



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-20L-FL-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9919
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]03/20/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL4-LED-20L-FL-30
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1947
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	15.3
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	4809	3135	2935
55	4510	2722	2625
65	4061	2329	2306
75	3268	1966	2037
85	1583	1660	1807

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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	478	478	478	478	478
2.5	490	482	478	474	469
5.0	490	482	478	474	470
7.5	489	481	477	474	470
10.0	486	479	475	473	469
12.5	482	475	473	471	468
15.0	478	471	470	469	466
17.5	472	466	465	465	463
20.0	466	460	461	462	460
22.5	458	453	455	458	457
25.0	449	445	448	452	452
27.5	437	436	440	446	446
30.0	426	425	432	439	440
32.5	413	413	422	432	433
35.0	399	401	411	423	425
37.5	385	387	400	414	416
40.0	369	373	387	403	406
42.5	353	358	375	392	396
45.0	336	343	361	381	386
47.5	319	326	347	369	375
50.0	301	309	332	356	363
52.5	282	291	317	343	352
55.0	262	273	301	330	340
57.5	242	255	285	316	327
60.0	222	237	270	302	313
62.5	202	218	255	288	300
65.0	181	200	239	273	285
67.5	160	182	224	259	272
70.0	139	164	209	245	258
72.5	117	145	194	232	245
75.0	97	128	180	218	232
77.5	75	113	166	205	219
80.0	56	98	153	192	206
82.5	37	85	141	180	194
85.0	22	72	129	168	182
87.5	9	61	118	157	171
90.0	2	51	107	146	160
92.5	1	43	97	136	149
95.0	1	35	88	125	138
97.5	1	29	79	115	128
100.0	1	24	71	105	117
102.5	1	20	63	96	108
105.0	1	17	57	88	99
107.5	0	14	50	80	91
110.0	0	12	44	72	83
112.5	1	10	39	65	76
115.0	0	8	35	59	68
117.5	0	7	30	53	61
120.0	0	6	26	47	55
122.5	0	5	23	41	49
125.0	0	4	20	37	44
127.5	0	3	17	32	38
130.0	0	2	15	28	34
132.5	0	2	12	24	29

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CANDELA TABULATION - (Cont.)

135.0	0	1	10	20	25
137.5	0	1	8	17	21
140.0	0	1	7	14	18
142.5	1	1	6	12	15
145.0	0	1	4	10	12
147.5	1	1	3	8	9
150.0	0	0	2	6	7
152.5	1	0	2	4	5
155.0	1	1	1	3	4
157.5	0	0	0	2	2
160.0	0	0	0	1	1
162.5	0	0	0	0	1
165.0	1	0	0	0	0
167.5	0	0	0	0	0
170.0	0	1	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	1	1	0	0	0
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	178.52	N.A.	9.20
0-30	385.54	N.A.	19.80
0-40	643.28	N.A.	33.00
0-60	1191.7	N.A.	61.20
0-80	1608.91	N.A.	82.60
0-90	1738.27	N.A.	89.30
10-90	1692.67	N.A.	86.90
20-40	464.76	N.A.	23.90
20-50	743.66	N.A.	38.20
40-70	782.80	N.A.	40.20
60-80	417.21	N.A.	21.40
70-80	182.83	N.A.	9.40
80-90	129.37	N.A.	6.60
90-110	143.43	N.A.	7.40
90-120	177.46	N.A.	9.10
90-130	196.16	N.A.	10.10
90-150	208.35	N.A.	10.70
90-180	209.19	N.A.	10.70
110-180	65.77	N.A.	3.40
0-180	1947.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.60
10-20	132.92
20-30	207.02
30-40	257.73
40-50	278.91
50-60	269.52
60-70	234.37
70-80	182.83
80-90	129.37
90-100	87.19
100-110	56.24
110-120	34.04
120-130	18.70
130-140	8.75
140-150	3.45
150-160	0.79
160-170	0.04
170-180	0.01

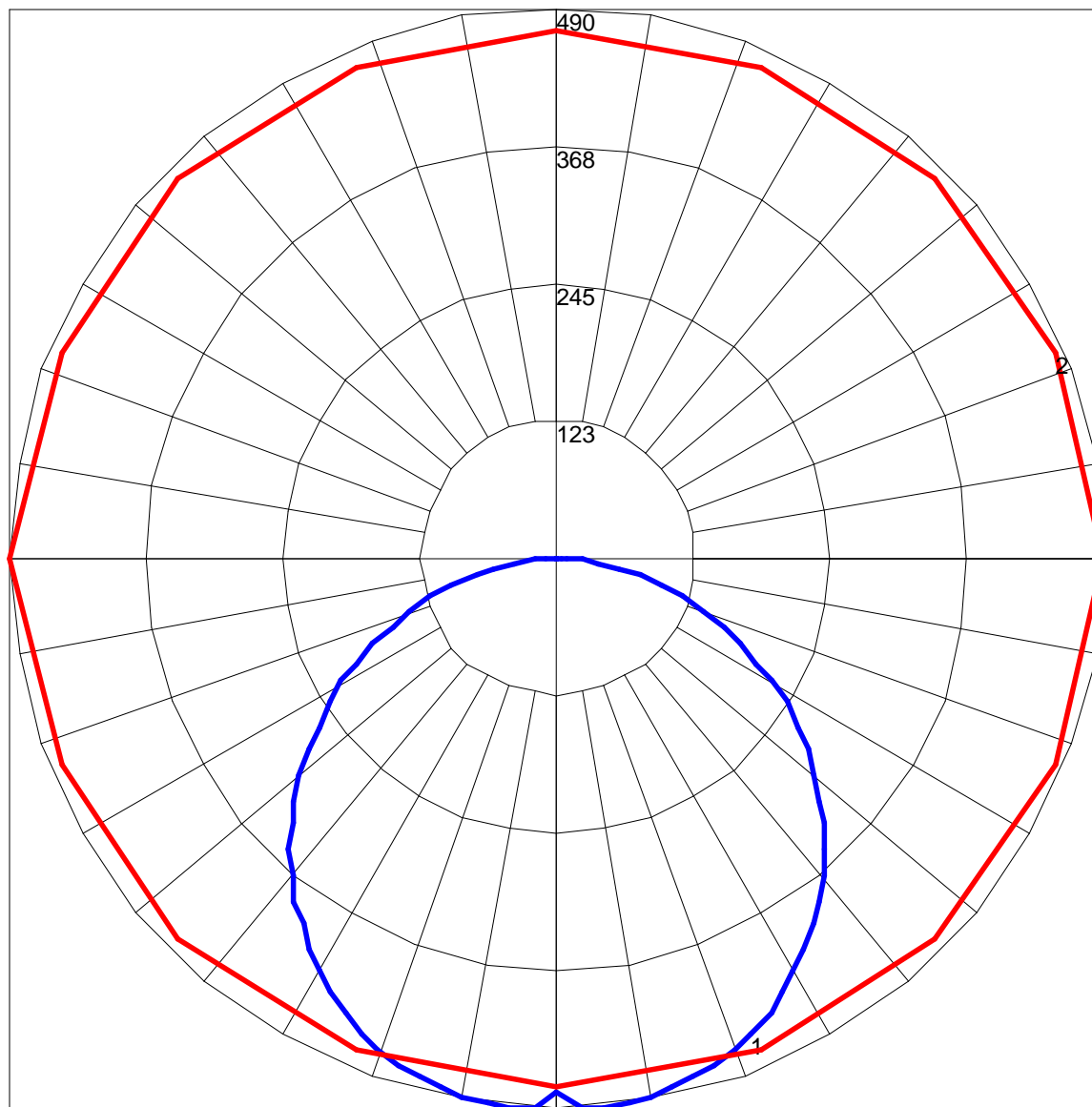
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 490 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.)