



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC14-LED-50L-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8850\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]07/11/17  
[TEST DATE]04/28/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LPASC14-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\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	39.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4196	4695	5103
55	3892	4671	5299
65	3613	4755	5453
75	3311	4730	4591
85	3057	4297	4793

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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	1706.434	1706.434	1706.434	1706.434	1706.434
2.5	1749.296	1722.507	1709.113	1693.039	1685.003
5.0	1743.938	1719.828	1709.113	1693.039	1679.645
7.5	1735.901	1714.470	1703.755	1690.361	1682.324
10.0	1735.901	1709.113	1701.076	1690.361	1679.645
12.5	1717.149	1693.039	1690.361	1682.324	1674.287
15.0	1698.397	1676.966	1679.645	1679.645	1668.930
17.5	1676.966	1658.214	1660.893	1666.251	1660.893
20.0	1642.141	1628.747	1636.783	1647.499	1644.820
22.5	1607.316	1599.279	1612.674	1631.426	1628.747
25.0	1572.491	1564.454	1588.564	1609.995	1609.995
27.5	1524.271	1524.271	1556.418	1585.885	1591.243
30.0	1473.373	1484.088	1521.592	1559.096	1567.133
32.5	1417.117	1430.511	1481.410	1526.950	1534.987
35.0	1363.540	1382.292	1441.227	1497.483	1508.198
37.5	1299.247	1323.357	1393.007	1457.300	1470.694
40.0	1240.312	1267.101	1347.467	1417.117	1433.190
42.5	1167.983	1200.129	1291.210	1366.219	1387.649
45.0	1103.690	1135.837	1234.954	1320.678	1342.109
47.5	1034.040	1076.902	1181.377	1275.137	1299.247
50.0	964.390	1009.930	1119.763	1218.881	1240.312
52.5	897.418	945.638	1063.507	1159.946	1189.414
55.0	830.447	878.666	996.536	1101.011	1130.479
57.5	763.475	817.052	940.280	1042.077	1071.544
60.0	699.182	752.760	873.308	975.105	1007.251
62.5	629.532	683.109	809.016	908.134	932.243
65.0	567.918	618.817	747.402	841.162	857.235
67.5	498.268	549.166	677.752	750.081	758.117
70.0	433.975	492.910	608.101	656.321	648.284
72.5	377.719	436.654	535.772	559.882	546.487
75.0	318.784	377.719	455.406	452.727	442.012
77.5	262.528	324.142	372.362	361.646	345.573
80.0	203.593	257.171	283.959	273.244	267.886
82.5	147.337	195.557	208.951	206.272	206.272
85.0	99.118	131.264	139.301	147.337	155.374
87.5	50.898	66.971	66.971	72.329	75.008
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC14-LED-50L-50.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	637.10	N.A.	11.80
0-30	1369.16	N.A.	25.30
0-40	2268.33	N.A.	42.00
0-60	4103.52	N.A.	75.90
0-80	5261.87	N.A.	97.30
0-90	5406.58	N.A.	100.00
10-90	5243.75	N.A.	97.00
20-40	1631.23	N.A.	30.20
20-50	2580.43	N.A.	47.70
40-70	2551.95	N.A.	47.20
60-80	1158.35	N.A.	21.40
70-80	441.60	N.A.	8.20
80-90	144.71	N.A.	2.70
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	5406.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.82
10-20	474.27
20-30	732.06
30-40	899.17
40-50	949.20
50-60	885.99
60-70	716.76
70-80	441.60
80-90	144.71
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

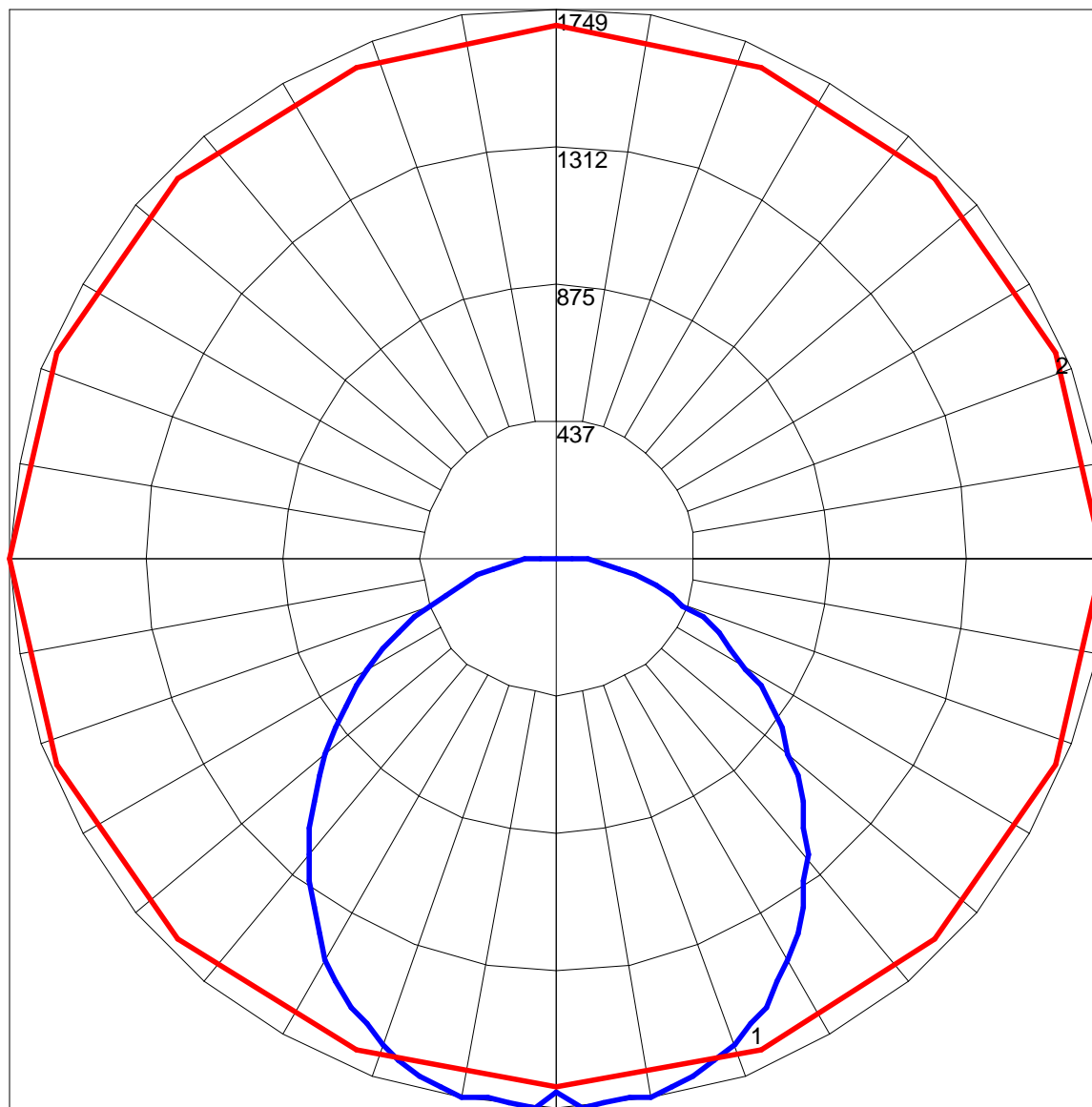
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC14-LED-50L-50.IES**

**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	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	62	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	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	34	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	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	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 1749.296 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 : LPASC14-LED-50L-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8855  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]05/01/17  
[TEST DATE]05/01/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LPASC14-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	5069
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	39.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3905	4407	4802
55	3633	4397	4978
65	3378	4447	5096
75	3085	4467	4300
85	2869	4072	4442

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC14-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>
<b>0.0</b>	1593	1593	1593	1593	1593
<b>2.5</b>	1629	1606	1594	1582	1571
<b>5.0</b>	1629	1606	1594	1583	1572
<b>7.5</b>	1624	1601	1591	1581	1571
<b>10.0</b>	1614	1593	1586	1578	1569
<b>12.5</b>	1601	1581	1577	1573	1565
<b>15.0</b>	1583	1566	1565	1565	1559
<b>17.5</b>	1559	1545	1550	1555	1551
<b>20.0</b>	1532	1522	1532	1543	1540
<b>22.5</b>	1500	1493	1509	1526	1526
<b>25.0</b>	1464	1461	1484	1507	1510
<b>27.5</b>	1422	1425	1456	1485	1491
<b>30.0</b>	1377	1385	1424	1461	1467
<b>32.5</b>	1326	1340	1388	1432	1441
<b>35.0</b>	1273	1291	1348	1401	1413
<b>37.5</b>	1217	1239	1305	1366	1380
<b>40.0</b>	1157	1183	1260	1328	1345
<b>42.5</b>	1096	1126	1211	1286	1305
<b>45.0</b>	1027	1066	1159	1242	1263
<b>47.5</b>	964	1006	1107	1195	1218
<b>50.0</b>	902	945	1051	1144	1170
<b>52.5</b>	838	885	995	1090	1118
<b>55.0</b>	775	823	938	1035	1062
<b>57.5</b>	713	763	878	976	1002
<b>60.0</b>	651	702	819	916	942
<b>62.5</b>	591	641	759	855	877
<b>65.0</b>	531	580	699	787	801
<b>67.5</b>	466	519	638	711	714
<b>70.0</b>	409	463	575	624	618
<b>72.5</b>	352	408	504	526	517
<b>75.0</b>	297	354	430	428	414
<b>77.5</b>	243	301	349	338	323
<b>80.0</b>	192	246	271	259	252
<b>82.5</b>	142	184	197	195	195
<b>85.0</b>	93	125	132	141	144
<b>87.5</b>	47	66	73	77	77
<b>90.0</b>	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC14-LED-50L-40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	594.63	N.A.	11.70
0-30	1279.2	N.A.	25.20
0-40	2120.98	N.A.	41.80
0-60	3841.17	N.A.	75.80
0-80	4929.95	N.A.	97.30
0-90	5068.61	N.A.	100.00
10-90	4916.58	N.A.	97.00
20-40	1526.34	N.A.	30.10
20-50	2416.34	N.A.	47.70
40-70	2393.71	N.A.	47.20
60-80	1088.78	N.A.	21.50
70-80	415.25	N.A.	8.20
80-90	138.66	N.A.	2.70
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	5068.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.02
10-20	442.61
20-30	684.57
30-40	841.78
40-50	890.00
50-60	830.19
60-70	673.53
70-80	415.25
80-90	138.66
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



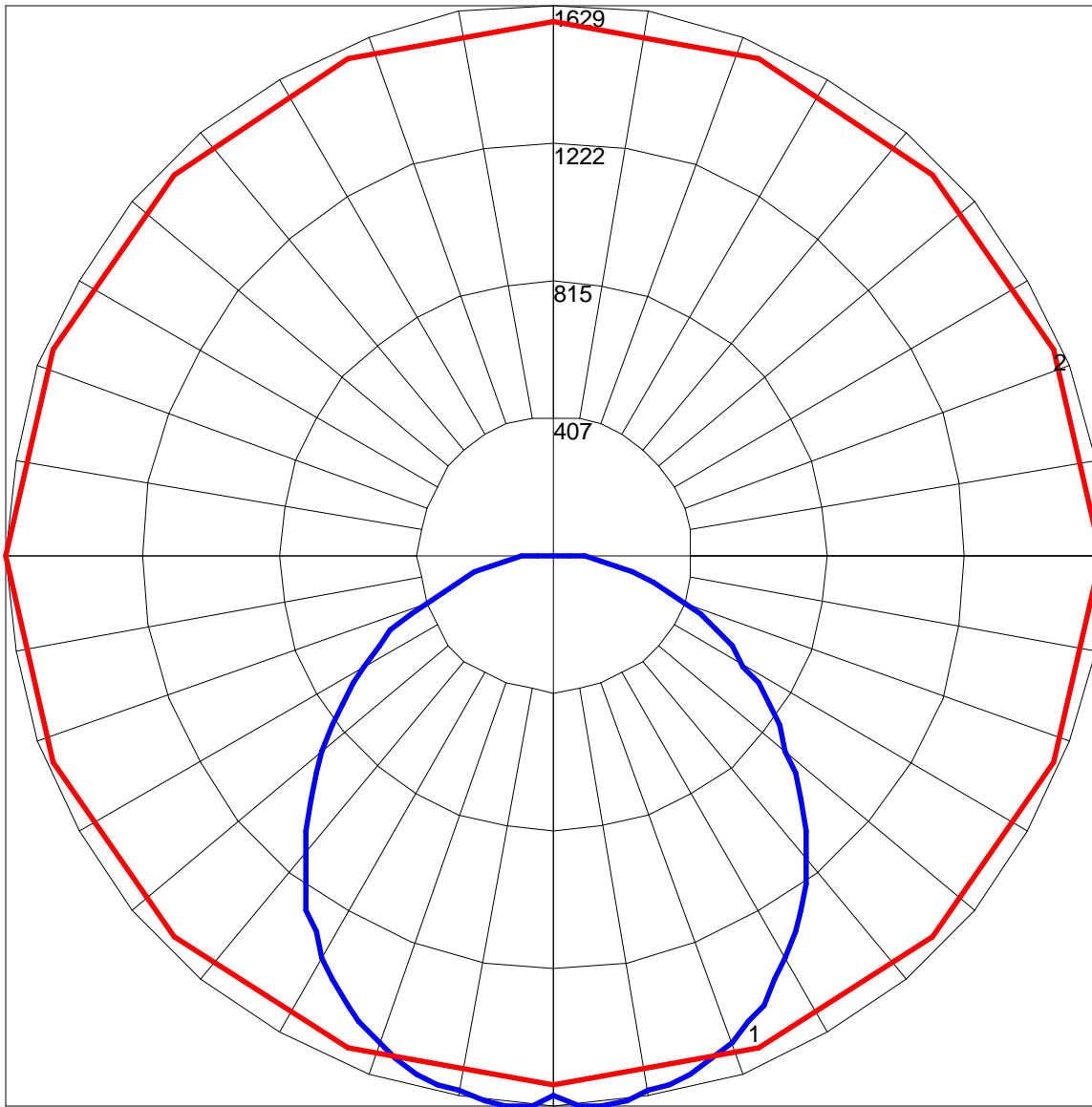
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC14-LED-50L-40.IES**

**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	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	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	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	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	30	25	36	29	24	35	29	24	23

POLAR GRAPH



Maximum Candela = 1629 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.)