



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LAD6SQ-LED-28L-40-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-40-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 | 2946 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 92 |
| 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 | 863 | 1412 | 785 |
| 55 | 484 | 580 | 484 |
| 65 | 525 | 525 | 525 |
| 75 | 643 | 857 | 643 |
| 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 | 15441.964 | 15441.964 | 15441.964 | 15441.964 | 15441.964 |
| 2.5 | 15296.212 | 15312.980 | 15307.821 | 15284.604 | 15289.763 |
| 5.0 | 13155.078 | 13164.107 | 13094.456 | 13060.920 | 13098.325 |
| 7.5 | 10130.403 | 9970.463 | 9801.494 | 9863.406 | 9984.651 |
| 10.0 | 7353.378 | 7137.974 | 6945.788 | 7058.004 | 7246.321 |
| 12.5 | 5219.982 | 4910.421 | 4922.029 | 4955.565 | 5152.911 |
| 15.0 | 3799.869 | 3559.958 | 3567.697 | 3584.465 | 3805.028 |
| 17.5 | 2943.415 | 2738.330 | 2685.447 | 2767.997 | 2970.501 |
| 20.0 | 2350.088 | 2194.018 | 2184.989 | 2215.945 | 2362.987 |
| 22.5 | 1919.282 | 1774.820 | 1840.602 | 1776.110 | 1914.123 |
| 25.0 | 1462.679 | 1510.403 | 1542.649 | 1506.533 | 1463.968 |
| 27.5 | 702.963 | 1124.740 | 1318.216 | 1110.552 | 697.803 |
| 30.0 | 294.084 | 473.371 | 1160.856 | 452.734 | 281.185 |
| 32.5 | 150.911 | 212.824 | 932.554 | 206.374 | 141.882 |
| 35.0 | 85.129 | 112.216 | 443.705 | 108.347 | 79.970 |
| 37.5 | 54.173 | 63.202 | 121.245 | 60.622 | 51.594 |
| 40.0 | 36.116 | 38.695 | 56.753 | 38.695 | 33.536 |
| 42.5 | 21.927 | 25.797 | 33.536 | 25.797 | 21.927 |
| 45.0 | 14.188 | 16.768 | 23.217 | 16.768 | 12.898 |
| 47.5 | 10.319 | 10.319 | 15.478 | 10.319 | 10.319 |
| 50.0 | 9.029 | 9.029 | 11.609 | 9.029 | 7.739 |
| 52.5 | 6.449 | 7.739 | 7.739 | 7.739 | 6.449 |
| 55.0 | 6.449 | 6.449 | 7.739 | 6.449 | 6.449 |
| 57.5 | 5.159 | 6.449 | 6.449 | 6.449 | 5.159 |
| 60.0 | 5.159 | 6.449 | 6.449 | 6.449 | 5.159 |
| 62.5 | 5.159 | 5.159 | 5.159 | 5.159 | 5.159 |
| 65.0 | 5.159 | 5.159 | 5.159 | 5.159 | 5.159 |
| 67.5 | 5.159 | 5.159 | 5.159 | 5.159 | 5.159 |
| 70.0 | 5.159 | 5.159 | 5.159 | 5.159 | 5.159 |
| 72.5 | 6.449 | 5.159 | 5.159 | 5.159 | 6.449 |
| 75.0 | 3.870 | 5.159 | 5.159 | 5.159 | 3.870 |
| 77.5 | 2.580 | 3.870 | 3.870 | 3.870 | 2.580 |
| 80.0 | 2.580 | 3.870 | 3.870 | 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 | 3.870 | 3.870 | 2.580 | 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 | 2117.56 | N.A. | 71.90 |
| 0-30 | 2768.48 | N.A. | 94.00 |
| 0-40 | 2911.25 | N.A. | 98.80 |
| 0-60 | 2933.04 | N.A. | 99.50 |
| 0-80 | 2943.08 | N.A. | 99.90 |
| 0-90 | 2946.38 | N.A. | 100.00 |
| 10-90 | 1900.87 | N.A. | 64.50 |
| 20-40 | 793.69 | N.A. | 26.90 |
| 20-50 | 809.20 | N.A. | 27.50 |
| 40-70 | 27.03 | N.A. | 0.90 |
| 60-80 | 10.05 | N.A. | 0.30 |
| 70-80 | 4.81 | N.A. | 0.20 |
| 80-90 | 3.30 | 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 | 2946.38 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1045.51 |
| 10-20 | 1072.05 |
| 20-30 | 650.92 |
| 30-40 | 142.77 |
| 40-50 | 15.51 |
| 50-60 | 6.28 |
| 60-70 | 5.24 |
| 70-80 | 4.81 |
| 80-90 | 3.30 |
| 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 |

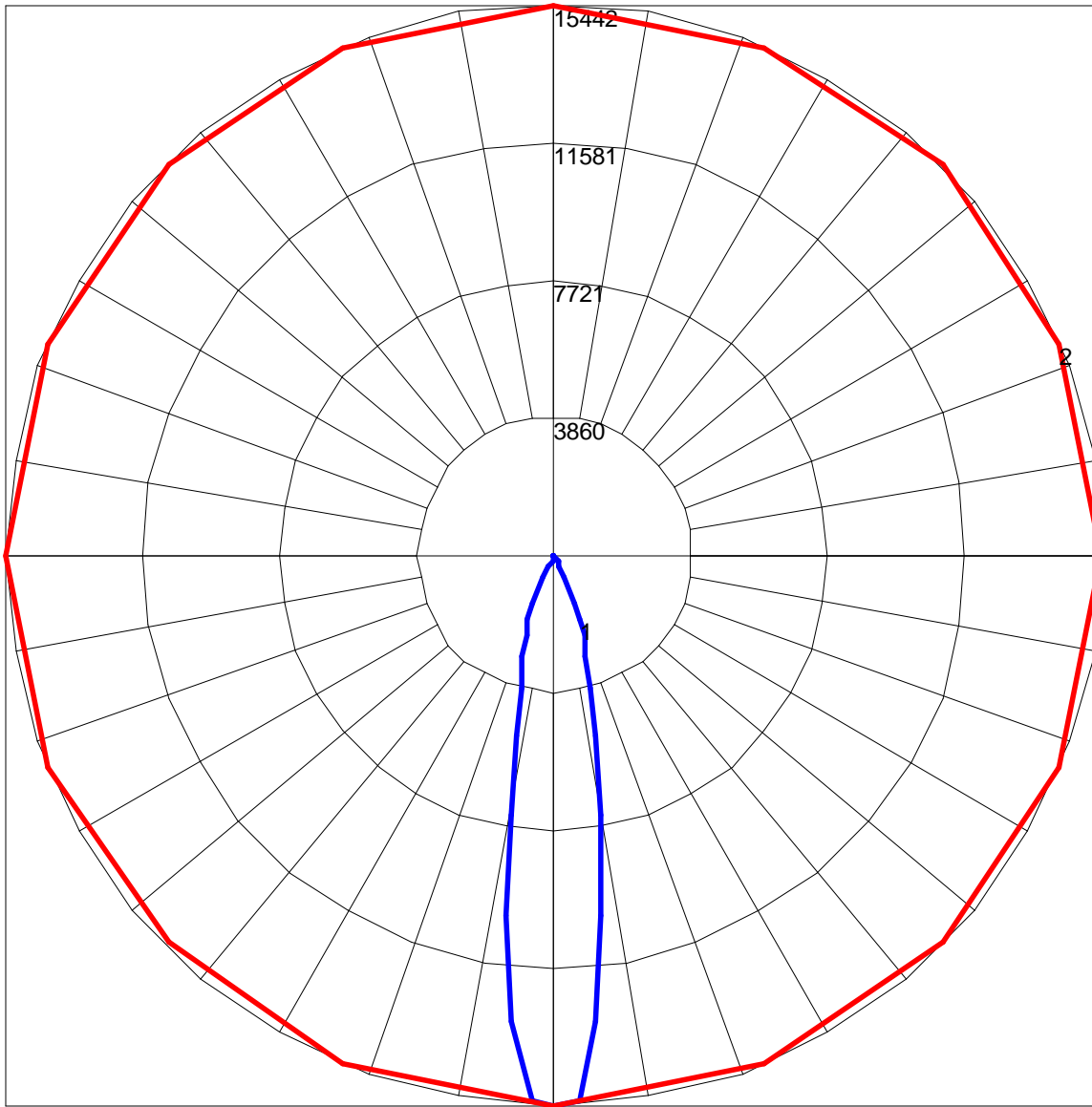
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 15441.964 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.)