

IES Report

ZipTwo® | 707 | 85° Asymmetric | 90 CRI | LO

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

| | 2700K | 3000K | 3500K | 4000K |
|--|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 55 | 57 | 58 | 58 |
| Total Lumens, 4' rail length (1219mm) | 812 | 838 | 855 | 864 |
| Lumens per foot (305mm) | 203 | 209 | 214 | 216 |
| Input Power (W), 4' rail length (1219mm) | 14.9 | 14.9 | 14.9 | 14.9 |
| Watts per foot (305mm) | 3.8 | 3.8 | 3.8 | 3.8 |
| CRI | 94 | 94 | 94 | 94 |

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_LO_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-LO-359-A1-AL

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

[MORE] low 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 | 855 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 57 |
| Total Luminaire Watts | 14.89 |
| 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 | 49255 | 38140 | 12368 |
| 55 | 46171 | 33737 | 10523 |
| 65 | 40033 | 28116 | 9091 |
| 75 | 33866 | 23343 | 7678 |
| 85 | 33978 | 21407 | 5328 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_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 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 |
| 5 | 301.430 | 301.305 | 300.510 | 299.295 | 297.620 | 295.520 | 292.925 | 289.865 | 286.385 | 282.740 |
| 10 | 377.795 | 377.040 | 375.115 | 372.305 | 368.325 | 363.295 | 357.175 | 349.965 | 341.875 | 333.370 |
| 15 | 450.640 | 449.715 | 446.950 | 442.715 | 436.725 | 428.800 | 419.455 | 408.140 | 395.690 | 382.195 |
| 20 | 512.000 | 510.740 | 507.555 | 502.105 | 494.560 | 484.755 | 472.770 | 458.350 | 441.755 | 423.900 |
| 25 | 554.830 | 553.325 | 549.845 | 543.935 | 535.680 | 524.570 | 511.075 | 494.520 | 475.785 | 453.990 |
| 30 | 576.625 | 575.450 | 571.680 | 565.520 | 557.265 | 545.150 | 530.270 | 512.795 | 492.510 | 468.160 |
| 35 | 576.710 | 575.660 | 572.100 | 565.940 | 557.305 | 545.275 | 529.725 | 511.200 | 489.700 | 463.755 |
| 40 | 555.755 | 554.580 | 551.310 | 545.445 | 536.560 | 524.530 | 508.605 | 489.405 | 466.775 | 440.495 |
| 45 | 515.600 | 514.430 | 511.160 | 505.375 | 496.950 | 484.755 | 468.365 | 448.835 | 425.700 | 399.255 |
| 50 | 459.270 | 458.265 | 455.205 | 449.840 | 441.375 | 429.345 | 413.840 | 393.930 | 370.585 | 345.060 |
| 55 | 392.045 | 391.250 | 388.775 | 383.830 | 375.700 | 364.385 | 349.800 | 330.980 | 309.605 | 286.470 |
| 60 | 320.795 | 319.915 | 317.695 | 313.420 | 306.125 | 296.025 | 283.075 | 266.645 | 248.245 | 228.715 |
| 65 | 250.465 | 249.840 | 248.035 | 244.305 | 238.145 | 229.845 | 219.115 | 205.790 | 191.160 | 175.905 |
| 70 | 185.755 | 185.295 | 183.575 | 180.685 | 175.905 | 169.365 | 161.195 | 151.805 | 140.825 | 129.510 |
| 75 | 129.760 | 129.340 | 128.085 | 125.820 | 122.260 | 117.440 | 111.400 | 104.530 | 97.070 | 89.440 |
| 80 | 81.730 | 81.350 | 80.430 | 78.835 | 76.240 | 72.970 | 68.945 | 64.505 | 59.725 | 54.905 |
| 85 | 43.840 | 43.630 | 42.960 | 41.870 | 40.195 | 38.140 | 35.750 | 33.155 | 30.430 | 27.620 |
| 90 | 18.020 | 17.895 | 17.520 | 16.850 | 15.970 | 14.880 | 13.705 | 12.320 | 10.980 | 9.680 |
| 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 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 |
| 5 | 278.675 | 274.275 | 269.870 | 265.220 | 260.360 | 255.580 | 250.635 | 245.690 | 240.700 | 235.755 |
| 10 | 323.855 | 313.965 | 303.320 | 292.335 | 281.525 | 270.625 | 259.395 | 248.370 | 237.850 | 227.165 |
| 15 | 366.900 | 351.140 | 334.415 | 316.855 | 299.715 | 282.485 | 264.590 | 248.245 | 232.400 | 216.600 |
| 20 | 403.655 | 382.785 | 359.815 | 336.220 | 312.955 | 289.740 | 265.765 | 244.180 | 223.725 | 203.610 |
| 25 | 429.765 | 404.285 | 376.410 | 347.450 | 318.950 | 290.535 | 261.490 | 235.420 | 211.235 | 188.060 |
| 30 | 440.955 | 412.290 | 380.605 | 347.535 | 314.885 | 281.815 | 250.045 | 221.210 | 194.765 | 170.120 |
| 35 | 434.460 | 403.405 | 369.415 | 333.830 | 299.170 | 264.215 | 231.060 | 201.305 | 174.815 | 150.380 |
| 40 | 409.315 | 377.420 | 342.380 | 306.545 | 272.010 | 237.640 | 205.455 | 177.245 | 152.390 | 129.845 |
| 45 | 368.280 | 336.680 | 303.110 | 269.035 | 236.760 | 205.535 | 176.490 | 151.345 | 129.465 | 109.975 |
| 50 | 316.350 | 287.515 | 258.010 | 226.910 | 199.080 | 172.805 | 147.865 | 126.950 | 108.550 | 92.460 |
| 55 | 261.320 | 235.380 | 210.480 | 186.255 | 162.535 | 141.830 | 121.670 | 104.485 | 89.355 | 76.280 |
| 60 | 208.135 | 187.265 | 167.355 | 146.775 | 130.640 | 113.415 | 97.695 | 84.285 | 72.255 | 61.905 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_A1.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 65 | 160.400 | 144.555 | 129.550 | 115.050 | 100.840 | 87.930 | 76.490 | 66.095 | 56.875 | 48.995 |
| 70 | 118.275 | 106.750 | 95.685 | 84.915 | 75.105 | 65.595 | 57.170 | 49.455 | 42.500 | 36.925 |
| 75 | 81.475 | 73.640 | 66.180 | 58.805 | 52.055 | 45.515 | 39.400 | 34.115 | 29.420 | 25.440 |
| 80 | 49.960 | 45.055 | 40.360 | 35.750 | 31.520 | 27.370 | 23.515 | 20.075 | 17.060 | 14.755 |
| 85 | 24.940 | 22.215 | 19.530 | 17.015 | 14.670 | 12.405 | 10.225 | 8.425 | 6.875 | 5.910 |
| 90 | 8.385 | 7.085 | 5.825 | 4.610 | 3.565 | 2.515 | 1.635 | 0.920 | 0.545 | 0.505 |
| 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. Horizontal Angles
Angles

| | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 |
| 5 | 231.020 | 226.450 | 221.925 | 217.815 | 213.625 | 209.940 | 206.585 | 203.315 | 200.425 | 197.910 |
| 10 | 217.440 | 208.220 | 199.335 | 190.995 | 183.615 | 176.745 | 170.500 | 164.800 | 159.935 | 155.620 |
| 15 | 202.560 | 189.485 | 177.290 | 166.265 | 156.665 | 148.035 | 140.490 | 133.490 | 127.830 | 122.970 |
| 20 | 186.175 | 169.995 | 156.205 | 143.505 | 132.905 | 123.810 | 115.805 | 109.055 | 103.735 | 99.080 |
| 25 | 168.485 | 150.925 | 136.130 | 123.220 | 112.745 | 104.070 | 96.900 | 90.700 | 86.045 | 82.400 |
| 30 | 149.835 | 132.065 | 117.605 | 105.325 | 95.770 | 88.100 | 82.020 | 77.035 | 73.345 | 70.245 |
| 35 | 130.725 | 113.960 | 100.755 | 90.195 | 81.855 | 75.440 | 70.330 | 66.305 | 63.370 | 61.025 |
| 40 | 112.075 | 97.280 | 85.920 | 77.035 | 69.995 | 64.755 | 60.645 | 57.505 | 55.200 | 53.480 |
| 45 | 94.765 | 82.275 | 72.800 | 65.510 | 59.725 | 55.535 | 52.265 | 49.835 | 48.075 | 46.690 |
| 50 | 79.845 | 69.490 | 61.695 | 55.535 | 51.090 | 47.570 | 45.055 | 43.210 | 41.910 | 40.825 |
| 55 | 66.095 | 58.005 | 51.345 | 46.565 | 43.335 | 40.405 | 38.310 | 36.755 | 35.585 | 34.705 |
| 60 | 53.815 | 47.445 | 42.875 | 38.600 | 35.625 | 33.360 | 31.685 | 30.430 | 29.505 | 28.710 |
| 65 | 43.880 | 37.845 | 33.825 | 30.850 | 28.460 | 26.700 | 25.355 | 24.310 | 23.470 | 22.885 |
| 70 | 32.355 | 28.585 | 25.650 | 23.385 | 21.585 | 20.245 | 19.195 | 18.315 | 17.730 | 17.185 |
| 75 | 22.255 | 19.655 | 17.730 | 16.220 | 14.920 | 14.040 | 13.285 | 12.700 | 12.240 | 11.905 |
| 80 | 12.910 | 11.400 | 10.355 | 9.515 | 8.800 | 8.300 | 7.880 | 7.545 | 7.295 | 7.085 |
| 85 | 5.195 | 4.650 | 4.275 | 3.940 | 3.730 | 3.520 | 3.395 | 3.270 | 3.225 | 3.145 |
| 90 | 0.505 | 0.420 | 0.375 | 0.335 | 0.335 | 0.295 | 0.250 | 0.250 | 0.250 | 0.250 |
| 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_LO_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 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 | 241.435 |
| 5 | 195.645 | 193.720 | 192.295 | 190.910 | 190.115 | 189.570 | 189.360 |
| 10 | 151.805 | 148.830 | 146.275 | 144.260 | 142.920 | 142.040 | 141.745 |
| 15 | 118.735 | 115.510 | 112.745 | 110.775 | 109.350 | 108.470 | 108.215 |
| 20 | 95.265 | 92.375 | 90.025 | 88.310 | 87.050 | 86.380 | 86.090 |
| 25 | 79.340 | 76.950 | 75.105 | 73.725 | 72.845 | 72.340 | 72.090 |
| 30 | 67.900 | 66.135 | 64.710 | 63.705 | 63.035 | 62.615 | 62.535 |
| 35 | 59.265 | 57.925 | 56.875 | 56.080 | 55.620 | 55.365 | 55.240 |
| 40 | 52.055 | 51.090 | 50.335 | 49.790 | 49.455 | 49.245 | 49.205 |
| 45 | 45.685 | 44.930 | 44.425 | 43.965 | 43.715 | 43.630 | 43.590 |
| 50 | 39.985 | 39.440 | 39.020 | 38.685 | 38.515 | 38.435 | 38.390 |
| 55 | 34.035 | 33.570 | 33.235 | 32.945 | 32.775 | 32.690 | 32.690 |
| 60 | 28.125 | 27.705 | 27.410 | 27.160 | 26.990 | 26.910 | 26.910 |
| 65 | 22.340 | 22.005 | 21.710 | 21.500 | 21.335 | 21.290 | 21.290 |
| 70 | 16.805 | 16.515 | 16.260 | 16.095 | 15.970 | 15.885 | 15.845 |
| 75 | 11.610 | 11.400 | 11.190 | 11.065 | 10.980 | 10.940 | 10.895 |
| 80 | 6.915 | 6.790 | 6.665 | 6.580 | 6.495 | 6.495 | 6.455 |
| 85 | 3.100 | 3.060 | 2.975 | 2.975 | 2.975 | 2.935 | 2.935 |
| 90 | 0.250 | 0.250 | 0.250 | 0.250 | 0.250 | 0.250 | 0.250 |
| 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_LO_359_A1.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 96.29 | N.A. | 11.30 |
| 0-30 | 219.32 | N.A. | 25.70 |
| 0-40 | 378.14 | N.A. | 44.20 |
| 0-60 | 682.88 | N.A. | 79.90 |
| 0-80 | 835.40 | N.A. | 97.70 |
| 0-90 | 853.62 | N.A. | 99.80 |
| 10-90 | 830.23 | N.A. | 97.10 |
| 20-40 | 281.85 | N.A. | 33.00 |
| 20-50 | 446.57 | N.A. | 52.20 |
| 40-70 | 403.02 | N.A. | 47.10 |
| 60-80 | 152.52 | N.A. | 17.80 |
| 70-80 | 54.23 | N.A. | 6.30 |
| 80-90 | 18.23 | N.A. | 2.10 |
| 90-110 | 1.36 | N.A. | 0.20 |
| 90-120 | 1.36 | N.A. | 0.20 |
| 90-130 | 1.36 | N.A. | 0.20 |
| 90-150 | 1.36 | N.A. | 0.20 |
| 90-180 | 1.36 | N.A. | 0.20 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 854.99 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 23.39 |
| 10-20 | 72.90 |
| 20-30 | 123.03 |
| 30-40 | 158.82 |
| 40-50 | 164.72 |
| 50-60 | 140.01 |
| 60-70 | 98.29 |
| 70-80 | 54.23 |
| 80-90 | 18.23 |
| 90-100 | 1.36 |
| 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 |

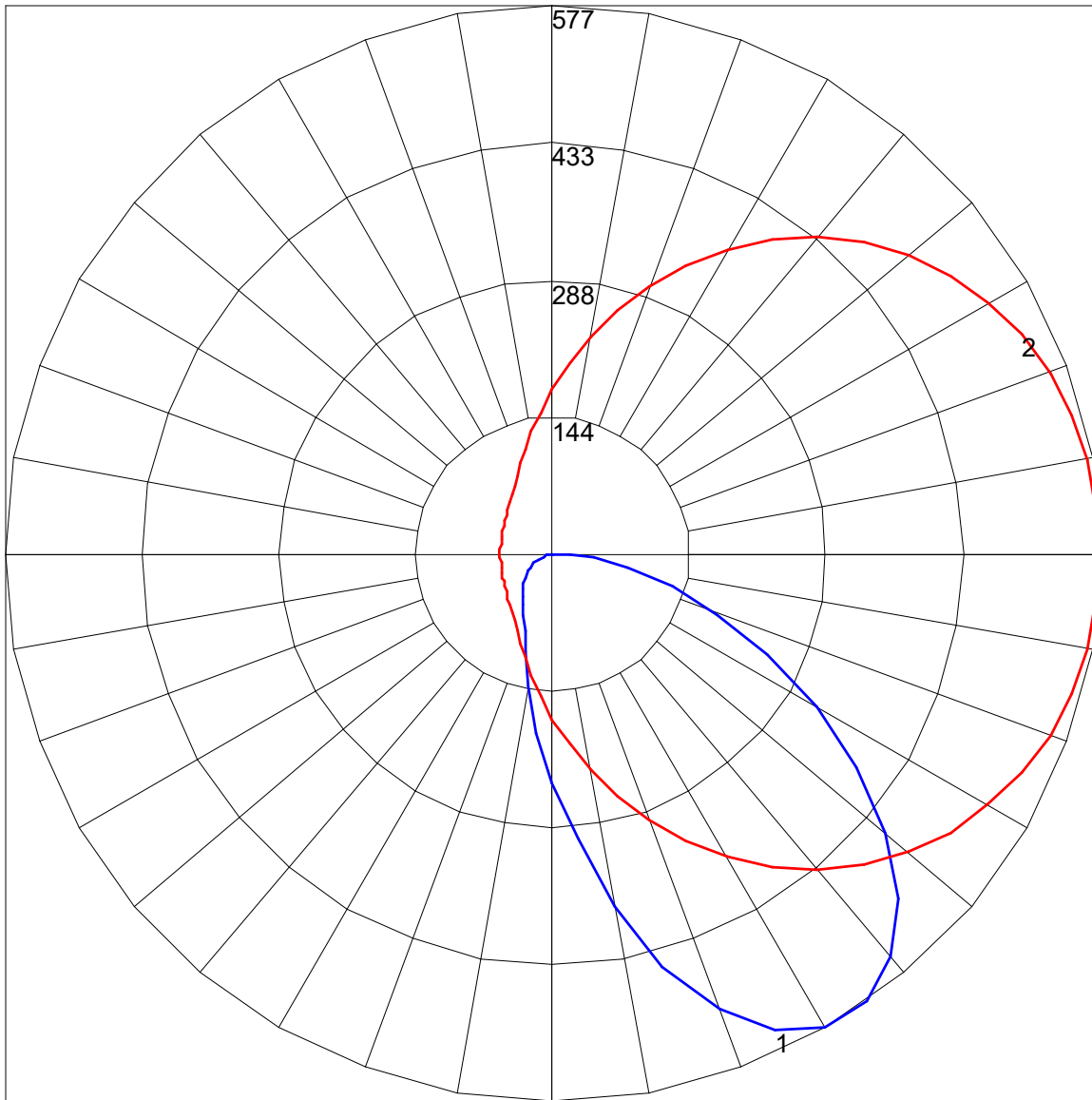
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_A1.IES

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 = 576.71 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.)