



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC14-LED-25L-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-8960_Scaled
[TESTLAB] LSI INDUSTRIES, INC
[ISSUEDATE] 08/18/17
[TESTDATE] 05/25/17
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] LPEC14-LED-25L-30
[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	2448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	20.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.50
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	1819	2146	2405
55	1710	2186	2578
65	1590	2214	2754
75	1441	2211	2671
85	1254	1992	1844

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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	716.338	716.338	716.338	716.338	716.338
2.5	730.689	722.318	717.534	711.555	707.967
5.0	730.689	722.318	717.534	712.750	710.359
7.5	728.297	721.122	717.534	713.946	710.359
10.0	724.709	717.534	716.338	713.946	710.359
12.5	717.534	711.555	711.555	712.750	710.359
15.0	710.359	705.575	709.163	711.555	712.750
17.5	700.792	698.400	704.379	711.555	711.555
20.0	688.833	688.833	698.400	710.359	711.555
22.5	675.678	676.874	691.224	706.771	707.967
25.0	662.523	664.915	685.245	703.183	706.771
27.5	643.389	651.760	674.482	697.204	704.379
30.0	623.059	635.018	663.719	691.224	698.400
32.5	602.729	615.883	651.760	682.853	693.616
35.0	581.203	596.749	636.213	673.286	682.853
37.5	556.089	574.027	620.667	661.327	673.286
40.0	528.583	551.305	602.729	648.172	661.327
42.5	504.666	526.192	584.790	633.822	649.368
45.0	478.356	502.274	564.460	617.079	632.626
47.5	449.655	477.160	541.738	600.337	615.883
50.0	422.149	450.851	517.820	578.811	597.945
52.5	393.448	423.345	492.707	554.893	574.027
55.0	364.746	394.644	466.397	529.779	550.109
57.5	337.241	365.942	438.892	504.666	524.996
60.0	309.735	336.045	410.190	475.964	496.294
62.5	279.838	306.148	380.293	446.067	466.397
65.0	249.941	275.055	348.004	413.778	432.912
67.5	221.240	245.157	314.519	377.901	394.644
70.0	192.538	214.064	281.034	339.633	351.592
72.5	166.229	185.363	248.745	298.972	307.344
75.0	138.723	156.662	212.868	254.725	257.116
77.5	112.414	129.156	176.992	204.497	204.497
80.0	86.104	101.651	139.919	156.662	154.270
82.5	64.578	74.145	102.847	108.826	104.042
85.0	40.660	49.031	64.578	62.186	59.794
87.5	20.330	25.114	27.505	22.722	21.526
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	269.17	N.A.	11.00
0-30	584.77	N.A.	23.90
0-40	981.78	N.A.	40.10
0-60	1826.8	N.A.	74.60
0-80	2382.79	N.A.	97.40
0-90	2447.51	N.A.	100.00
10-90	2379.01	N.A.	97.20
20-40	712.61	N.A.	29.10
20-50	1144.46	N.A.	46.80
40-70	1185.13	N.A.	48.40
60-80	555.99	N.A.	22.70
70-80	215.89	N.A.	8.80
80-90	64.72	N.A.	2.60
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	2447.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.50
10-20	200.67
20-30	315.60
30-40	397.01
40-50	431.85
50-60	413.17
60-70	340.11
70-80	215.89
80-90	64.72
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

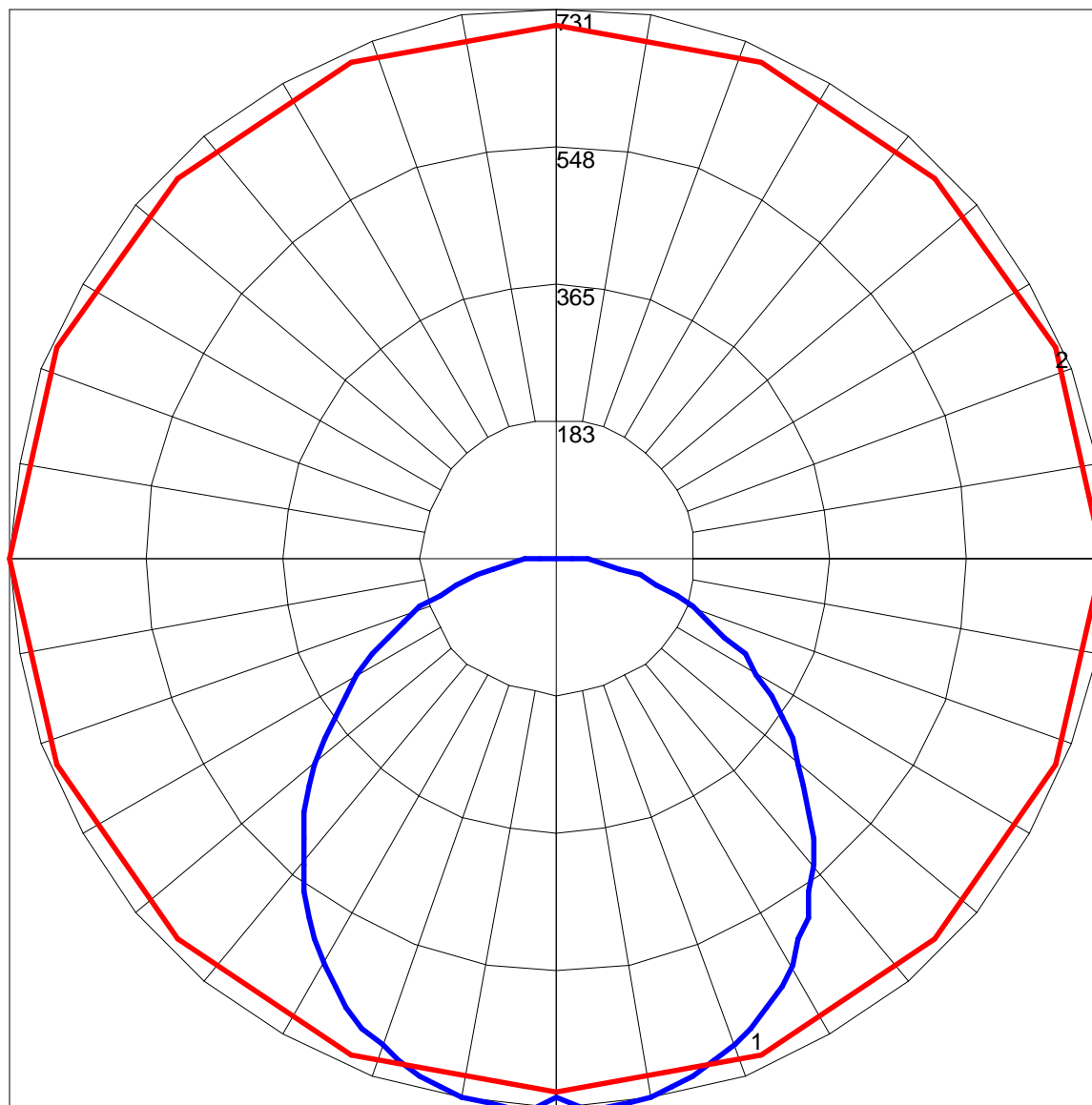
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	50	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	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 = 730.689 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.)



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[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	1984
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	16.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.50
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	1474	1739	1949
55	1386	1772	2090
65	1289	1794	2232
75	1168	1792	2165
85	1016	1614	1495

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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	580.563	580.563	580.563	580.563	580.563
2.5	592.193	585.409	581.532	576.686	573.778
5.0	592.193	585.409	581.532	577.655	575.717
7.5	590.255	584.440	581.532	578.624	575.717
10.0	587.347	581.532	580.563	578.624	575.717
12.5	581.532	576.686	576.686	577.655	575.717
15.0	575.717	571.840	574.747	576.686	577.655
17.5	567.963	566.024	570.871	576.686	576.686
20.0	558.271	558.271	566.024	575.717	576.686
22.5	547.609	548.579	560.209	572.809	573.778
25.0	536.948	538.886	555.363	569.901	572.809
27.5	521.440	528.225	546.640	565.055	570.871
30.0	504.964	514.656	537.917	560.209	566.024
32.5	488.487	499.148	528.225	553.425	562.148
35.0	471.041	483.641	515.625	545.671	553.425
37.5	450.687	465.226	503.025	535.979	545.671
40.0	428.395	446.810	488.487	525.317	535.979
42.5	409.011	426.457	473.949	513.687	526.286
45.0	387.688	407.072	457.472	500.118	512.717
47.5	364.427	386.719	439.057	486.548	499.148
50.0	342.135	365.396	419.672	469.102	484.610
52.5	318.873	343.104	399.319	449.718	465.226
55.0	295.612	319.843	377.996	429.364	445.841
57.5	273.320	296.581	355.704	409.011	425.488
60.0	251.028	272.351	332.442	385.750	402.226
62.5	226.797	248.120	308.212	361.519	377.996
65.0	202.567	222.921	282.043	335.350	350.858
67.5	179.306	198.690	254.905	306.274	319.843
70.0	156.044	173.490	227.767	275.258	284.951
72.5	134.722	150.229	201.598	242.305	249.090
75.0	112.430	126.968	172.521	206.444	208.382
77.5	91.107	104.676	143.445	165.737	165.737
80.0	69.784	82.384	113.399	126.968	125.029
82.5	52.338	60.092	83.353	88.199	84.322
85.0	32.953	39.738	52.338	50.399	48.461
87.5	16.477	20.354	22.292	18.415	17.446
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	218.15	N.A.	11.00
0-30	473.93	N.A.	23.90
0-40	795.70	N.A.	40.10
0-60	1480.55	N.A.	74.60
0-80	1931.16	N.A.	97.40
0-90	1983.61	N.A.	100.00
10-90	1928.09	N.A.	97.20
20-40	577.54	N.A.	29.10
20-50	927.54	N.A.	46.80
40-70	960.50	N.A.	48.40
60-80	450.61	N.A.	22.70
70-80	174.97	N.A.	8.80
80-90	52.45	N.A.	2.60
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	1983.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.52
10-20	162.64
20-30	255.78
30-40	321.76
40-50	350.00
50-60	334.86
60-70	275.64
70-80	174.97
80-90	52.45
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

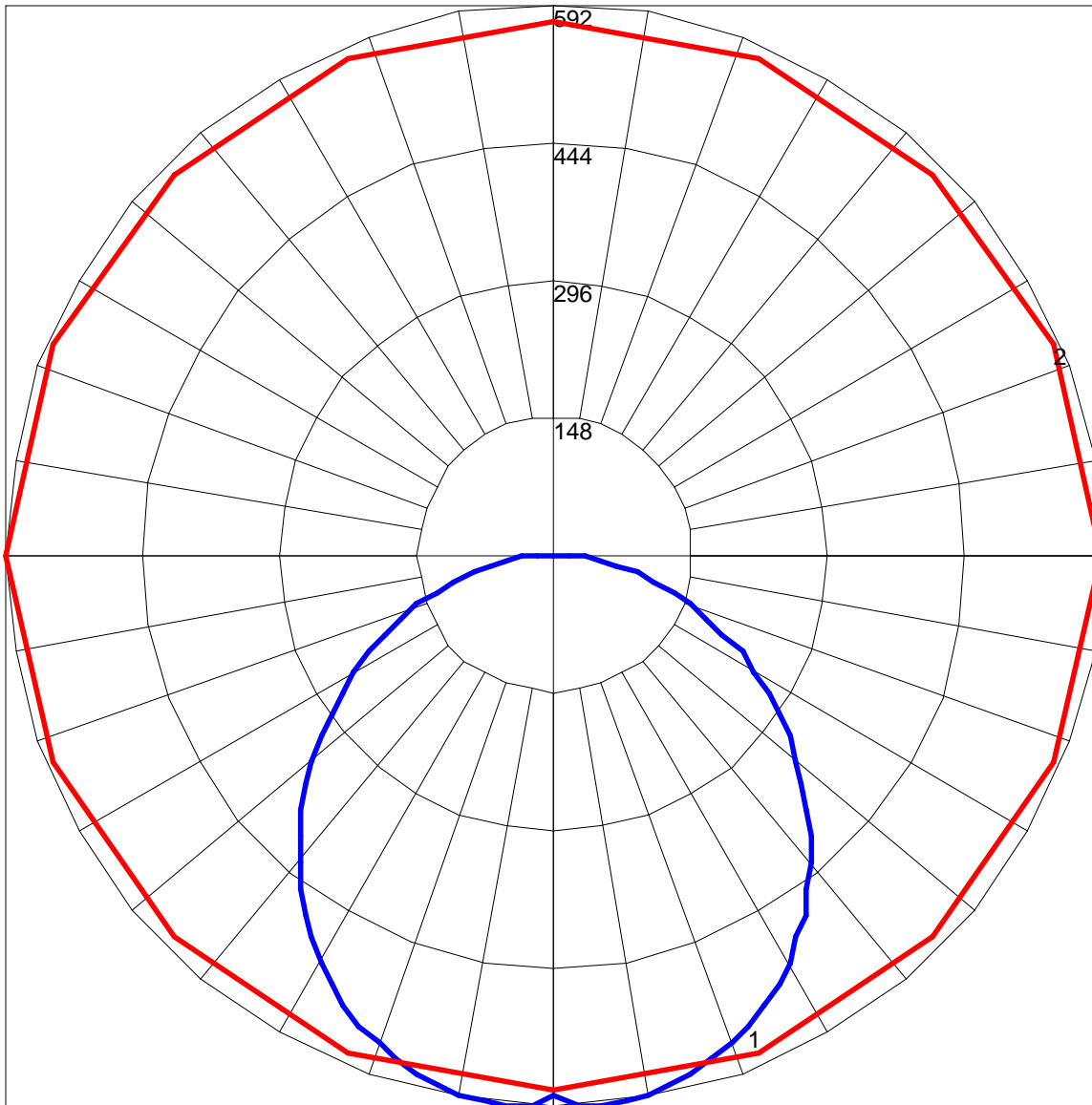
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	50	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	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 = 592.193 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.)