



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPASC14-LED-30L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-8842

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]04/28/17

[TEST DATE]04/28/17

[MANUFACTURER]LSI INDUSTRIES, INC

[LUMEN CATEGORY]LPASC14-LED-30L-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	3000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	24
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	2327	2612	2829
55	2165	2601	2944
65	1997	2627	2990
75	1839	2607	2545
85	1727	2406	2591

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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	946	946	946	946	946
2.5	969	954	947	941	934
5.0	969	955	948	940	934
7.5	965	950	944	938	931
10.0	960	946	941	936	931
12.5	950	939	936	932	928
15.0	941	931	930	929	925
17.5	926	918	919	921	918
20.0	912	905	910	915	913
22.5	893	887	896	905	904
25.0	872	869	881	895	894
27.5	846	847	864	881	883
30.0	818	822	844	866	869
32.5	789	795	822	849	854
35.0	756	764	798	829	835
37.5	721	734	773	809	818
40.0	685	702	746	785	796
42.5	648	668	716	760	770
45.0	612	633	687	734	744
47.5	575	598	655	705	718
50.0	536	561	622	674	688
52.5	499	525	588	643	658
55.0	462	490	555	612	628
57.5	422	452	520	578	595
60.0	386	415	485	543	559
62.5	349	379	449	506	516
65.0	314	344	413	463	470
67.5	280	311	378	417	419
70.0	244	273	338	364	360
72.5	210	242	299	309	302
75.0	177	208	251	253	245
77.5	142	176	205	198	193
80.0	112	142	157	151	150
82.5	83	109	115	115	117
85.0	56	75	78	83	84
87.5	29	39	41	40	39
90.0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC14-LED-30L-40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	352.98	N.A.	11.80
0-30	759.41	N.A.	25.30
0-40	1258.15	N.A.	41.90
0-60	2276.47	N.A.	75.90
0-80	2918.66	N.A.	97.30
0-90	2999.59	N.A.	100.00
10-90	2909.31	N.A.	97.00
20-40	905.16	N.A.	30.20
20-50	1431.95	N.A.	47.70
40-70	1416.25	N.A.	47.20
60-80	642.18	N.A.	21.40
70-80	244.26	N.A.	8.10
80-90	80.93	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	2999.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.28
10-20	262.71
20-30	406.43
30-40	498.74
40-50	526.79
50-60	491.54
60-70	397.93
70-80	244.26
80-90	80.93
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

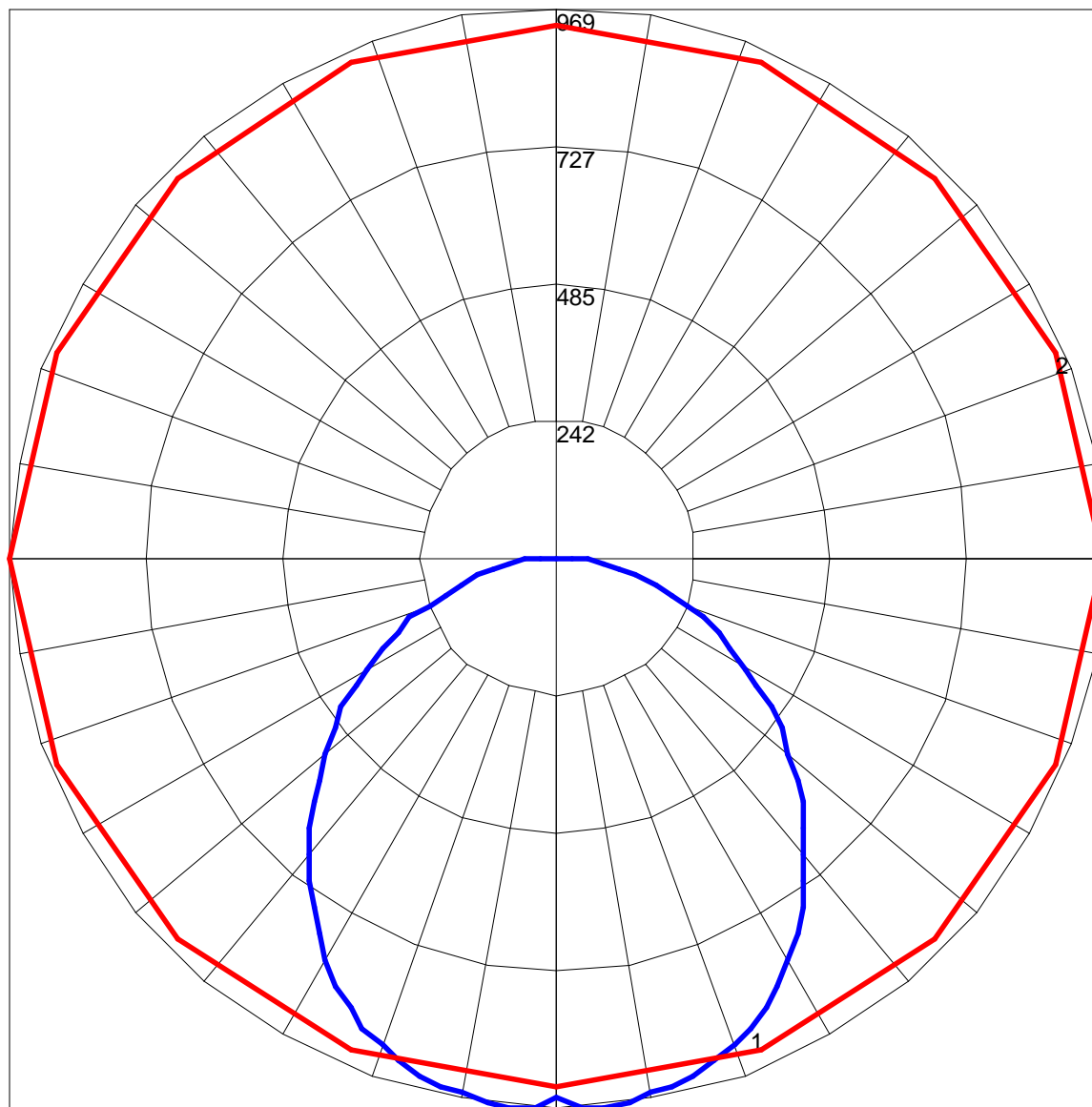
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	105	101	96	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	33	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 = 969 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-30L-35.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
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]LPASC14-LED-30L-35
[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	2918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	24
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	2265	2534	2754
55	2101	2521	2860
65	1950	2566	2944
75	1787	2553	2478
85	1650	2319	2587

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC14-LED-30L-35.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	921.089	921.089	921.089	921.089	921.089
2.5	944.225	929.765	922.535	913.859	909.521
5.0	941.333	928.319	922.535	913.859	906.629
7.5	936.995	925.427	919.643	912.413	908.075
10.0	936.995	922.535	918.197	912.413	906.629
12.5	926.873	913.859	912.413	908.075	903.737
15.0	916.751	905.183	906.629	906.629	900.846
17.5	905.183	895.062	896.508	899.400	896.508
20.0	886.386	879.156	883.494	889.278	887.832
22.5	867.588	863.250	870.480	880.602	879.156
25.0	848.790	844.452	857.466	869.034	869.034
27.5	822.763	822.763	840.114	856.020	858.912
30.0	795.289	801.073	821.317	841.560	845.898
32.5	764.923	772.153	799.627	824.209	828.547
35.0	736.004	746.126	777.937	808.303	814.087
37.5	701.300	714.314	751.910	786.613	793.843
40.0	669.489	683.949	727.328	764.923	773.599
42.5	630.447	647.799	696.962	737.450	749.018
45.0	595.744	613.095	666.597	712.868	724.436
47.5	558.148	581.284	637.677	688.286	701.300
50.0	520.553	545.134	604.420	657.921	669.489
52.5	484.403	510.431	574.054	626.109	642.015
55.0	448.254	474.281	537.905	594.298	610.204
57.5	412.104	441.024	507.539	562.486	578.392
60.0	377.401	406.320	471.389	526.337	543.688
62.5	339.805	368.725	436.686	490.187	503.201
65.0	306.548	334.021	403.428	454.038	462.714
67.5	268.952	296.426	365.833	404.874	409.212
70.0	234.249	266.060	328.237	354.265	349.927
72.5	203.883	235.695	289.196	302.210	294.980
75.0	172.072	203.883	245.817	244.371	238.587
77.5	141.706	174.964	200.991	195.207	186.531
80.0	109.894	138.814	153.274	147.490	144.598
82.5	79.529	105.557	112.786	111.340	111.340
85.0	53.501	70.853	75.191	79.529	83.867
87.5	27.474	36.149	36.149	39.041	40.487
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	343.89	N.A.	11.80
0-30	739.04	N.A.	25.30
0-40	1224.38	N.A.	42.00
0-60	2214.97	N.A.	75.90
0-80	2840.22	N.A.	97.30
0-90	2918.33	N.A.	100.00
10-90	2830.44	N.A.	97.00
20-40	880.50	N.A.	30.20
20-50	1392.85	N.A.	47.70
40-70	1377.47	N.A.	47.20
60-80	625.25	N.A.	21.40
70-80	238.36	N.A.	8.20
80-90	78.11	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	2918.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.89
10-20	256.00
20-30	395.15
30-40	485.35
40-50	512.35
50-60	478.23
60-70	386.89
70-80	238.36
80-90	78.11
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

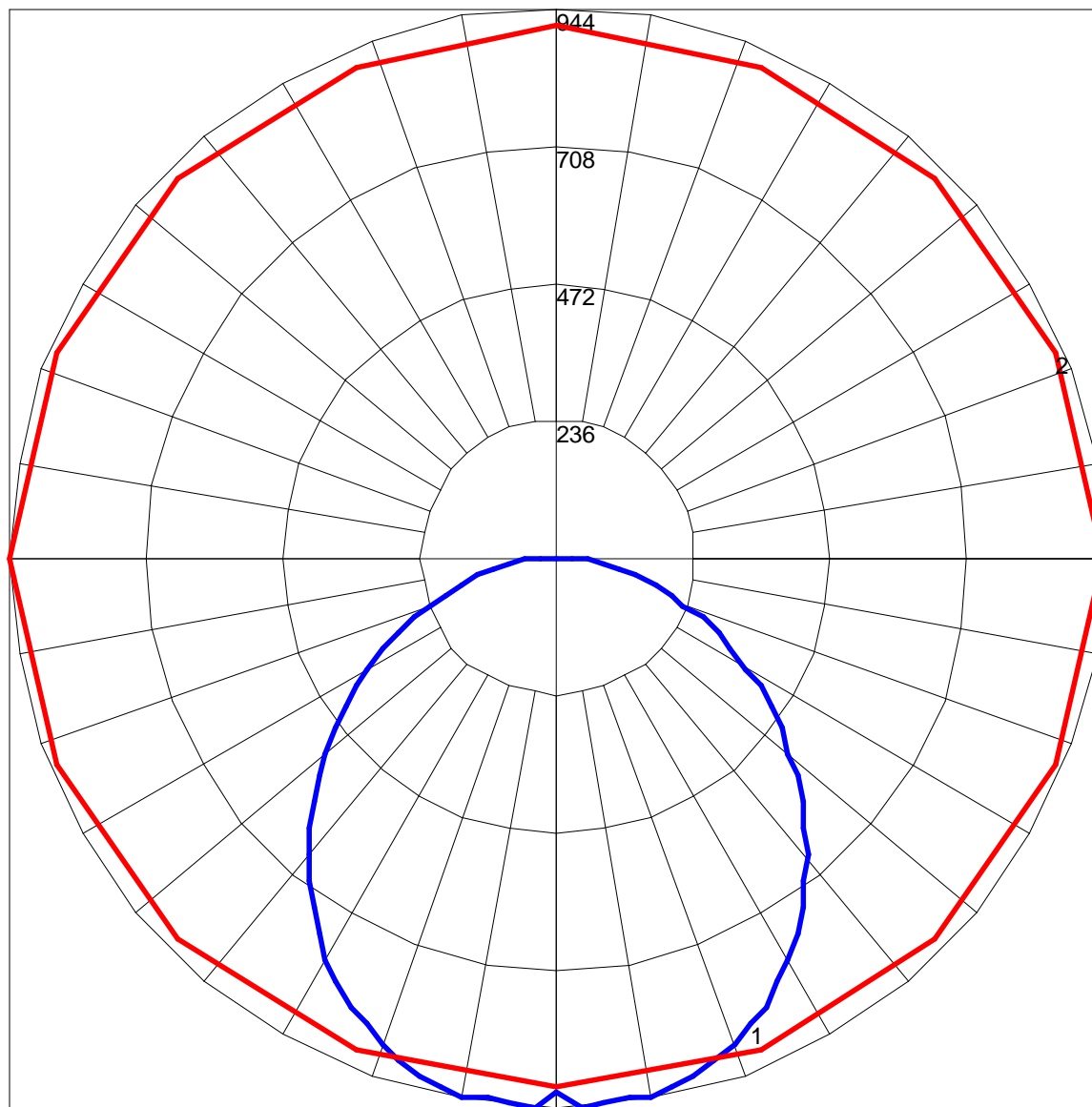
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC14-LED-30L-35.IES

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 = 944.225 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.)