



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-40L-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9752\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]02/22/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S4-LED-40L-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	3916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	27.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14522	13990	13664
55	14585	13965	13564
65	14153	13213	12916
75	12525	11717	11555
85	8879	9358	9358

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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	1194.095	1194.095	1194.095	1194.095	1194.095
2.5	1231.046	1201.874	1192.150	1182.426	1172.702
5.0	1232.991	1203.819	1194.095	1184.371	1172.702
7.5	1229.101	1201.874	1190.205	1180.481	1168.813
10.0	1227.156	1199.929	1186.316	1178.537	1166.868
12.5	1225.211	1196.040	1184.371	1174.647	1162.978
15.0	1219.377	1192.150	1178.537	1168.813	1159.089
17.5	1209.653	1184.371	1170.758	1159.089	1149.365
20.0	1199.929	1172.702	1159.089	1147.420	1139.641
22.5	1186.316	1161.034	1147.420	1135.752	1127.972
25.0	1172.702	1149.365	1131.862	1122.138	1112.414
27.5	1157.144	1133.807	1116.304	1106.580	1096.856
30.0	1135.752	1114.359	1096.856	1085.187	1075.463
32.5	1112.414	1091.022	1071.574	1061.850	1052.126
35.0	1087.132	1063.795	1046.292	1036.568	1026.844
37.5	1057.960	1038.513	1019.065	1009.341	997.672
40.0	1030.733	1007.396	987.948	978.224	970.445
42.5	993.783	974.335	954.887	945.163	937.384
45.0	954.887	937.384	919.881	908.212	898.488
47.5	914.047	896.544	880.985	871.261	861.538
50.0	871.261	853.758	836.255	828.476	820.697
52.5	824.587	807.084	791.525	779.857	775.967
55.0	777.912	760.409	744.851	731.237	723.458
57.5	727.348	709.845	692.342	676.783	670.949
60.0	674.839	655.391	639.833	624.274	620.385
62.5	616.495	602.882	577.600	565.931	563.986
65.0	556.207	540.649	519.256	507.588	507.588
67.5	493.974	482.305	462.858	453.134	451.189
70.0	429.796	416.183	402.569	394.790	390.901
72.5	365.619	355.895	344.226	338.392	336.447
75.0	301.441	289.772	281.993	278.104	278.104
77.5	241.153	229.484	227.539	221.705	223.650
80.0	182.809	173.085	173.085	167.251	169.196
82.5	124.466	118.632	120.576	116.687	116.687
85.0	71.957	73.902	75.846	71.957	75.846
87.5	29.172	33.061	36.951	35.006	35.006
90.0	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	447.96	N.A.	11.40
0-30	972.39	N.A.	24.80
0-40	1630.42	N.A.	41.60
0-60	3008.28	N.A.	76.80
0-80	3831.11	N.A.	97.80
0-90	3916.39	N.A.	100.00
10-90	3802.47	N.A.	97.10
20-40	1182.47	N.A.	30.20
20-50	1894.22	N.A.	48.40
40-70	1897.65	N.A.	48.50
60-80	822.83	N.A.	21.00
70-80	303.04	N.A.	7.70
80-90	85.28	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3916.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	113.92
10-20	334.03
20-30	524.43
30-40	658.04
40-50	711.76
50-60	666.10
60-70	519.79
70-80	303.04
80-90	85.28
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

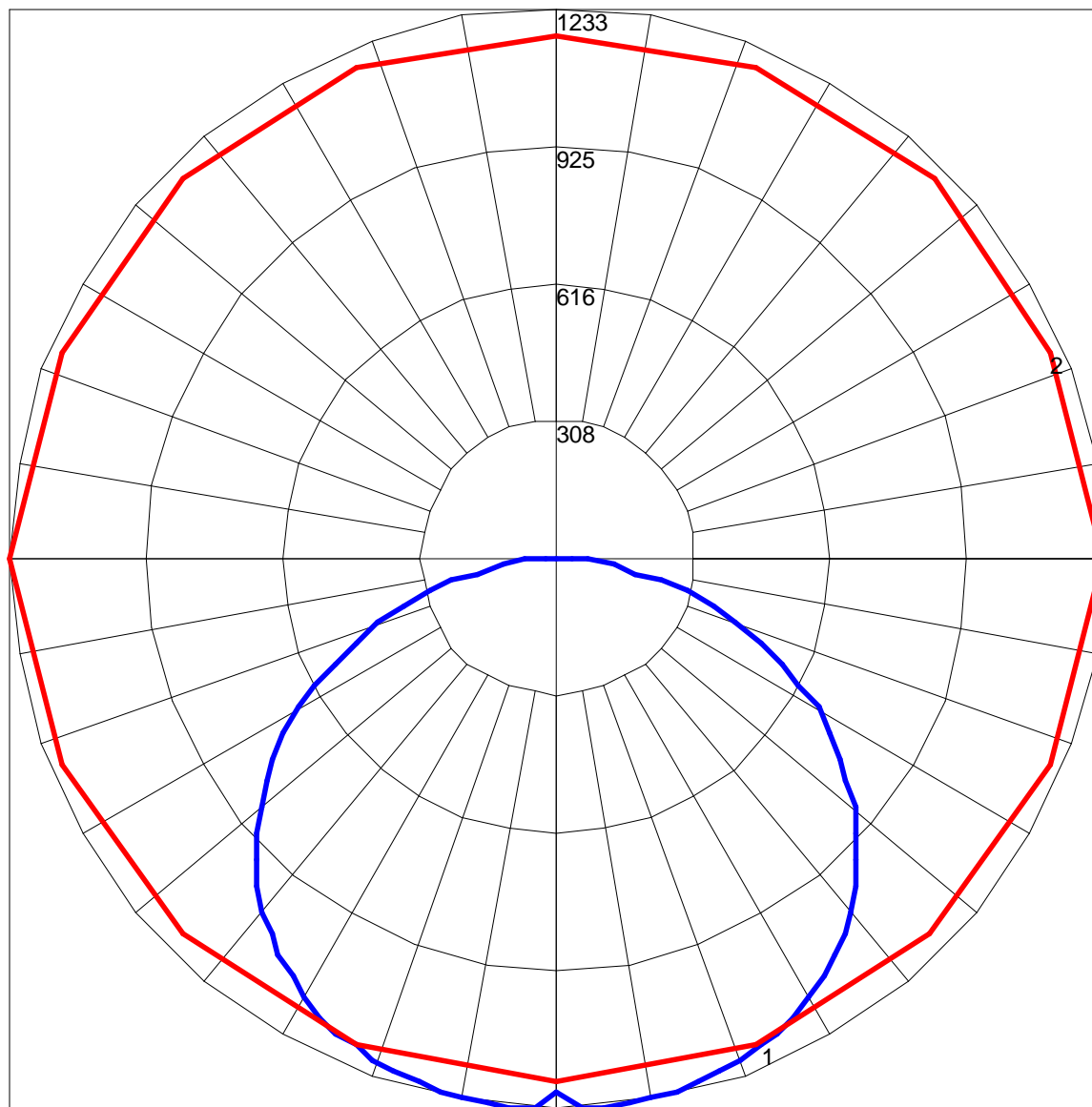
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 1232.991 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)