



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-70L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9686
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]02/07/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-70L-FL-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7025
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	52.1
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	17348	11307	10585
55	16283	9822	9451
65	14652	8400	8335
75	11724	7056	7340
85	5686	5946	6522

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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	1722	1722	1722	1722	1722
2.5	1767	1737	1724	1711	1694
5.0	1767	1737	1725	1711	1696
7.5	1763	1734	1722	1710	1696
10.0	1754	1726	1716	1707	1693
12.5	1742	1716	1708	1701	1691
15.0	1725	1701	1696	1693	1683
17.5	1705	1683	1682	1683	1675
20.0	1681	1660	1663	1670	1663
22.5	1651	1636	1643	1654	1650
25.0	1617	1606	1618	1635	1632
27.5	1580	1572	1590	1613	1614
30.0	1539	1534	1560	1589	1592
32.5	1491	1492	1525	1560	1566
35.0	1442	1447	1487	1530	1536
37.5	1389	1398	1444	1495	1504
40.0	1333	1347	1399	1458	1470
42.5	1275	1293	1353	1418	1433
45.0	1212	1237	1302	1374	1392
47.5	1150	1178	1251	1330	1352
50.0	1082	1115	1197	1286	1311
52.5	1015	1051	1143	1238	1268
55.0	946	986	1086	1190	1224
57.5	872	919	1030	1139	1179
60.0	800	854	974	1089	1130
62.5	728	788	918	1038	1082
65.0	653	721	862	985	1030
67.5	578	655	806	933	980
70.0	502	589	753	884	931
72.5	423	526	698	834	882
75.0	348	463	646	786	836
77.5	271	404	595	739	790
80.0	201	351	550	694	744
82.5	136	302	505	649	699
85.0	79	257	462	605	657
87.5	35	218	422	566	617
90.0	9	183	384	526	577
92.5	3	152	347	487	537
95.0	3	126	313	448	498
97.5	2	105	281	412	460
100.0	2	87	252	378	423
102.5	2	73	226	345	387
105.0	2	61	201	315	357
107.5	2	51	179	287	327
110.0	2	42	159	260	299
112.5	2	35	141	235	272
115.0	2	30	123	211	245
117.5	2	26	109	189	221
120.0	2	21	95	169	199
122.5	2	18	83	150	178
125.0	2	15	72	132	157
127.5	2	12	61	116	138
130.0	2	9	52	100	122
132.5	2	8	44	87	105

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CANDELA TABULATION - (Cont.)

135.0	2	6	38	74	91
137.5	2	5	31	63	76
140.0	2	4	26	53	65
142.5	2	3	21	44	54
145.0	2	2	17	36	44
147.5	2	2	13	29	36
150.0	2	2	10	22	28
152.5	2	2	7	17	22
155.0	2	2	4	12	15
157.5	2	2	3	8	11
160.0	2	2	2	5	7
162.5	2	2	2	2	3
165.0	2	2	2	2	2
167.5	2	2	2	1	1
170.0	2	2	2	1	1
172.5	2	2	2	1	1
175.0	2	2	2	1	1
177.5	2	2	2	1	2
180.0	2	2	2	2	2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	644.63	N.A.	9.20
0-30	1392.35	N.A.	19.80
0-40	2323.61	N.A.	33.10
0-60	4302.47	N.A.	61.20
0-80	5805.84	N.A.	82.60
0-90	6270.97	N.A.	89.30
10-90	6106.47	N.A.	86.90
20-40	1678.98	N.A.	23.90
20-50	2685.7	N.A.	38.20
40-70	2823.81	N.A.	40.20
60-80	1503.37	N.A.	21.40
70-80	658.43	N.A.	9.40
80-90	465.13	N.A.	6.60
90-110	514.25	N.A.	7.30
90-120	636.79	N.A.	9.10
90-130	704.58	N.A.	10.00
90-150	749.80	N.A.	10.70
90-180	754.02	N.A.	10.70
110-180	239.77	N.A.	3.40
0-180	7024.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.50
10-20	480.12
20-30	747.72
30-40	931.26
40-50	1006.71
50-60	972.15
60-70	844.95
70-80	658.43
80-90	465.13
90-100	312.48
100-110	201.77
110-120	122.54
120-130	67.79
130-140	32.46
140-150	12.76
150-160	3.46
160-170	0.61
170-180	0.16

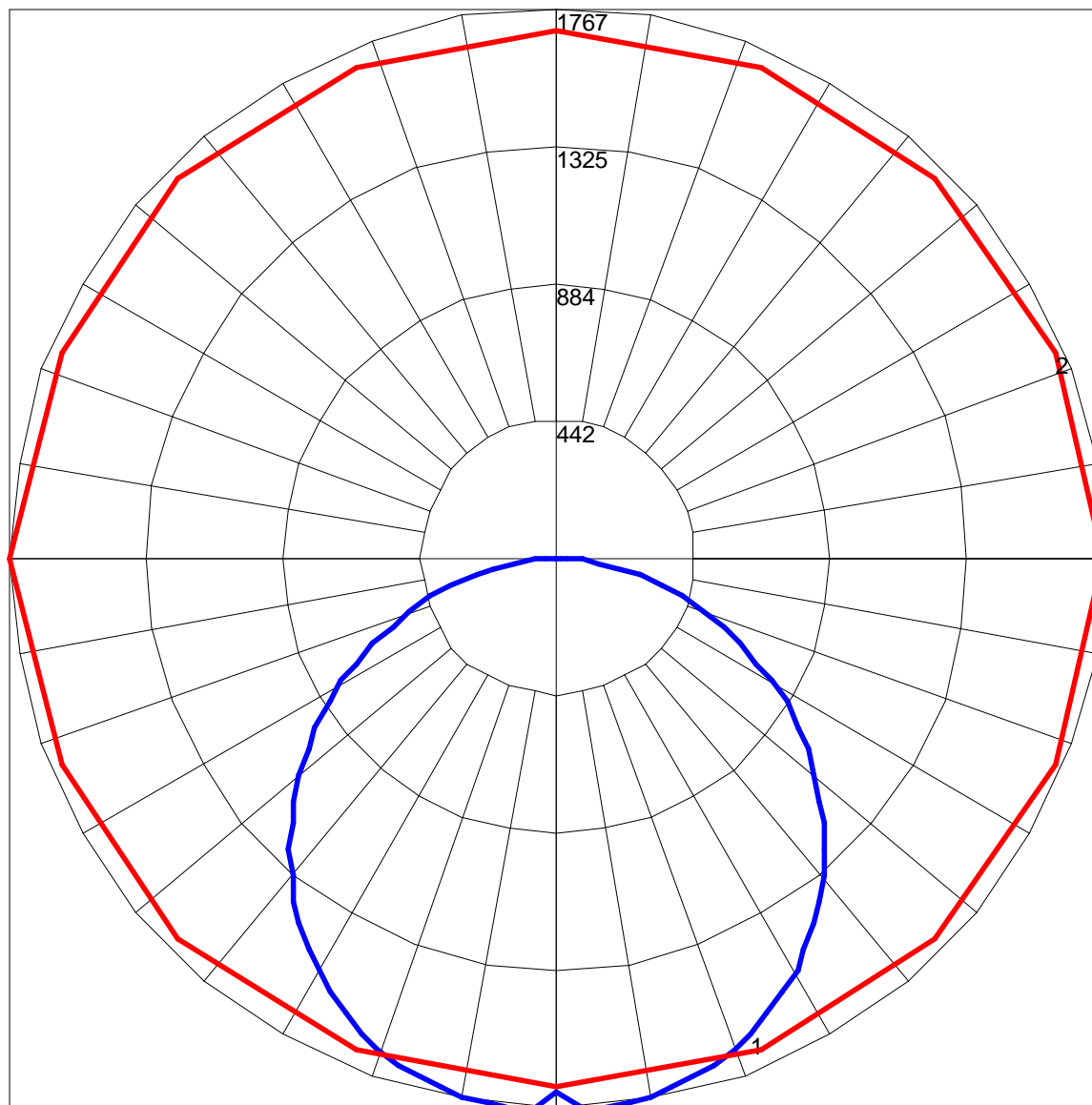
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	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 = 1767 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.)