



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC22-LED-60L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8833_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]07/10/17
[TEST DATE]04/26/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPEC22-LED-60L-50
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6646 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 137 |
| Total Luminaire Watts | 48.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.46 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 2.00 ft |
| Luminous Width (90-270) | 2.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4677 | 5625 | 6486 |
| 55 | 4290 | 5751 | 7134 |
| 65 | 3881 | 5843 | 7972 |
| 75 | 3305 | 6167 | 9609 |
| 85 | 2530 | 6678 | 11030 |

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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 | 1938.699 | 1938.699 | 1938.699 | 1938.699 | 1938.699 |
| 2.5 | 1974.783 | 1961.661 | 1938.699 | 1922.297 | 1912.456 |
| 5.0 | 1974.783 | 1958.381 | 1941.979 | 1922.297 | 1912.456 |
| 7.5 | 1964.942 | 1951.820 | 1935.418 | 1925.577 | 1915.736 |
| 10.0 | 1951.820 | 1941.979 | 1932.138 | 1925.577 | 1922.297 |
| 12.5 | 1932.138 | 1925.577 | 1922.297 | 1919.016 | 1922.297 |
| 15.0 | 1912.456 | 1912.456 | 1915.736 | 1922.297 | 1919.016 |
| 17.5 | 1882.932 | 1886.213 | 1899.334 | 1912.456 | 1915.736 |
| 20.0 | 1850.129 | 1859.970 | 1882.932 | 1909.175 | 1915.736 |
| 22.5 | 1810.764 | 1823.886 | 1859.970 | 1896.054 | 1905.895 |
| 25.0 | 1768.119 | 1784.521 | 1833.727 | 1882.932 | 1899.334 |
| 27.5 | 1715.634 | 1741.876 | 1807.484 | 1869.811 | 1889.493 |
| 30.0 | 1656.587 | 1689.391 | 1768.119 | 1846.848 | 1873.091 |
| 32.5 | 1594.260 | 1633.624 | 1732.035 | 1820.605 | 1856.689 |
| 35.0 | 1531.933 | 1577.858 | 1689.391 | 1797.643 | 1833.727 |
| 37.5 | 1459.765 | 1512.251 | 1640.185 | 1761.559 | 1807.484 |
| 40.0 | 1384.316 | 1446.643 | 1590.979 | 1725.475 | 1774.680 |
| 42.5 | 1308.868 | 1377.755 | 1538.494 | 1686.110 | 1738.596 |
| 45.0 | 1230.139 | 1305.587 | 1479.447 | 1640.185 | 1705.792 |
| 47.5 | 1157.971 | 1230.139 | 1420.400 | 1597.540 | 1666.428 |
| 50.0 | 1079.242 | 1154.690 | 1354.793 | 1548.335 | 1620.503 |
| 52.5 | 997.232 | 1079.242 | 1292.466 | 1499.129 | 1568.017 |
| 55.0 | 915.223 | 1003.793 | 1226.858 | 1440.082 | 1522.092 |
| 57.5 | 839.775 | 925.064 | 1151.410 | 1377.755 | 1466.325 |
| 60.0 | 757.765 | 843.055 | 1079.242 | 1308.868 | 1397.438 |
| 62.5 | 685.597 | 767.607 | 1003.793 | 1246.541 | 1331.830 |
| 65.0 | 610.149 | 685.597 | 918.504 | 1167.812 | 1253.101 |
| 67.5 | 534.700 | 606.868 | 843.055 | 1089.083 | 1184.214 |
| 70.0 | 459.252 | 528.140 | 757.765 | 1010.354 | 1102.204 |
| 72.5 | 390.364 | 452.691 | 675.756 | 928.345 | 1023.475 |
| 75.0 | 318.196 | 380.523 | 593.747 | 836.494 | 925.064 |
| 77.5 | 252.588 | 308.355 | 505.177 | 731.523 | 823.373 |
| 80.0 | 193.542 | 242.747 | 416.607 | 623.270 | 698.719 |
| 82.5 | 137.776 | 173.860 | 318.196 | 485.495 | 547.822 |
| 85.0 | 82.009 | 111.533 | 216.504 | 324.757 | 357.560 |
| 87.5 | 36.084 | 45.925 | 98.411 | 137.776 | 141.056 |
| 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 | 726.35 | N.A. | 10.90 |
| 0-30 | 1572.36 | N.A. | 23.70 |
| 0-40 | 2626.8 | N.A. | 39.50 |
| 0-60 | 4855.99 | N.A. | 73.10 |
| 0-80 | 6412.4 | N.A. | 96.50 |
| 0-90 | 6645.57 | N.A. | 100.00 |
| 10-90 | 6460.52 | N.A. | 97.20 |
| 20-40 | 1900.45 | N.A. | 28.60 |
| 20-50 | 3038.1 | N.A. | 45.70 |
| 40-70 | 3146.73 | N.A. | 47.40 |
| 60-80 | 1556.41 | N.A. | 23.40 |
| 70-80 | 638.86 | N.A. | 9.60 |
| 80-90 | 233.18 | N.A. | 3.50 |
| 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 | 6645.57 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 185.05 |
| 10-20 | 541.30 |
| 20-30 | 846.00 |
| 30-40 | 1054.45 |
| 40-50 | 1137.65 |
| 50-60 | 1091.54 |
| 60-70 | 917.55 |
| 70-80 | 638.86 |
| 80-90 | 233.18 |
| 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 |

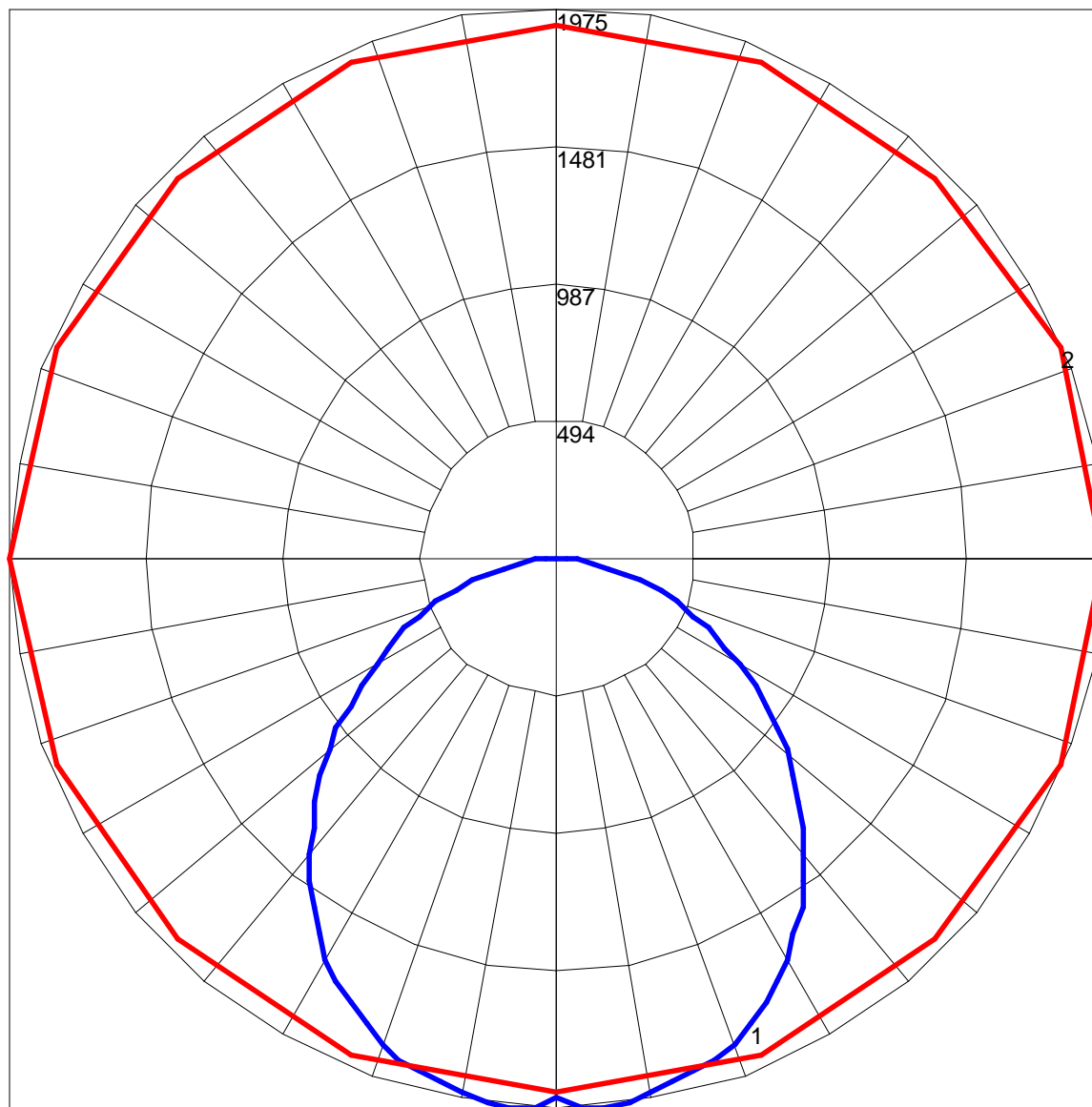
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 107 | 102 | 97 | 93 | 105 | 100 | 95 | 91 | 95 | 92 | 88 | 91 | 88 | 86 | 88 | 85 | 83 | 81 |
| 2 | 97 | 88 | 80 | 74 | 94 | 86 | 79 | 73 | 82 | 76 | 71 | 79 | 74 | 70 | 76 | 72 | 68 | 66 |
| 3 | 88 | 76 | 68 | 61 | 85 | 75 | 67 | 60 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 57 | 55 |
| 4 | 80 | 67 | 58 | 51 | 78 | 66 | 57 | 50 | 63 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 46 |
| 5 | 73 | 60 | 50 | 43 | 71 | 59 | 50 | 43 | 56 | 49 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 39 |
| 6 | 68 | 54 | 44 | 37 | 66 | 53 | 44 | 37 | 51 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 34 |
| 7 | 63 | 48 | 39 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 57 | 43 | 35 | 29 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 26 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 49 | 37 | 29 | 24 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 |

POLAR GRAPH



Maximum Candela = 1974.783 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)