



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-80L-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9728  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/2018  
[TEST DATE]02/15/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S4-LED-80L-40  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8063
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	55.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29808	28804	28226
55	29960	28817	27767
65	29110	27354	26387
75	25761	23933	23476
85	17274	18755	18878

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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>	2460	2460	2460	2460	2460
<b>2.5</b>	2527	2478	2462	2442	2416
<b>5.0</b>	2530	2481	2463	2443	2417
<b>7.5</b>	2528	2480	2461	2440	2414
<b>10.0</b>	2523	2475	2455	2434	2409
<b>12.5</b>	2516	2467	2446	2424	2401
<b>15.0</b>	2503	2455	2433	2410	2388
<b>17.5</b>	2487	2439	2415	2392	2371
<b>20.0</b>	2466	2420	2394	2370	2349
<b>22.5</b>	2442	2397	2370	2345	2324
<b>25.0</b>	2411	2370	2340	2315	2294
<b>27.5</b>	2375	2337	2305	2278	2257
<b>30.0</b>	2334	2297	2263	2237	2217
<b>32.5</b>	2289	2252	2216	2191	2170
<b>35.0</b>	2237	2200	2162	2140	2118
<b>37.5</b>	2176	2141	2103	2083	2060
<b>40.0</b>	2112	2077	2039	2020	1997
<b>42.5</b>	2038	2007	1969	1952	1930
<b>45.0</b>	1960	1931	1894	1876	1856
<b>47.5</b>	1879	1851	1812	1795	1776
<b>50.0</b>	1791	1764	1727	1707	1684
<b>52.5</b>	1697	1671	1635	1607	1584
<b>55.0</b>	1598	1573	1537	1503	1481
<b>57.5</b>	1493	1466	1428	1396	1374
<b>60.0</b>	1378	1357	1317	1283	1263
<b>62.5</b>	1264	1237	1201	1168	1151
<b>65.0</b>	1144	1113	1075	1050	1037
<b>67.5</b>	1012	988	950	930	923
<b>70.0</b>	882	861	822	810	801
<b>72.5</b>	752	730	700	689	680
<b>75.0</b>	620	598	576	569	565
<b>77.5</b>	491	468	457	456	452
<b>80.0</b>	362	349	347	347	343
<b>82.5</b>	247	237	245	243	242
<b>85.0</b>	140	144	152	154	153
<b>87.5</b>	59	69	76	75	70
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	923.79	N.A.	11.50
0-30	2005.16	N.A.	24.90
0-40	3362.68	N.A.	41.70
0-60	6201.58	N.A.	76.90
0-80	7889.6	N.A.	97.90
0-90	8062.91	N.A.	100.00
10-90	7827.87	N.A.	97.10
20-40	2438.89	N.A.	30.20
20-50	3905.55	N.A.	48.40
40-70	3908.07	N.A.	48.50
60-80	1688.01	N.A.	20.90
70-80	618.84	N.A.	7.70
80-90	173.31	N.A.	2.10
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	8062.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	235.04
10-20	688.75
20-30	1081.36
30-40	1357.52
40-50	1466.66
50-60	1372.24
60-70	1069.17
70-80	618.84
80-90	173.31
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

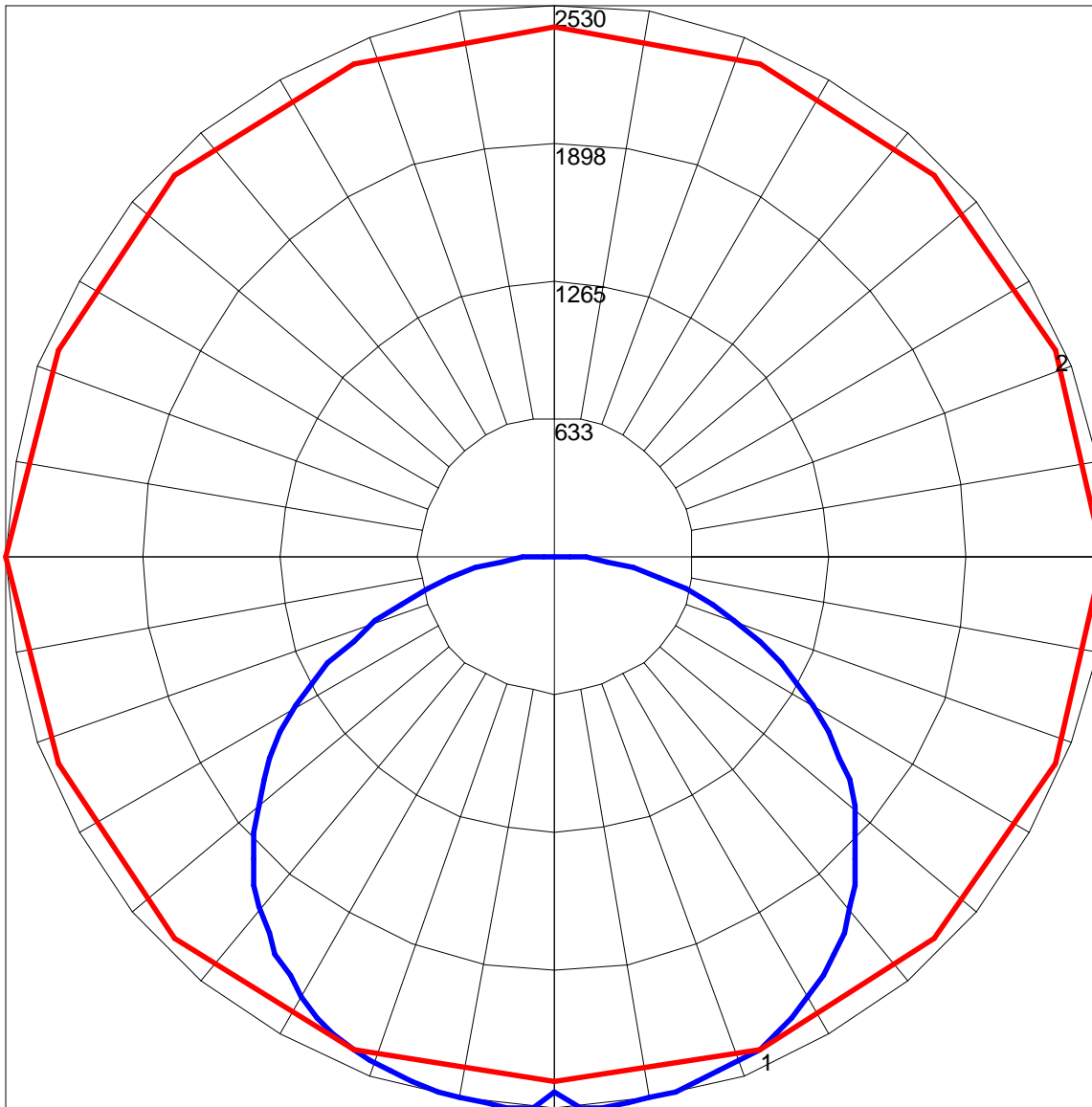
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	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	30	43	36	30	42	35	30	41	35	30	28
9	55	41	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	29	25	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 2530 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)