



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPEC22-LED-50L-30.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-8833\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE]DATE]08/18/17  
[TEST]DATE]04/26/17  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]LPEC22-LED-50L-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\_SOURCE]TYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4937
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	40.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3474	4178	4818
55	3187	4272	5300
65	2883	4340	5922
75	2455	4582	7138
85	1879	4961	8193

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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	1440.161	1440.161	1440.161	1440.161	1440.161
2.5	1466.966	1457.218	1440.161	1427.977	1420.666
5.0	1466.966	1454.782	1442.597	1427.977	1420.666
7.5	1459.655	1449.908	1437.724	1430.413	1423.103
10.0	1449.908	1442.597	1435.287	1430.413	1427.977
12.5	1435.287	1430.413	1427.977	1425.540	1427.977
15.0	1420.666	1420.666	1423.103	1427.977	1425.540
17.5	1398.735	1401.172	1410.919	1420.666	1423.103
20.0	1374.366	1381.677	1398.735	1418.229	1423.103
22.5	1345.125	1354.872	1381.677	1408.482	1415.792
25.0	1313.446	1325.630	1362.182	1398.735	1410.919
27.5	1274.457	1293.951	1342.688	1388.987	1403.608
30.0	1230.594	1254.962	1313.446	1371.930	1391.424
32.5	1184.295	1213.536	1286.641	1352.435	1379.240
35.0	1137.995	1172.110	1254.962	1335.377	1362.182
37.5	1084.385	1123.374	1218.410	1308.572	1342.688
40.0	1028.338	1074.638	1181.858	1281.767	1318.320
42.5	972.291	1023.464	1142.869	1252.525	1291.515
45.0	913.808	969.854	1099.006	1218.410	1267.146
47.5	860.197	913.808	1055.143	1186.731	1237.905
50.0	801.714	857.761	1006.407	1150.179	1203.789
52.5	740.793	801.714	960.107	1113.627	1164.800
55.0	679.873	745.667	911.371	1069.764	1130.684
57.5	623.826	687.183	855.324	1023.464	1089.259
60.0	562.905	626.263	801.714	972.291	1038.085
62.5	509.295	570.216	745.667	925.992	989.349
65.0	453.249	509.295	682.310	867.508	930.865
67.5	397.202	450.812	626.263	809.024	879.692
70.0	341.155	392.328	562.905	750.541	818.772
72.5	289.982	336.281	501.985	689.620	760.288
75.0	236.372	282.671	441.064	621.389	687.183
77.5	187.635	229.061	375.270	543.411	611.642
80.0	143.772	180.325	309.476	462.996	519.043
82.5	102.346	129.151	236.372	360.649	406.949
85.0	60.921	82.852	160.830	241.245	265.613
87.5	26.805	34.115	73.105	102.346	104.783
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	539.57	N.A.	10.90
0-30	1168.02	N.A.	23.70
0-40	1951.32	N.A.	39.50
0-60	3607.27	N.A.	73.10
0-80	4763.44	N.A.	96.50
0-90	4936.66	N.A.	100.00
10-90	4799.19	N.A.	97.20
20-40	1411.75	N.A.	28.60
20-50	2256.85	N.A.	45.70
40-70	2337.55	N.A.	47.40
60-80	1156.18	N.A.	23.40
70-80	474.58	N.A.	9.60
80-90	173.21	N.A.	3.50
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	4936.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.47
10-20	402.10
20-30	628.45
30-40	783.29
40-50	845.10
50-60	810.85
60-70	681.60
70-80	474.58
80-90	173.21
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

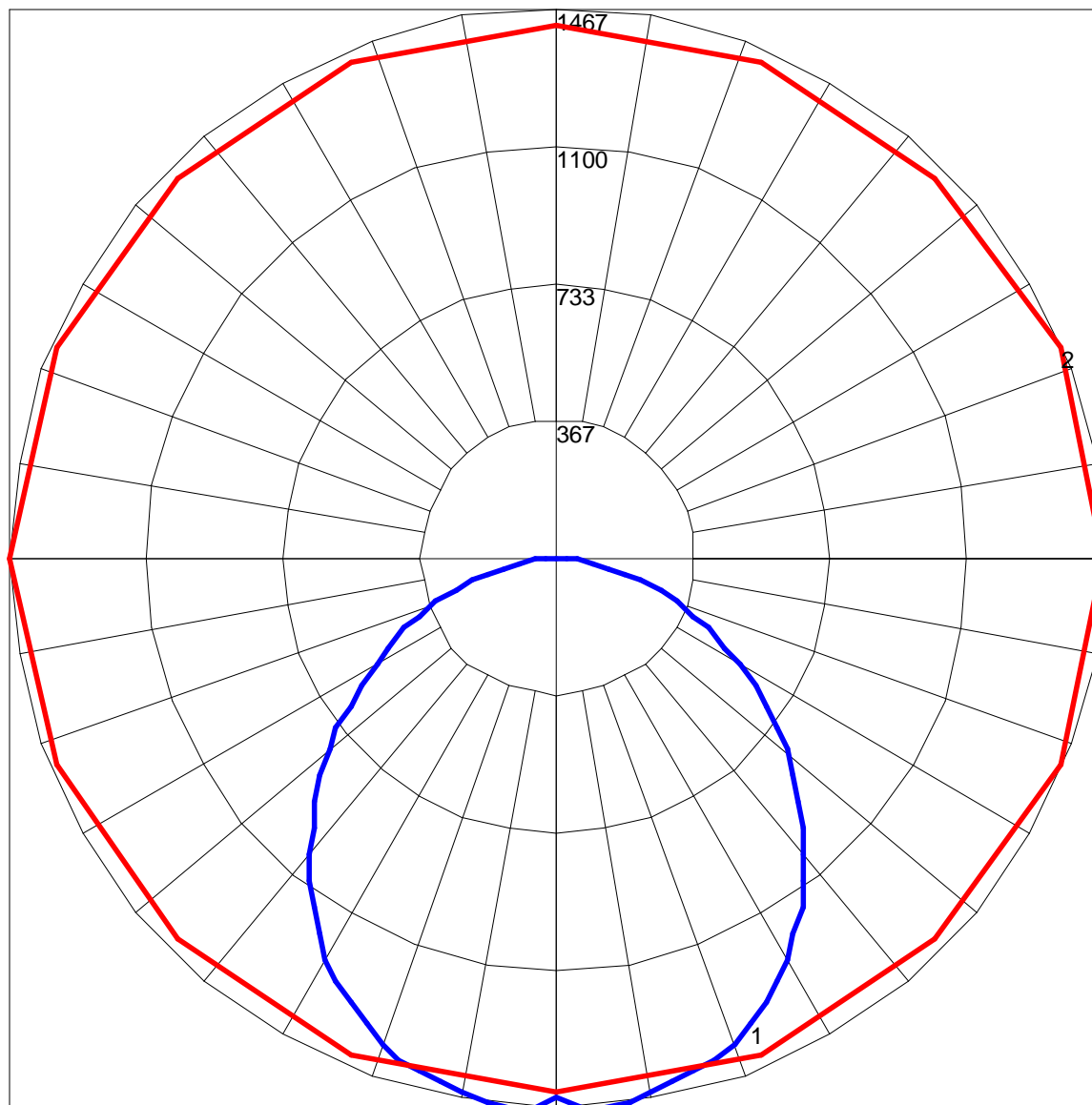
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	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	56	49	42	54	47	42	52	46	42	39
6	68	54	44	37	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32	45	37	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	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	24	36	28	23	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 1466.966 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.)