



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL4-LED-60L-FL-35.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
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-60L-FL-35
[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	6037
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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	14883	9682	9072
55	13914	8426	8098
65	12609	7233	7149
75	10023	6073	6306
85	4542	5144	5608

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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	1472.494	1472.494	1472.494	1472.494	1472.494
2.5	1508.555	1487.520	1475.499	1463.479	1451.458
5.0	1508.555	1484.514	1475.499	1463.479	1451.458
7.5	1505.550	1481.509	1472.494	1460.474	1451.458
10.0	1499.540	1475.499	1469.489	1460.474	1448.453
12.5	1487.520	1466.484	1460.474	1454.464	1445.448
15.0	1475.499	1457.469	1451.458	1448.453	1439.438
17.5	1457.469	1439.438	1439.438	1439.438	1430.423
20.0	1436.433	1421.408	1424.413	1427.418	1421.408
22.5	1412.392	1397.367	1406.382	1415.397	1409.387
25.0	1382.341	1373.326	1385.346	1397.367	1397.367
27.5	1352.290	1343.275	1361.306	1379.336	1379.336
30.0	1316.229	1313.224	1334.260	1358.301	1361.306
32.5	1277.163	1277.163	1307.214	1337.265	1337.265
35.0	1235.092	1241.102	1271.153	1310.219	1313.224
37.5	1190.016	1199.031	1238.097	1280.168	1286.179
40.0	1141.934	1153.955	1199.031	1247.112	1256.128
42.5	1093.853	1108.878	1159.965	1214.056	1223.072
45.0	1039.761	1060.797	1114.888	1177.995	1193.021
47.5	985.670	1009.710	1072.817	1141.934	1159.965
50.0	928.573	958.624	1027.741	1105.873	1123.904
52.5	877.486	901.527	982.664	1063.802	1090.848
55.0	808.369	847.435	931.578	1021.731	1048.776
57.5	751.272	790.339	883.496	979.659	1009.710
60.0	691.171	733.242	838.420	937.588	970.644
62.5	631.069	679.150	790.339	892.512	928.573
65.0	561.952	622.054	742.257	847.435	883.496
67.5	498.845	564.957	694.176	805.364	841.425
70.0	432.733	507.860	646.094	760.288	799.354
72.5	363.616	447.758	601.018	718.217	757.283
75.0	297.504	399.677	555.942	676.145	718.217
77.5	234.397	351.596	513.870	637.079	679.150
80.0	171.290	306.519	474.804	598.013	640.084
82.5	117.199	264.448	435.738	558.947	601.018
85.0	63.107	225.382	399.677	522.886	564.957
87.5	27.046	189.321	366.621	489.830	531.901
90.0	3.005	159.270	333.565	453.769	498.845
92.5	0.000	132.224	303.514	420.713	462.784
95.0	3.005	111.188	273.463	387.657	429.728
97.5	3.005	93.158	246.417	357.606	396.672
100.0	3.005	75.127	219.372	327.555	366.621
102.5	3.005	63.107	198.336	297.504	336.570
105.0	3.005	54.092	174.295	273.463	309.524
107.5	0.000	45.076	156.265	249.422	282.478
110.0	0.000	36.061	138.234	225.382	258.438
112.5	0.000	30.051	123.209	204.346	234.397
115.0	0.000	27.046	108.183	183.310	213.361
117.5	0.000	21.036	93.158	165.280	192.326
120.0	0.000	18.031	81.137	147.249	171.290
122.5	0.000	15.025	72.122	129.219	153.260
125.0	0.000	12.020	63.107	117.199	138.234
127.5	0.000	9.015	51.087	102.173	120.204
130.0	3.005	9.015	45.076	87.148	105.178
132.5	0.000	6.010	36.061	75.127	90.153

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CANDELA TABULATION - (Cont.)

135.0	3.005	6.010	33.056	63.107	78.132
137.5	3.005	3.005	27.046	54.092	66.112
140.0	3.005	3.005	21.036	45.076	57.097
142.5	0.000	3.005	18.031	39.066	45.076
145.0	3.005	3.005	15.025	30.051	39.066
147.5	3.005	3.005	9.015	24.041	30.051
150.0	3.005	3.005	9.015	18.031	24.041
152.5	3.005	3.005	6.010	15.025	18.031
155.0	3.005	3.005	3.005	9.015	12.020
157.5	3.005	3.005	3.005	6.010	9.015
160.0	3.005	3.005	3.005	3.005	6.010
162.5	3.005	3.005	3.005	3.005	3.005
165.0	0.000	3.005	0.000	0.000	0.000
167.5	3.005	3.005	0.000	0.000	0.000
170.0	3.005	3.005	0.000	0.000	0.000
172.5	3.005	0.000	0.000	0.000	0.000
175.0	3.005	3.005	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	551.34	N.A.	9.10
0-30	1190.87	N.A.	19.70
0-40	1988.3	N.A.	32.90
0-60	3686.52	N.A.	61.10
0-80	4980.81	N.A.	82.50
0-90	5382.72	N.A.	89.20
10-90	5242.06	N.A.	86.80
20-40	1436.96	N.A.	23.80
20-50	2300.00	N.A.	38.10
40-70	2425.65	N.A.	40.20
60-80	1294.29	N.A.	21.40
70-80	566.85	N.A.	9.40
80-90	401.91	N.A.	6.70
90-110	446.50	N.A.	7.40
90-120	552.66	N.A.	9.20
90-130	611.30	N.A.	10.10
90-150	650.18	N.A.	10.80
90-180	653.90	N.A.	10.80
110-180	207.40	N.A.	3.40
0-180	6036.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.66
10-20	410.68
20-30	639.54
30-40	797.43
40-50	863.03
50-60	835.19
60-70	727.43
70-80	566.85
80-90	401.91
90-100	271.24
100-110	175.27
110-120	106.16
120-130	58.64
130-140	27.88
140-150	11.00
150-160	3.10
160-170	0.55
170-180	0.06

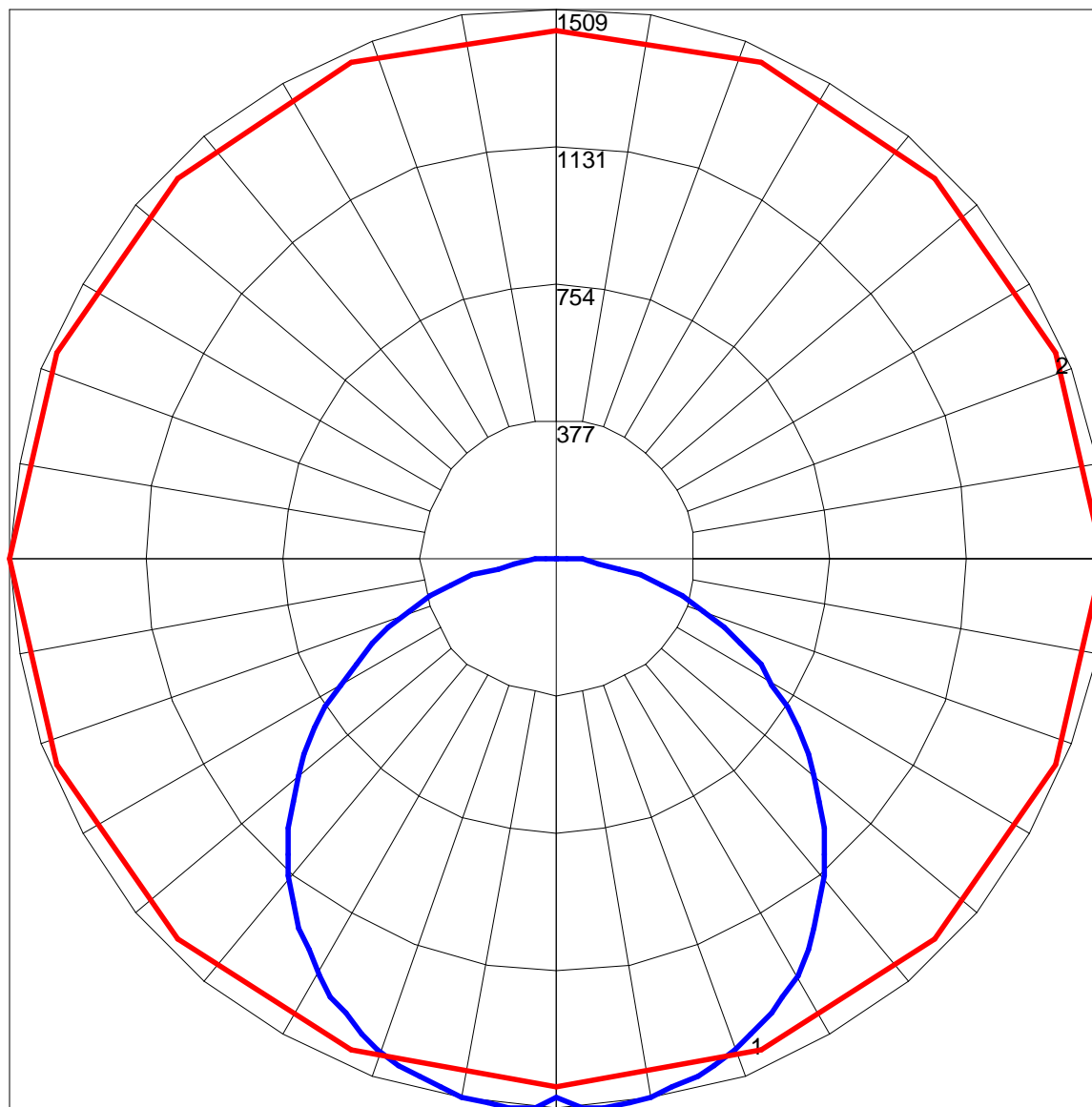
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1508.555 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.)