



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPEC22-LED-50L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8833_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]07/10/17
[TEST DATE]04/26/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPEC22-LED-50L-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 SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	40.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3959	4762	5490
55	3631	4868	6039
65	3286	4946	6748
75	2798	5221	8134
85	2141	5653	9337

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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	1641.148	1641.148	1641.148	1641.148	1641.148
2.5	1671.694	1660.586	1641.148	1627.263	1618.933
5.0	1671.694	1657.809	1643.925	1627.263	1618.933
7.5	1663.363	1652.256	1638.371	1630.040	1621.710
10.0	1652.256	1643.925	1635.594	1630.040	1627.263
12.5	1635.594	1630.040	1627.263	1624.487	1627.263
15.0	1618.933	1618.933	1621.710	1627.263	1624.487
17.5	1593.941	1596.718	1607.825	1618.933	1621.710
20.0	1566.172	1574.502	1593.941	1616.156	1621.710
22.5	1532.849	1543.956	1574.502	1605.048	1613.379
25.0	1496.749	1510.634	1552.287	1593.941	1607.825
27.5	1452.319	1474.534	1530.072	1582.833	1599.494
30.0	1402.335	1430.104	1496.749	1563.395	1585.610
32.5	1349.573	1382.896	1466.203	1541.180	1571.725
35.0	1296.812	1335.689	1430.104	1521.741	1552.287
37.5	1235.721	1280.151	1388.450	1491.195	1530.072
40.0	1171.852	1224.613	1346.797	1460.649	1502.303
42.5	1107.983	1166.298	1302.366	1427.327	1471.757
45.0	1041.338	1105.206	1252.382	1388.450	1443.988
47.5	980.246	1041.338	1202.398	1352.350	1410.665
50.0	913.600	977.469	1146.860	1310.697	1371.789
52.5	844.178	913.600	1094.099	1269.043	1327.358
55.0	774.755	849.731	1038.561	1219.059	1288.482
57.5	710.886	783.086	974.692	1166.298	1241.274
60.0	641.464	713.663	913.600	1107.983	1182.959
62.5	580.372	649.795	849.731	1055.222	1127.421
65.0	516.503	580.372	777.532	988.576	1060.776
67.5	452.635	513.727	713.663	921.931	1002.461
70.0	388.766	447.081	641.464	855.285	933.038
72.5	330.451	383.212	572.041	785.863	866.393
75.0	269.359	322.120	502.619	708.110	783.086
77.5	213.821	261.029	427.643	619.249	697.002
80.0	163.837	205.491	352.666	527.611	591.480
82.5	116.630	147.176	269.359	410.981	463.742
85.0	69.423	94.415	183.275	274.913	302.682
87.5	30.546	38.877	83.307	116.630	119.407
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC22-LED-50L-50.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	614.87	N.A.	10.90
0-30	1331.03	N.A.	23.70
0-40	2223.64	N.A.	39.50
0-60	4110.69	N.A.	73.10
0-80	5428.23	N.A.	96.50
0-90	5625.61	N.A.	100.00
10-90	5468.96	N.A.	97.20
20-40	1608.77	N.A.	28.60
20-50	2571.81	N.A.	45.70
40-70	2663.77	N.A.	47.40
60-80	1317.53	N.A.	23.40
70-80	540.81	N.A.	9.60
80-90	197.39	N.A.	3.50
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	5625.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.65
10-20	458.22
20-30	716.16
30-40	892.61
40-50	963.04
50-60	924.01
60-70	776.72
70-80	540.81
80-90	197.39
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

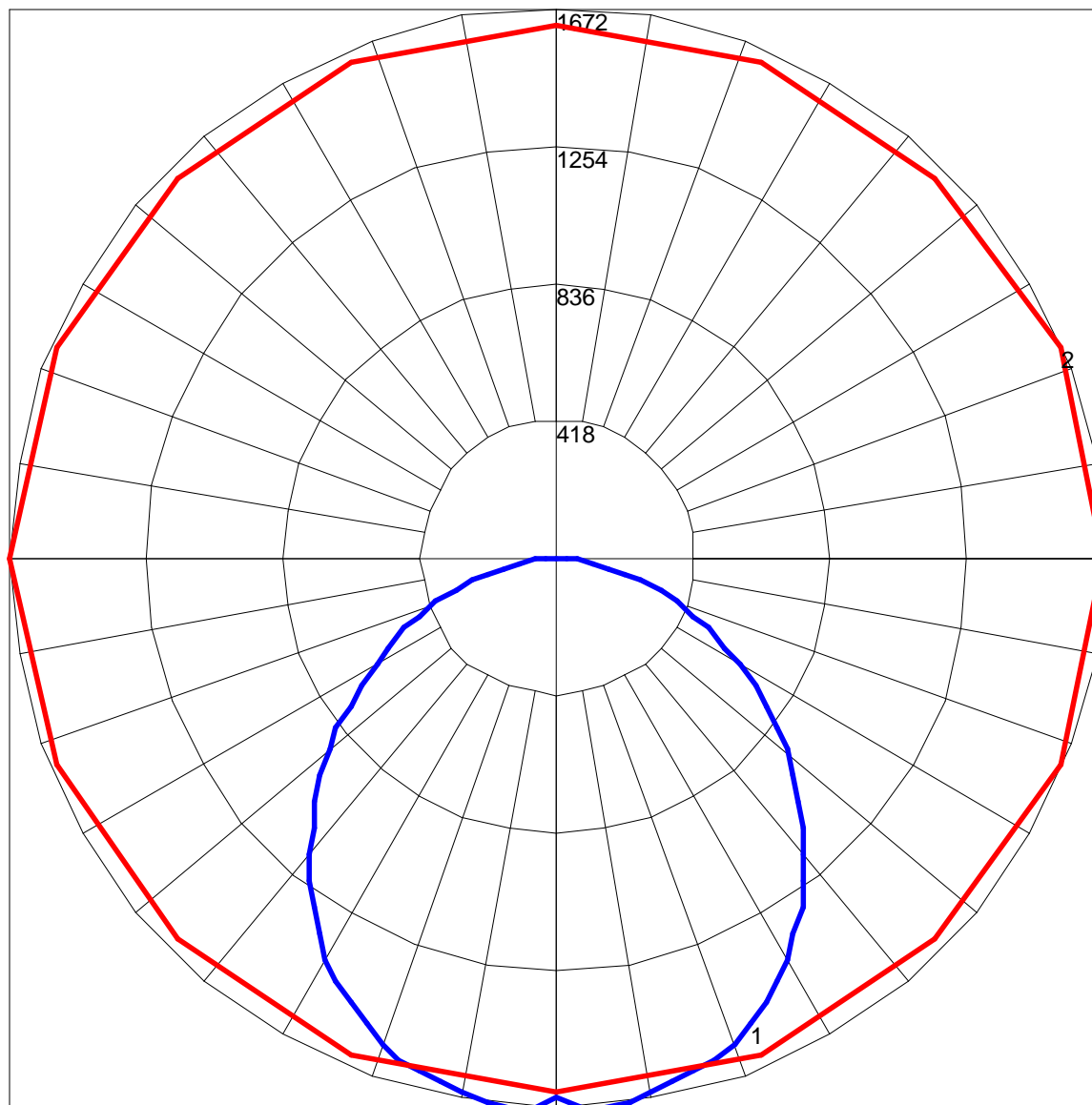
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC22-LED-50L-50.IES

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	107	102	97	93	105	100	95	91	95	92	88	91	88	86	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55
4	80	67	58	51	78	66	57	50	63	56	50	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	49	42	54	47	42	52	46	42	39
6	68	54	44	37	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32	45	37	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	28	26
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	49	37	29	24	36	28	23	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 1671.694 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.)



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPEC22-LED-50L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-8823

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]04/25/17

[TEST DATE]04/25/17

[MANUFACTURER]LSI INDUSTRIES, INC

[LUMEN CATEGORY]LPEC22-LED-50L-40

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

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

[SEARCH SOURCE TYPE] LED

[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5093
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	40.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.98 ft
Luminous Width (90-270)	1.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3731	4422	5063
55	3422	4470	5509
65	3040	4508	6158
75	2620	4688	7245
85	1984	4788	7434

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC22-LED-50L-40.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1522	1522	1522	1522	1522
2.5	1545	1537	1522	1510	1506
5.0	1543	1535	1522	1511	1507
7.5	1538	1533	1520	1512	1509
10.0	1528	1523	1516	1510	1508
12.5	1513	1511	1507	1507	1507
15.0	1498	1496	1499	1504	1505
17.5	1475	1477	1485	1495	1500
20.0	1447	1454	1471	1488	1495
22.5	1419	1429	1453	1478	1488
25.0	1384	1398	1431	1465	1480
27.5	1345	1362	1406	1450	1467
30.0	1300	1323	1379	1431	1452
32.5	1251	1279	1345	1409	1435
35.0	1196	1230	1309	1385	1414
37.5	1141	1180	1270	1357	1390
40.0	1084	1125	1228	1327	1365
42.5	1023	1071	1185	1294	1336
45.0	961	1013	1139	1258	1304
47.5	902	956	1091	1222	1270
50.0	839	896	1041	1180	1232
52.5	778	837	988	1137	1193
55.0	715	775	934	1091	1151
57.5	653	712	876	1041	1105
60.0	590	650	817	990	1056
62.5	527	586	758	936	1004
65.0	468	524	694	877	948
67.5	409	464	632	816	887
70.0	353	403	569	752	822
72.5	298	346	505	685	757
75.0	247	289	442	618	683
77.5	195	235	376	538	601
80.0	146	182	305	450	505
82.5	104	133	234	345	382
85.0	63	82	152	216	236
87.5	27	35	68	89	89
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	568.98	N.A.	11.20
0-30	1229.03	N.A.	24.10
0-40	2047.14	N.A.	40.20
0-60	3757.81	N.A.	73.80
0-80	4927.19	N.A.	96.70
0-90	5092.85	N.A.	100.00
10-90	4947.63	N.A.	97.10
20-40	1478.16	N.A.	29.00
20-50	2354.95	N.A.	46.20
40-70	2404.23	N.A.	47.20
60-80	1169.38	N.A.	23.00
70-80	475.81	N.A.	9.30
80-90	165.67	N.A.	3.30
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	5092.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.23
10-20	423.75
20-30	660.04
30-40	818.11
40-50	876.80
50-60	833.87
60-70	693.57
70-80	475.81
80-90	165.67
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

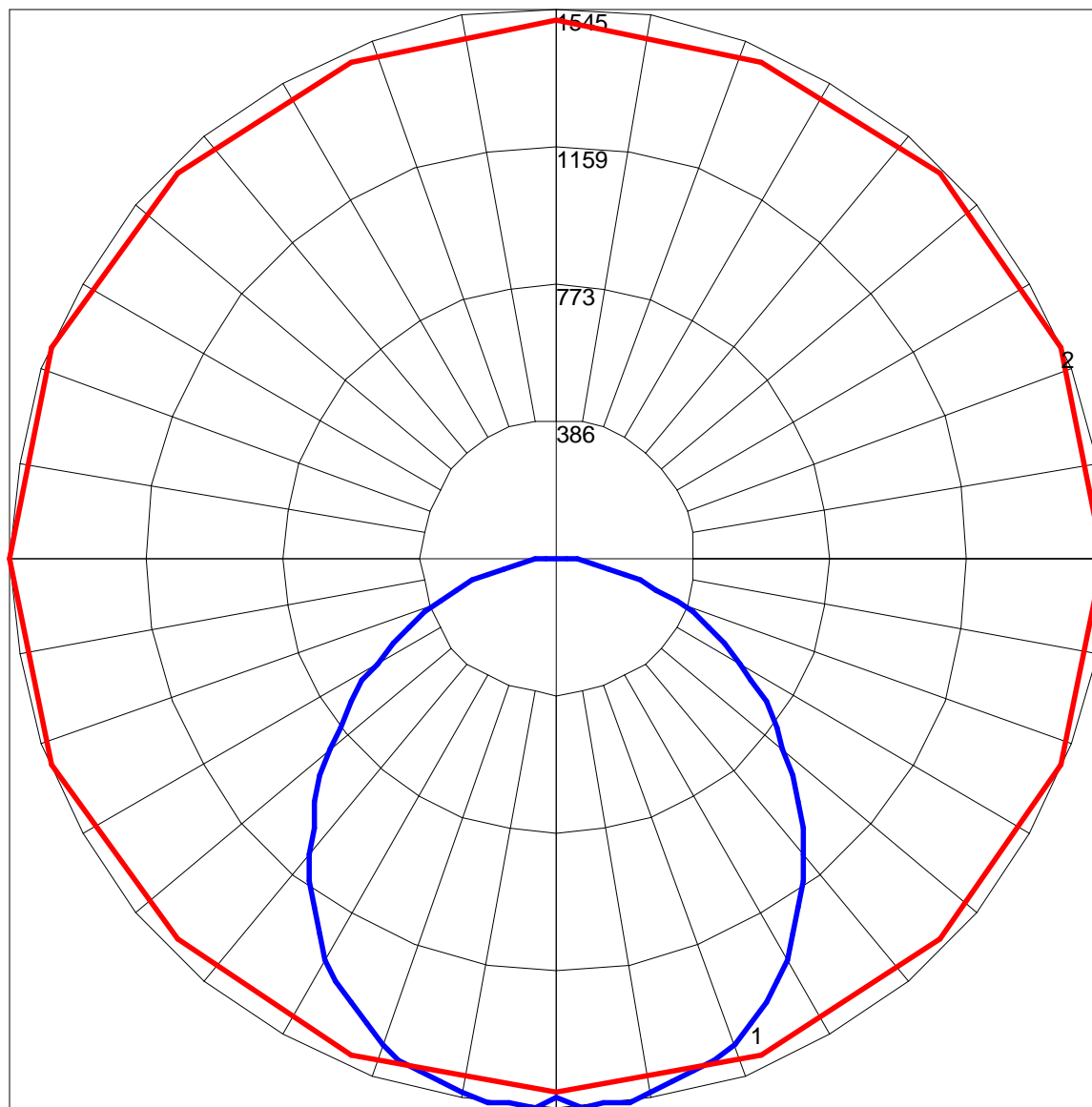
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC22-LED-50L-40.IES

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	102	98	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81
2	97	88	81	75	94	86	79	74	83	77	72	79	74	70	76	72	69	66
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1545 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.)