



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LAD6SQ-LED-28L-40-NF-TSQ6-HAZ.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-9875\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/09/18  
[TEST DATE]03/09/18  
[MANUFACT]LSI INDUSTRIES, INC  
[LUMCAT]LAD6SQ-LED-28L-40-NF-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	2851
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.60
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	863	2276	863
55	484	580	484
65	525	657	525
75	643	858	858
85	1273	1910	1273

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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	7331.354	7331.354	7331.354	7331.354	7331.354
2.5	7318.454	7301.683	7317.164	7323.614	7327.484
5.0	6909.508	6865.646	6883.707	6910.798	6934.019
7.5	6290.284	6239.972	6181.920	6258.033	6343.176
10.0	5658.159	5535.605	5459.492	5605.267	5751.043
12.5	4937.021	4786.086	4780.925	4859.618	5024.745
15.0	4245.555	4076.558	4088.169	4143.641	4334.568
17.5	3582.469	3437.983	3434.113	3497.326	3653.422
20.0	2927.124	2821.339	2870.361	2867.781	2982.596
22.5	2390.463	2302.739	2382.722	2301.449	2369.822
25.0	1846.062	1910.564	1944.105	1895.083	1802.200
27.5	998.499	1438.406	1609.982	1391.964	949.477
30.0	532.791	709.528	1371.323	664.376	496.669
32.5	334.123	384.435	1086.222	367.664	304.452
35.0	185.767	227.049	563.752	219.309	171.577
37.5	99.334	125.135	210.278	121.265	95.464
40.0	51.602	68.373	114.814	67.083	51.602
42.5	25.801	37.411	64.503	36.121	27.091
45.0	14.191	20.641	37.411	20.641	14.191
47.5	10.320	11.610	21.931	11.610	10.320
50.0	9.030	9.030	11.610	9.030	9.030
52.5	7.740	7.740	9.030	7.740	7.740
55.0	6.450	7.740	7.740	7.740	6.450
57.5	6.450	6.450	7.740	6.450	5.160
60.0	5.160	6.450	6.450	6.450	5.160
62.5	5.160	6.450	6.450	6.450	5.160
65.0	5.160	5.160	6.450	6.450	5.160
67.5	5.160	6.450	6.450	6.450	5.160
70.0	6.450	6.450	5.160	6.450	6.450
72.5	6.450	6.450	5.160	5.160	6.450
75.0	3.870	5.160	5.160	5.160	5.160
77.5	2.580	3.870	5.160	3.870	2.580
80.0	2.580	3.870	5.160	3.870	2.580
82.5	2.580	3.870	3.870	3.870	2.580
85.0	2.580	3.870	3.870	3.870	2.580
87.5	2.580	5.160	5.160	3.870	2.580
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	1760.21	N.A.	61.70
0-30	2593.16	N.A.	91.00
0-40	2806.84	N.A.	98.40
0-60	2836.28	N.A.	99.50
0-80	2847.47	N.A.	99.90
0-90	2851.08	N.A.	100.00
10-90	2237.16	N.A.	78.50
20-40	1046.64	N.A.	36.70
20-50	1069.37	N.A.	37.50
40-70	35.43	N.A.	1.20
60-80	11.19	N.A.	0.40
70-80	5.19	N.A.	0.20
80-90	3.60	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	2851.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	613.92
10-20	1146.29
20-30	832.95
30-40	213.69
40-50	22.73
50-60	6.70
60-70	6.00
70-80	5.19
80-90	3.60
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

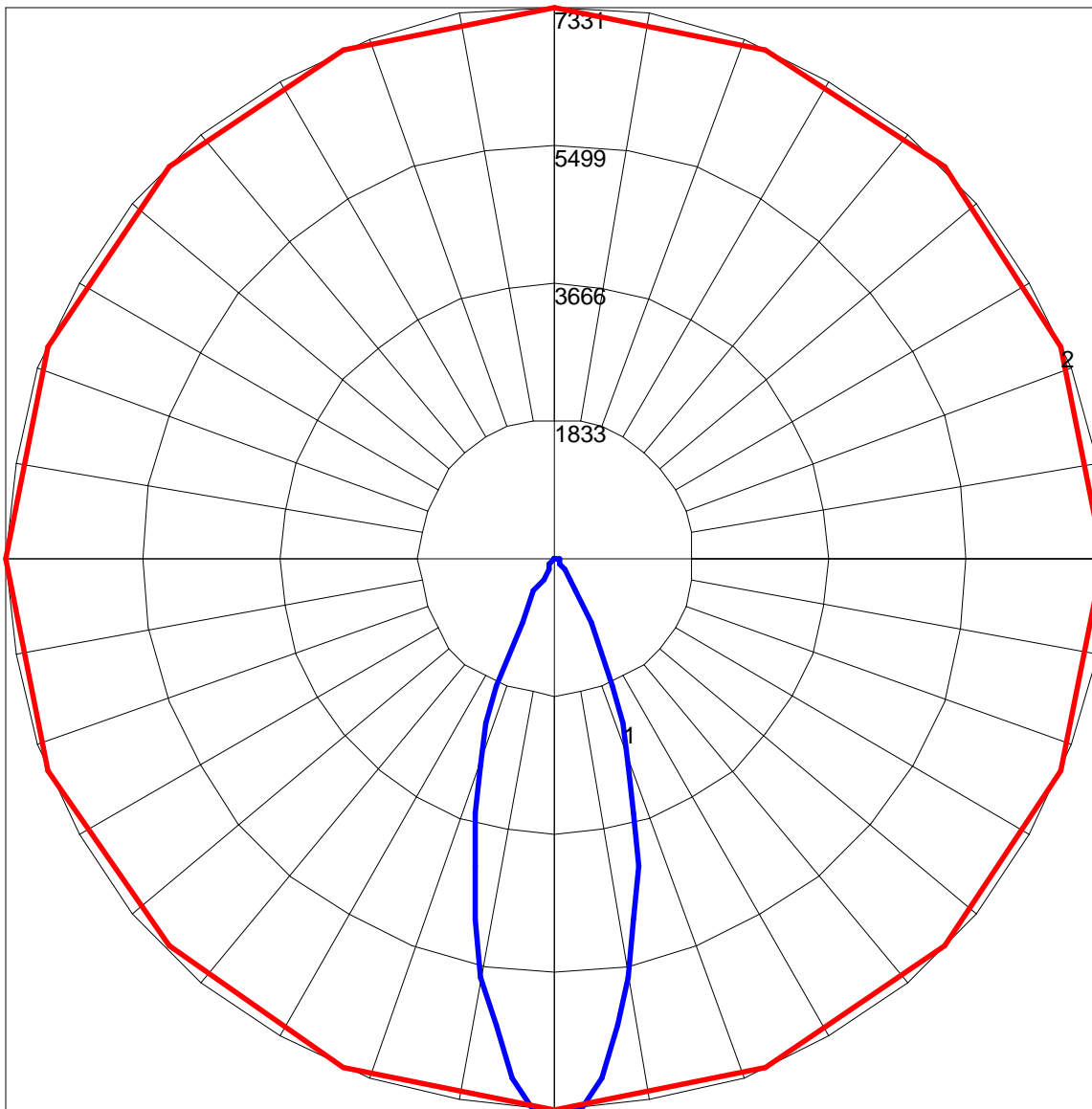
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78	83	80	77	82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	88	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69
9	84	77	72	69	83	76	72	68	75	71	68	75	71	68	74	70	68	67
10	82	74	69	66	81	73	69	66	73	68	66	72	68	65	71	68	65	64

POLAR GRAPH



Maximum Candela = 7331.354 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.)