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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9717
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]03/30/2018
[TESTDATE]02/15/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]S4-LED-40L-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	4004
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	27.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
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	14737	14311	13961
55	14849	14249	13837
65	14351	13613	13130
75	12880	11966	11800
85	9254	9624	9254

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	1221	1221	1221	1221	1221
2.5	1255	1230	1220	1211	1199
5.0	1256	1231	1220	1212	1199
7.5	1255	1230	1220	1211	1199
10.0	1252	1228	1217	1208	1196
12.5	1249	1225	1213	1204	1192
15.0	1244	1218	1206	1197	1185
17.5	1235	1211	1197	1188	1177
20.0	1226	1201	1187	1177	1166
22.5	1214	1190	1175	1165	1154
25.0	1198	1176	1160	1150	1139
27.5	1180	1159	1143	1132	1120
30.0	1159	1139	1124	1111	1101
32.5	1135	1116	1100	1088	1078
35.0	1106	1090	1074	1062	1051
37.5	1076	1062	1045	1034	1023
40.0	1043	1031	1013	1002	989
42.5	1008	997	978	967	954
45.0	969	960	941	929	918
47.5	929	920	901	889	878
50.0	886	876	858	845	835
52.5	838	831	811	797	788
55.0	792	778	760	745	738
57.5	738	726	709	689	685
60.0	683	672	654	634	631
62.5	625	616	594	576	574
65.0	564	557	535	519	516
67.5	502	495	474	460	459
70.0	440	431	411	402	400
72.5	373	365	349	343	342
75.0	310	297	288	285	284
77.5	243	232	230	227	228
80.0	182	175	174	173	172
82.5	125	123	124	120	122
85.0	75	77	78	74	75
87.5	34	37	38	37	38
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	458.44	N.A.	11.40
0-30	995.22	N.A.	24.90
0-40	1668.73	N.A.	41.70
0-60	3076.36	N.A.	76.80
0-80	3916.54	N.A.	97.80
0-90	4004.42	N.A.	100.00
10-90	3887.82	N.A.	97.10
20-40	1210.29	N.A.	30.20
20-50	1937.63	N.A.	48.40
40-70	1938.82	N.A.	48.40
60-80	840.19	N.A.	21.00
70-80	309.00	N.A.	7.70
80-90	87.87	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	4004.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.60
10-20	341.84
20-30	536.77
30-40	673.51
40-50	727.34
50-60	680.28
60-70	531.19
70-80	309.00
80-90	87.87
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	74	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	37	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	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

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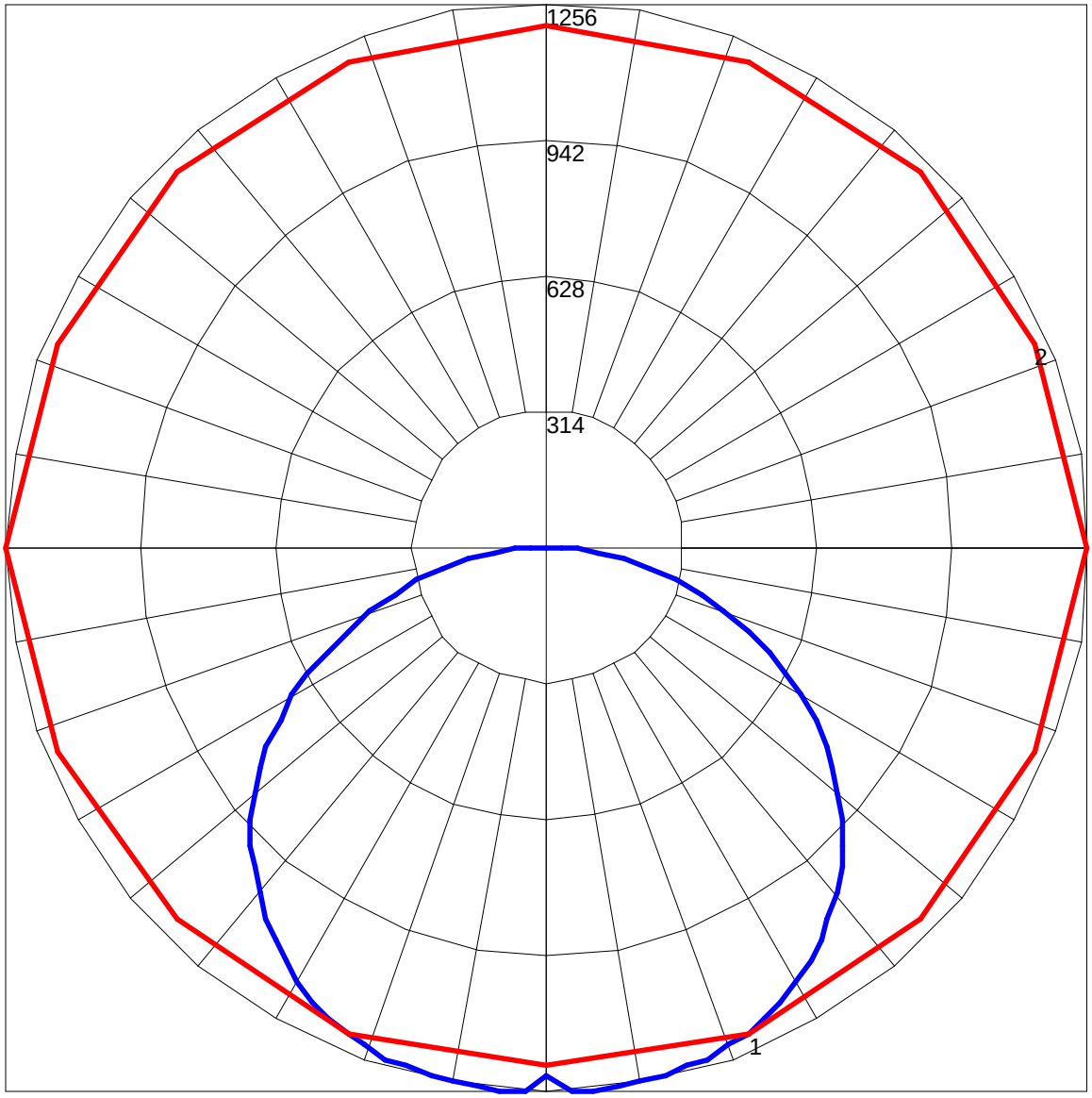
POLAR GRAPH



Maximum Candela = 1256 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.)