

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-35-B3WB-WH-HO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413212 (SOURCE REPORT BASED FOR REFERENCE  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 8/27/2024  
[MANUFAC] Vode Lighting LLC  
[LUMCAT] 707-Z2-48-Z-35-B3WB-WH-HO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, Zipper Board, 120° White Baffle, White Finish, High Output  
[MORE] 3535 Low Glare, High Output, White  
[TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 3076                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 78                  |
| Total Luminaire Watts           | 39.4                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 0.96                |
| Spacing Criterion (90-270)      | 1.34                |
| Spacing Criterion (Diagonal)    | 1.20                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.00 ft             |
| Luminous Width (90-270)         | 0.13 ft             |
| Luminous Height                 | 0.13 ft             |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 15500            | 12237             | 11558             |
| 55                  | 12177            | 7177              | 7166              |
| 65                  | 9648             | 4204              | 4051              |
| 75                  | 6093             | 1753              | 1572              |
| 85                  | 1644             | 241               | 254               |

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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> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|-------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>  | 1597.9     | 1597.9      | 1597.9      | 1597.9      | 1597.9      | 1597.9       | 1597.9       | 1597.9       | 1597.9       |
| <b>2.5</b>  | 1582.7     | 1586.5      | 1590.3      | 1599.8      | 1603.6      | 1599.8       | 1592.2       | 1584.6       | 1580.8       |
| <b>5.0</b>  | 1550.4     | 1561.8      | 1580.8      | 1599.8      | 1611.2      | 1601.7       | 1578.9       | 1556.1       | 1550.4       |
| <b>7.5</b>  | 1510.5     | 1529.5      | 1563.7      | 1605.5      | 1624.5      | 1603.6       | 1561.8       | 1521.9       | 1512.4       |
| <b>10.0</b> | 1463.0     | 1487.7      | 1542.8      | 1605.5      | 1635.9      | 1601.7       | 1540.9       | 1489.6       | 1472.5       |
| <b>12.5</b> | 1407.9     | 1442.1      | 1516.2      | 1601.7      | 1645.4      | 1596.0       | 1518.1       | 1444.0       | 1421.2       |
| <b>15.0</b> | 1350.9     | 1392.7      | 1483.9      | 1597.9      | 1654.9      | 1590.3       | 1489.6       | 1396.5       | 1364.2       |
| <b>17.5</b> | 1286.3     | 1339.5      | 1449.7      | 1586.5      | 1658.7      | 1577.0       | 1453.5       | 1341.4       | 1295.8       |
| <b>20.0</b> | 1223.6     | 1282.5      | 1411.7      | 1571.3      | 1660.6      | 1559.9       | 1415.5       | 1278.7       | 1235.0       |
| <b>22.5</b> | 1159.0     | 1221.7      | 1364.2      | 1550.4      | 1658.7      | 1540.9       | 1366.1       | 1221.7       | 1172.3       |
| <b>25.0</b> | 1088.7     | 1157.1      | 1314.8      | 1521.9      | 1643.5      | 1508.6       | 1311.0       | 1157.1       | 1098.2       |
| <b>27.5</b> | 1022.2     | 1094.4      | 1257.8      | 1483.9      | 1611.2      | 1463.0       | 1257.8       | 1084.9       | 1029.8       |
| <b>30.0</b> | 955.7      | 1026.0      | 1198.9      | 1430.7      | 1550.4      | 1404.1       | 1200.8       | 1016.5       | 961.4        |
| <b>32.5</b> | 885.4      | 957.6       | 1134.3      | 1360.4      | 1455.4      | 1324.3       | 1130.5       | 944.3        | 889.2        |
| <b>35.0</b> | 815.1      | 885.4       | 1064.0      | 1265.4      | 1330.0      | 1216.0       | 1054.5       | 872.1        | 818.9        |
| <b>37.5</b> | 748.6      | 813.2       | 986.1       | 1149.5      | 1183.7      | 1096.3       | 980.4        | 798.0        | 752.4        |
| <b>40.0</b> | 682.1      | 742.9       | 900.6       | 1027.9      | 1037.4      | 969.0        | 893.0        | 723.9        | 682.1        |
| <b>42.5</b> | 611.8      | 670.7       | 811.3       | 898.7       | 906.3       | 847.4        | 799.9        | 649.8        | 615.6        |
| <b>45.0</b> | 547.2      | 598.5       | 723.9       | 784.7       | 790.4       | 741.0        | 710.6        | 577.6        | 545.3        |
| <b>47.5</b> | 484.5      | 526.3       | 632.7       | 684.0       | 693.5       | 646.0        | 619.4        | 507.3        | 480.7        |
| <b>50.0</b> | 433.2      | 457.9       | 549.1       | 596.6       | 611.8       | 568.1        | 535.8        | 440.8        | 433.2        |
| <b>52.5</b> | 391.4      | 406.6       | 475.0       | 524.4       | 545.3       | 497.8        | 461.7        | 391.4        | 391.4        |
| <b>55.0</b> | 353.4      | 364.8       | 406.6       | 459.8       | 482.6       | 438.9        | 399.0        | 353.4        | 353.4        |
| <b>57.5</b> | 319.2      | 324.9       | 349.6       | 402.8       | 427.5       | 383.8        | 345.8        | 313.5        | 315.4        |
| <b>60.0</b> | 281.2      | 286.9       | 302.1       | 351.5       | 372.4       | 334.4        | 298.3        | 275.5        | 281.2        |
| <b>62.5</b> | 241.3      | 250.8       | 260.3       | 300.2       | 315.4       | 283.1        | 256.5        | 241.3        | 241.3        |
| <b>65.0</b> | 210.9      | 214.7       | 220.4       | 250.8       | 260.3       | 233.7        | 214.7        | 203.3        | 210.9        |
| <b>67.5</b> | 178.6      | 182.4       | 182.4       | 205.2       | 209.0       | 191.9        | 178.6        | 171.0        | 174.8        |
| <b>70.0</b> | 142.5      | 146.3       | 146.3       | 163.4       | 165.3       | 148.2        | 144.4        | 136.8        | 140.6        |
| <b>72.5</b> | 114.0      | 114.0       | 110.2       | 123.5       | 125.4       | 114.0        | 108.3        | 104.5        | 112.1        |
| <b>75.0</b> | 85.5       | 83.6        | 81.7        | 91.2        | 93.1        | 81.7         | 81.7         | 77.9         | 85.5         |
| <b>77.5</b> | 60.8       | 60.8        | 58.9        | 64.6        | 66.5        | 57.0         | 57.0         | 53.2         | 57.0         |
| <b>80.0</b> | 38.0       | 38.0        | 38.0        | 43.7        | 43.7        | 38.0         | 36.1         | 34.2         | 38.0         |
| <b>82.5</b> | 22.8       | 22.8        | 20.9        | 26.6        | 28.5        | 22.8         | 20.9         | 19.0         | 19.0         |
| <b>85.0</b> | 9.5        | 9.5         | 9.5         | 15.2        | 13.3        | 9.5          | 9.5          | 5.7          | 9.5          |
| <b>87.5</b> | 0.0        | 0.0         | 3.8         | 5.7         | 5.7         | 3.8          | 3.8          | 0.0          | 0.0          |
| <b>90.0</b> | 0.0        | 0.0         | 0.0         | 0.0         | 0.0         | 0.0          | 0.0          | 0.0          | 0.0          |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 570.86  | N.A.  | 18.60  |
| 0-30    | 1185.37 | N.A.  | 38.50  |
| 0-40    | 1845.31 | N.A.  | 60.00  |
| 0-60    | 2742.5  | N.A.  | 89.20  |
| 0-80    | 3060.69 | N.A.  | 99.50  |
| 0-90    | 3075.69 | N.A.  | 100.00 |
| 10-90   | 2925.9  | N.A.  | 95.10  |
| 20-40   | 1274.45 | N.A.  | 41.40  |
| 20-50   | 1804.34 | N.A.  | 58.70  |
| 40-70   | 1122.67 | N.A.  | 36.50  |
| 60-80   | 318.18  | N.A.  | 10.30  |
| 70-80   | 92.71   | N.A.  | 3.00   |
| 80-90   | 15.01   | N.A.  | 0.50   |
| 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   | 3075.69 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 149.80 |
| 10-20   | 421.07 |
| 20-30   | 614.51 |
| 30-40   | 659.94 |
| 40-50   | 529.89 |
| 50-60   | 367.30 |
| 60-70   | 225.48 |
| 70-80   | 92.71  |
| 80-90   | 15.01  |
| 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  | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 96  | 97  | 95  | 93  | 93  | 91  | 90  | 88  |
| 2  | 102 | 95  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |
| 3  | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 72  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |
| 4  | 88  | 77  | 69  | 64  | 85  | 76  | 69  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |
| 5  | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |
| 6  | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 54  | 49  | 58  | 53  | 49  | 47  |
| 7  | 71  | 58  | 50  | 45  | 69  | 58  | 50  | 45  | 56  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 44  | 42  |
| 8  | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 40  | 52  | 45  | 40  | 51  | 45  | 40  | 49  | 44  | 40  | 38  |
| 9  | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 36  | 35  |
| 10 | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 37  | 33  | 32  |

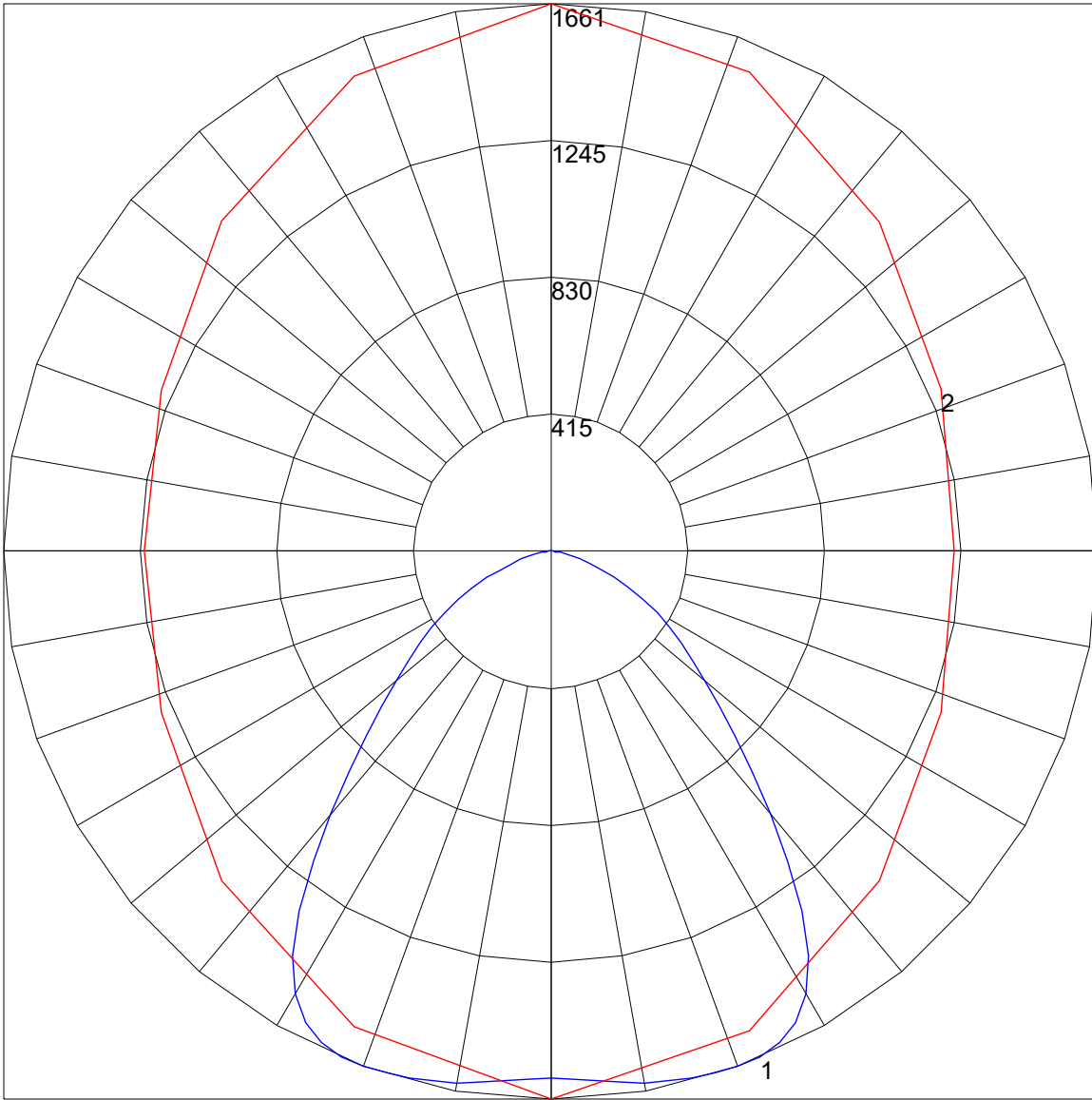
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**UGR TABLE - CORRECTED**

| Reflectances   |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity | 70   | 70                   | 50   | 50   | 30   | 70   | 70                 | 50   | 50   | 30   |      |
| Walls          | 50   | 30                   | 50   | 30   | 30   | 50   | 30                 | 50   | 30   | 30   |      |
| Floor Cavity   | 20   | 20                   | 20   | 20   | 20   | 20   | 20                 | 20   | 20   | 20   |      |
| Room Size      |      | UGR Viewed Crosswise |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
| X=2H           | Y=2H | 16.4                 | 17.8 | 16.7 | 18.1 | 18.4 | 19.5               | 21.0 | 19.9 | 21.3 | 21.6 |
|                | 3H   | 17.3                 | 18.6 | 17.7 | 18.9 | 19.3 | 20.6               | 21.9 | 21.0 | 22.2 | 22.6 |
|                | 4H   | 17.5                 | 18.7 | 17.9 | 19.1 | 19.4 | 20.8               | 22.0 | 21.2 | 22.4 | 22.8 |
|                | 6H   | 17.6                 | 18.7 | 18.0 | 19.0 | 19.4 | 21.0               | 22.1 | 21.4 | 22.4 | 22.8 |
|                | 8H   | 17.5                 | 18.6 | 18.0 | 19.0 | 19.4 | 21.0               | 22.0 | 21.4 | 22.4 | 22.8 |
|                | 12H  | 17.5                 | 18.5 | 18.0 | 18.9 | 19.3 | 21.0               | 22.0 | 21.4 | 22.3 | 22.8 |
| 4H             | 2H   | 16.9                 | 18.1 | 17.3 | 18.4 | 18.8 | 19.6               | 20.8 | 20.0 | 21.2 | 21.5 |
|                | 3H   | 17.9                 | 18.9 | 18.4 | 19.3 | 19.7 | 20.8               | 21.8 | 21.2 | 22.2 | 22.6 |
|                | 4H   | 18.2                 | 19.1 | 18.6 | 19.5 | 19.9 | 21.1               | 22.0 | 21.5 | 22.4 | 22.8 |
|                | 6H   | 18.3                 | 19.0 | 18.7 | 19.5 | 19.9 | 21.2               | 22.0 | 21.7 | 22.5 | 22.9 |
|                | 8H   | 18.2                 | 19.0 | 18.7 | 19.4 | 19.9 | 21.2               | 22.0 | 21.7 | 22.4 | 22.9 |
|                | 12H  | 18.2                 | 18.9 | 18.7 | 19.3 | 19.8 | 21.2               | 21.9 | 21.7 | 22.4 | 22.8 |
| 8H             | 4H   | 18.3                 | 19.0 | 18.7 | 19.4 | 19.9 | 21.0               | 21.8 | 21.5 | 22.2 | 22.7 |
|                | 6H   | 18.4                 | 19.0 | 18.9 | 19.5 | 19.9 | 21.2               | 21.8 | 21.7 | 22.3 | 22.8 |
|                | 8H   | 18.4                 | 18.9 | 18.9 | 19.4 | 19.9 | 21.2               | 21.8 | 21.7 | 22.3 | 22.8 |
|                | 12H  | 18.3                 | 18.8 | 18.8 | 19.3 | 19.9 | 21.2               | 21.7 | 21.7 | 22.2 | 22.8 |
| 12H            | 4H   | 18.2                 | 18.9 | 18.7 | 19.4 | 19.8 | 21.0               | 21.6 | 21.5 | 22.1 | 22.6 |
|                | 6H   | 18.3                 | 18.9 | 18.9 | 19.3 | 19.9 | 21.2               | 21.7 | 21.7 | 22.2 | 22.7 |
|                | 8H   | 18.3                 | 18.8 | 18.9 | 19.3 | 19.9 | 21.2               | 21.7 | 21.7 | 22.2 | 22.7 |

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1660.6 Located At Horizontal Angle = 90, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)