



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-70L-FL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9835
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]03/02/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL8-LED-70L-FL-50
[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	7530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	52.6
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	9542	6302	5927
55	9055	5538	5297
65	8299	4749	4693
75	6772	4036	4114
85	3546	3377	3370

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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	1873	1873	1873	1873	1873
2.5	1883	1882	1875	1872	1879
5.0	1883	1882	1876	1875	1880
7.5	1878	1878	1873	1875	1881
10.0	1870	1870	1868	1873	1880
12.5	1856	1858	1860	1868	1876
15.0	1836	1842	1848	1860	1870
17.5	1814	1821	1832	1849	1861
20.0	1787	1796	1813	1835	1849
22.5	1757	1768	1792	1819	1833
25.0	1721	1735	1765	1798	1816
27.5	1683	1698	1735	1775	1794
30.0	1639	1658	1702	1747	1769
32.5	1591	1613	1666	1715	1741
35.0	1541	1566	1627	1681	1711
37.5	1485	1514	1583	1643	1676
40.0	1427	1459	1536	1604	1639
42.5	1361	1400	1485	1561	1600
45.0	1294	1338	1433	1518	1559
47.5	1226	1273	1379	1470	1516
50.0	1156	1208	1322	1423	1471
52.5	1092	1141	1265	1372	1425
55.0	1009	1073	1206	1323	1372
57.5	939	1006	1144	1268	1321
60.0	862	933	1083	1214	1270
62.5	778	859	1020	1159	1215
65.0	696	786	957	1103	1160
67.5	606	713	897	1047	1105
70.0	528	643	838	989	1049
72.5	447	575	779	933	992
75.0	364	511	723	880	937
77.5	287	448	669	825	885
80.0	211	390	616	773	832
82.5	140	336	565	721	778
85.0	78	288	511	638	679
87.5	33	242	418	504	540
90.0	8	179	293	354	376
92.5	3	143	249	308	327
95.0	3	122	225	283	303
97.5	3	112	207	263	282
100.0	3	98	191	247	266
102.5	3	85	209	231	251
105.0	3	71	222	249	253
107.5	3	60	199	305	296
110.0	3	50	178	289	333
112.5	3	43	158	262	303
115.0	3	37	141	238	278
117.5	3	30	125	215	252
120.0	3	25	110	194	227
122.5	3	21	96	174	205
125.0	3	18	85	154	184
127.5	3	15	75	136	161
130.0	3	13	64	119	143
132.5	3	10	53	104	125

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CANDELA TABULATION - (Cont.)

135.0	3	9	43	90	109
137.5	3	7	36	77	94
140.0	3	6	30	63	80
142.5	4	5	25	50	64
145.0	3	5	20	41	50
147.5	3	4	16	33	40
150.0	3	4	12	27	33
152.5	3	3	9	20	26
155.0	3	4	7	14	19
157.5	3	4	5	10	13
160.0	3	3	4	7	10
162.5	3	3	4	5	7
165.0	3	3	3	4	5
167.5	3	3	3	3	3
170.0	4	3	3	3	4
172.5	3	3	3	2	3
175.0	3	3	3	2	2
177.5	3	3	3	2	2
180.0	3	3	3	3	3

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	702.11	N.A.	9.30
0-30	1517.06	N.A.	20.10
0-40	2533.92	N.A.	33.60
0-60	4709.05	N.A.	62.50
0-80	6375.65	N.A.	84.70
0-90	6853.02	N.A.	91.00
10-90	6673.95	N.A.	88.60
20-40	1831.81	N.A.	24.30
20-50	2934.77	N.A.	39.00
40-70	3110.15	N.A.	41.30
60-80	1666.61	N.A.	22.10
70-80	731.58	N.A.	9.70
80-90	477.36	N.A.	6.30
90-110	398.80	N.A.	5.30
90-120	537.80	N.A.	7.10
90-130	617.24	N.A.	8.20
90-150	671.63	N.A.	8.90
90-180	677.47	N.A.	9.00
110-180	278.68	N.A.	3.70
0-180	7530.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.07
10-20	523.05
20-30	814.95
30-40	1016.86
40-50	1102.96
50-60	1072.17
60-70	935.03
70-80	731.58
80-90	477.36
90-100	219.46
100-110	179.34
110-120	139.00
120-130	79.44
130-140	39.17
140-150	15.23
150-160	4.48
160-170	1.09
170-180	0.27

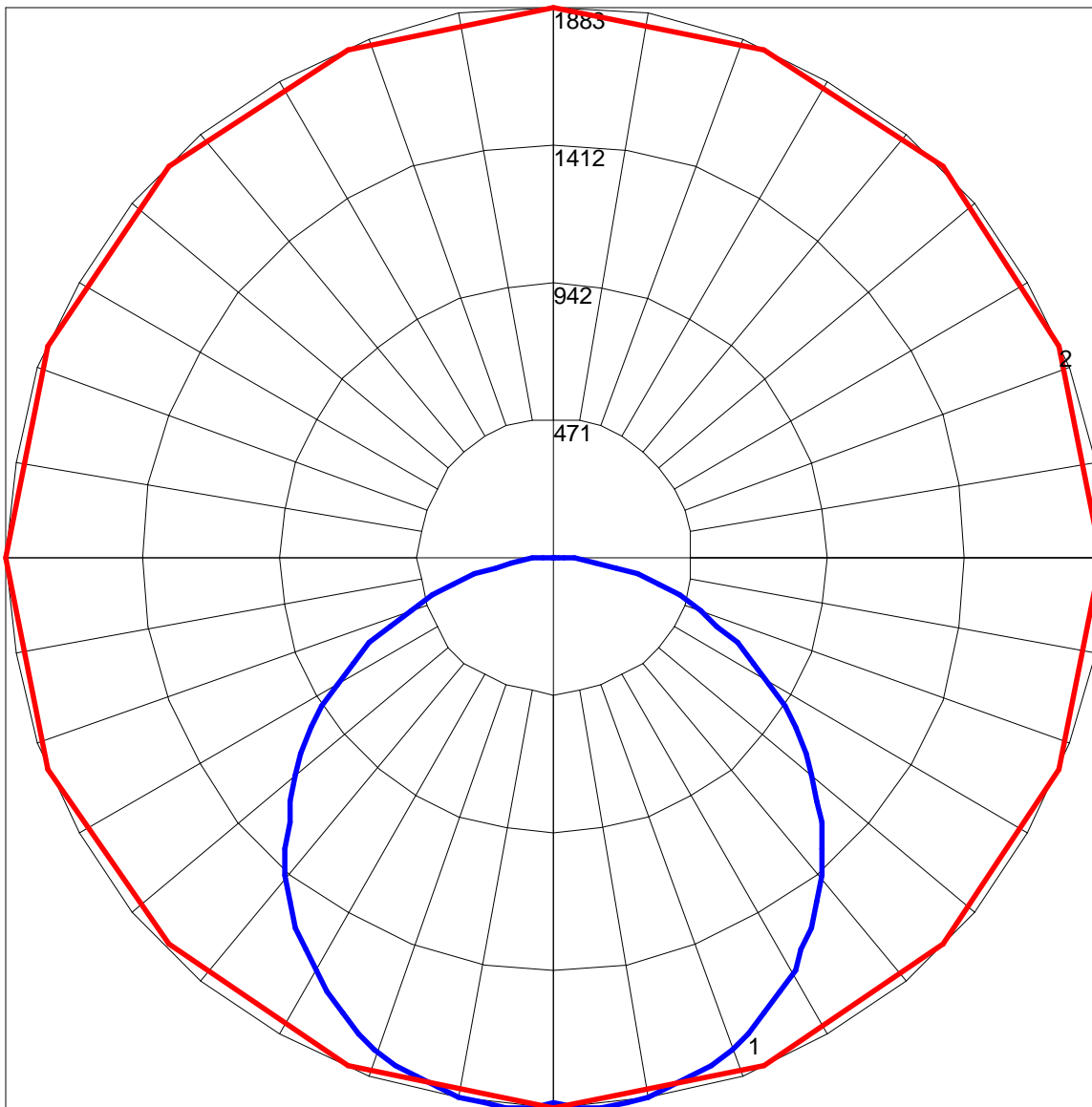
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	81	78	79	76	74	71
2	94	84	77	70	90	82	74	68	76	71	65	72	67	63	67	63	60	57
3	85	73	64	57	81	71	63	56	67	60	54	63	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	47	42	39
5	71	57	48	41	68	55	47	40	52	45	39	49	43	37	47	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 = 1883 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.)