



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-20L-FL-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9920
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]03/20/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-20L-FL-35
[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	2015
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	15.2
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	4967	3239	3034
55	4665	2822	2710
65	4196	2417	2403
75	3369	2032	2107
85	1583	1725	1886

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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	491	491	491	491	491
2.5	504	495	492	488	483
5.0	504	495	491	488	483
7.5	503	495	491	488	484
10.0	501	493	489	487	483
12.5	497	489	487	485	482
15.0	492	485	484	483	480
17.5	487	480	480	480	477
20.0	479	474	474	476	475
22.5	471	466	468	471	470
25.0	462	459	462	467	466
27.5	451	449	454	460	460
30.0	439	438	445	453	454
32.5	426	427	435	445	446
35.0	412	414	425	436	438
37.5	397	400	413	427	429
40.0	382	386	401	417	420
42.5	365	370	387	405	409
45.0	347	353	373	394	399
47.5	328	336	358	382	388
50.0	309	319	342	368	376
52.5	292	301	327	355	363
55.0	271	283	312	341	351
57.5	251	265	296	327	338
60.0	230	245	280	312	324
62.5	209	226	263	298	311
65.0	187	206	248	283	297
67.5	165	187	232	269	282
70.0	143	169	216	254	268
72.5	121	151	201	240	255
75.0	100	134	186	226	240
77.5	79	117	172	212	227
80.0	58	102	158	199	213
82.5	39	88	146	187	202
85.0	22	74	134	175	190
87.5	9	63	122	164	179
90.0	2	53	111	153	167
92.5	1	45	101	141	155
95.0	1	37	91	129	143
97.5	1	31	82	119	132
100.0	1	26	73	109	122
102.5	1	21	66	100	113
105.0	1	18	58	92	104
107.5	1	15	52	83	95
110.0	1	12	46	75	86
112.5	0	10	41	68	78
115.0	1	9	36	61	71
117.5	1	7	31	55	64
120.0	1	6	27	49	58
122.5	0	5	24	43	51
125.0	0	4	20	38	45
127.5	0	3	18	33	40
130.0	0	3	15	29	35
132.5	1	2	13	25	30

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CANDELA TABULATION - (Cont.)

135.0	0	2	11	22	26
137.5	0	1	9	18	22
140.0	1	1	7	15	19
142.5	0	1	6	13	15
145.0	0	0	5	10	13
147.5	1	0	4	8	10
150.0	1	1	3	6	8
152.5	1	1	2	5	6
155.0	1	1	1	4	4
157.5	1	0	1	2	3
160.0	1	0	0	1	2
162.5	1	0	0	1	1
165.0	1	0	0	0	0
167.5	1	0	0	0	0
170.0	1	1	0	0	0
172.5	0	0	0	0	0
175.0	1	0	0	0	0
177.5	1	0	0	0	0
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	183.86	N.A.	9.10
0-30	397.19	N.A.	19.70
0-40	663.22	N.A.	32.90
0-60	1230.14	N.A.	61.10
0-80	1662.19	N.A.	82.50
0-90	1796.57	N.A.	89.20
10-90	1749.65	N.A.	86.80
20-40	479.36	N.A.	23.80
20-50	767.44	N.A.	38.10
40-70	809.48	N.A.	40.20
60-80	432.05	N.A.	21.40
70-80	189.49	N.A.	9.40
80-90	134.38	N.A.	6.70
90-110	149.24	N.A.	7.40
90-120	184.67	N.A.	9.20
90-130	204.06	N.A.	10.10
90-150	217.01	N.A.	10.80
90-180	218.12	N.A.	10.80
110-180	68.88	N.A.	3.40
0-180	2014.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.92
10-20	136.94
20-30	213.33
30-40	266.04
40-50	288.07
50-60	278.85
60-70	242.56
70-80	189.49
80-90	134.38
90-100	90.60
100-110	58.64
110-120	35.43
120-130	19.39
130-140	9.34
140-150	3.60
150-160	1.01
160-170	0.10
170-180	0.01

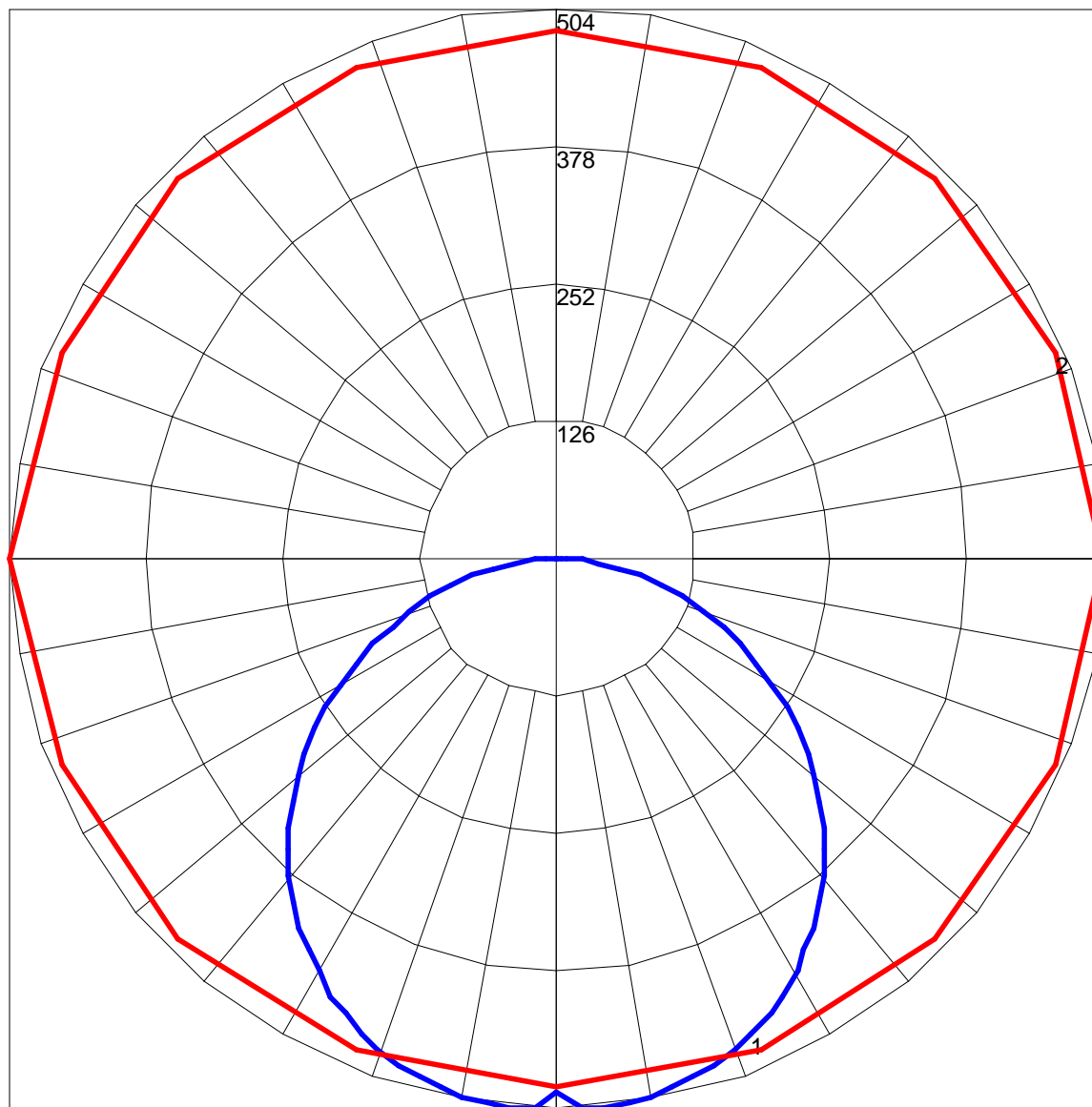
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	46	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 = 504 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.)