



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-60L-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9721  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/2018  
[TEST DATE]02/15/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S4-LED-60L-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	6091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	40.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
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	22508	21778	21307
55	22498	21730	21036
65	21705	20662	19848
75	19196	17991	17742
85	13202	14189	13696

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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	1864	1864	1864	1864	1864
2.5	1916	1879	1864	1850	1829
5.0	1917	1881	1865	1851	1830
7.5	1915	1880	1864	1849	1830
10.0	1912	1877	1860	1844	1826
12.5	1905	1870	1852	1836	1820
15.0	1895	1861	1842	1826	1811
17.5	1882	1849	1829	1812	1798
20.0	1866	1833	1813	1796	1782
22.5	1845	1816	1794	1777	1762
25.0	1822	1795	1771	1754	1739
27.5	1794	1770	1744	1727	1712
30.0	1763	1740	1713	1695	1680
32.5	1727	1705	1678	1660	1643
35.0	1686	1665	1638	1620	1604
37.5	1642	1622	1592	1575	1559
40.0	1593	1574	1544	1527	1511
42.5	1537	1520	1489	1475	1458
45.0	1480	1463	1432	1419	1401
47.5	1418	1398	1370	1358	1340
50.0	1348	1332	1305	1289	1275
52.5	1276	1261	1233	1216	1203
55.0	1200	1185	1159	1140	1122
57.5	1121	1106	1081	1054	1036
60.0	1036	1023	996	969	951
62.5	949	934	906	880	866
65.0	853	843	812	791	780
67.5	758	744	717	701	694
70.0	660	645	620	612	607
72.5	558	546	524	521	518
75.0	462	446	433	433	427
77.5	367	351	344	343	337
80.0	274	262	260	258	255
82.5	188	179	183	182	179
85.0	107	110	115	114	111
87.5	47	51	56	55	55
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	699.91	N.A.	11.50
0-30	1518.79	N.A.	24.90
0-40	2546.14	N.A.	41.80
0-60	4690.83	N.A.	77.00
0-80	5961.41	N.A.	97.90
0-90	6091.37	N.A.	100.00
10-90	5913.27	N.A.	97.10
20-40	1846.23	N.A.	30.30
20-50	2954.95	N.A.	48.50
40-70	2950.35	N.A.	48.40
60-80	1270.58	N.A.	20.90
70-80	464.92	N.A.	7.60
80-90	129.95	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	6091.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	178.10
10-20	521.81
20-30	818.88
30-40	1027.35
40-50	1108.72
50-60	1035.97
60-70	805.66
70-80	464.92
80-90	129.95
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

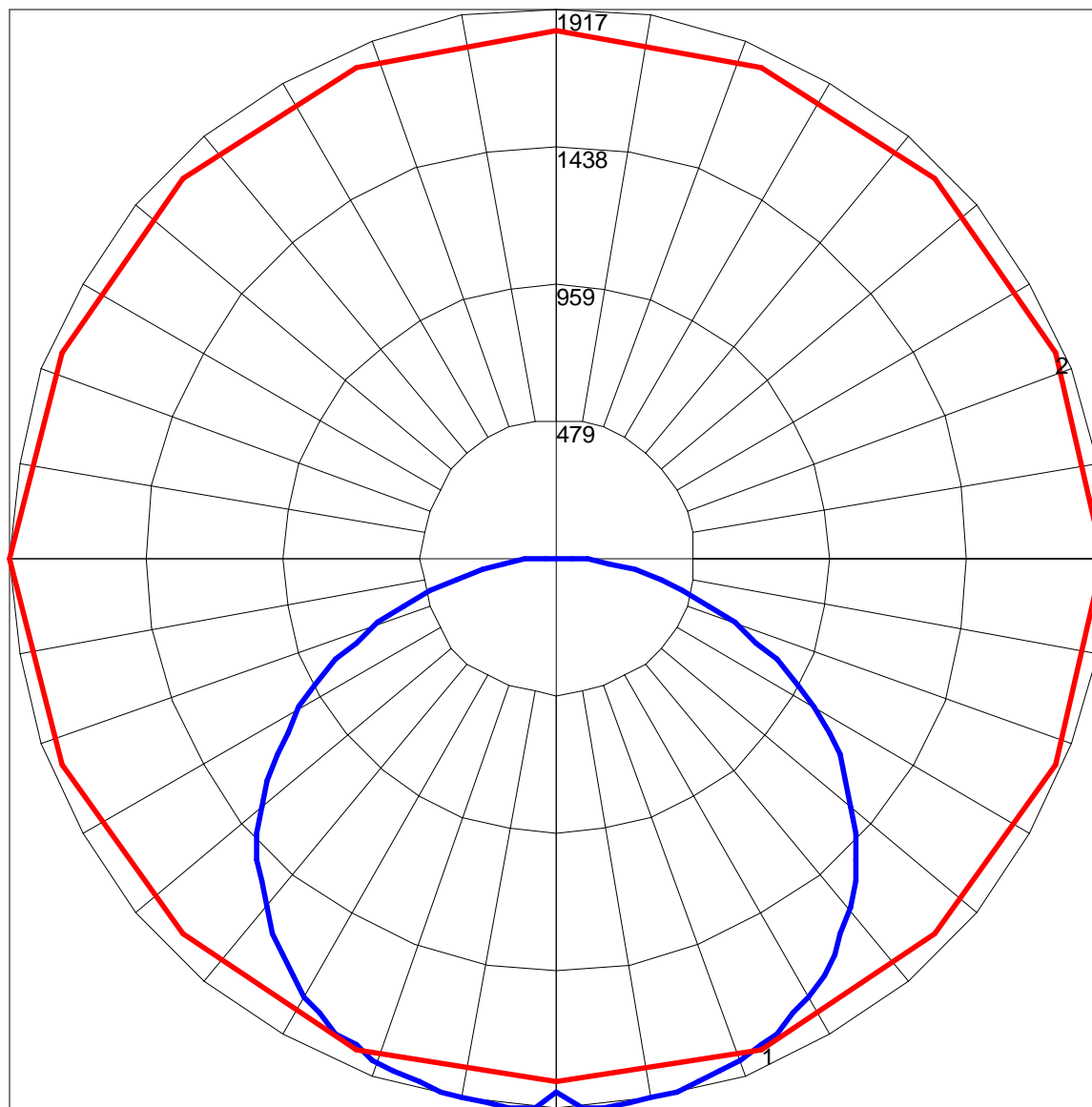
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	90	82	77	95	88	81	76	84	79	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	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	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	23

POLAR GRAPH



Maximum Candela = 1917 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.)