



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704204 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUE DATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-BX-48-Z-SO-35-G2  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° flywing lens, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2814            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 117             |
| Total Luminaire Watts           | 24.09           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.58            |
| Spacing Criterion (90-270)      | 1.14            |
| Spacing Criterion (Diagonal)    | 1.52            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.08 ft         |
| Luminous Width (90-270)         | 3.85 ft         |
| Luminous Height                 | 0.00 ft         |

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

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45               | 42266         | 37068          | 24171          |
| 55               | 40051         | 35668          | 22963          |
| 65               | 30680         | 29612          | 22261          |
| 75               | 17144         | 19780          | 19629          |
| 85               | 2510          | 5124           | 10953          |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_G2.IES**

**CANDELA TABULATION**

|           | <b>0</b> | <b>5</b> | <b>10</b> | <b>15</b> | <b>20</b> | <b>25</b> | <b>30</b> | <b>35</b> | <b>40</b> | <b>45</b> |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 913.438  | 913.438  | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   |
| <b>5</b>  | 919.775  | 919.621  | 919.421   | 918.984   | 918.347   | 917.662   | 916.777   | 915.904   | 914.819   | 913.792   |
| <b>10</b> | 940.153  | 939.905  | 938.773   | 937.062   | 934.666   | 931.433   | 927.952   | 923.881   | 919.373   | 914.677   |
| <b>15</b> | 964.839  | 964.107  | 962.054   | 958.762   | 954.018   | 948.130   | 941.085   | 932.943   | 924.034   | 914.429   |
| <b>20</b> | 981.595  | 980.769  | 978.067   | 973.665   | 967.340   | 959.305   | 949.511   | 937.899   | 924.565   | 910.016   |
| <b>25</b> | 987.577  | 986.539  | 983.259   | 977.972   | 970.479   | 960.673   | 948.531   | 934.466   | 917.521   | 898.853   |
| <b>30</b> | 981.005  | 979.837  | 976.061   | 970.231   | 961.853   | 950.785   | 937.156   | 920.896   | 901.249   | 878.274   |
| <b>35</b> | 959.057  | 957.830  | 954.065   | 948.036   | 939.469   | 927.905   | 913.296   | 895.573   | 873.967   | 848.927   |
| <b>40</b> | 918.595  | 917.521  | 914.181   | 908.553   | 900.423   | 889.201   | 874.604   | 856.279   | 833.741   | 806.990   |
| <b>45</b> | 855.984  | 855.146  | 852.408   | 847.795   | 840.939   | 830.803   | 817.764   | 800.182   | 778.080   | 750.704   |
| <b>50</b> | 769.466  | 768.923  | 767.212   | 764.121   | 759.177   | 751.625   | 740.462   | 724.685   | 704.259   | 677.462   |
| <b>55</b> | 657.956  | 657.815  | 657.225   | 655.950   | 653.401   | 648.504   | 640.563   | 627.925   | 610.001   | 585.941   |
| <b>60</b> | 521.855  | 522.197  | 523.177   | 524.156   | 524.451   | 522.988   | 518.822   | 510.244   | 496.532   | 477.180   |
| <b>65</b> | 371.358  | 371.948  | 373.753   | 376.302   | 378.851   | 380.762   | 380.810   | 377.576   | 370.178   | 358.425   |
| <b>70</b> | 232.814  | 233.498  | 235.457   | 238.584   | 242.313   | 246.042   | 248.874   | 249.912   | 248.001   | 243.493   |
| <b>75</b> | 127.086  | 127.676  | 129.293   | 131.782   | 135.075   | 138.697   | 142.178   | 144.963   | 146.344   | 146.627   |
| <b>80</b> | 49.879   | 50.221   | 51.389    | 53.253    | 55.802    | 59.083    | 62.516    | 65.938    | 68.936    | 71.720    |
| <b>85</b> | 6.266    | 6.372    | 6.466     | 6.620     | 6.856     | 7.198     | 7.835     | 8.874     | 10.431    | 12.791    |
| <b>90</b> | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |

**Vert. Angles**      **Horizontal Angles**

|           | <b>50</b> | <b>55</b> | <b>60</b> | <b>65</b> | <b>70</b> | <b>75</b> | <b>80</b> | <b>85</b> | <b>90</b> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   | 913.438   |
| <b>5</b>  | 912.860   | 911.786   | 910.759   | 909.827   | 909.084   | 908.506   | 907.963   | 907.715   | 907.621   |
| <b>10</b> | 909.922   | 905.213   | 900.859   | 896.552   | 893.071   | 889.932   | 887.832   | 886.451   | 885.861   |
| <b>15</b> | 904.234   | 894.003   | 884.009   | 874.404   | 866.167   | 859.170   | 853.978   | 850.745   | 849.612   |
| <b>20</b> | 894.051   | 877.483   | 860.928   | 844.668   | 830.460   | 818.165   | 808.807   | 803.214   | 801.208   |
| <b>25</b> | 877.542   | 855.052   | 831.735   | 808.359   | 787.933   | 769.561   | 755.790   | 747.070   | 744.179   |
| <b>30</b> | 852.656   | 824.726   | 795.521   | 765.549   | 738.645   | 714.785   | 696.519   | 685.096   | 681.273   |
| <b>35</b> | 818.944   | 786.612   | 751.778   | 715.871   | 683.775   | 655.360   | 634.049   | 620.621   | 616.113   |
| <b>40</b> | 774.753   | 738.597   | 700.094   | 660.210   | 624.692   | 593.929   | 570.801   | 556.500   | 551.650   |
| <b>45</b> | 716.992   | 679.515   | 639.289   | 598.484   | 562.813   | 531.366   | 508.332   | 494.278   | 489.523   |
| <b>50</b> | 644.433   | 607.747   | 569.433   | 530.776   | 497.712   | 469.782   | 448.176   | 435.632   | 431.219   |
| <b>55</b> | 556.346   | 523.377   | 489.724   | 457.285   | 430.299   | 407.714   | 390.910   | 380.621   | 377.234   |
| <b>60</b> | 453.273   | 427.502   | 402.663   | 379.641   | 360.726   | 345.150   | 333.539   | 326.624   | 324.229   |
| <b>65</b> | 343.132   | 327.261   | 312.665   | 299.637   | 289.348   | 280.769   | 274.503   | 270.680   | 269.453   |
| <b>70</b> | 237.168   | 230.997   | 225.356   | 220.412   | 216.884   | 214.099   | 212.034   | 210.465   | 209.875   |
| <b>75</b> | 146.485   | 146.096   | 145.848   | 145.706   | 145.801   | 145.848   | 145.942   | 145.801   | 145.506   |
| <b>80</b> | 74.080    | 75.933    | 77.502    | 78.635    | 79.567    | 80.299    | 80.842    | 81.184    | 81.231    |
| <b>85</b> | 16.166    | 19.789    | 22.786    | 24.981    | 26.113    | 26.751    | 27.093    | 27.293    | 27.341    |
| <b>90</b> | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_G2.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 344.74  | N.A.  | 12.30  |
| 0-30    | 751.47  | N.A.  | 26.70  |
| 0-40    | 1262.49 | N.A.  | 44.90  |
| 0-60    | 2297.18 | N.A.  | 81.60  |
| 0-80    | 2786.54 | N.A.  | 99.00  |
| 0-90    | 2813.67 | N.A.  | 100.00 |
| 10-90   | 2726.44 | N.A.  | 96.90  |
| 20-40   | 917.75  | N.A.  | 32.60  |
| 20-50   | 1463.83 | N.A.  | 52.00  |
| 40-70   | 1370.27 | N.A.  | 48.70  |
| 60-80   | 489.36  | N.A.  | 17.40  |
| 70-80   | 153.78  | N.A.  | 5.50   |
| 80-90   | 27.13   | N.A.  | 1.00   |
| 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   | 2813.67 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 87.23  |
| 10-20   | 257.52 |
| 20-30   | 406.73 |
| 30-40   | 511.02 |
| 40-50   | 546.08 |
| 50-60   | 488.61 |
| 60-70   | 335.58 |
| 70-80   | 153.78 |
| 80-90   | 27.13  |
| 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   |

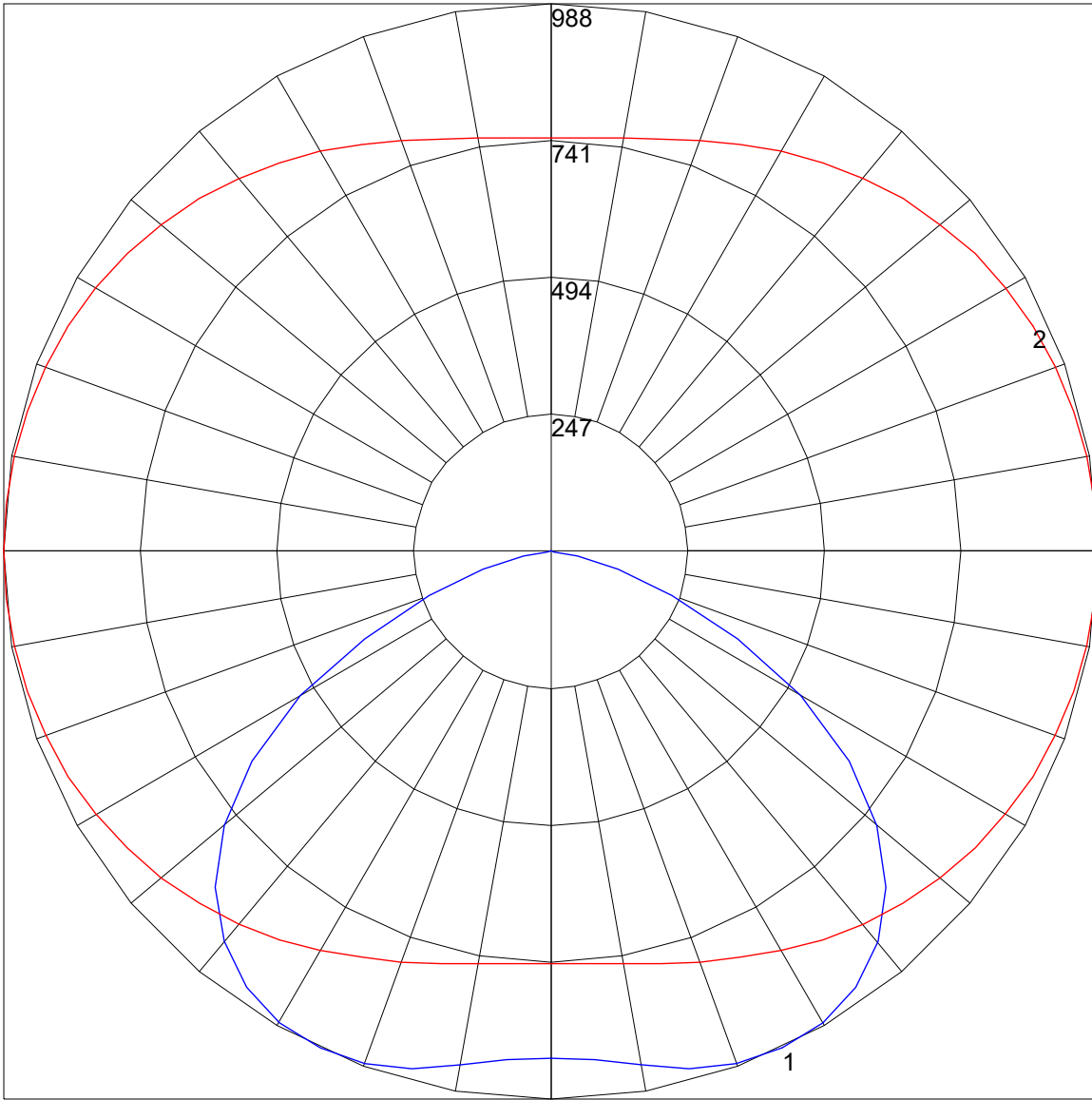
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_G2.IES**

**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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 109 | 105 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2  | 99  | 91  | 85  | 79  | 97  | 90  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 80  | 76  | 73  | 71  |
| 3  | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 68  | 63  | 70  | 66  | 62  | 60  |
| 4  | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 54  | 65  | 59  | 54  | 63  | 57  | 53  | 51  |
| 5  | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 47  | 60  | 53  | 47  | 58  | 52  | 46  | 56  | 51  | 46  | 44  |
| 6  | 70  | 57  | 48  | 42  | 68  | 56  | 47  | 41  | 54  | 47  | 41  | 52  | 46  | 41  | 51  | 45  | 40  | 38  |
| 7  | 65  | 51  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 34  |
| 8  | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 32  | 42  | 36  | 32  | 30  |
| 9  | 56  | 43  | 35  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |
| 10 | 53  | 40  | 32  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 31  | 26  | 36  | 30  | 26  | 24  |

POLAR GRAPH



Maximum Candela = 987.577 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)