



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC22-LED-32L-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8808\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE]DATE]07/17/17  
[TEST]DATE]04/21/17  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]LPASC22-LED-32L-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	3445
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
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	2443	2903	3351
55	2271	2941	3643
65	2108	3103	4098
75	1922	3547	5329
85	1557	4047	4774

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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>
<b>0.0</b>	1013.040	1013.040	1013.040	1013.040	1013.040
<b>2.5</b>	1036.101	1027.865	1014.688	1001.510	996.568
<b>5.0</b>	1034.454	1026.218	1014.688	1003.157	998.215
<b>7.5</b>	1031.160	1022.924	1013.040	1004.804	999.863
<b>10.0</b>	1022.924	1017.982	1011.393	1004.804	1003.157
<b>12.5</b>	1013.040	1008.099	1006.451	1004.804	1003.157
<b>15.0</b>	998.215	996.568	999.863	1003.157	1004.804
<b>17.5</b>	981.743	981.743	991.626	999.863	1004.804
<b>20.0</b>	961.976	965.271	981.743	996.568	1001.510
<b>22.5</b>	937.268	945.504	968.565	989.979	996.568
<b>25.0</b>	912.560	924.090	953.740	981.743	991.626
<b>27.5</b>	884.557	897.735	935.621	970.213	983.390
<b>30.0</b>	851.613	869.732	915.854	958.682	973.507
<b>32.5</b>	817.021	840.082	892.793	940.563	960.329
<b>35.0</b>	780.782	807.138	864.791	922.443	945.504
<b>37.5</b>	744.543	774.193	838.435	902.677	927.385
<b>40.0</b>	705.010	737.955	808.785	879.615	907.618
<b>42.5</b>	667.124	703.363	779.135	856.554	886.204
<b>45.0</b>	629.238	667.124	747.838	831.846	863.143
<b>47.5</b>	589.705	629.238	714.893	803.843	840.082
<b>50.0</b>	550.171	591.352	681.949	777.488	815.374
<b>52.5</b>	510.638	551.819	649.005	749.485	789.018
<b>55.0</b>	474.399	513.933	614.413	721.482	761.016
<b>57.5</b>	433.219	476.047	579.821	690.185	731.366
<b>60.0</b>	396.980	439.808	545.230	657.241	701.716
<b>62.5</b>	359.094	401.922	510.638	624.296	667.124
<b>65.0</b>	324.502	365.683	477.694	588.058	630.885
<b>67.5</b>	288.264	331.091	441.455	553.466	597.941
<b>70.0</b>	252.025	294.852	405.216	518.874	573.233
<b>72.5</b>	215.786	258.614	368.977	489.224	550.171
<b>75.0</b>	181.194	224.022	334.386	449.691	502.402
<b>77.5</b>	144.955	191.078	301.441	411.805	462.869
<b>80.0</b>	112.011	156.486	260.261	340.975	355.800
<b>82.5</b>	80.714	121.894	202.608	242.141	252.025
<b>85.0</b>	49.417	80.714	128.483	144.955	151.544
<b>87.5</b>	23.061	32.944	56.005	72.478	84.008
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	379.48	N.A.	11.00
0-30	818.62	N.A.	23.80
0-40	1359.76	N.A.	39.50
0-60	2488.72	N.A.	72.20
0-80	3316.23	N.A.	96.30
0-90	3445.35	N.A.	100.00
10-90	3348.57	N.A.	97.20
20-40	980.28	N.A.	28.50
20-50	1557.6	N.A.	45.20
40-70	1602.03	N.A.	46.50
60-80	827.51	N.A.	24.00
70-80	354.44	N.A.	10.30
80-90	129.12	N.A.	3.70
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	3445.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.79
10-20	282.70
20-30	439.14
30-40	541.14
40-50	577.32
50-60	551.64
60-70	473.08
70-80	354.44
80-90	129.12
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

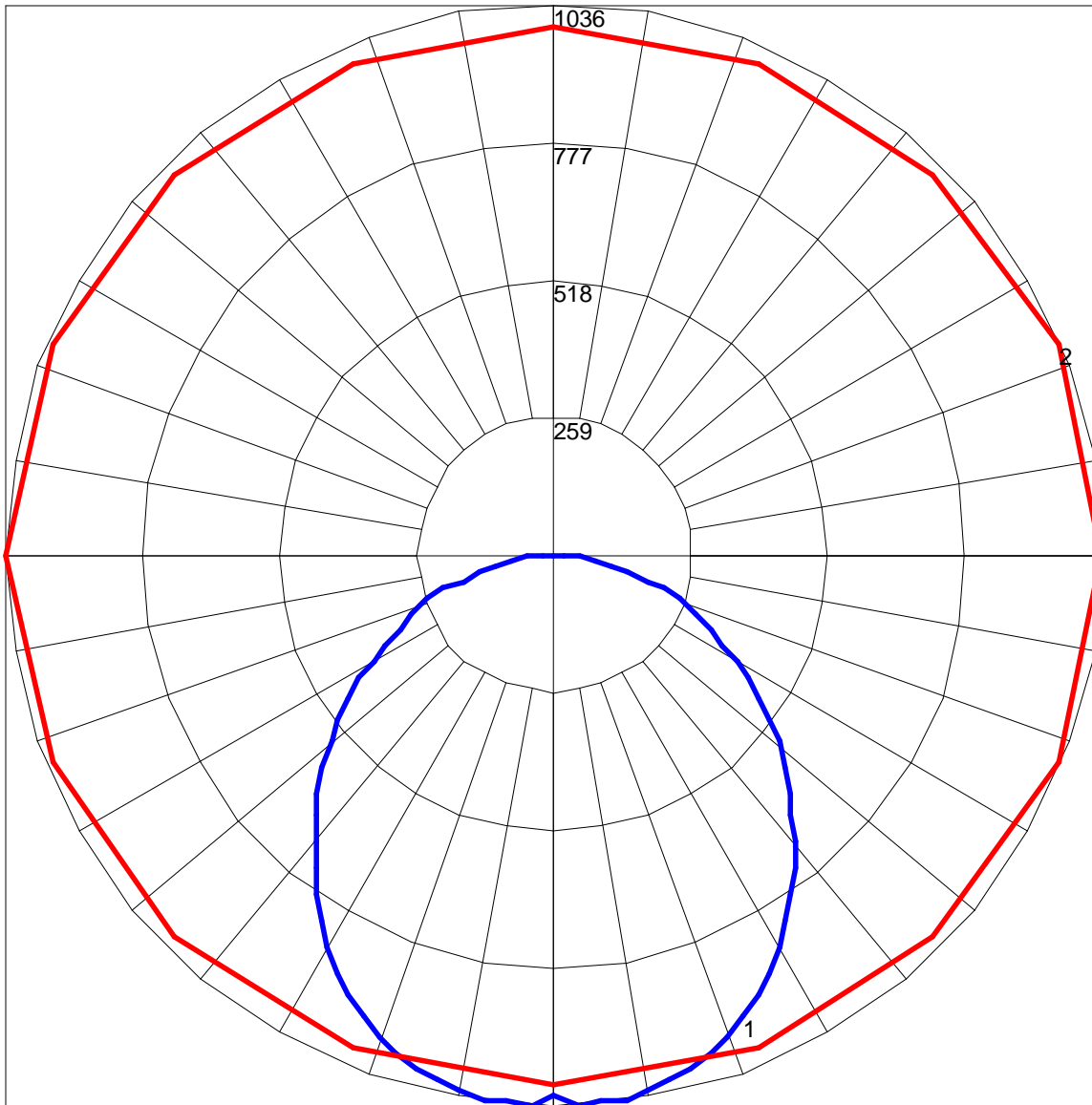
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC22-LED-32L-50.IES**

**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	92	104	99	95	91	95	91	88	91	88	85	87	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	69	75	71	68	65
3	88	76	67	60	85	74	66	60	71	64	59	69	63	57	66	61	56	54
4	80	67	58	50	77	66	57	50	63	55	49	61	54	49	58	53	48	46
5	73	60	50	43	71	58	49	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	65	52	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	47	39	33	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	29	39	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	23	36	28	23	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 1036.101 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 : LPASC22-LED-32L-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8802  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]04/20/17  
[TEST DATE]04/20/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LPASC22-LED-32L-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	3231
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
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	2314	2741	3153
55	2149	2781	3413
65	1994	2936	3859
75	1846	3362	4794
85	1575	3339	3213

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC22-LED-32L-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	960	960	960	960	960
2.5	982	973	960	948	943
5.0	981	972	960	949	945
7.5	976	969	959	950	946
10.0	968	962	956	951	948
12.5	958	953	952	949	948
15.0	945	943	946	949	949
17.5	928	929	937	945	948
20.0	911	914	928	941	945
22.5	888	895	915	934	941
25.0	865	874	902	926	936
27.5	838	851	884	916	927
30.0	809	825	864	903	917
32.5	776	795	843	888	905
35.0	742	764	819	870	890
37.5	706	732	792	851	874
40.0	668	698	764	829	855
42.5	632	664	735	807	835
45.0	596	630	706	783	812
47.5	558	595	675	757	789
50.0	522	560	644	731	765
52.5	485	524	612	704	739
55.0	449	489	581	677	713
57.5	414	452	549	649	687
60.0	375	417	516	619	657
62.5	341	382	483	588	626
65.0	307	348	452	557	594
67.5	273	314	419	521	559
70.0	239	282	386	487	523
72.5	206	250	351	451	489
75.0	174	218	317	415	452
77.5	140	184	281	374	383
80.0	108	153	243	288	292
82.5	78	120	178	185	177
85.0	50	82	106	103	102
87.5	24	37	41	27	18
90.0	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC22-LED-32L-40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	358.88	N.A.	11.10
0-30	773.95	N.A.	24.00
0-40	1285.26	N.A.	39.80
0-60	2350.51	N.A.	72.80
0-80	3125.54	N.A.	96.70
0-90	3230.63	N.A.	100.00
10-90	3139.04	N.A.	97.20
20-40	926.38	N.A.	28.70
20-50	1471.03	N.A.	45.50
40-70	1512.08	N.A.	46.80
60-80	775.04	N.A.	24.00
70-80	328.21	N.A.	10.20
80-90	105.09	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	3230.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	91.60
10-20	267.28
20-30	415.07
30-40	511.31
40-50	544.66
50-60	520.60
60-70	446.83
70-80	328.21
80-90	105.09
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

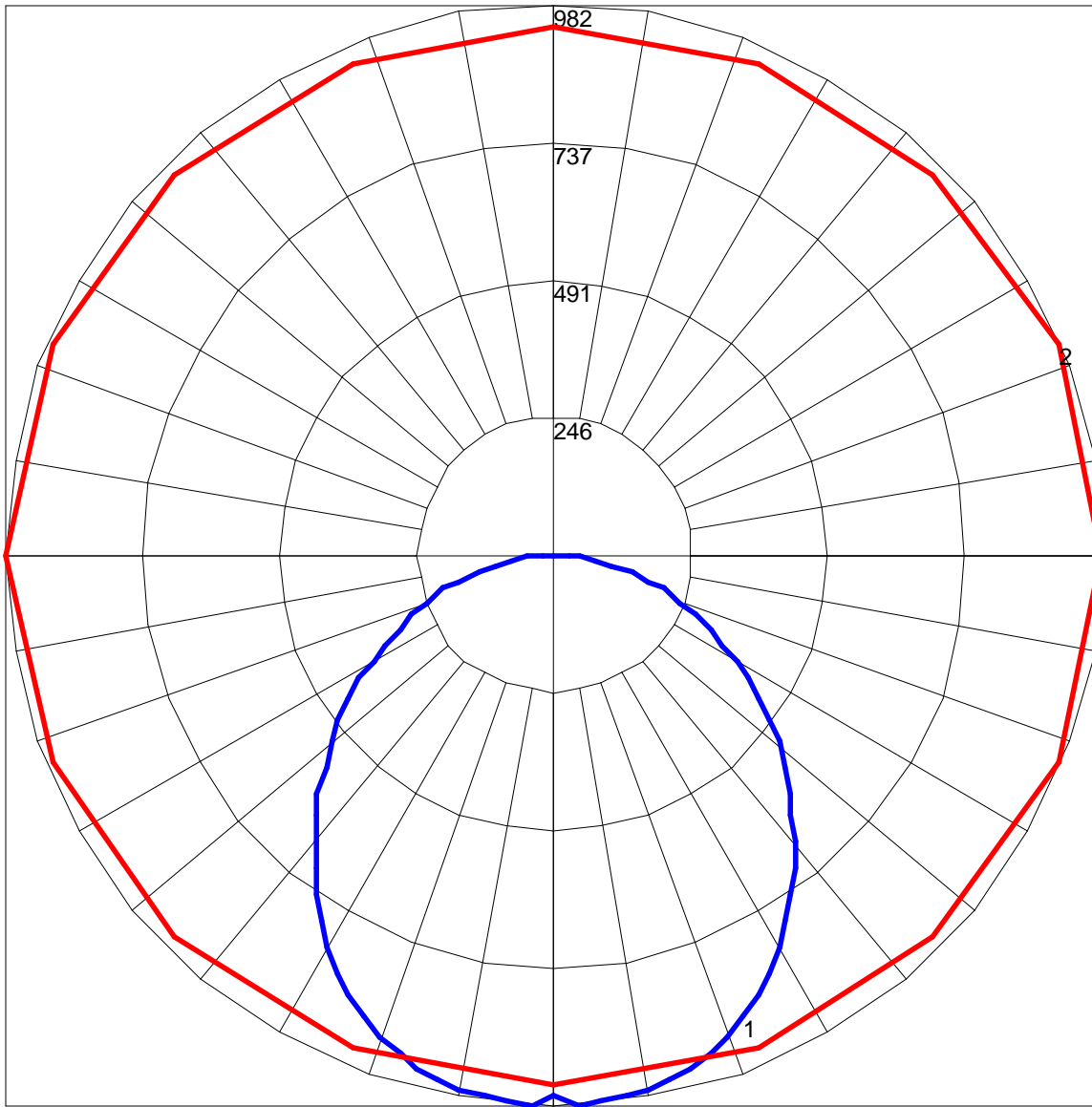
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**PHOTOMETRIC FILENAME : LPASC22-LED-32L-40.IES**

**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	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	54
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	43	54	47	42	53	46	42	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 982 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.)