

IES Report

ZipTwo® | 707 | Micro 3508, 85° Asymmetric | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-A1-X-WH-0

| | 2700K | 3000K | 3500K | 4000K |
|--|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 62 | 62 | 65 | 66 |
| Total Lumens, 4' rail length (1219mm) | 2437 | 2437 | 2565 | 2591 |
| Lumens per foot (305mm) | 609 | 609 | 641 | 648 |
| Input Power (W), 4' rail length (1219mm) | 39.6 | 39.6 | 39.6 | 39.6 |
| Watts per foot (305mm) | 9.9 | 9.9 | 9.9 | 9.9 |
| CRI | 94 | 94 | 94 | 95 |

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911525 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-359-A1-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, micro 3508, 85° asymmetric lens,

[MORE] high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2565 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 65 |
| Total Luminaire Watts | 39.55 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 2.40 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.60 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.04 ft |
| Luminous Width (90-270) | 3.98 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 147764 | 114421 | 37103 |
| 55 | 138512 | 101211 | 31570 |
| 65 | 120099 | 84347 | 27272 |
| 75 | 101598 | 70029 | 23035 |
| 85 | 101933 | 64220 | 15985 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 |
| 5 | 904.290 | 903.915 | 901.530 | 897.885 | 892.860 | 886.560 | 878.775 | 869.595 | 859.155 | 848.220 |
| 10 | 1133.385 | 1131.120 | 1125.345 | 1116.915 | 1104.975 | 1089.885 | 1071.525 | 1049.895 | 1025.625 | 1000.110 |
| 15 | 1351.920 | 1349.145 | 1340.850 | 1328.145 | 1310.175 | 1286.400 | 1258.365 | 1224.420 | 1187.070 | 1146.585 |
| 20 | 1536.000 | 1532.220 | 1522.665 | 1506.315 | 1483.680 | 1454.265 | 1418.310 | 1375.050 | 1325.265 | 1271.700 |
| 25 | 1664.490 | 1659.975 | 1649.535 | 1631.805 | 1607.040 | 1573.710 | 1533.225 | 1483.560 | 1427.355 | 1361.970 |
| 30 | 1729.875 | 1726.350 | 1715.040 | 1696.560 | 1671.795 | 1635.450 | 1590.810 | 1538.385 | 1477.530 | 1404.480 |
| 35 | 1730.130 | 1726.980 | 1716.300 | 1697.820 | 1671.915 | 1635.825 | 1589.175 | 1533.600 | 1469.100 | 1391.265 |
| 40 | 1667.265 | 1663.740 | 1653.930 | 1636.335 | 1609.680 | 1573.590 | 1525.815 | 1468.215 | 1400.325 | 1321.485 |
| 45 | 1546.800 | 1543.290 | 1533.480 | 1516.125 | 1490.850 | 1454.265 | 1405.095 | 1346.505 | 1277.100 | 1197.765 |
| 50 | 1377.810 | 1374.795 | 1365.615 | 1349.520 | 1324.125 | 1288.035 | 1241.520 | 1181.790 | 1111.755 | 1035.180 |
| 55 | 1176.135 | 1173.750 | 1166.325 | 1151.490 | 1127.100 | 1093.155 | 1049.400 | 992.940 | 928.815 | 859.410 |
| 60 | 962.385 | 959.745 | 953.085 | 940.260 | 918.375 | 888.075 | 849.225 | 799.935 | 744.735 | 686.145 |
| 65 | 751.395 | 749.520 | 744.105 | 732.915 | 714.435 | 689.535 | 657.345 | 617.370 | 573.480 | 527.715 |
| 70 | 557.265 | 555.885 | 550.725 | 542.055 | 527.715 | 508.095 | 483.585 | 455.415 | 422.475 | 388.530 |
| 75 | 389.280 | 388.020 | 384.255 | 377.460 | 366.780 | 352.320 | 334.200 | 313.590 | 291.210 | 268.320 |
| 80 | 245.190 | 244.050 | 241.290 | 236.505 | 228.720 | 218.910 | 206.835 | 193.515 | 179.175 | 164.715 |
| 85 | 131.520 | 130.890 | 128.880 | 125.610 | 120.585 | 114.420 | 107.250 | 99.465 | 91.290 | 82.860 |
| 90 | 54.060 | 53.685 | 52.560 | 50.550 | 47.910 | 44.640 | 41.115 | 36.960 | 32.940 | 29.040 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles **Horizontal Angles**

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> | <u>95</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 |
| 5 | 836.025 | 822.825 | 809.610 | 795.660 | 781.080 | 766.740 | 751.905 | 737.070 | 722.100 | 707.265 |
| 10 | 971.565 | 941.895 | 909.960 | 877.005 | 844.575 | 811.875 | 778.185 | 745.110 | 713.550 | 681.495 |
| 15 | 1100.700 | 1053.420 | 1003.245 | 950.565 | 899.145 | 847.455 | 793.770 | 744.735 | 697.200 | 649.800 |
| 20 | 1210.965 | 1148.355 | 1079.445 | 1008.660 | 938.865 | 869.220 | 797.295 | 732.540 | 671.175 | 610.830 |
| 25 | 1289.295 | 1212.855 | 1129.230 | 1042.350 | 956.850 | 871.605 | 784.470 | 706.260 | 633.705 | 564.180 |
| 30 | 1322.865 | 1236.870 | 1141.815 | 1042.605 | 944.655 | 845.445 | 750.135 | 663.630 | 584.295 | 510.360 |
| 35 | 1303.380 | 1210.215 | 1108.245 | 1001.490 | 897.510 | 792.645 | 693.180 | 603.915 | 524.445 | 451.140 |
| 40 | 1227.945 | 1132.260 | 1027.140 | 919.635 | 816.030 | 712.920 | 616.365 | 531.735 | 457.170 | 389.535 |
| 45 | 1104.840 | 1010.040 | 909.330 | 807.105 | 710.280 | 616.605 | 529.470 | 454.035 | 388.395 | 329.925 |
| 50 | 949.050 | 862.545 | 774.030 | 680.730 | 597.240 | 518.415 | 443.595 | 380.850 | 325.650 | 277.380 |
| 55 | 783.960 | 706.140 | 631.440 | 558.765 | 487.605 | 425.490 | 365.010 | 313.455 | 268.065 | 228.840 |
| 60 | 624.405 | 561.795 | 502.065 | 440.325 | 391.920 | 340.245 | 293.085 | 252.855 | 216.765 | 185.715 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 65 | 481.200 | 433.665 | 388.650 | 345.150 | 302.520 | 263.790 | 229.470 | 198.285 | 170.625 | 146.985 |
| 70 | 354.825 | 320.250 | 287.055 | 254.745 | 225.315 | 196.785 | 171.510 | 148.365 | 127.500 | 110.775 |
| 75 | 244.425 | 220.920 | 198.540 | 176.415 | 156.165 | 136.545 | 118.200 | 102.345 | 88.260 | 76.320 |
| 80 | 149.880 | 135.165 | 121.080 | 107.250 | 94.560 | 82.110 | 70.545 | 60.225 | 51.180 | 44.265 |
| 85 | 74.820 | 66.645 | 58.590 | 51.045 | 44.010 | 37.215 | 30.675 | 25.275 | 20.625 | 17.730 |
| 90 | 25.155 | 21.255 | 17.475 | 13.830 | 10.695 | 7.545 | 4.905 | 2.760 | 1.635 | 1.515 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles **Horizontal Angles**

| | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 |
| 5 | 693.060 | 679.350 | 665.775 | 653.445 | 640.875 | 629.820 | 619.755 | 609.945 | 601.275 | 593.730 |
| 10 | 652.320 | 624.660 | 598.005 | 572.985 | 550.845 | 530.235 | 511.500 | 494.400 | 479.805 | 466.860 |
| 15 | 607.680 | 568.455 | 531.870 | 498.795 | 469.995 | 444.105 | 421.470 | 400.470 | 383.490 | 368.910 |
| 20 | 558.525 | 509.985 | 468.615 | 430.515 | 398.715 | 371.430 | 347.415 | 327.165 | 311.205 | 297.240 |
| 25 | 505.455 | 452.775 | 408.390 | 369.660 | 338.235 | 312.210 | 290.700 | 272.100 | 258.135 | 247.200 |
| 30 | 449.505 | 396.195 | 352.815 | 315.975 | 287.310 | 264.300 | 246.060 | 231.105 | 220.035 | 210.735 |
| 35 | 392.175 | 341.880 | 302.265 | 270.585 | 245.565 | 226.320 | 210.990 | 198.915 | 190.110 | 183.075 |
| 40 | 336.225 | 291.840 | 257.760 | 231.105 | 209.985 | 194.265 | 181.935 | 172.515 | 165.600 | 160.440 |
| 45 | 284.295 | 246.825 | 218.400 | 196.530 | 179.175 | 166.605 | 156.795 | 149.505 | 144.225 | 140.070 |
| 50 | 239.535 | 208.470 | 185.085 | 166.605 | 153.270 | 142.710 | 135.165 | 129.630 | 125.730 | 122.475 |
| 55 | 198.285 | 174.015 | 154.035 | 139.695 | 130.005 | 121.215 | 114.930 | 110.265 | 106.755 | 104.115 |
| 60 | 161.445 | 142.335 | 128.625 | 115.800 | 106.875 | 100.080 | 95.055 | 91.290 | 88.515 | 86.130 |
| 65 | 131.640 | 113.535 | 101.475 | 92.550 | 85.380 | 80.100 | 76.065 | 72.930 | 70.410 | 68.655 |
| 70 | 97.065 | 85.755 | 76.950 | 70.155 | 64.755 | 60.735 | 57.585 | 54.945 | 53.190 | 51.555 |
| 75 | 66.765 | 58.965 | 53.190 | 48.660 | 44.760 | 42.120 | 39.855 | 38.100 | 36.720 | 35.715 |
| 80 | 38.730 | 34.200 | 31.065 | 28.545 | 26.400 | 24.900 | 23.640 | 22.635 | 21.885 | 21.255 |
| 85 | 15.585 | 13.950 | 12.825 | 11.820 | 11.190 | 10.560 | 10.185 | 9.810 | 9.675 | 9.435 |
| 90 | 1.515 | 1.260 | 1.125 | 1.005 | 1.005 | 0.885 | 0.750 | 0.750 | 0.750 | 0.750 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Horizontal Angles
Angles

| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 | 724.305 |
| 5 | 586.935 | 581.160 | 576.885 | 572.730 | 570.345 | 568.710 | 568.080 |
| 10 | 455.415 | 446.490 | 438.825 | 432.780 | 428.760 | 426.120 | 425.235 |
| 15 | 356.205 | 346.530 | 338.235 | 332.325 | 328.050 | 325.410 | 324.645 |
| 20 | 285.795 | 277.125 | 270.075 | 264.930 | 261.150 | 259.140 | 258.270 |
| 25 | 238.020 | 230.850 | 225.315 | 221.175 | 218.535 | 217.020 | 216.270 |
| 30 | 203.700 | 198.405 | 194.130 | 191.115 | 189.105 | 187.845 | 187.605 |
| 35 | 177.795 | 173.775 | 170.625 | 168.240 | 166.860 | 166.095 | 165.720 |
| 40 | 156.165 | 153.270 | 151.005 | 149.370 | 148.365 | 147.735 | 147.615 |
| 45 | 137.055 | 134.790 | 133.275 | 131.895 | 131.145 | 130.890 | 130.770 |
| 50 | 119.955 | 118.320 | 117.060 | 116.055 | 115.545 | 115.305 | 115.170 |
| 55 | 102.105 | 100.710 | 99.705 | 98.835 | 98.325 | 98.070 | 98.070 |
| 60 | 84.375 | 83.115 | 82.230 | 81.480 | 80.970 | 80.730 | 80.730 |
| 65 | 67.020 | 66.015 | 65.130 | 64.500 | 64.005 | 63.870 | 63.870 |
| 70 | 50.415 | 49.545 | 48.780 | 48.285 | 47.910 | 47.655 | 47.535 |
| 75 | 34.830 | 34.200 | 33.570 | 33.195 | 32.940 | 32.820 | 32.685 |
| 80 | 20.745 | 20.370 | 19.995 | 19.740 | 19.485 | 19.485 | 19.365 |
| 85 | 9.300 | 9.180 | 8.925 | 8.925 | 8.925 | 8.805 | 8.805 |
| 90 | 0.750 | 0.750 | 0.750 | 0.750 | 0.750 | 0.750 | 0.750 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 288.87 | N.A. | 11.30 |
| 0-30 | 657.97 | N.A. | 25.70 |
| 0-40 | 1134.43 | N.A. | 44.20 |
| 0-60 | 2048.64 | N.A. | 79.90 |
| 0-80 | 2506.19 | N.A. | 97.70 |
| 0-90 | 2560.87 | N.A. | 99.80 |
| 10-90 | 2490.7 | N.A. | 97.10 |
| 20-40 | 845.56 | N.A. | 33.00 |
| 20-50 | 1339.72 | N.A. | 52.20 |
| 40-70 | 1209.07 | N.A. | 47.10 |
| 60-80 | 457.55 | N.A. | 17.80 |
| 70-80 | 162.69 | N.A. | 6.30 |
| 80-90 | 54.68 | N.A. | 2.10 |
| 90-110 | 4.09 | N.A. | 0.20 |
| 90-120 | 4.09 | N.A. | 0.20 |
| 90-130 | 4.09 | N.A. | 0.20 |
| 90-150 | 4.09 | N.A. | 0.20 |
| 90-180 | 4.09 | N.A. | 0.20 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 2564.96 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 70.17 |
| 10-20 | 218.70 |
| 20-30 | 369.10 |
| 30-40 | 476.46 |
| 40-50 | 494.17 |
| 50-60 | 420.04 |
| 60-70 | 294.86 |
| 70-80 | 162.69 |
| 80-90 | 54.68 |
| 90-100 | 4.09 |
| 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 |

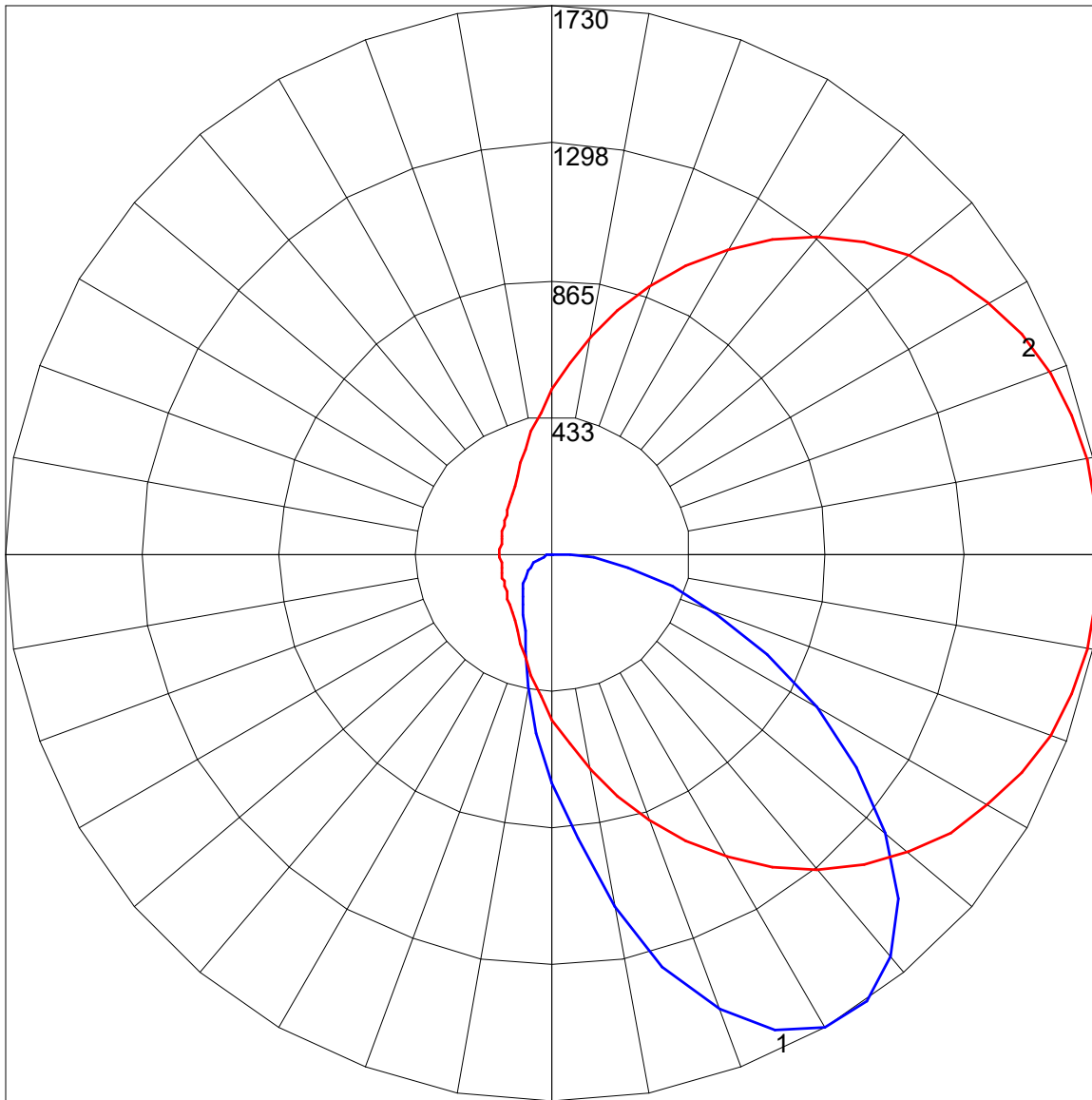
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1.IES

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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 70 |
| 3 | 90 | 79 | 71 | 65 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 58 |
| 4 | 82 | 70 | 61 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | 64 | 58 | 53 | 62 | 56 | 52 | 50 |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 47 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

POLAR GRAPH



Maximum Candela = 1730.13 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)