



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC24-LED-40L-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8781_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]07/13/17
[TEST DATE]04/18/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPASC24-LED-40L-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	4068
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	31.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	1512	1725	1900
55	1389	1731	2003
65	1289	1787	2178
75	1164	2048	2679
85	1062	2604	2499

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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	1222.815	1222.815	1222.815	1222.815	1222.815
2.5	1252.216	1233.506	1224.152	1212.124	1202.769
5.0	1252.216	1233.506	1224.152	1213.460	1204.105
7.5	1246.871	1229.497	1221.479	1213.460	1204.105
10.0	1240.189	1224.152	1217.470	1212.124	1204.105
12.5	1229.497	1214.797	1212.124	1208.115	1201.433
15.0	1216.133	1201.433	1201.433	1202.769	1197.423
17.5	1197.423	1185.396	1190.741	1196.087	1192.078
20.0	1174.704	1166.686	1177.377	1186.732	1185.396
22.5	1149.313	1145.303	1161.340	1176.041	1177.377
25.0	1121.248	1121.248	1142.631	1164.013	1165.350
27.5	1087.838	1091.847	1119.912	1146.640	1153.322
30.0	1053.091	1061.110	1095.856	1130.603	1137.285
32.5	1012.999	1025.027	1069.128	1109.220	1118.575
35.0	970.234	987.607	1039.727	1086.501	1097.193
37.5	927.469	947.515	1004.980	1061.110	1074.474
40.0	882.031	906.086	972.907	1033.045	1049.082
42.5	835.256	861.984	935.487	1003.644	1019.681
45.0	787.146	815.210	898.068	970.234	988.943
47.5	735.026	769.772	857.975	936.823	956.870
50.0	684.242	722.998	815.210	900.740	923.459
52.5	634.795	674.887	773.781	860.648	884.703
55.0	586.684	628.113	731.016	820.556	845.948
57.5	538.573	582.675	688.251	780.463	804.519
60.0	493.135	535.900	644.150	739.035	763.090
62.5	446.361	490.462	600.048	694.933	720.325
65.0	400.923	445.025	555.947	652.168	677.560
67.5	351.476	396.914	514.518	610.739	634.795
70.0	307.374	355.485	470.416	567.974	592.030
72.5	264.609	314.056	428.988	525.209	550.601
75.0	221.844	273.964	390.232	485.117	510.509
77.5	181.752	236.545	350.139	446.361	466.407
80.0	142.996	200.462	312.720	376.868	379.540
82.5	105.576	163.042	255.254	276.637	264.609
85.0	68.157	124.286	167.051	164.378	160.369
87.5	33.410	68.157	74.839	80.185	80.185
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC24-LED-40L-35.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	456.67	N.A.	11.20
0-30	983.31	N.A.	24.20
0-40	1632.00	N.A.	40.10
0-60	2969.07	N.A.	73.00
0-80	3911.26	N.A.	96.10
0-90	4068.1	N.A.	100.00
10-90	3951.41	N.A.	97.10
20-40	1175.33	N.A.	28.90
20-50	1864.4	N.A.	45.80
40-70	1880.15	N.A.	46.20
60-80	942.19	N.A.	23.20
70-80	399.11	N.A.	9.80
80-90	156.84	N.A.	3.90
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	4068.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.70
10-20	339.97
20-30	526.63
30-40	648.69
40-50	689.07
50-60	648.00
60-70	543.08
70-80	399.11
80-90	156.84
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

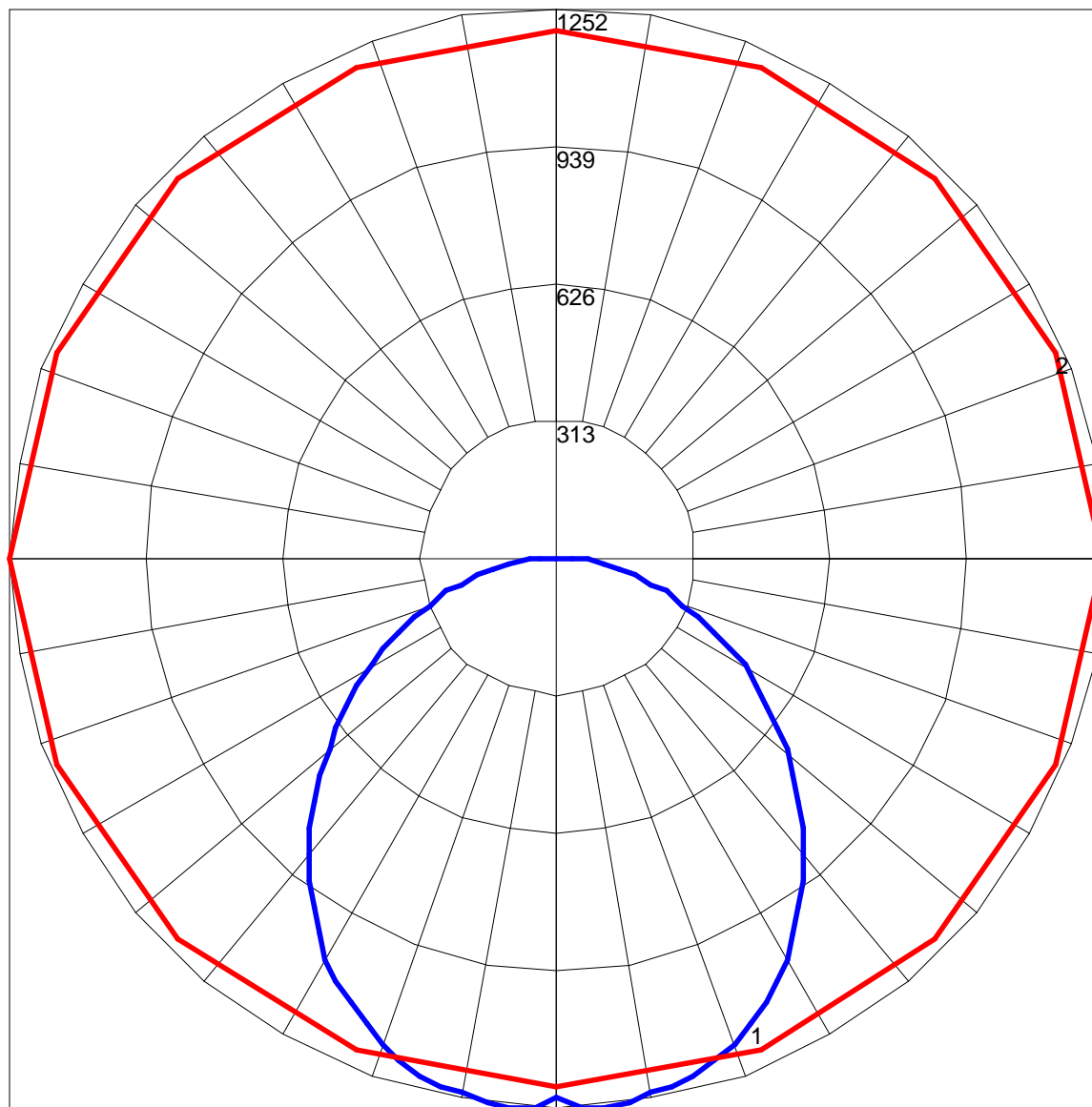
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PHOTOMETRIC FILENAME : LPASC24-LED-40L-35.IES

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	107	102	97	93	104	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	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	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	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 1252.216 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 : LPASC24-LED-35L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8781_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]07/13/17
[TEST DATE]04/18/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPASC24-LED-35L-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	3751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	28.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	1394	1591	1752
55	1281	1596	1847
65	1188	1648	2008
75	1074	1888	2471
85	979	2401	2305

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC24-LED-35L-50.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	1127.527	1127.527	1127.527	1127.527	1127.527
2.5	1154.637	1137.385	1128.759	1117.669	1109.043
5.0	1154.637	1137.385	1128.759	1118.901	1110.275
7.5	1149.708	1133.688	1126.295	1118.901	1110.275
10.0	1143.547	1128.759	1122.598	1117.669	1110.275
12.5	1133.688	1120.133	1117.669	1113.972	1107.811
15.0	1121.366	1107.811	1107.811	1109.043	1104.114
17.5	1104.114	1093.023	1097.953	1102.882	1099.185
20.0	1083.165	1075.772	1085.630	1094.256	1093.023
22.5	1059.752	1056.055	1070.843	1084.398	1085.630
25.0	1033.875	1033.875	1053.591	1073.307	1074.539
27.5	1003.068	1006.765	1032.642	1057.288	1063.449
30.0	971.029	978.422	1010.461	1042.500	1048.662
32.5	934.061	945.151	985.816	1022.784	1031.410
35.0	894.628	910.648	958.706	1001.836	1011.694
37.5	855.195	873.679	926.667	978.422	990.745
40.0	813.298	835.479	897.093	952.545	967.332
42.5	770.169	794.814	862.589	925.435	940.222
45.0	725.807	751.685	828.085	894.628	911.880
47.5	677.749	709.788	791.117	863.821	882.305
50.0	630.922	666.658	751.685	830.550	851.499
52.5	585.328	622.296	713.484	793.582	815.763
55.0	540.967	579.167	674.052	756.614	780.027
57.5	496.605	537.270	634.619	719.646	741.827
60.0	454.708	494.140	593.954	681.445	703.626
62.5	411.578	452.243	553.289	640.780	664.194
65.0	369.681	410.346	512.624	601.348	624.761
67.5	324.087	365.984	474.424	563.147	585.328
70.0	283.422	327.784	433.759	523.715	545.896
72.5	243.989	289.583	395.559	484.282	507.695
75.0	204.557	252.615	359.823	447.314	470.727
77.5	167.589	218.112	322.855	411.578	430.062
80.0	131.853	184.841	288.351	347.500	349.965
82.5	97.349	150.337	235.364	255.080	243.989
85.0	62.846	114.601	154.034	151.569	147.872
87.5	30.807	62.846	69.007	73.936	73.936
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC24-LED-35L-50.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	421.09	N.A.	11.20
0-30	906.68	N.A.	24.20
0-40	1504.83	N.A.	40.10
0-60	2737.71	N.A.	73.00
0-80	3606.47	N.A.	96.10
0-90	3751.1	N.A.	100.00
10-90	3643.49	N.A.	97.10
20-40	1083.74	N.A.	28.90
20-50	1719.12	N.A.	45.80
40-70	1733.64	N.A.	46.20
60-80	868.77	N.A.	23.20
70-80	368.01	N.A.	9.80
80-90	144.62	N.A.	3.90
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	3751.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.60
10-20	313.48
20-30	485.60
30-40	598.14
40-50	635.38
50-60	597.51
60-70	500.76
70-80	368.01
80-90	144.62
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

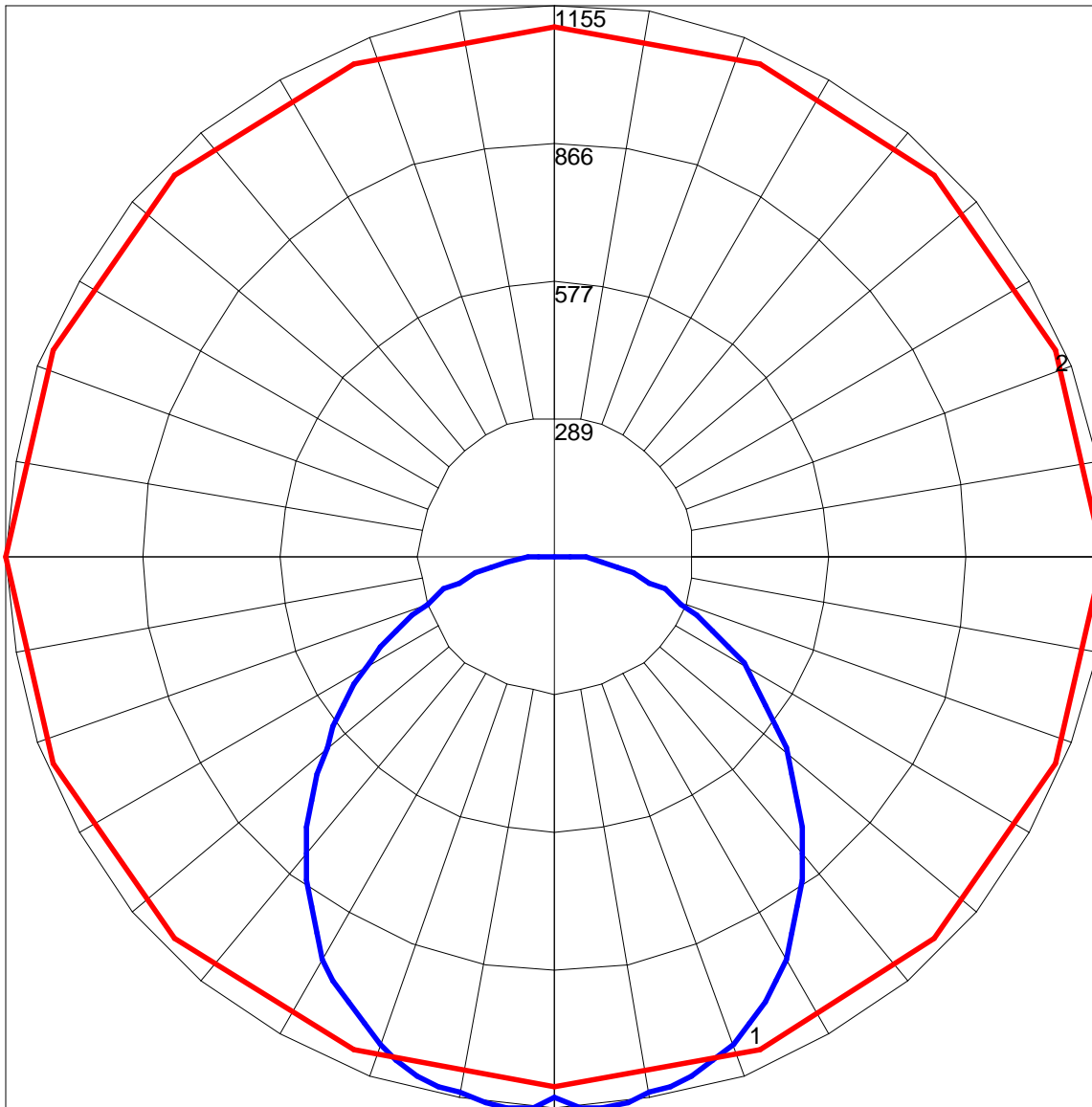
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC24-LED-35L-50.IES

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	104	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	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	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	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 1154.637 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.)