



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPEC24-LED-80L-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8913\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]07/10/17  
[TEST DATE]05/16/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LPEC24-LED-80L-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	8697
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	63.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.52
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	3091	3719	4237
55	2907	3851	4673
65	2683	4010	5291
75	2408	4350	6367
85	2101	5096	6571

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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>	2420.634	2420.634	2420.634	2420.634	2420.634
<b>2.5</b>	2469.391	2440.711	2423.502	2400.558	2386.218
<b>5.0</b>	2466.523	2440.711	2423.502	2409.162	2394.822
<b>7.5</b>	2460.787	2437.843	2423.502	2409.162	2394.822
<b>10.0</b>	2443.579	2423.502	2417.766	2409.162	2397.690
<b>12.5</b>	2426.370	2406.294	2409.162	2406.294	2403.426
<b>15.0</b>	2400.558	2389.086	2397.690	2412.030	2409.162
<b>17.5</b>	2363.273	2357.537	2383.350	2409.162	2412.030
<b>20.0</b>	2331.725	2331.725	2369.009	2406.294	2414.898
<b>22.5</b>	2282.968	2294.440	2348.933	2400.558	2412.030
<b>25.0</b>	2231.343	2248.551	2323.121	2389.086	2406.294
<b>27.5</b>	2165.378	2196.926	2291.572	2371.877	2394.822
<b>30.0</b>	2102.281	2142.433	2254.287	2354.669	2383.350
<b>32.5</b>	2033.448	2079.336	2214.135	2331.725	2363.273
<b>35.0</b>	1958.878	2013.371	2168.246	2305.912	2340.329
<b>37.5</b>	1875.705	1944.538	2122.357	2277.232	2320.253
<b>40.0</b>	1792.531	1869.969	2062.128	2234.211	2285.836
<b>42.5</b>	1709.358	1792.531	2007.635	2196.926	2251.419
<b>45.0</b>	1608.976	1706.490	1935.934	2145.301	2205.531
<b>47.5</b>	1514.330	1614.712	1864.233	2090.809	2156.774
<b>50.0</b>	1425.421	1528.671	1792.531	2033.448	2105.149
<b>52.5</b>	1327.907	1436.893	1712.226	1967.482	2050.656
<b>55.0</b>	1227.525	1336.511	1626.184	1892.913	1973.218
<b>57.5</b>	1132.880	1244.734	1540.143	1818.344	1904.385
<b>60.0</b>	1038.234	1147.220	1448.365	1735.170	1824.080
<b>62.5</b>	940.720	1043.970	1350.852	1646.261	1738.038
<b>65.0</b>	834.603	940.720	1247.602	1551.615	1646.261
<b>67.5</b>	739.957	837.471	1144.352	1451.233	1545.879
<b>70.0</b>	642.443	737.089	1041.102	1350.852	1448.365
<b>72.5</b>	550.666	639.575	934.984	1241.866	1333.643
<b>75.0</b>	458.888	544.930	828.866	1118.540	1213.185
<b>77.5</b>	367.110	447.416	714.144	983.741	1058.310
<b>80.0</b>	286.805	358.506	596.554	831.735	894.832
<b>82.5</b>	209.368	269.597	467.492	651.047	685.464
<b>85.0</b>	134.798	186.423	326.958	421.603	421.603
<b>87.5</b>	71.701	97.514	154.875	212.236	217.972
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	910.11	N.A.	10.50
0-30	1980.22	N.A.	22.80
0-40	3332.5	N.A.	38.30
0-60	6262.64	N.A.	72.00
0-80	8367.42	N.A.	96.20
0-90	8697.17	N.A.	100.00
10-90	8465.86	N.A.	97.30
20-40	2422.4	N.A.	27.90
20-50	3907.4	N.A.	44.90
40-70	4162.49	N.A.	47.90
60-80	2104.79	N.A.	24.20
70-80	872.43	N.A.	10.00
80-90	329.74	N.A.	3.80
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	8697.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	231.30
10-20	678.80
20-30	1070.12
30-40	1352.28
40-50	1485.00
50-60	1445.14
60-70	1232.36
70-80	872.43
80-90	329.74
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

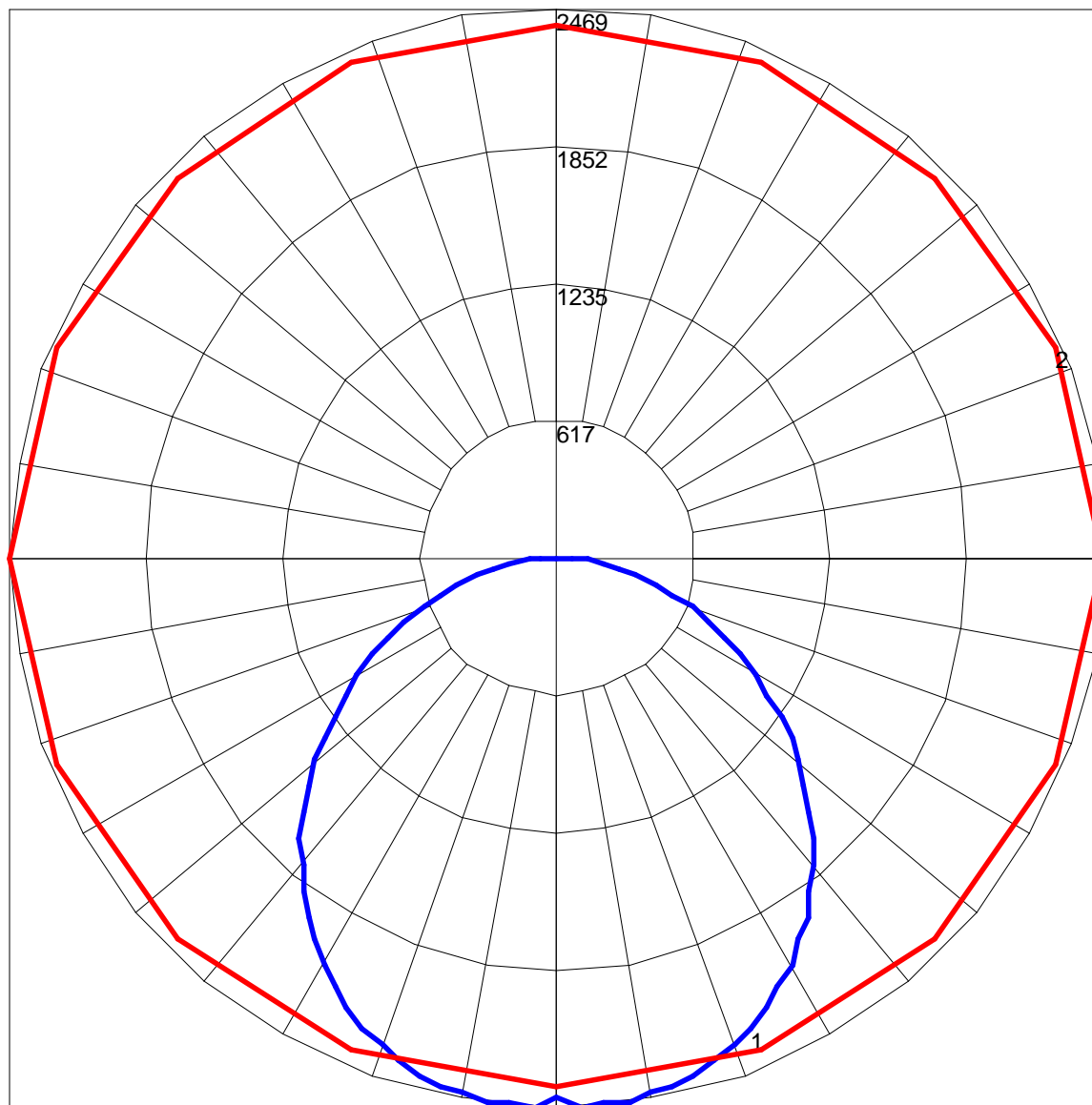
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80
2	96	87	80	73	94	85	78	72	82	76	71	78	73	69	75	71	67	65
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	60	56	54
4	80	67	57	50	77	65	56	50	63	55	49	60	54	48	58	52	47	45
5	73	59	50	42	71	58	49	42	56	48	42	54	47	41	52	46	41	38
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 2469.391 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.)