



IES INDOOR REPORT
PHOTOMETRIC FILENAME : DW-LED-HO-WW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4275B
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]02/25/16
[TESTDATE]07/18/13
[MANUFAC]LSI INDUSTRIES, INC
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]SCALED FROM ORIGINAL TEST DATA
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_SEARCH_SOURCE]TYPE] LED
[_SEARCH_APPLICATION] Indoor
[LUMCAT]DW-LED-HO-WW

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6363 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 112 |
| Total Luminaire Watts | 57 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.32 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.79 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5794 | 6390 | 6936 |
| 55 | 5330 | 6284 | 7211 |
| 65 | 4791 | 6217 | 7690 |
| 75 | 4201 | 6575 | 9102 |
| 85 | 3887 | 11209 | 17899 |

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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 | 1918.64 | 1918.64 | 1918.64 | 1918.64 | 1918.64 |
| 2.5 | 1949.96 | 1934.88 | 1917.48 | 1903.56 | 1895.44 |
| 5.0 | 1947.64 | 1931.40 | 1914.00 | 1901.24 | 1893.12 |
| 7.5 | 1933.72 | 1922.12 | 1905.88 | 1894.28 | 1888.48 |
| 10.0 | 1919.80 | 1905.88 | 1894.28 | 1886.16 | 1880.36 |
| 12.5 | 1896.60 | 1887.32 | 1878.04 | 1871.08 | 1867.60 |
| 15.0 | 1871.08 | 1861.80 | 1857.16 | 1854.84 | 1852.52 |
| 17.5 | 1838.60 | 1832.80 | 1832.80 | 1833.96 | 1833.96 |
| 20.0 | 1802.64 | 1799.16 | 1804.96 | 1810.76 | 1813.08 |
| 22.5 | 1760.88 | 1759.72 | 1771.32 | 1784.08 | 1787.56 |
| 25.0 | 1714.48 | 1716.80 | 1735.36 | 1755.08 | 1759.72 |
| 27.5 | 1663.44 | 1671.56 | 1694.76 | 1721.44 | 1731.88 |
| 30.0 | 1608.92 | 1619.36 | 1653.00 | 1685.48 | 1699.40 |
| 32.5 | 1547.44 | 1562.52 | 1606.60 | 1647.20 | 1662.28 |
| 35.0 | 1488.28 | 1508.00 | 1554.40 | 1605.44 | 1621.68 |
| 37.5 | 1417.52 | 1444.20 | 1503.36 | 1563.68 | 1583.40 |
| 40.0 | 1351.40 | 1381.56 | 1448.84 | 1516.12 | 1540.48 |
| 42.5 | 1280.64 | 1311.96 | 1388.52 | 1466.24 | 1488.28 |
| 45.0 | 1206.40 | 1241.20 | 1330.52 | 1415.20 | 1444.20 |
| 47.5 | 1129.84 | 1169.28 | 1264.40 | 1357.20 | 1394.32 |
| 50.0 | 1054.44 | 1095.04 | 1199.44 | 1299.20 | 1335.16 |
| 52.5 | 975.56 | 1019.64 | 1131.00 | 1237.72 | 1276.00 |
| 55.0 | 900.16 | 943.08 | 1061.40 | 1177.40 | 1218.00 |
| 57.5 | 822.44 | 867.68 | 990.64 | 1112.44 | 1154.20 |
| 60.0 | 744.72 | 792.28 | 918.72 | 1046.32 | 1089.24 |
| 62.5 | 673.96 | 718.04 | 847.96 | 977.88 | 1023.12 |
| 65.0 | 596.24 | 646.12 | 773.72 | 910.60 | 957.00 |
| 67.5 | 525.48 | 570.72 | 704.12 | 841.00 | 888.56 |
| 70.0 | 454.72 | 498.80 | 632.20 | 773.72 | 823.60 |
| 72.5 | 385.12 | 431.52 | 564.92 | 706.44 | 756.32 |
| 75.0 | 320.16 | 365.40 | 501.12 | 643.80 | 693.68 |
| 77.5 | 258.68 | 302.76 | 441.96 | 581.16 | 627.56 |
| 80.0 | 200.68 | 247.08 | 386.28 | 522.00 | 570.72 |
| 82.5 | 148.48 | 196.04 | 335.24 | 466.32 | 512.72 |
| 85.0 | 99.76 | 153.12 | 287.68 | 416.44 | 459.36 |
| 87.5 | 55.68 | 116.00 | 245.92 | 366.56 | 408.32 |
| 90.0 | 11.60 | 83.52 | 207.64 | 321.32 | 359.60 |
| 92.5 | 2.32 | 60.32 | 175.16 | 279.56 | 315.52 |
| 95.0 | 4.64 | 42.92 | 143.84 | 240.12 | 273.76 |
| 97.5 | 3.48 | 29.00 | 117.16 | 205.32 | 235.48 |
| 100.0 | 4.64 | 19.72 | 92.80 | 172.84 | 201.84 |
| 102.5 | 3.48 | 13.92 | 73.08 | 143.84 | 168.20 |
| 105.0 | 6.96 | 9.28 | 54.52 | 118.32 | 141.52 |
| 107.5 | 4.64 | 10.44 | 41.76 | 95.12 | 117.16 |
| 110.0 | 4.64 | 9.28 | 32.48 | 76.56 | 93.96 |
| 112.5 | 5.80 | 9.28 | 25.52 | 60.32 | 75.40 |
| 115.0 | 4.64 | 9.28 | 20.88 | 45.24 | 58.00 |
| 117.5 | 5.80 | 9.28 | 17.40 | 34.80 | 46.40 |
| 120.0 | 6.96 | 9.28 | 16.24 | 27.84 | 34.80 |
| 122.5 | 4.64 | 10.44 | 15.08 | 24.36 | 29.00 |
| 125.0 | 3.48 | 10.44 | 15.08 | 22.04 | 24.36 |
| 127.5 | 5.80 | 9.28 | 13.92 | 20.88 | 19.72 |
| 130.0 | 5.80 | 9.28 | 12.76 | 18.56 | 18.56 |
| 132.5 | 6.96 | 8.12 | 13.92 | 17.40 | 16.24 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|-------|------|-------|-------|-------|
| 135.0 | 5.80 | 8.12 | 13.92 | 15.08 | 17.40 |
| 137.5 | 3.48 | 8.12 | 12.76 | 15.08 | 13.92 |
| 140.0 | 5.80 | 8.12 | 11.60 | 13.92 | 16.24 |
| 142.5 | 5.80 | 9.28 | 12.76 | 13.92 | 12.76 |
| 145.0 | 5.80 | 6.96 | 11.60 | 13.92 | 15.08 |
| 147.5 | 6.96 | 8.12 | 12.76 | 12.76 | 12.76 |
| 150.0 | 5.80 | 6.96 | 9.28 | 11.60 | 12.76 |
| 152.5 | 8.12 | 6.96 | 9.28 | 12.76 | 11.60 |
| 155.0 | 5.80 | 8.12 | 9.28 | 11.60 | 12.76 |
| 157.5 | 8.12 | 8.12 | 9.28 | 11.60 | 10.44 |
| 160.0 | 5.80 | 9.28 | 8.12 | 8.12 | 8.12 |
| 162.5 | 6.96 | 6.96 | 9.28 | 8.12 | 9.28 |
| 165.0 | 6.96 | 8.12 | 6.96 | 6.96 | 6.96 |
| 167.5 | 8.12 | 6.96 | 8.12 | 6.96 | 8.12 |
| 170.0 | 8.12 | 8.12 | 6.96 | 5.80 | 5.80 |
| 172.5 | 10.44 | 5.80 | 5.80 | 5.80 | 5.80 |
| 175.0 | 5.80 | 5.80 | 5.80 | 5.80 | 6.96 |
| 177.5 | 8.12 | 6.96 | 6.96 | 6.96 | 5.80 |
| 180.0 | 5.80 | 5.80 | 5.80 | 5.80 | 5.80 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 707.06 | N.A. | 11.10 |
| 0-30 | 1507.39 | N.A. | 23.70 |
| 0-40 | 2480.86 | N.A. | 39.00 |
| 0-60 | 4452.49 | N.A. | 70.00 |
| 0-80 | 5756.67 | N.A. | 90.50 |
| 0-90 | 6069.77 | N.A. | 95.40 |
| 10-90 | 5887.49 | N.A. | 92.50 |
| 20-40 | 1773.8 | N.A. | 27.90 |
| 20-50 | 2797.63 | N.A. | 44.00 |
| 40-70 | 2741.06 | N.A. | 43.10 |
| 60-80 | 1304.18 | N.A. | 20.50 |
| 70-80 | 534.75 | N.A. | 8.40 |
| 80-90 | 313.10 | N.A. | 4.90 |
| 90-110 | 227.52 | N.A. | 3.60 |
| 90-120 | 255.65 | N.A. | 4.00 |
| 90-130 | 269.63 | N.A. | 4.20 |
| 90-150 | 285.80 | N.A. | 4.50 |
| 90-180 | 292.94 | N.A. | 4.60 |
| 110-180 | 65.42 | N.A. | 1.00 |
| 0-180 | 6362.72 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 182.28 |
| 10-20 | 524.77 |
| 20-30 | 800.33 |
| 30-40 | 973.48 |
| 40-50 | 1023.83 |
| 50-60 | 947.80 |
| 60-70 | 769.44 |
| 70-80 | 534.75 |
| 80-90 | 313.10 |
| 90-100 | 157.27 |
| 100-110 | 70.26 |
| 110-120 | 28.12 |
| 120-130 | 13.98 |
| 130-140 | 9.37 |
| 140-150 | 6.79 |
| 150-160 | 4.36 |
| 160-170 | 2.17 |
| 170-180 | 0.62 |

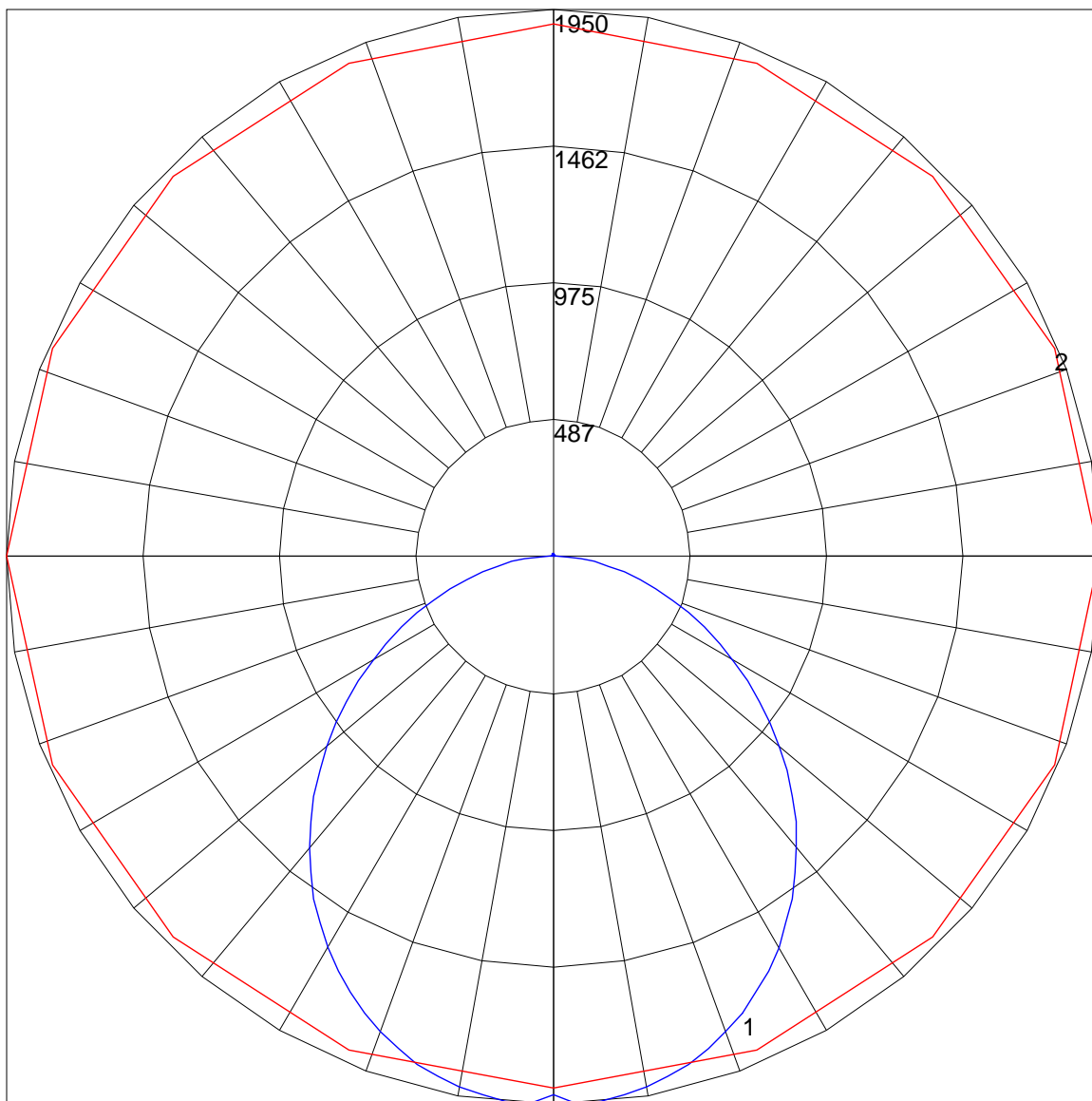
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |
| 1 | 106 | 101 | 96 | 91 | 103 | 98 | 94 | 89 | 93 | 89 | 86 | 88 | 85 | 82 | 84 | 81 | 79 | 77 |
| 2 | 96 | 87 | 80 | 73 | 93 | 85 | 78 | 72 | 80 | 75 | 70 | 76 | 72 | 67 | 73 | 69 | 65 | 63 |
| 3 | 87 | 76 | 67 | 60 | 84 | 74 | 66 | 60 | 70 | 63 | 58 | 67 | 61 | 56 | 64 | 59 | 55 | 52 |
| 4 | 80 | 67 | 58 | 51 | 77 | 65 | 57 | 50 | 62 | 55 | 49 | 59 | 53 | 48 | 57 | 51 | 47 | 44 |
| 5 | 73 | 60 | 50 | 44 | 71 | 58 | 50 | 43 | 56 | 48 | 42 | 53 | 46 | 41 | 51 | 45 | 40 | 38 |
| 6 | 67 | 54 | 44 | 38 | 65 | 52 | 44 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 7 | 62 | 49 | 40 | 33 | 60 | 48 | 39 | 33 | 46 | 38 | 32 | 44 | 37 | 32 | 42 | 36 | 31 | 29 |
| 8 | 58 | 44 | 36 | 30 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 32 | 28 | 26 |
| 9 | 54 | 41 | 32 | 27 | 53 | 40 | 32 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 23 |
| 10 | 51 | 37 | 29 | 24 | 49 | 37 | 29 | 24 | 35 | 28 | 24 | 34 | 28 | 23 | 33 | 27 | 23 | 21 |

POLAR GRAPH



Maximum Candela = 1949.96 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.)