.10
40-70	3243.85	N.A.	40.20
60-80	1730.86	N.A.	21.40
70-80	758.06	N.A.	9.40
80-90	537.48	N.A.	6.70
90-110	597.11	N.A.	7.40
90-120	739.08	N.A.	9.20
90-130	817.50	N.A.	10.10
90-150	869.50	N.A.	10.80
90-180	874.47	N.A.	10.80
110-180	277.35	N.A.	3.40
0-180	8072.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.11
10-20	549.20
20-30	855.26
30-40	1066.41
40-50	1154.14
50-60	1116.91
60-70	972.80
70-80	758.06
80-90	537.48
90-100	362.73
100-110	234.39
110-120	141.97
120-130	78.42
130-140	37.29
140-150	14.71
150-160	4.15
160-170	0.73
170-180	0.09

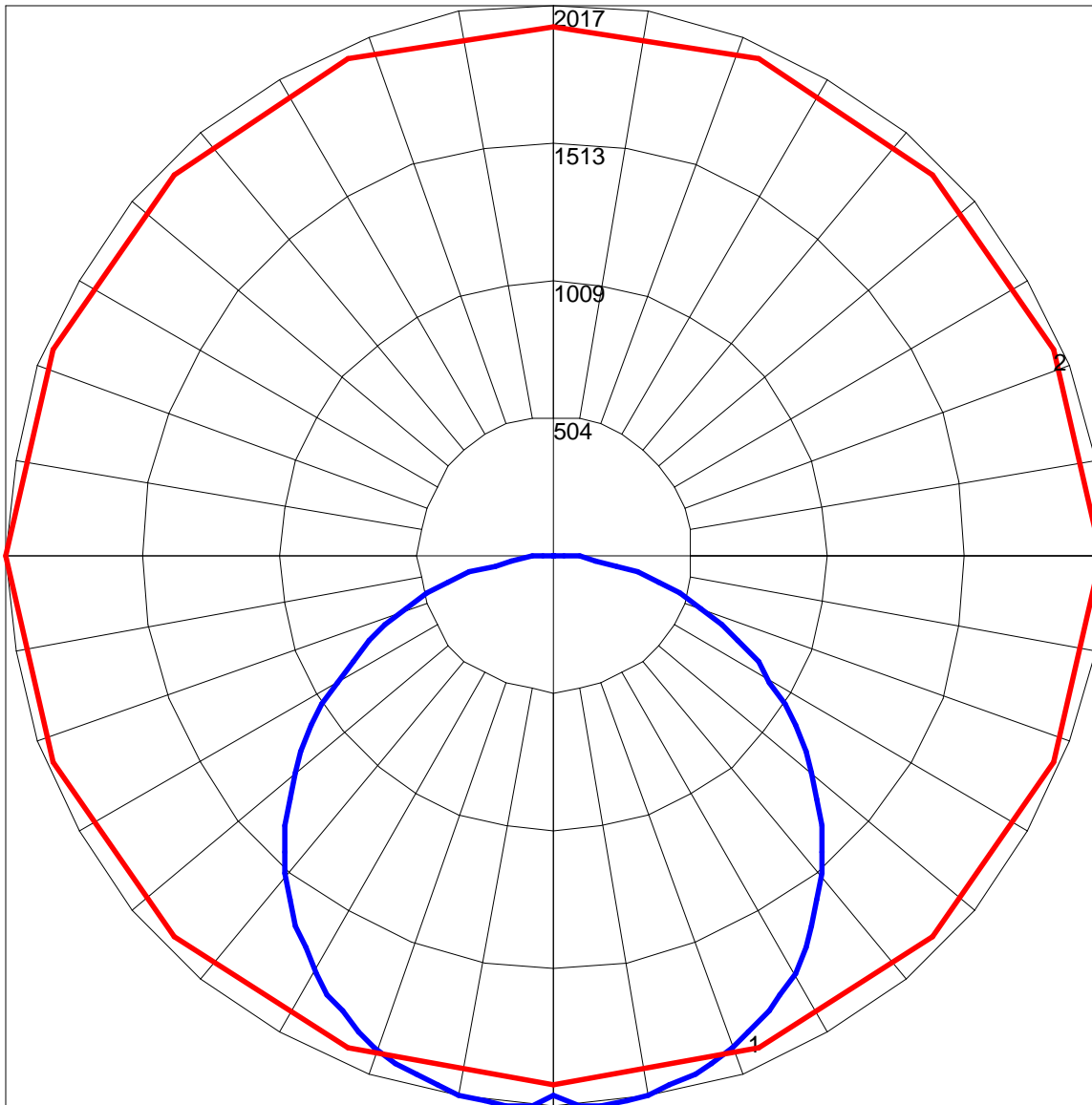
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	94	90	85	88	84	81	82	79	76	77	74	72	69
2	93	84	76	70	89	81	74	68	76	70	65	71	66	62	66	62	59	56
3	84	73	64	57	81	70	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	47	74	62	53	46	58	51	45	54	48	43	51	46	41	38
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	49	41	34	47	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	37	32	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 2017.408 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.)