



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LAD6SQ-LED-36L-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-36L-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 | 3769 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 90 |
| Total Luminaire Watts | 42 |
| 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 | 1104 | 1807 | 1004 |
| 55 | 619 | 743 | 619 |
| 65 | 672 | 672 | 672 |
| 75 | 823 | 1097 | 823 |
| 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> |
|-------------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 19755.835 | 19755.835 | 19755.835 | 19755.835 | 19755.835 |
| 2.5 | 19569.366 | 19590.818 | 19584.217 | 19554.514 | 19561.115 |
| 5.0 | 16830.084 | 16841.635 | 16752.526 | 16709.621 | 16757.476 |
| 7.5 | 12960.435 | 12755.814 | 12539.642 | 12618.850 | 12773.966 |
| 10.0 | 9407.619 | 9132.041 | 8886.165 | 9029.730 | 9270.655 |
| 12.5 | 6678.238 | 6282.197 | 6297.049 | 6339.953 | 6592.429 |
| 15.0 | 4861.401 | 4554.469 | 4564.370 | 4585.822 | 4868.001 |
| 17.5 | 3765.688 | 3503.311 | 3435.654 | 3541.265 | 3800.341 |
| 20.0 | 3006.610 | 2806.939 | 2795.388 | 2834.992 | 3023.111 |
| 22.5 | 2455.453 | 2270.634 | 2354.793 | 2272.284 | 2448.852 |
| 25.0 | 1871.293 | 1932.349 | 1973.603 | 1927.399 | 1872.943 |
| 27.5 | 899.343 | 1438.948 | 1686.474 | 1420.796 | 892.742 |
| 30.0 | 376.239 | 605.612 | 1485.153 | 579.210 | 359.737 |
| 32.5 | 193.070 | 272.278 | 1193.073 | 264.027 | 181.519 |
| 35.0 | 108.911 | 143.565 | 567.658 | 138.614 | 102.311 |
| 37.5 | 69.307 | 80.858 | 155.116 | 77.558 | 66.007 |
| 40.0 | 46.205 | 49.505 | 72.607 | 49.505 | 42.904 |
| 42.5 | 28.053 | 33.003 | 42.904 | 33.003 | 28.053 |
| 45.0 | 18.152 | 21.452 | 29.703 | 21.452 | 16.502 |
| 47.5 | 13.201 | 13.201 | 19.802 | 13.201 | 13.201 |
| 50.0 | 11.551 | 11.551 | 14.852 | 11.551 | 9.901 |
| 52.5 | 8.251 | 9.901 | 9.901 | 9.901 | 8.251 |
| 55.0 | 8.251 | 8.251 | 9.901 | 8.251 | 8.251 |
| 57.5 | 6.601 | 8.251 | 8.251 | 8.251 | 6.601 |
| 60.0 | 6.601 | 8.251 | 8.251 | 8.251 | 6.601 |
| 62.5 | 6.601 | 6.601 | 6.601 | 6.601 | 6.601 |
| 65.0 | 6.601 | 6.601 | 6.601 | 6.601 | 6.601 |
| 67.5 | 6.601 | 6.601 | 6.601 | 6.601 | 6.601 |
| 70.0 | 6.601 | 6.601 | 6.601 | 6.601 | 6.601 |
| 72.5 | 8.251 | 6.601 | 6.601 | 6.601 | 8.251 |
| 75.0 | 4.951 | 6.601 | 6.601 | 6.601 | 4.951 |
| 77.5 | 3.300 | 4.951 | 4.951 | 4.951 | 3.300 |
| 80.0 | 3.300 | 4.951 | 4.951 | 4.951 | 3.300 |
| 82.5 | 3.300 | 4.951 | 4.951 | 4.951 | 3.300 |
| 85.0 | 3.300 | 4.951 | 4.951 | 4.951 | 3.300 |
| 87.5 | 3.300 | 4.951 | 4.951 | 3.300 | 3.300 |
| 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 | 2709.12 | N.A. | 71.90 |
| 0-30 | 3541.89 | N.A. | 94.00 |
| 0-40 | 3724.54 | N.A. | 98.80 |
| 0-60 | 3752.41 | N.A. | 99.50 |
| 0-80 | 3765.27 | N.A. | 99.90 |
| 0-90 | 3769.48 | N.A. | 100.00 |
| 10-90 | 2431.9 | N.A. | 64.50 |
| 20-40 | 1015.42 | N.A. | 26.90 |
| 20-50 | 1035.25 | N.A. | 27.50 |
| 40-70 | 34.58 | N.A. | 0.90 |
| 60-80 | 12.85 | N.A. | 0.30 |
| 70-80 | 6.15 | N.A. | 0.20 |
| 80-90 | 4.22 | 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 | 3769.48 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1337.59 |
| 10-20 | 1371.54 |
| 20-30 | 832.76 |
| 30-40 | 182.65 |
| 40-50 | 19.84 |
| 50-60 | 8.04 |
| 60-70 | 6.70 |
| 70-80 | 6.15 |
| 80-90 | 4.22 |
| 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 |

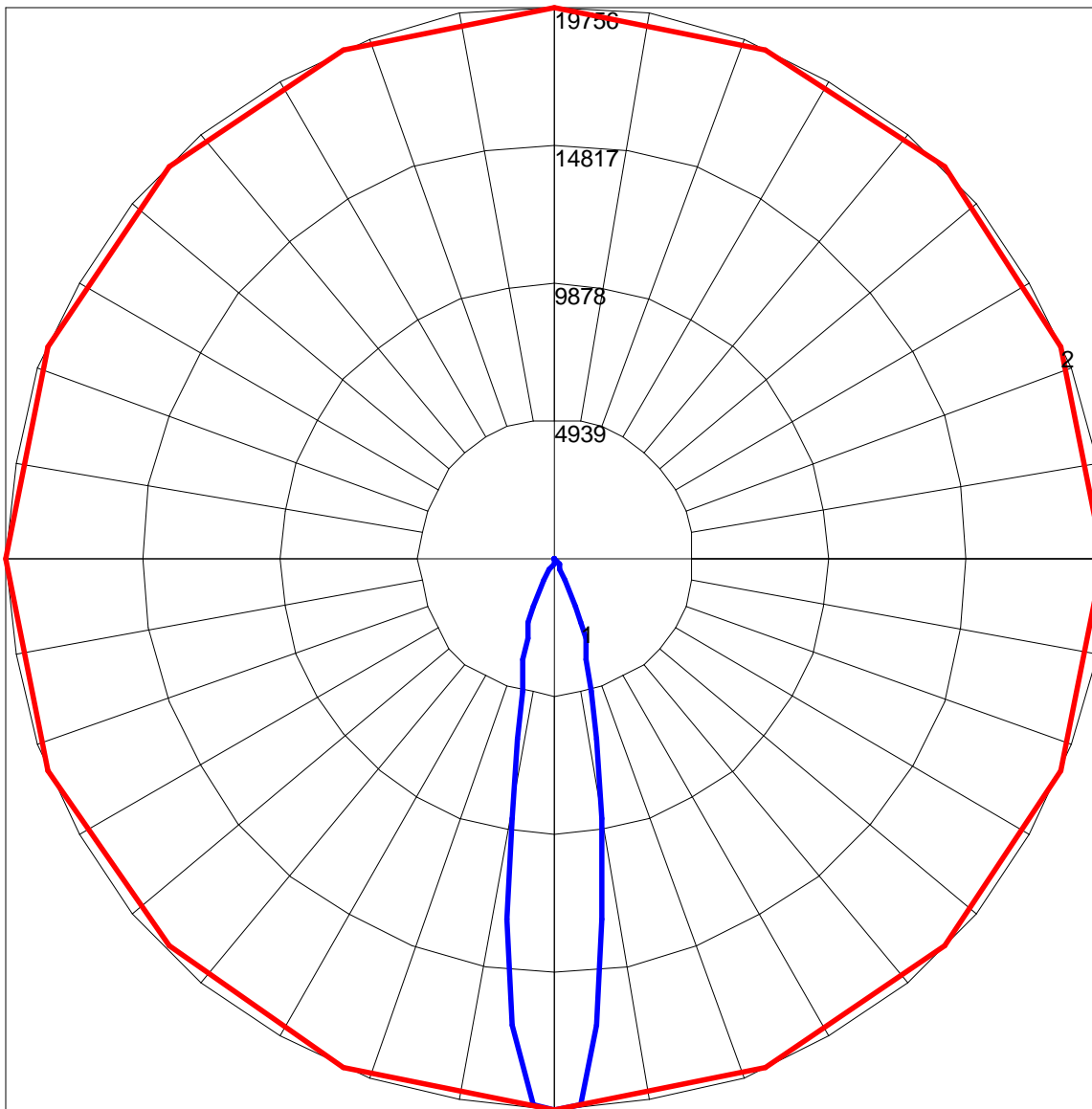
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 19755.835 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.)