



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S4-LED-50L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9719
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/2018
[TEST DATE]02/15/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]S4-LED-50L-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	5036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	35.4
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	18478	17961	17565
55	18636	17961	17380
65	18168	17150	16591
75	16329	15249	14916
85	11968	12339	12215

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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	1527	1527	1527	1527	1527
2.5	1572	1538	1526	1515	1503
5.0	1573	1540	1527	1515	1503
7.5	1573	1539	1525	1513	1501
10.0	1570	1536	1523	1509	1497
12.5	1566	1532	1517	1503	1491
15.0	1558	1525	1509	1496	1481
17.5	1547	1514	1498	1486	1469
20.0	1535	1503	1486	1475	1455
22.5	1518	1488	1471	1458	1439
25.0	1500	1471	1453	1440	1422
27.5	1477	1451	1431	1418	1401
30.0	1450	1426	1406	1392	1376
32.5	1420	1398	1378	1365	1348
35.0	1385	1366	1346	1333	1315
37.5	1349	1332	1310	1297	1280
40.0	1308	1294	1271	1257	1242
42.5	1262	1250	1227	1215	1201
45.0	1215	1204	1181	1169	1155
47.5	1166	1153	1130	1119	1107
50.0	1113	1098	1077	1063	1052
52.5	1055	1042	1018	1003	993
55.0	994	981	958	939	927
57.5	931	916	893	871	861
60.0	862	849	825	800	789
62.5	790	777	751	727	721
65.0	714	703	674	656	652
67.5	633	625	599	584	582
70.0	555	542	520	512	508
72.5	471	460	444	436	435
75.0	393	378	367	362	359
77.5	312	299	294	288	286
80.0	236	226	224	219	218
82.5	163	157	158	154	155
85.0	97	99	100	96	99
87.5	42	48	51	51	52
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	573.50	N.A.	11.40
0-30	1245.24	N.A.	24.70
0-40	2089.32	N.A.	41.50
0-60	3858.93	N.A.	76.60
0-80	4922.5	N.A.	97.70
0-90	5035.82	N.A.	100.00
10-90	4889.94	N.A.	97.10
20-40	1515.82	N.A.	30.10
20-50	2429.06	N.A.	48.20
40-70	2440.51	N.A.	48.50
60-80	1063.58	N.A.	21.10
70-80	392.68	N.A.	7.80
80-90	113.32	N.A.	2.30
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	5035.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.88
10-20	427.62
20-30	671.74
30-40	844.08
40-50	913.24
50-60	856.37
60-70	670.90
70-80	392.68
80-90	113.32
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

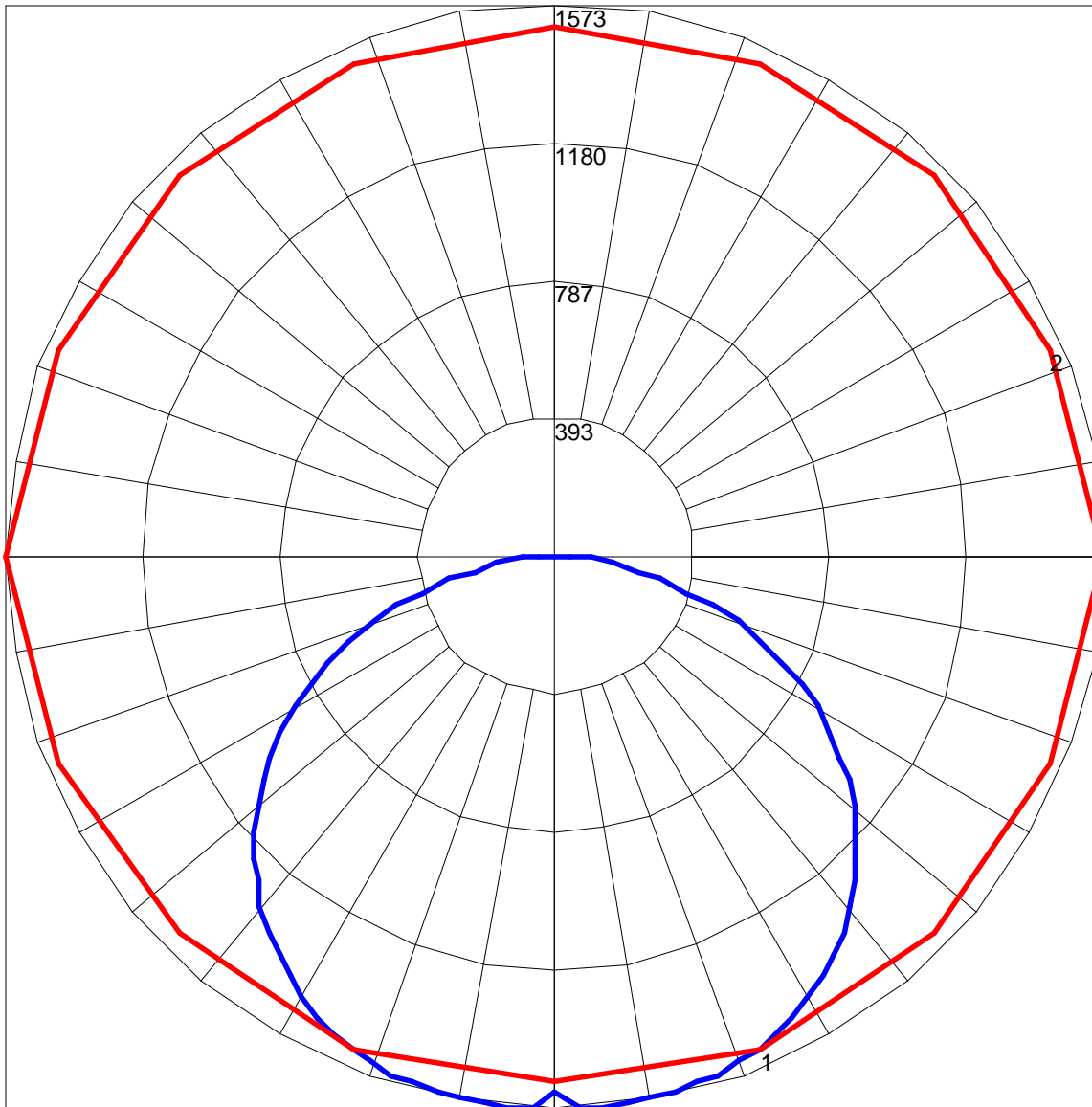
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	74	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	43	38	49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	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 = 1573 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.)