



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LAD6SQ-LED-36L-35-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  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LAD6SQ-LED-36L-35-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                | 3647            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 87              |
| Total Luminaire Watts           | 42              |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 1104             | 2911              | 1104              |
| 55                  | 619              | 743               | 619               |
| 65                  | 672              | 840               | 672               |
| 75                  | 823              | 1097              | 1097              |
| 85                  | 1629             | 2444              | 1629              |

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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>  | 9378.257   | 9378.257    | 9378.257    | 9378.257    | 9378.257    |
| <b>2.5</b>  | 9361.755   | 9340.302    | 9360.105    | 9368.356    | 9373.307    |
| <b>5.0</b>  | 8838.632   | 8782.524    | 8805.628    | 8840.282    | 8869.987    |
| <b>7.5</b>  | 8046.522   | 7982.163    | 7907.902    | 8005.266    | 8114.181    |
| <b>10.0</b> | 7237.909   | 7081.137    | 6983.774    | 7170.250    | 7356.726    |
| <b>12.5</b> | 6315.430   | 6122.353    | 6115.753    | 6216.417    | 6427.646    |
| <b>15.0</b> | 5430.907   | 5214.727    | 5229.579    | 5300.539    | 5544.773    |
| <b>17.5</b> | 4582.689   | 4397.863    | 4392.912    | 4473.774    | 4673.452    |
| <b>20.0</b> | 3744.372   | 3609.053    | 3671.762    | 3668.461    | 3815.332    |
| <b>22.5</b> | 3057.876   | 2945.661    | 3047.975    | 2944.010    | 3031.473    |
| <b>25.0</b> | 2361.479   | 2443.991    | 2486.897    | 2424.188    | 2305.371    |
| <b>27.5</b> | 1277.278   | 1840.007    | 2059.487    | 1780.598    | 1214.569    |
| <b>30.0</b> | 681.545    | 907.627     | 1754.195    | 849.868     | 635.339     |
| <b>32.5</b> | 427.410    | 491.769     | 1389.494    | 470.316     | 389.454     |
| <b>35.0</b> | 237.633    | 290.440     | 721.151     | 280.539     | 219.481     |
| <b>37.5</b> | 127.068    | 160.072     | 268.987     | 155.122     | 122.117     |
| <b>40.0</b> | 66.009     | 87.462      | 146.870     | 85.812      | 66.009      |
| <b>42.5</b> | 33.005     | 47.857      | 82.512      | 46.206      | 34.655      |
| <b>45.0</b> | 18.153     | 26.404      | 47.857      | 26.404      | 18.153      |
| <b>47.5</b> | 13.202     | 14.852      | 28.054      | 14.852      | 13.202      |
| <b>50.0</b> | 11.552     | 11.552      | 14.852      | 11.552      | 11.552      |
| <b>52.5</b> | 9.901      | 9.901       | 11.552      | 9.901       | 9.901       |
| <b>55.0</b> | 8.251      | 9.901       | 9.901       | 9.901       | 8.251       |
| <b>57.5</b> | 8.251      | 8.251       | 9.901       | 8.251       | 6.601       |
| <b>60.0</b> | 6.601      | 8.251       | 8.251       | 8.251       | 6.601       |
| <b>62.5</b> | 6.601      | 8.251       | 8.251       | 8.251       | 6.601       |
| <b>65.0</b> | 6.601      | 6.601       | 8.251       | 8.251       | 6.601       |
| <b>67.5</b> | 6.601      | 8.251       | 8.251       | 8.251       | 6.601       |
| <b>70.0</b> | 8.251      | 8.251       | 6.601       | 8.251       | 8.251       |
| <b>72.5</b> | 8.251      | 8.251       | 6.601       | 6.601       | 8.251       |
| <b>75.0</b> | 4.951      | 6.601       | 6.601       | 6.601       | 6.601       |
| <b>77.5</b> | 3.300      | 4.951       | 6.601       | 4.951       | 3.300       |
| <b>80.0</b> | 3.300      | 4.951       | 6.601       | 4.951       | 3.300       |
| <b>82.5</b> | 3.300      | 4.951       | 4.951       | 4.951       | 3.300       |
| <b>85.0</b> | 3.300      | 4.951       | 4.951       | 4.951       | 3.300       |
| <b>87.5</b> | 3.300      | 6.601       | 6.601       | 4.951       | 3.300       |
| <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    | 2251.65 | N.A.  | 61.70  |
| 0-30    | 3317.16 | N.A.  | 91.00  |
| 0-40    | 3590.51 | N.A.  | 98.40  |
| 0-60    | 3628.16 | N.A.  | 99.50  |
| 0-80    | 3642.48 | N.A.  | 99.90  |
| 0-90    | 3647.09 | N.A.  | 100.00 |
| 10-90   | 2861.77 | N.A.  | 78.50  |
| 20-40   | 1338.86 | N.A.  | 36.70  |
| 20-50   | 1367.94 | N.A.  | 37.50  |
| 40-70   | 45.33   | N.A.  | 1.20   |
| 60-80   | 14.32   | N.A.  | 0.40   |
| 70-80   | 6.64    | N.A.  | 0.20   |
| 80-90   | 4.61    | 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   | 3647.09 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 785.32  |
| 10-20   | 1466.33 |
| 20-30   | 1065.51 |
| 30-40   | 273.35  |
| 40-50   | 29.08   |
| 50-60   | 8.57    |
| 60-70   | 7.68    |
| 70-80   | 6.64    |
| 80-90   | 4.61    |
| 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    |

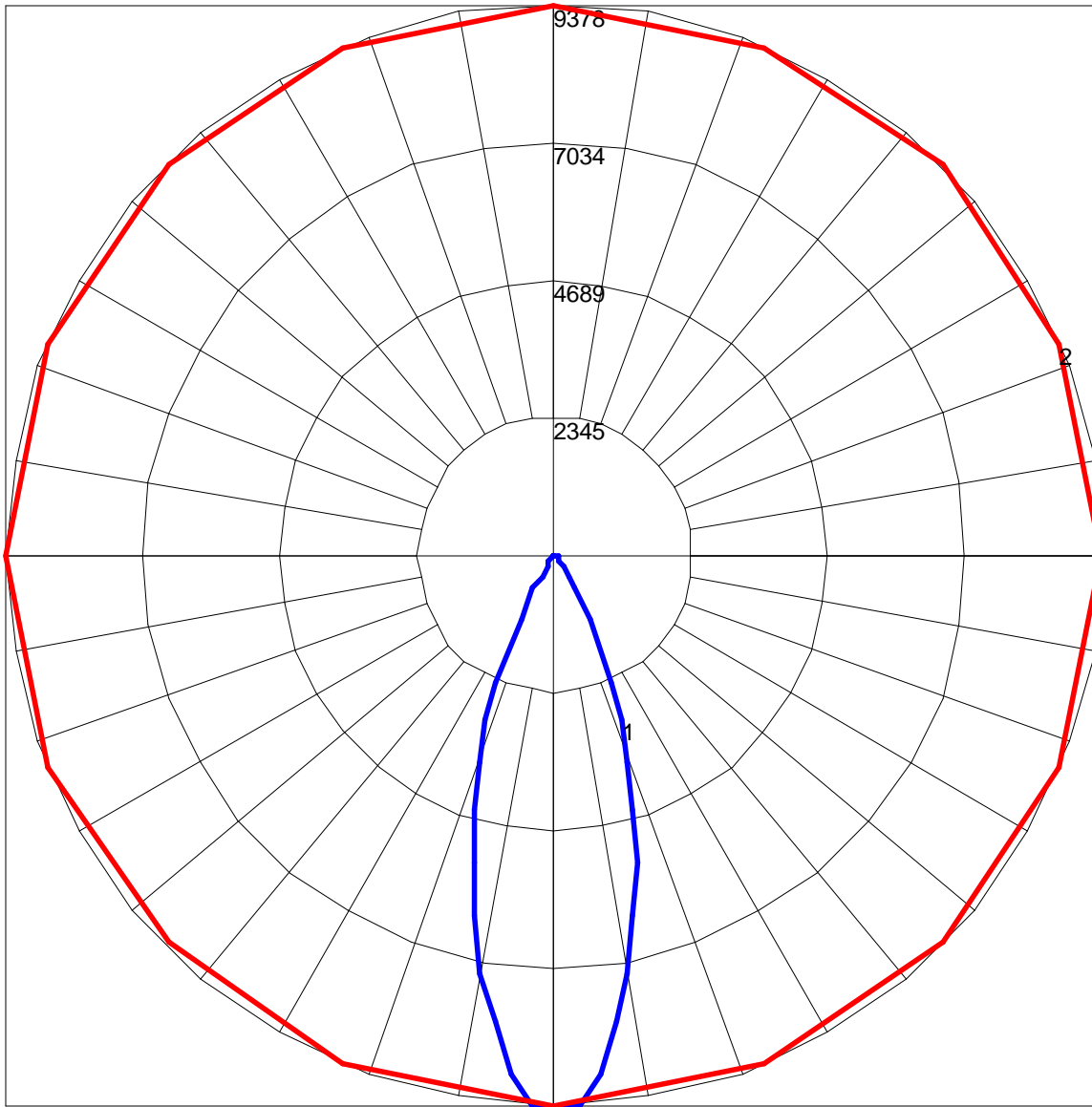
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 9378.257 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.)