



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-70L-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9752\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]02/22/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S4-LED-70L-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	7036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	47.5
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	26089	25132	24548
55	26201	25088	24367
65	25426	23737	23203
75	22500	21049	20759
85	15950	16812	16812

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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>	2145.169	2145.169	2145.169	2145.169	2145.169
<b>2.5</b>	2211.550	2159.144	2141.675	2124.206	2106.737
<b>5.0</b>	2215.044	2162.638	2145.169	2127.700	2106.737
<b>7.5</b>	2208.056	2159.144	2138.181	2120.712	2099.750
<b>10.0</b>	2204.563	2155.650	2131.194	2117.219	2096.256
<b>12.5</b>	2201.069	2148.662	2127.700	2110.231	2089.269
<b>15.0</b>	2190.588	2141.675	2117.219	2099.750	2082.281
<b>17.5</b>	2173.119	2127.700	2103.244	2082.281	2064.812
<b>20.0</b>	2155.650	2106.737	2082.281	2061.318	2047.343
<b>22.5</b>	2131.194	2085.775	2061.318	2040.356	2026.381
<b>25.0</b>	2106.737	2064.812	2033.368	2015.900	1998.431
<b>27.5</b>	2078.787	2036.862	2005.418	1987.950	1970.481
<b>30.0</b>	2040.356	2001.925	1970.481	1949.518	1932.049
<b>32.5</b>	1998.431	1959.999	1925.062	1907.593	1890.124
<b>35.0</b>	1953.012	1911.087	1879.643	1862.174	1844.705
<b>37.5</b>	1900.605	1865.668	1830.730	1813.261	1792.299
<b>40.0</b>	1851.693	1809.768	1774.830	1757.361	1743.386
<b>42.5</b>	1785.311	1750.374	1715.436	1697.967	1683.992
<b>45.0</b>	1715.436	1683.992	1652.549	1631.586	1614.117
<b>47.5</b>	1642.067	1610.623	1582.673	1565.205	1547.736
<b>50.0</b>	1565.205	1533.761	1502.317	1488.342	1474.367
<b>52.5</b>	1481.354	1449.910	1421.960	1400.998	1394.010
<b>55.0</b>	1397.504	1366.060	1338.110	1313.654	1299.679
<b>57.5</b>	1306.666	1275.222	1243.779	1215.829	1205.347
<b>60.0</b>	1212.335	1177.397	1149.447	1121.497	1114.509
<b>62.5</b>	1107.522	1083.066	1037.647	1016.684	1013.190
<b>65.0</b>	999.215	971.265	932.834	911.871	911.871
<b>67.5</b>	887.415	866.453	831.515	814.046	810.552
<b>70.0</b>	772.121	747.665	723.208	709.233	702.246
<b>72.5</b>	656.827	639.358	618.396	607.914	604.420
<b>75.0</b>	541.533	520.570	506.595	499.608	499.608
<b>77.5</b>	433.226	412.264	408.770	398.289	401.782
<b>80.0</b>	328.413	310.945	310.945	300.463	303.957
<b>82.5</b>	223.601	213.119	216.613	209.626	209.626
<b>85.0</b>	129.269	132.763	136.257	129.269	136.257
<b>87.5</b>	52.406	59.394	66.381	62.888	62.888
<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	804.74	N.A.	11.40
0-30	1746.87	N.A.	24.80
0-40	2929.02	N.A.	41.60
0-60	5404.32	N.A.	76.80
0-80	6882.52	N.A.	97.80
0-90	7035.72	N.A.	100.00
10-90	6831.06	N.A.	97.10
20-40	2124.28	N.A.	30.20
20-50	3402.93	N.A.	48.40
40-70	3409.1	N.A.	48.50
60-80	1478.2	N.A.	21.00
70-80	544.40	N.A.	7.70
80-90	153.20	N.A.	2.20
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	7035.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	204.66
10-20	600.09
20-30	942.13
30-40	1182.15
40-50	1278.66
50-60	1196.64
60-70	933.80
70-80	544.40
80-90	153.20
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

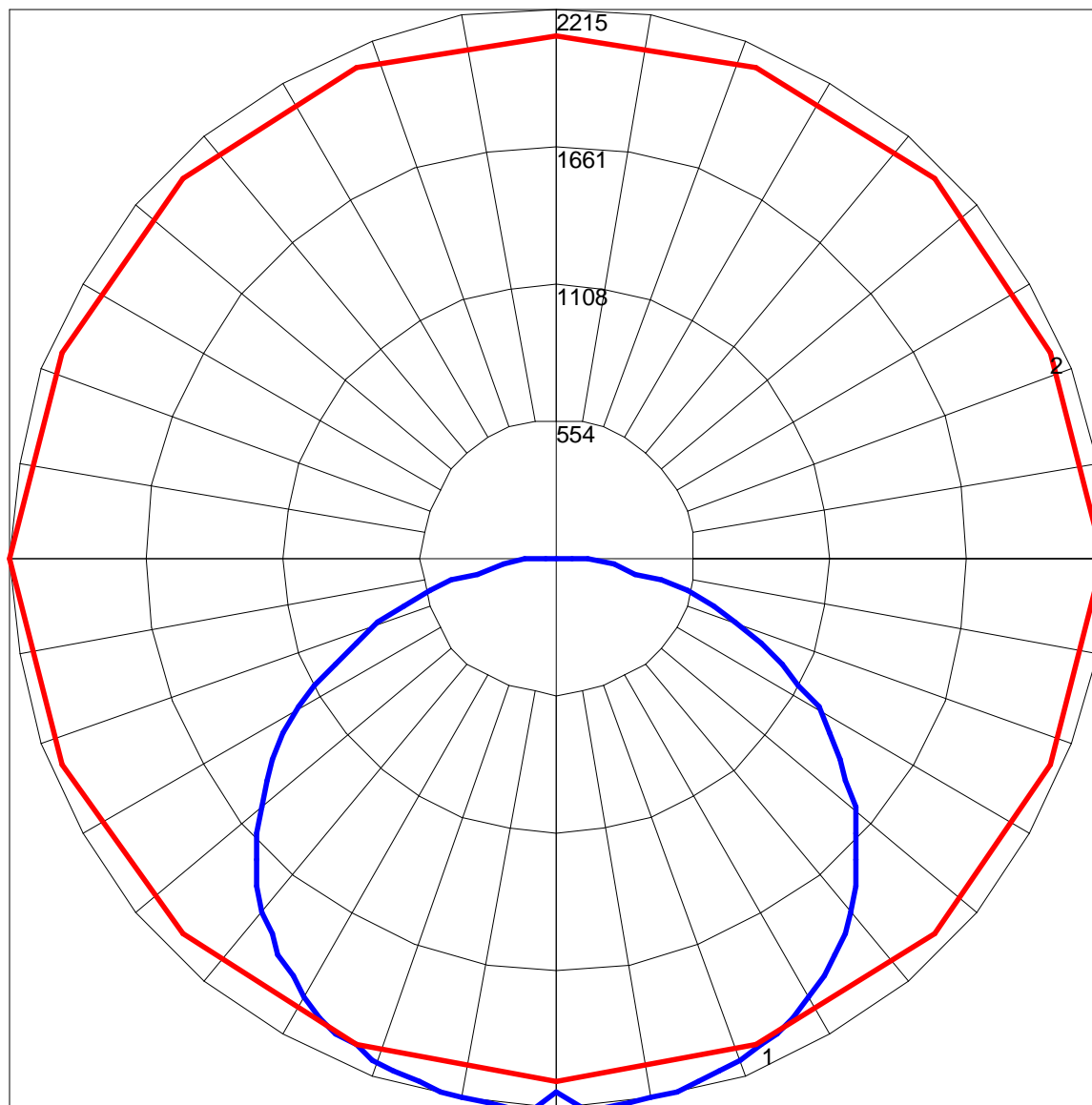
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	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	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 2215.044 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.)