



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LAD6SQ-LED-28L-35-FL-TSQ6-HAZ.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-9876\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/09/18  
[TEST DATE]03/09/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LAD6SQ-LED-28L-35-FL-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                | 2843            |
| 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)       | 0.76            |
| Spacing Criterion (90-270)      | 0.76            |
| Spacing Criterion (Diagonal)    | 0.74            |
| 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                  | 1020             | 4002              | 942               |
| 55                  | 580              | 580               | 484               |
| 65                  | 525              | 657               | 525               |
| 75                  | 858              | 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> |
|-------------|------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>  | 5079.006   | 5079.006    | 5079.006    | 5079.006    | 5079.006    |
| <b>2.5</b>  | 5060.945   | 5066.105    | 5076.426    | 5086.746    | 5085.456    |
| <b>5.0</b>  | 4894.526   | 4879.045    | 4860.984    | 4876.465    | 4879.045    |
| <b>7.5</b>  | 4756.488   | 4667.473    | 4568.138    | 4621.031    | 4673.924    |
| <b>10.0</b> | 4632.642   | 4475.253    | 4347.536    | 4453.322    | 4566.848    |
| <b>12.5</b> | 4414.620   | 4230.140    | 4165.636    | 4205.628    | 4323.025    |
| <b>15.0</b> | 4141.125   | 3925.683    | 3889.561    | 3888.271    | 4043.080    |
| <b>17.5</b> | 3770.875   | 3574.784    | 3514.151    | 3530.922    | 3654.768    |
| <b>20.0</b> | 3250.977   | 3120.679    | 3093.588    | 3075.527    | 3156.801    |
| <b>22.5</b> | 2720.758   | 2616.262    | 2654.964    | 2565.949    | 2654.964    |
| <b>25.0</b> | 2154.417   | 2182.799    | 2195.699    | 2171.188    | 2111.845    |
| <b>27.5</b> | 1246.208   | 1644.839    | 1834.480    | 1665.480    | 1243.628    |
| <b>30.0</b> | 734.050    | 909.499     | 1560.985    | 899.179     | 745.660     |
| <b>32.5</b> | 486.356    | 541.829     | 1252.658    | 554.730     | 509.578     |
| <b>35.0</b> | 314.777    | 353.479     | 696.638     | 365.090     | 331.548     |
| <b>37.5</b> | 183.190    | 219.312     | 313.487     | 225.762     | 194.801     |
| <b>40.0</b> | 81.274     | 121.267     | 189.640     | 123.847     | 86.435      |
| <b>42.5</b> | 36.122     | 54.183      | 116.106     | 54.183      | 33.542      |
| <b>45.0</b> | 16.771     | 25.801      | 65.794      | 24.511      | 15.481      |
| <b>47.5</b> | 11.611     | 12.901      | 30.962      | 12.901      | 11.611      |
| <b>50.0</b> | 10.321     | 10.321      | 15.481      | 10.321      | 9.030       |
| <b>52.5</b> | 7.740      | 9.030       | 9.030       | 9.030       | 7.740       |
| <b>55.0</b> | 7.740      | 7.740       | 7.740       | 7.740       | 6.450       |
| <b>57.5</b> | 6.450      | 6.450       | 7.740       | 7.740       | 6.450       |
| <b>60.0</b> | 6.450      | 6.450       | 7.740       | 6.450       | 6.450       |
| <b>62.5</b> | 5.160      | 6.450       | 6.450       | 6.450       | 5.160       |
| <b>65.0</b> | 5.160      | 6.450       | 6.450       | 6.450       | 5.160       |
| <b>67.5</b> | 5.160      | 6.450       | 6.450       | 6.450       | 6.450       |
| <b>70.0</b> | 6.450      | 6.450       | 5.160       | 6.450       | 6.450       |
| <b>72.5</b> | 7.740      | 6.450       | 5.160       | 6.450       | 6.450       |
| <b>75.0</b> | 5.160      | 5.160       | 5.160       | 5.160       | 5.160       |
| <b>77.5</b> | 3.870      | 5.160       | 5.160       | 5.160       | 3.870       |
| <b>80.0</b> | 2.580      | 3.870       | 5.160       | 3.870       | 2.580       |
| <b>82.5</b> | 2.580      | 3.870       | 3.870       | 3.870       | 2.580       |
| <b>85.0</b> | 2.580      | 3.870       | 3.870       | 3.870       | 2.580       |
| <b>87.5</b> | 2.580      | 5.160       | 5.160       | 3.870       | 2.580       |
| <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    | 1535.8  | N.A.  | 54.00  |
| 0-30    | 2488.26 | N.A.  | 87.50  |
| 0-40    | 2785.09 | N.A.  | 98.00  |
| 0-60    | 2827.1  | N.A.  | 99.50  |
| 0-80    | 2838.92 | N.A.  | 99.90  |
| 0-90    | 2842.53 | N.A.  | 100.00 |
| 10-90   | 2390.92 | N.A.  | 84.10  |
| 20-40   | 1249.28 | N.A.  | 43.90  |
| 20-50   | 1284.05 | N.A.  | 45.20  |
| 40-70   | 48.21   | N.A.  | 1.70   |
| 60-80   | 11.82   | N.A.  | 0.40   |
| 70-80   | 5.62    | 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   | 2842.53 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 451.61 |
| 10-20   | 1084.2 |
| 20-30   | 952.45 |
| 30-40   | 296.83 |
| 40-50   | 34.76  |
| 50-60   | 7.25   |
| 60-70   | 6.20   |
| 70-80   | 5.62   |
| 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   |

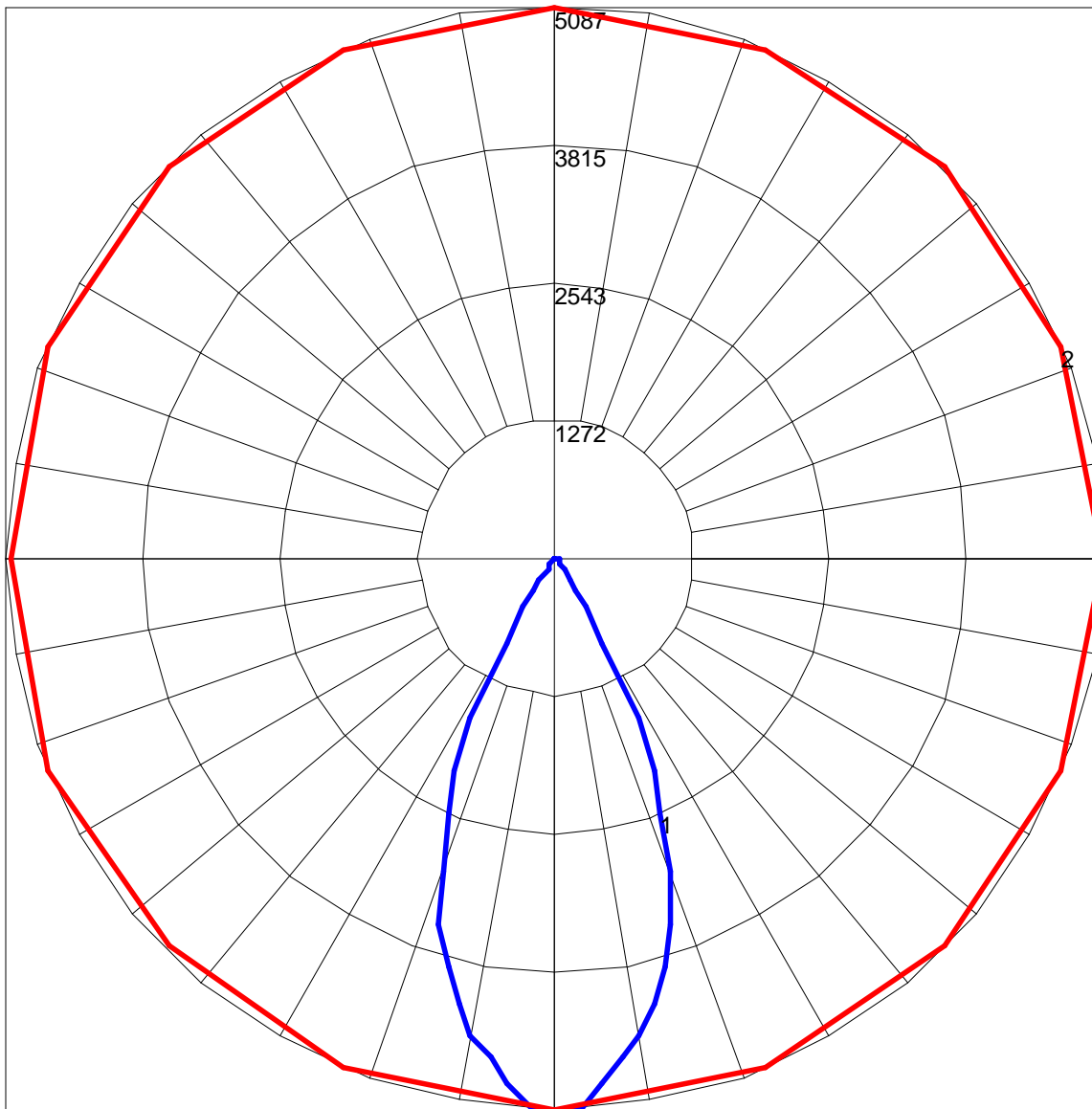
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 95  |
| 2  | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 90  |
| 3  | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 88  | 86  | 85  |
| 4  | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 80  |
| 5  | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 78  | 76  |
| 6  | 92  | 84  | 79  | 76  | 91  | 84  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 73  |
| 7  | 88  | 80  | 75  | 72  | 87  | 80  | 75  | 71  | 79  | 74  | 71  | 77  | 74  | 71  | 76  | 73  | 70  | 69  |
| 8  | 85  | 77  | 71  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 66  |
| 9  | 82  | 73  | 68  | 65  | 81  | 73  | 68  | 65  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 67  | 64  | 63  |
| 10 | 79  | 70  | 65  | 62  | 78  | 70  | 65  | 62  | 69  | 64  | 61  | 68  | 64  | 61  | 67  | 64  | 61  | 60  |

POLAR GRAPH



Maximum Candela = 5086.746 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)