



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL8-LED-120L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-9822

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]5/11/2018

[TEST DATE]02/28/18

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]SDL8-LED-120L-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	12062
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	89.8
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	15227	10070	9479
55	14600	8849	8494
65	13390	7637	7554
75	11144	6504	6647
85	6137	5333	5316

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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	2978	2978	2978	2978	2978
2.5	2991	2991	2981	2977	2988
5.0	2991	2991	2983	2981	2992
7.5	2984	2984	2979	2982	2992
10.0	2969	2972	2971	2978	2990
12.5	2949	2953	2957	2971	2985
15.0	2919	2927	2939	2959	2975
17.5	2884	2895	2916	2943	2962
20.0	2842	2856	2886	2921	2944
22.5	2795	2811	2852	2894	2921
25.0	2739	2760	2812	2863	2892
27.5	2679	2703	2766	2825	2860
30.0	2610	2639	2712	2782	2821
32.5	2535	2568	2655	2733	2777
35.0	2454	2494	2591	2679	2729
37.5	2362	2411	2523	2621	2676
40.0	2270	2325	2449	2559	2619
42.5	2169	2229	2371	2492	2558
45.0	2065	2133	2290	2423	2493
47.5	1958	2033	2202	2348	2426
50.0	1856	1931	2114	2272	2352
52.5	1744	1825	2023	2193	2276
55.0	1627	1722	1927	2111	2200
57.5	1503	1611	1833	2030	2121
60.0	1377	1494	1734	1945	2038
62.5	1249	1378	1635	1859	1954
65.0	1123	1266	1539	1770	1867
67.5	987	1150	1443	1678	1779
70.0	857	1039	1348	1588	1689
72.5	727	930	1256	1500	1599
75.0	599	827	1165	1414	1514
77.5	473	725	1079	1330	1428
80.0	347	631	993	1246	1340
82.5	237	544	910	1142	1224
85.0	135	464	807	1001	1071
87.5	60	388	668	814	865
90.0	16	297	516	640	683
92.5	7	233	401	505	545
95.0	6	197	361	454	485
97.5	6	178	332	422	453
100.0	6	158	316	396	428
102.5	5	133	337	387	413
105.0	5	115	341	412	427
107.5	5	97	318	442	477
110.0	6	82	284	455	491
112.5	5	70	253	415	483
115.0	5	59	229	377	440
117.5	5	49	205	343	401
120.0	5	41	180	314	367
122.5	5	35	157	283	335
125.0	5	30	138	253	302
127.5	5	25	121	223	266
130.0	5	21	103	195	235
132.5	5	18	86	170	206

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CANDELA TABULATION - (Cont.)

135.0	6	16	71	148	179
137.5	5	13	59	124	154
140.0	5	12	50	102	128
142.5	5	10	41	83	104
145.0	6	9	33	68	84
147.5	5	8	27	55	67
150.0	6	8	22	44	54
152.5	5	7	17	35	43
155.0	5	6	14	27	34
157.5	5	6	11	20	25
160.0	5	6	8	15	19
162.5	5	6	7	11	14
165.0	5	6	6	8	10
167.5	5	5	5	6	8
170.0	5	5	5	5	6
172.5	5	5	5	5	5
175.0	5	5	4	4	4
177.5	5	5	4	4	4
180.0	5	5	5	5	5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1116.57	N.A.	9.30
0-30	2414.00	N.A.	20.00
0-40	4034.4	N.A.	33.40
0-60	7511.29	N.A.	62.30
0-80	10194.39	N.A.	84.50
0-90	10963.79	N.A.	90.90
10-90	10679.11	N.A.	88.50
20-40	2917.83	N.A.	24.20
20-50	4678.75	N.A.	38.80
40-70	4979.47	N.A.	41.30
60-80	2683.1	N.A.	22.20
70-80	1180.52	N.A.	9.80
80-90	769.39	N.A.	6.40
90-110	646.19	N.A.	5.40
90-120	867.91	N.A.	7.20
90-130	997.70	N.A.	8.30
90-150	1087.39	N.A.	9.00
90-180	1098.09	N.A.	9.10
110-180	451.90	N.A.	3.70
0-180	12061.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	284.68
10-20	831.89
20-30	1297.43
30-40	1620.4
40-50	1760.93
50-60	1715.96
60-70	1502.58
70-80	1180.52
80-90	769.39
90-100	360.16
100-110	286.04
110-120	221.71
120-130	129.79
130-140	64.31
140-150	25.39
150-160	8.14
160-170	2.10
170-180	0.46

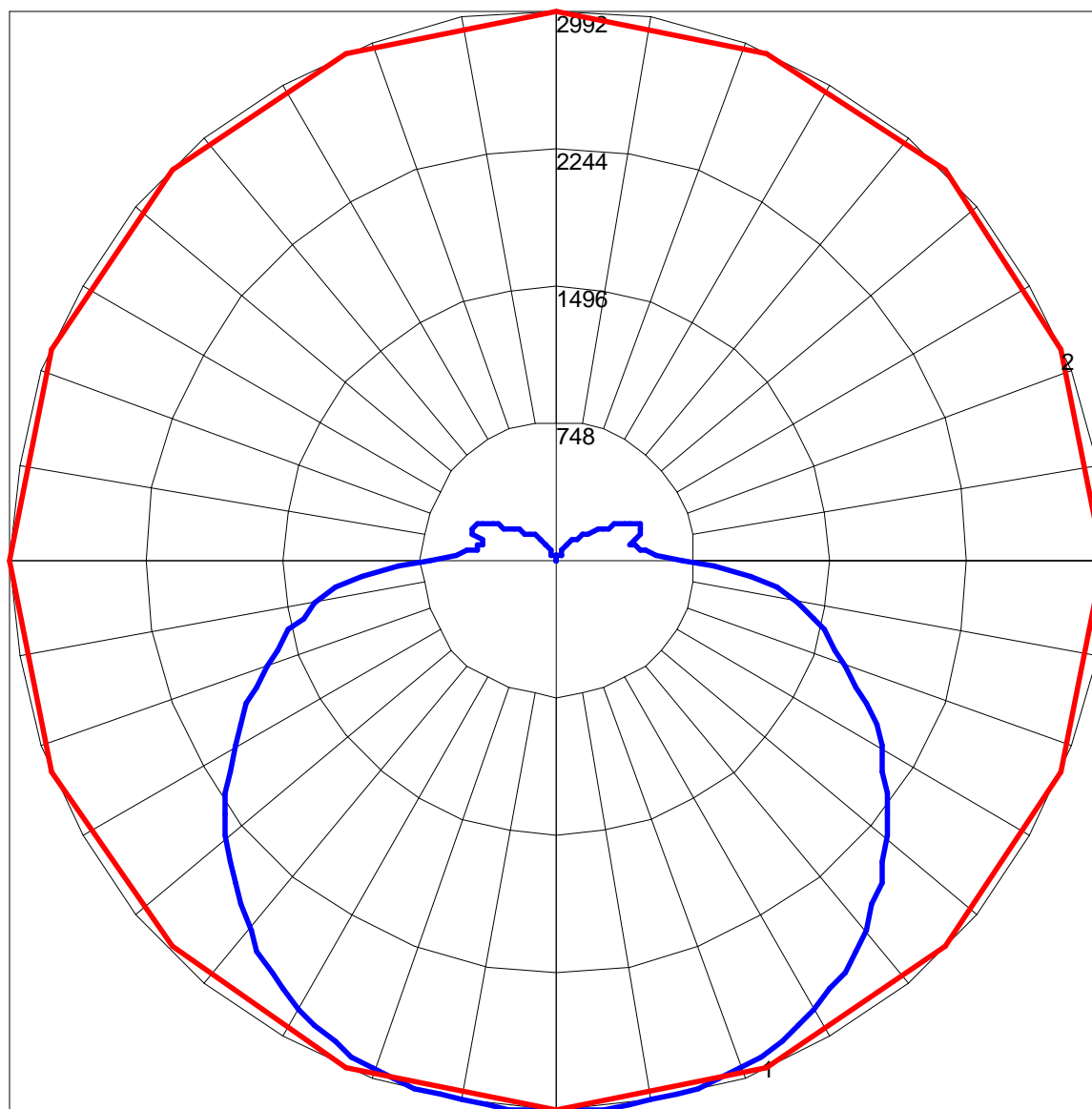
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	80	77	78	76	74	71
2	94	84	76	70	90	81	74	68	76	70	65	72	67	62	67	63	60	57
3	85	73	64	57	81	71	62	56	66	59	54	62	56	52	59	54	49	47
4	77	64	55	47	74	62	53	47	59	51	45	55	49	43	52	46	42	39
5	71	57	47	40	68	55	46	40	52	44	38	49	42	37	46	41	36	33
6	65	51	42	35	63	50	41	34	47	39	33	44	37	32	42	36	31	29
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	38	32	28	25
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	22
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18

POLAR GRAPH



Maximum Candela = 2992 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)