



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-80L-FL-35.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-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 SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	60.6
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	10372	6839	6438
55	9861	6003	5747
65	9000	5157	5100
75	7621	4397	4496
85	4947	3658	3653

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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	2053.841	2053.841	2053.841	2053.841	2053.841
2.5	2062.033	2064.374	2055.012	2052.671	2060.863
5.0	2060.863	2063.204	2056.182	2055.012	2062.033
7.5	2055.012	2058.522	2051.501	2055.012	2060.863
10.0	2044.479	2049.160	2045.649	2050.331	2059.693
12.5	2028.095	2033.947	2035.117	2044.479	2055.012
15.0	2008.200	2016.392	2021.074	2036.287	2044.479
17.5	1982.454	1992.987	2002.349	2022.244	2035.117
20.0	1953.197	1966.070	1981.284	2005.860	2019.903
22.5	1919.259	1934.473	1956.708	1985.965	2002.349
25.0	1879.470	1895.854	1927.451	1961.389	1981.284
27.5	1836.169	1856.064	1892.343	1934.473	1957.878
30.0	1787.018	1809.253	1853.723	1904.046	1927.451
32.5	1732.014	1760.101	1812.764	1868.937	1895.854
35.0	1674.671	1706.268	1768.293	1830.318	1860.745
37.5	1612.646	1647.754	1719.141	1789.358	1823.296
40.0	1545.940	1584.559	1667.649	1744.887	1782.336
42.5	1478.064	1521.364	1612.646	1695.736	1739.036
45.0	1406.677	1454.658	1555.302	1647.754	1693.395
47.5	1332.949	1385.611	1495.618	1593.921	1641.903
50.0	1255.710	1315.395	1433.593	1542.429	1591.581
52.5	1186.664	1239.326	1370.398	1487.426	1541.259
55.0	1098.893	1169.110	1307.203	1432.423	1488.596
57.5	1015.803	1088.360	1239.326	1376.249	1433.593
60.0	935.054	1009.952	1170.280	1317.735	1377.420
62.5	842.602	932.713	1104.744	1259.221	1318.906
65.0	754.831	853.134	1039.209	1197.196	1260.392
67.5	667.060	775.896	973.673	1135.172	1194.856
70.0	583.970	702.168	909.308	1074.317	1136.342
72.5	495.028	624.930	846.112	1014.633	1078.998
75.0	409.598	555.883	787.598	959.630	1023.995
77.5	322.997	488.007	729.084	903.456	966.651
80.0	244.589	424.812	671.741	844.942	909.308
82.5	169.691	365.127	615.567	782.917	841.431
85.0	108.836	313.635	553.542	691.635	736.106
87.5	60.855	262.143	456.409	557.053	585.140
90.0	30.427	196.607	337.041	415.449	442.366
92.5	16.384	155.647	277.356	341.722	362.787
95.0	10.533	133.412	249.270	314.805	337.041
97.5	8.192	114.687	229.375	291.400	313.635
100.0	5.851	107.666	216.502	273.846	296.081
102.5	5.851	92.452	225.864	260.972	279.697
105.0	4.681	79.579	239.907	276.186	282.037
107.5	4.681	66.706	217.672	320.657	332.360
110.0	3.511	57.344	193.096	317.146	363.957
112.5	3.511	47.981	174.372	287.889	335.870
115.0	3.511	40.960	155.647	259.802	304.273
117.5	3.511	35.108	138.093	236.397	278.527
120.0	3.511	29.257	121.709	211.821	251.610
122.5	3.511	24.576	105.325	189.585	224.694
125.0	3.511	21.065	92.452	168.520	200.118
127.5	3.511	17.554	79.579	148.626	177.883
130.0	3.511	15.214	67.876	128.731	156.818
132.5	3.511	12.873	57.344	112.347	136.923

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CANDELA TABULATION - (Cont.)

135.0	3.511	10.533	46.811	95.963	119.369
137.5	3.511	9.362	39.790	80.749	100.644
140.0	3.511	7.022	33.938	66.706	83.090
142.5	3.511	5.851	28.087	55.003	67.876
145.0	3.511	4.681	22.235	44.471	56.173
147.5	3.511	4.681	18.724	36.279	45.641
150.0	3.511	3.511	14.043	29.257	36.279
152.5	3.511	3.511	10.533	22.235	28.087
155.0	3.511	3.511	7.022	16.384	21.065
157.5	3.511	3.511	5.851	11.703	16.384
160.0	3.511	3.511	4.681	8.192	10.533
162.5	3.511	3.511	3.511	5.851	7.022
165.0	3.511	3.511	3.511	3.511	4.681
167.5	3.511	3.511	3.511	2.341	3.511
170.0	3.511	3.511	3.511	2.341	3.511
172.5	3.511	3.511	2.341	2.341	2.341
175.0	3.511	3.511	2.341	2.341	2.341
177.5	3.511	3.511	2.341	2.341	2.341
180.0	2.341	2.341	2.341	2.341	2.341

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	768.41	N.A.	9.40
0-30	1658.11	N.A.	20.20
0-40	2764.75	N.A.	33.70
0-60	5125.22	N.A.	62.40
0-80	6938.7	N.A.	84.50
0-90	7463.42	N.A.	90.90
10-90	7267.22	N.A.	88.50
20-40	1996.35	N.A.	24.30
20-50	3194.08	N.A.	38.90
40-70	3375.54	N.A.	41.10
60-80	1813.48	N.A.	22.10
70-80	798.41	N.A.	9.70
80-90	524.72	N.A.	6.40
90-110	442.87	N.A.	5.40
90-120	596.00	N.A.	7.30
90-130	683.05	N.A.	8.30
90-150	742.29	N.A.	9.00
90-180	748.72	N.A.	9.10
110-180	305.85	N.A.	3.70
0-180	8212.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	196.20
10-20	572.21
20-30	889.70
30-40	1106.65
40-50	1197.73
50-60	1162.74
60-70	1015.07
70-80	798.41
80-90	524.72
90-100	245.56
100-110	197.31
110-120	153.13
120-130	87.06
130-140	42.53
140-150	16.70
150-160	4.99
160-170	1.17
170-180	0.27

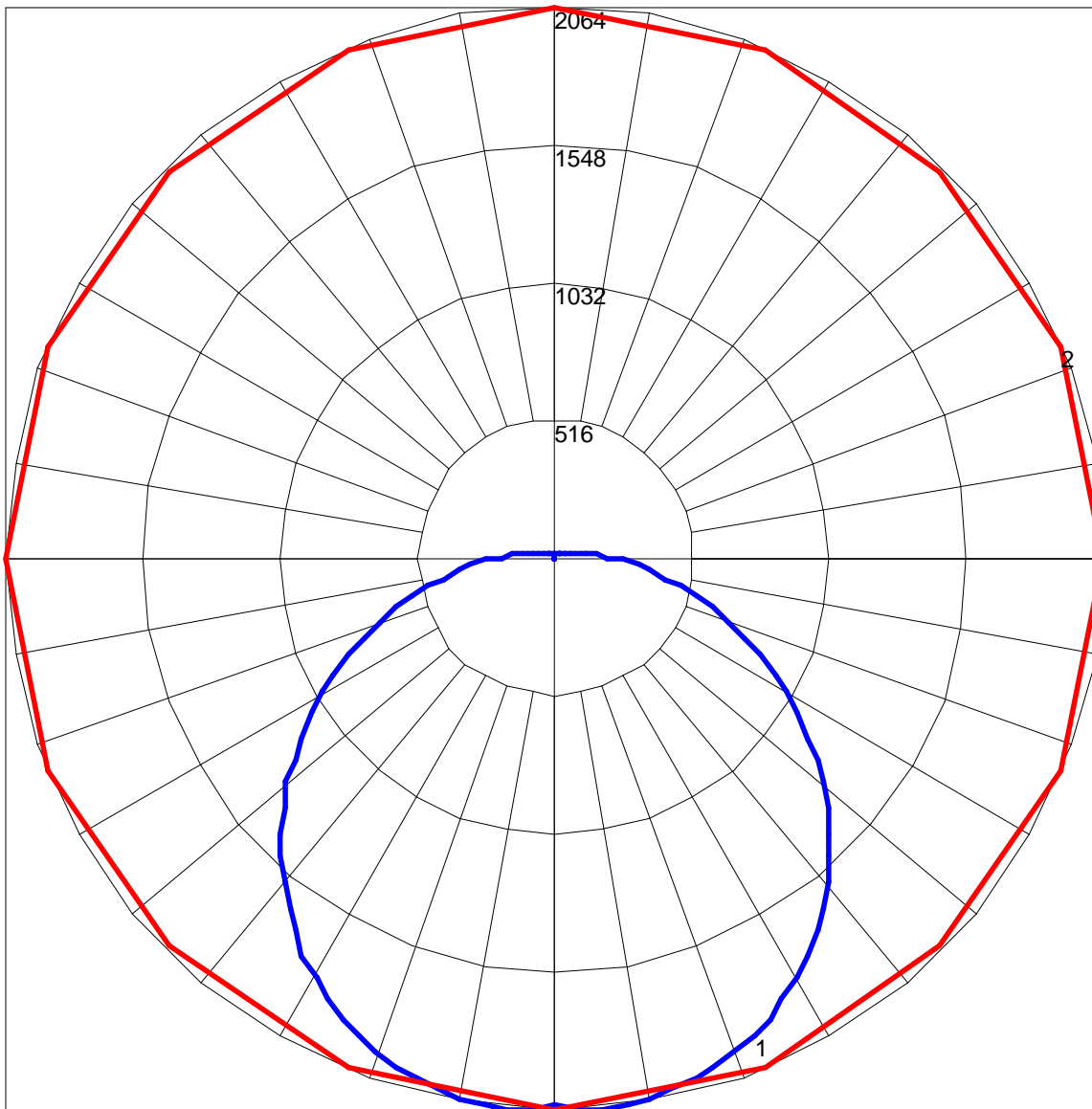
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2064.374 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.)