



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL4-LED-60L-FL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-9918_scaled

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]6/12/2018

[TEST DATE]03/20/18

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]SDL4-LED-60L-FL-50

[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[OTHER]SCALED FROM ORIGINAL TEST DATA

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6435
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	43.9
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	15864	10320	9670
55	14831	8981	8632
65	13441	7710	7621
75	10684	6473	6722
85	4841	5483	5978

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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	1569.588	1569.588	1569.588	1569.588	1569.588
2.5	1608.026	1585.604	1572.791	1559.978	1547.165
5.0	1608.026	1582.401	1572.791	1559.978	1547.165
7.5	1604.823	1579.197	1569.588	1556.775	1547.165
10.0	1598.417	1572.791	1566.384	1556.775	1543.962
12.5	1585.604	1563.181	1556.775	1550.368	1540.758
15.0	1572.791	1553.571	1547.165	1543.962	1534.352
17.5	1553.571	1534.352	1534.352	1534.352	1524.742
20.0	1531.149	1515.132	1518.336	1521.539	1515.132
22.5	1505.523	1489.507	1499.116	1508.726	1502.320
25.0	1473.490	1463.881	1476.694	1489.507	1489.507
27.5	1441.458	1431.848	1451.068	1470.287	1470.287
30.0	1403.019	1399.816	1422.239	1447.864	1451.068
32.5	1361.377	1361.377	1393.409	1425.442	1425.442
35.0	1316.532	1322.938	1354.970	1396.613	1399.816
37.5	1268.483	1278.093	1319.735	1364.580	1370.987
40.0	1217.231	1230.044	1278.093	1329.345	1338.954
42.5	1165.979	1181.996	1236.451	1294.109	1303.719
45.0	1108.321	1130.744	1188.402	1255.670	1271.686
47.5	1050.663	1076.289	1143.557	1217.231	1236.451
50.0	989.801	1021.834	1095.508	1178.792	1198.012
52.5	935.346	960.972	1047.459	1133.947	1162.776
55.0	861.672	903.314	993.004	1089.102	1117.931
57.5	800.810	842.452	941.753	1044.256	1076.289
60.0	736.745	781.591	893.704	999.411	1034.646
62.5	672.680	723.932	842.452	951.362	989.801
65.0	599.006	663.071	791.200	903.314	941.753
67.5	531.738	602.209	739.948	858.468	896.907
70.0	461.267	541.348	688.697	810.420	852.062
72.5	387.592	477.283	640.648	765.574	807.216
75.0	317.121	426.031	592.599	720.729	765.574
77.5	249.853	374.779	547.754	679.087	723.932
80.0	182.585	326.730	506.112	637.445	682.290
82.5	124.926	281.885	464.470	595.803	640.648
85.0	67.268	240.243	426.031	557.364	602.209
87.5	28.829	201.804	390.795	522.128	566.973
90.0	3.203	169.772	355.560	483.689	531.738
92.5	0.000	140.943	323.527	448.454	493.299
95.0	3.203	118.520	291.495	413.218	458.063
97.5	3.203	99.300	262.666	381.186	422.828
100.0	3.203	80.081	233.837	349.153	390.795
102.5	3.203	67.268	211.414	317.121	358.763
105.0	3.203	57.658	185.788	291.495	329.934
107.5	0.000	48.049	166.568	265.869	301.105
110.0	0.000	38.439	147.349	240.243	275.479
112.5	0.000	32.032	131.333	217.820	249.853
115.0	0.000	28.829	115.317	195.398	227.430
117.5	0.000	22.423	99.300	176.178	205.007
120.0	0.000	19.219	86.487	156.959	182.585
122.5	0.000	16.016	76.878	137.739	163.365
125.0	0.000	12.813	67.268	124.926	147.349
127.5	0.000	9.610	54.455	108.910	128.130
130.0	3.203	9.610	48.049	92.894	112.113
132.5	0.000	6.406	38.439	80.081	96.097

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CANDELA TABULATION - (Cont.)

135.0	3.203	6.406	35.236	67.268	83.284
137.5	3.203	3.203	28.829	57.658	70.471
140.0	3.203	3.203	22.423	48.049	60.862
142.5	0.000	3.203	19.219	41.642	48.049
145.0	3.203	3.203	16.016	32.032	41.642
147.5	3.203	3.203	9.610	25.626	32.032
150.0	3.203	3.203	9.610	19.219	25.626
152.5	3.203	3.203	6.406	16.016	19.219
155.0	3.203	3.203	3.203	9.610	12.813
157.5	3.203	3.203	3.203	6.406	9.610
160.0	3.203	3.203	3.203	3.203	6.406
162.5	3.203	3.203	3.203	3.203	3.203
165.0	0.000	3.203	0.000	0.000	0.000
167.5	3.203	3.203	0.000	0.000	0.000
170.0	3.203	3.203	0.000	0.000	0.000
172.5	3.203	0.000	0.000	0.000	0.000
175.0	3.203	3.203	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	587.69	N.A.	9.10
0-30	1269.4	N.A.	19.70
0-40	2119.4	N.A.	32.90
0-60	3929.6	N.A.	61.10
0-80	5309.23	N.A.	82.50
0-90	5737.65	N.A.	89.20
10-90	5587.71	N.A.	86.80
20-40	1531.71	N.A.	23.80
20-50	2451.65	N.A.	38.10
40-70	2585.6	N.A.	40.20
60-80	1379.63	N.A.	21.40
70-80	604.23	N.A.	9.40
80-90	428.42	N.A.	6.70
90-110	475.95	N.A.	7.40
90-120	589.10	N.A.	9.20
90-130	651.61	N.A.	10.10
90-150	693.06	N.A.	10.80
90-180	697.02	N.A.	10.80
110-180	221.07	N.A.	3.40
0-180	6434.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.94
10-20	437.76
20-30	681.71
30-40	850.01
40-50	919.94
50-60	890.26
60-70	775.40
70-80	604.23
80-90	428.42
90-100	289.12
100-110	186.82
110-120	113.16
120-130	62.51
130-140	29.72
140-150	11.73
150-160	3.31
160-170	0.58
170-180	0.07

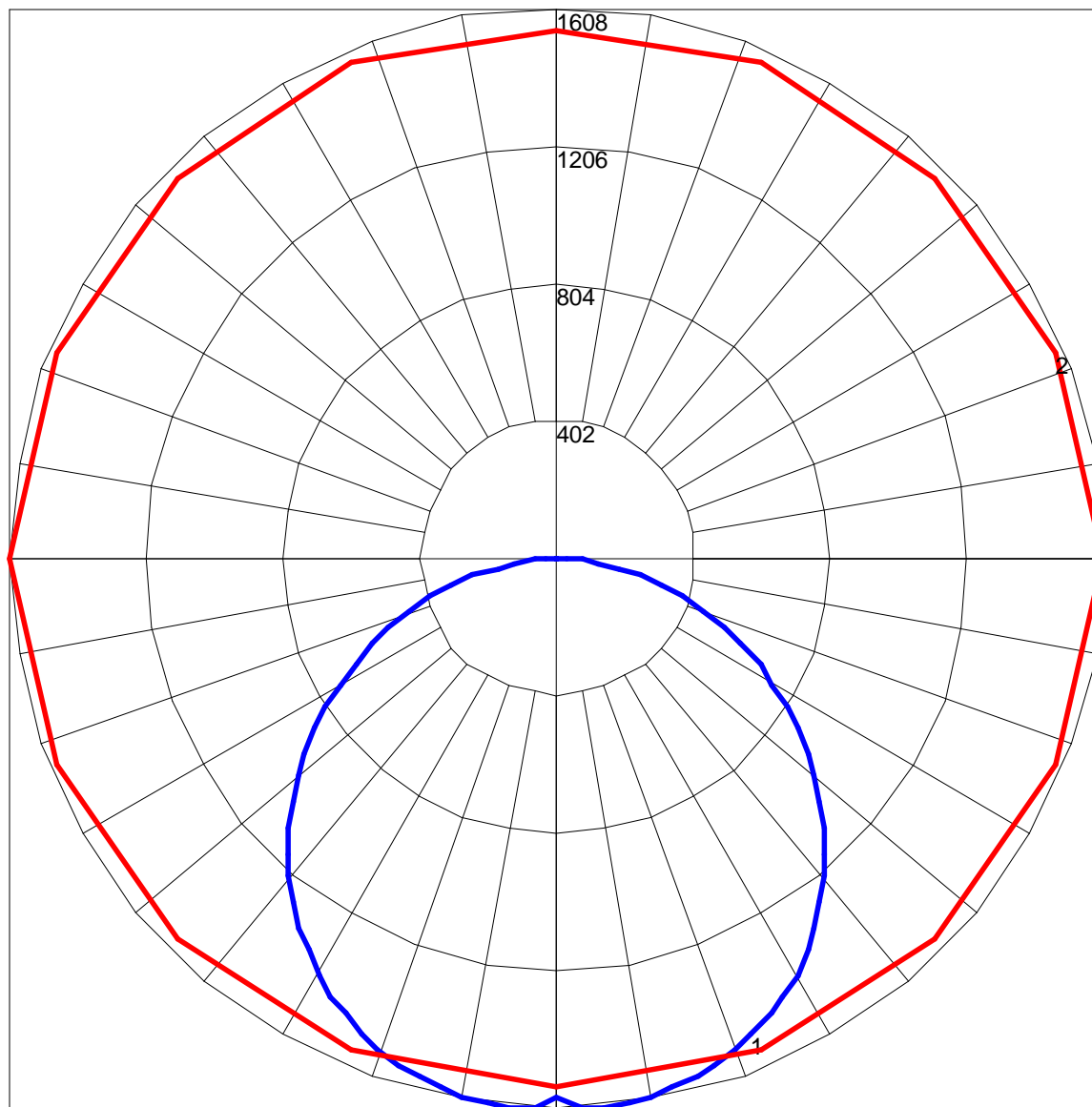
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	47	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 = 1608.026 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.)