



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LAD6SQ-LED-28L-27-SP-TSQ6-HAZ.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-9874\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/09/18  
[TEST DATE]03/09/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LAD6SQ-LED-28L-27-SP-TSQ6-HAZ  
[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	2378
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	697	1140	633
55	390	468	390
65	424	424	424
75	519	692	519
85	1028	1541	1028

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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	12464.647	12464.647	12464.647	12464.647	12464.647
2.5	12346.998	12360.532	12356.368	12337.627	12341.792
5.0	10618.689	10625.977	10569.755	10542.685	10572.878
7.5	8177.192	8048.089	7911.699	7961.674	8059.542
10.0	5935.596	5761.724	5606.593	5697.173	5849.181
12.5	4213.534	3963.658	3973.028	4000.098	4159.394
15.0	3067.228	2873.574	2879.821	2893.356	3071.392
17.5	2375.904	2210.361	2167.674	2234.308	2397.768
20.0	1896.975	1770.996	1763.708	1788.696	1907.387
22.5	1549.231	1432.622	1485.721	1433.664	1545.067
25.0	1180.664	1219.187	1245.215	1216.063	1181.705
27.5	567.427	907.883	1064.055	896.430	563.262
30.0	237.382	382.102	937.035	365.444	226.971
32.5	121.815	171.790	752.751	166.584	114.526
35.0	68.716	90.580	358.156	87.457	64.551
37.5	43.728	51.016	97.868	48.934	41.646
40.0	29.152	31.234	45.811	31.234	27.070
42.5	17.700	20.823	27.070	20.823	17.700
45.0	11.453	13.535	18.741	13.535	10.411
47.5	8.329	8.329	12.494	8.329	8.329
50.0	7.288	7.288	9.370	7.288	6.247
52.5	5.206	6.247	6.247	6.247	5.206
55.0	5.206	5.206	6.247	5.206	5.206
57.5	4.165	5.206	5.206	5.206	4.165
60.0	4.165	5.206	5.206	5.206	4.165
62.5	4.165	4.165	4.165	4.165	4.165
65.0	4.165	4.165	4.165	4.165	4.165
67.5	4.165	4.165	4.165	4.165	4.165
70.0	4.165	4.165	4.165	4.165	4.165
72.5	5.206	4.165	4.165	4.165	5.206
75.0	3.123	4.165	4.165	4.165	3.123
77.5	2.082	3.123	3.123	3.123	2.082
80.0	2.082	3.123	3.123	3.123	2.082
82.5	2.082	3.123	3.123	3.123	2.082
85.0	2.082	3.123	3.123	3.123	2.082
87.5	2.082	3.123	3.123	2.082	2.082
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	1709.28	N.A.	71.90
0-30	2234.7	N.A.	94.00
0-40	2349.94	N.A.	98.80
0-60	2367.53	N.A.	99.50
0-80	2375.64	N.A.	99.90
0-90	2378.3	N.A.	100.00
10-90	1534.37	N.A.	64.50
20-40	640.66	N.A.	26.90
20-50	653.18	N.A.	27.50
40-70	21.82	N.A.	0.90
60-80	8.11	N.A.	0.30
70-80	3.88	N.A.	0.20
80-90	2.66	N.A.	0.10
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	2378.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	843.93
10-20	865.35
20-30	525.42
30-40	115.24
40-50	12.52
50-60	5.07
60-70	4.23
70-80	3.88
80-90	2.66
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

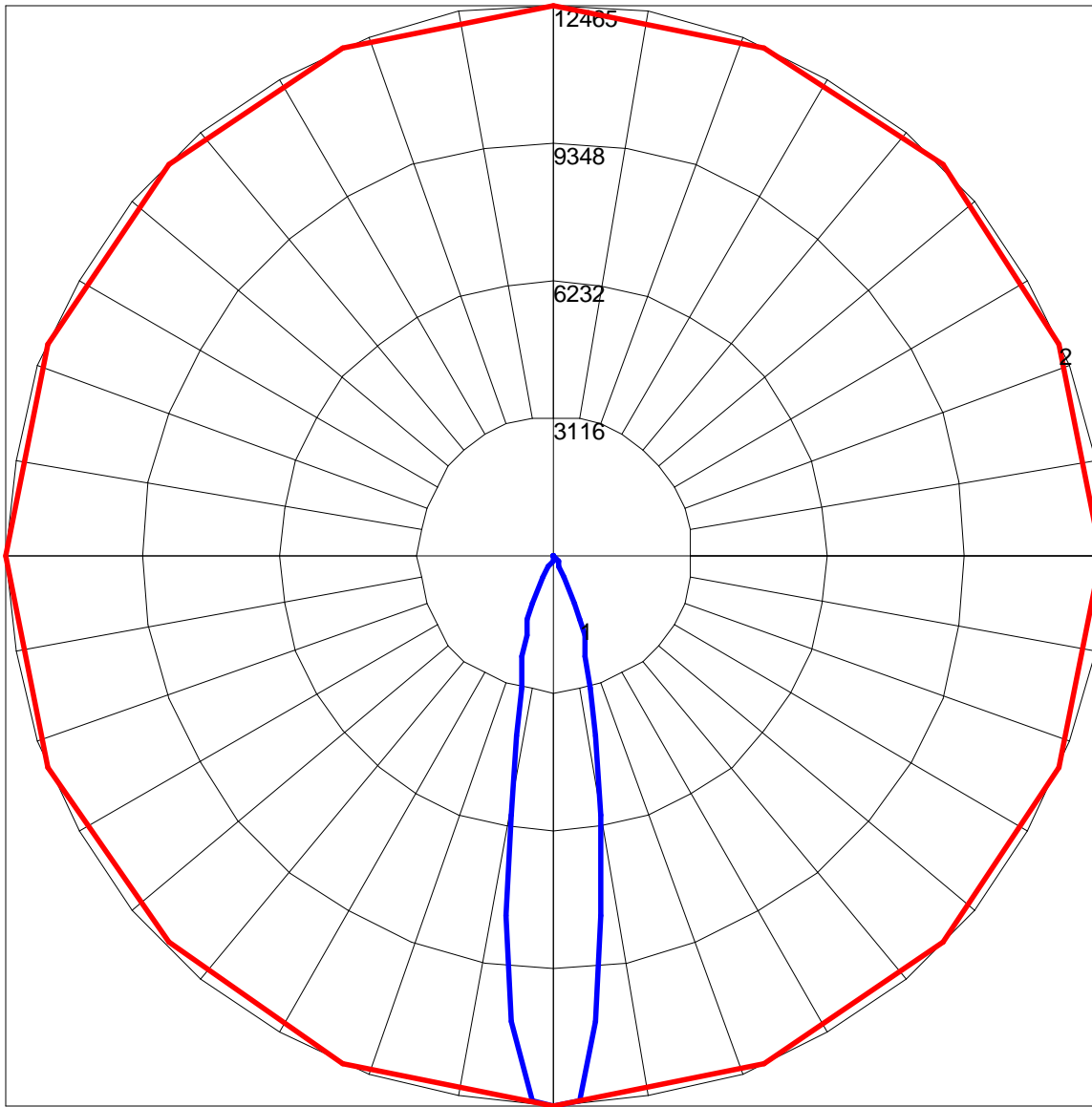
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	101	109	106	103	100	102	100	98	100	98	96	97	95	94	93
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89
4	104	98	94	91	102	97	93	90	95	92	89	93	91	88	92	89	87	86
5	100	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81
7	95	88	84	81	93	87	83	80	86	83	80	85	82	80	84	81	79	78
8	92	85	81	78	91	85	80	78	84	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	72	72

POLAR GRAPH



Maximum Candela = 12464.647 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)