

## IES Report

# ZipTwo® | 707 | Square 3572, Single Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-HA-X-BL-0

|  | 2700K | 3000K | 3500K | 4000K |
|--|-------|-------|-------|-------|
| Efficacy - Lumens per Watt               | 94    | 97    | 99    | 99    |
| Total Lumens, 4' rail length (1219mm)    | 1388  | 1431  | 1461  | 1461  |
| Lumens per foot (305mm)                  | 347   | 358   | 365   | 365   |
| 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                                      | 82    | 82    | 82    | 82    |

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\_35\_HA\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011205 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-35-HA-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] single side diffuse black lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 1461               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 98                 |
| Total Luminaire Watts           | 14.89              |
| Ballast Factor                  | 1.00               |
| CIE Type                        | General Diffuse    |
| Spacing Criterion (0-180)       | N.A.               |
| Spacing Criterion (90-270)      | N.A.               |
| Spacing Criterion (Diagonal)    | N.A.               |
| Basic Luminous Shape            | Vertical Rectangle |
| Luminous Length (0-180)         | 0.00 ft            |
| Luminous Width (90-270)         | 3.99 ft            |
| Luminous Height                 | 0.22 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 0                | 21                | 23                |
| 55                  | 0                | 23                | 20                |
| 65                  | 0                | 24                | 17                |
| 75                  | 0                | 25                | 22                |
| 85                  | 0                | 27                | 20                |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_35\_HA\_BL.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> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>   | 2.105    | 2.105    | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     |
| <b>5</b>   | 0.586    | 0.586    | 0.586     | 0.632     | 0.632     | 0.632     | 0.632     | 0.731     | 0.731     | 0.731     |
| <b>10</b>  | 0.389    | 0.389    | 0.389     | 0.389     | 0.389     | 0.389     | 0.435     | 0.487     | 0.487     | 0.487     |
| <b>15</b>  | 0.389    | 0.389    | 0.389     | 0.389     | 0.389     | 0.435     | 0.487     | 0.487     | 0.487     | 0.487     |
| <b>20</b>  | 0.487    | 0.487    | 0.487     | 0.487     | 0.487     | 0.487     | 0.487     | 0.487     | 0.487     | 0.487     |
| <b>25</b>  | 0.586    | 0.586    | 0.632     | 0.632     | 0.632     | 0.632     | 0.586     | 0.586     | 0.534     | 0.534     |
| <b>30</b>  | 0.777    | 0.777    | 0.731     | 0.731     | 0.731     | 0.731     | 0.731     | 0.632     | 0.632     | 0.632     |
| <b>35</b>  | 0.876    | 0.876    | 0.876     | 0.876     | 0.876     | 0.829     | 0.829     | 0.777     | 0.731     | 0.679     |
| <b>40</b>  | 1.067    | 1.067    | 1.067     | 1.021     | 1.021     | 1.021     | 0.922     | 0.876     | 0.829     | 0.777     |
| <b>45</b>  | 1.166    | 1.218    | 1.218     | 1.166     | 1.119     | 1.119     | 1.067     | 1.021     | 0.974     | 0.876     |
| <b>50</b>  | 1.363    | 1.363    | 1.363     | 1.311     | 1.264     | 1.218     | 1.218     | 1.119     | 1.067     | 0.974     |
| <b>55</b>  | 1.462    | 1.462    | 1.462     | 1.462     | 1.409     | 1.363     | 1.311     | 1.218     | 1.166     | 1.067     |
| <b>60</b>  | 1.554    | 1.554    | 1.554     | 1.554     | 1.508     | 1.508     | 1.409     | 1.311     | 1.264     | 1.166     |
| <b>65</b>  | 1.752    | 1.699    | 1.653     | 1.653     | 1.607     | 1.607     | 1.508     | 1.409     | 1.363     | 1.264     |
| <b>70</b>  | 1.850    | 1.798    | 1.798     | 1.752     | 1.699     | 1.699     | 1.607     | 1.508     | 1.462     | 1.363     |
| <b>75</b>  | 1.850    | 1.897    | 1.850     | 1.850     | 1.798     | 1.752     | 1.699     | 1.607     | 1.508     | 1.409     |
| <b>80</b>  | 1.943    | 1.943    | 1.943     | 1.943     | 1.897     | 1.798     | 1.752     | 1.653     | 1.554     | 1.462     |
| <b>85</b>  | 2.042    | 2.042    | 2.042     | 1.995     | 1.995     | 1.897     | 1.798     | 1.752     | 1.653     | 1.554     |
| <b>90</b>  | 2.140    | 2.140    | 2.088     | 2.042     | 1.995     | 1.995     | 1.897     | 1.798     | 1.653     | 1.554     |
| <b>95</b>  | 2.140    | 2.140    | 2.140     | 2.088     | 2.042     | 1.995     | 1.897     | 1.798     | 1.699     | 1.554     |
| <b>100</b> | 2.239    | 2.187    | 2.187     | 2.140     | 2.088     | 1.995     | 1.943     | 1.850     | 1.752     | 1.653     |
| <b>105</b> | 2.239    | 2.239    | 2.239     | 2.187     | 2.088     | 2.088     | 1.995     | 1.897     | 1.752     | 1.653     |
| <b>110</b> | 2.239    | 2.239    | 2.239     | 2.187     | 2.187     | 2.088     | 1.995     | 1.943     | 1.850     | 1.699     |
| <b>115</b> | 2.239    | 2.239    | 2.239     | 2.187     | 2.187     | 2.088     | 1.995     | 1.943     | 1.850     | 1.699     |
| <b>120</b> | 2.239    | 2.239    | 2.239     | 2.187     | 2.088     | 2.088     | 1.995     | 1.943     | 1.798     | 1.653     |
| <b>125</b> | 2.239    | 2.239    | 2.187     | 2.187     | 2.088     | 2.042     | 1.995     | 1.897     | 1.798     | 1.699     |
| <b>130</b> | 2.140    | 2.140    | 2.088     | 2.088     | 2.042     | 1.995     | 1.897     | 1.897     | 1.752     | 1.653     |
| <b>135</b> | 2.042    | 2.042    | 2.042     | 1.995     | 1.995     | 1.897     | 1.850     | 1.798     | 1.798     | 1.699     |
| <b>140</b> | 1.943    | 1.943    | 1.943     | 1.897     | 1.897     | 1.798     | 1.798     | 1.798     | 1.798     | 1.699     |
| <b>145</b> | 1.850    | 1.850    | 1.798     | 1.798     | 1.752     | 1.752     | 1.798     | 1.798     | 1.798     | 1.752     |
| <b>150</b> | 1.752    | 1.699    | 1.699     | 1.607     | 1.653     | 1.699     | 1.798     | 1.850     | 1.798     | 1.752     |
| <b>155</b> | 1.554    | 1.554    | 1.462     | 1.508     | 1.607     | 1.699     | 1.752     | 1.798     | 1.798     | 1.699     |
| <b>160</b> | 1.363    | 1.363    | 1.311     | 1.363     | 1.508     | 1.653     | 1.699     | 1.699     | 1.653     | 1.653     |
| <b>165</b> | 1.264    | 1.119    | 1.166     | 1.264     | 1.462     | 1.508     | 1.554     | 1.699     | 1.850     | 1.943     |
| <b>170</b> | 1.462    | 1.554    | 1.607     | 1.850     | 1.995     | 2.042     | 2.088     | 2.187     | 2.285     | 2.239     |
| <b>175</b> | 1.462    | 1.607    | 1.850     | 1.995     | 2.042     | 2.042     | 2.088     | 2.140     | 2.140     | 2.140     |
| <b>180</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**

|           | <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> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     | 2.105     |
| <b>5</b>  | 0.777     | 0.829     | 0.829     | 0.829     | 0.876     | 0.922     | 0.974     | 1.218     | 1.554     | 2.332     |
| <b>10</b> | 0.586     | 0.586     | 0.679     | 0.731     | 0.777     | 0.829     | 0.876     | 0.922     | 1.508     | 3.840     |
| <b>15</b> | 0.487     | 0.487     | 0.534     | 0.586     | 0.679     | 0.777     | 0.829     | 0.922     | 1.462     | 6.322     |
| <b>20</b> | 0.487     | 0.534     | 0.534     | 0.534     | 0.586     | 0.679     | 0.777     | 0.922     | 1.462     | 9.332     |
| <b>25</b> | 0.534     | 0.534     | 0.534     | 0.534     | 0.534     | 0.632     | 0.731     | 0.876     | 1.409     | 12.302    |
| <b>30</b> | 0.586     | 0.534     | 0.534     | 0.534     | 0.534     | 0.586     | 0.679     | 0.829     | 1.363     | 14.633    |
| <b>35</b> | 0.679     | 0.632     | 0.586     | 0.534     | 0.534     | 0.534     | 0.679     | 0.829     | 1.462     | 17.307    |
| <b>40</b> | 0.731     | 0.679     | 0.632     | 0.586     | 0.534     | 0.534     | 0.632     | 0.829     | 1.409     | 19.737    |
| <b>45</b> | 0.777     | 0.777     | 0.679     | 0.632     | 0.586     | 0.534     | 0.632     | 0.777     | 1.311     | 22.707    |
| <b>50</b> | 0.876     | 0.777     | 0.777     | 0.679     | 0.586     | 0.586     | 0.534     | 0.777     | 1.311     | 24.749    |
| <b>55</b> | 0.974     | 0.876     | 0.777     | 0.679     | 0.679     | 0.586     | 0.534     | 0.679     | 1.311     | 26.547    |
| <b>60</b> | 1.067     | 0.974     | 0.876     | 0.777     | 0.679     | 0.586     | 0.534     | 0.679     | 1.311     | 28.101    |

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

|            |       |       |       |       |       |       |       |       |       |        |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| <b>65</b>  | 1.166 | 1.067 | 0.922 | 0.777 | 0.679 | 0.586 | 0.586 | 0.586 | 1.264 | 29.365 |
| <b>70</b>  | 1.264 | 1.067 | 0.974 | 0.876 | 0.777 | 0.679 | 0.586 | 0.534 | 1.166 | 29.365 |
| <b>75</b>  | 1.264 | 1.166 | 1.021 | 0.876 | 0.777 | 0.679 | 0.586 | 0.534 | 1.699 | 33.547 |
| <b>80</b>  | 1.363 | 1.218 | 1.067 | 0.922 | 0.777 | 0.679 | 0.586 | 0.534 | 1.653 | 34.034 |
| <b>85</b>  | 1.363 | 1.218 | 1.119 | 0.922 | 0.829 | 0.679 | 0.586 | 0.534 | 1.653 | 34.371 |
| <b>90</b>  | 1.409 | 1.311 | 1.119 | 0.922 | 0.829 | 0.731 | 0.632 | 0.534 | 1.462 | 38.993 |
| <b>95</b>  | 1.462 | 1.311 | 1.119 | 1.021 | 0.829 | 0.731 | 0.632 | 0.586 | 1.462 | 38.553 |
| <b>100</b> | 1.508 | 1.311 | 1.218 | 1.021 | 0.922 | 0.777 | 0.679 | 0.586 | 1.311 | 34.371 |
| <b>105</b> | 1.508 | 1.409 | 1.218 | 1.067 | 0.922 | 0.829 | 0.679 | 0.586 | 1.218 | 33.547 |
| <b>110</b> | 1.554 | 1.409 | 1.218 | 1.119 | 0.922 | 0.829 | 0.731 | 0.632 | 1.119 | 28.246 |
| <b>115</b> | 1.554 | 1.409 | 1.264 | 1.119 | 1.021 | 0.876 | 0.777 | 0.731 | 1.462 | 24.696 |
| <b>120</b> | 1.554 | 1.462 | 1.264 | 1.166 | 1.067 | 0.876 | 0.777 | 0.876 | 1.409 | 20.665 |
| <b>125</b> | 1.607 | 1.409 | 1.311 | 1.218 | 1.067 | 0.974 | 0.829 | 0.974 | 1.409 | 17.064 |
| <b>130</b> | 1.554 | 1.462 | 1.363 | 1.264 | 1.166 | 0.974 | 0.922 | 1.067 | 1.462 | 14.633 |
| <b>135</b> | 1.653 | 1.508 | 1.363 | 1.264 | 1.166 | 1.021 | 1.119 | 1.119 | 1.508 | 12.250 |
| <b>140</b> | 1.653 | 1.554 | 1.462 | 1.311 | 1.218 | 1.119 | 1.264 | 1.166 | 1.554 | 10.747 |
| <b>145</b> | 1.699 | 1.607 | 1.462 | 1.311 | 1.218 | 1.409 | 1.311 | 1.264 | 1.607 | 9.529  |
| <b>150</b> | 1.653 | 1.554 | 1.508 | 1.363 | 1.508 | 1.607 | 1.409 | 1.409 | 1.752 | 8.706  |
| <b>155</b> | 1.607 | 1.554 | 1.508 | 1.653 | 1.752 | 1.653 | 1.554 | 1.554 | 1.995 | 7.876  |
| <b>160</b> | 1.607 | 1.798 | 1.943 | 1.943 | 1.850 | 1.699 | 1.699 | 1.699 | 2.187 | 7.001  |
| <b>165</b> | 2.088 | 2.140 | 2.140 | 1.995 | 1.897 | 1.850 | 1.850 | 1.850 | 2.430 | 6.078  |
| <b>170</b> | 2.285 | 2.187 | 2.088 | 2.042 | 2.042 | 1.995 | 2.042 | 2.088 | 2.720 | 5.203  |
| <b>175</b> | 2.088 | 2.042 | 2.042 | 2.042 | 2.042 | 2.088 | 2.088 | 2.088 | 2.772 | 4.135  |
| <b>180</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  |

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

|            | <b>100</b> | <b>105</b> | <b>110</b> | <b>115</b> | <b>120</b> | <b>125</b> | <b>130</b> | <b>135</b> | <b>140</b> | <b>145</b> |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>0</b>   | 2.105      | 2.105      | 2.105      | 2.105      | 2.105      | 2.105      | 2.105      | 2.105      | 2.105      | 2.105      |
| <b>5</b>   | 3.503      | 5.301      | 7.441      | 9.773      | 12.058     | 14.291     | 16.339     | 18.328     | 20.080     | 21.686     |
| <b>10</b>  | 8.706      | 14.198     | 19.836     | 25.282     | 30.630     | 35.635     | 40.745     | 45.217     | 49.399     | 53.337     |
| <b>15</b>  | 14.831     | 23.583     | 32.474     | 41.279     | 49.689     | 57.855     | 65.929     | 73.608     | 80.510     | 87.075     |
| <b>20</b>  | 21.002     | 32.770     | 45.072     | 57.275     | 69.084     | 80.562     | 92.034     | 102.973    | 112.891    | 122.322    |
| <b>25</b>  | 26.889     | 41.812     | 57.321     | 72.587     | 88.340     | 103.704    | 118.140    | 132.582    | 145.708    | 158.154    |
| <b>30</b>  | 32.625     | 50.512     | 69.478     | 88.143     | 107.886    | 126.405    | 144.495    | 162.481    | 178.913    | 194.178    |
| <b>35</b>  | 37.387     | 58.876     | 81.049     | 102.875    | 126.504    | 148.480    | 170.068    | 192.282    | 211.149    | 229.477    |
| <b>40</b>  | 45.118     | 66.607     | 91.889     | 116.928    | 144.055    | 169.435    | 194.375    | 218.492    | 241.970    | 263.413    |
| <b>45</b>  | 47.502     | 74.484     | 101.709    | 129.856    | 160.196    | 188.686    | 216.009    | 244.064    | 269.926    | 294.866    |
| <b>50</b>  | 51.585     | 80.951     | 110.560    | 141.334    | 174.638    | 200.013    | 236.089    | 267.009    | 295.498    | 322.967    |
| <b>55</b>  | 55.135     | 86.542     | 118.285    | 152.465    | 186.354    | 219.072    | 252.474    | 286.943    | 317.527    | 347.281    |
| <b>60</b>  | 58.099     | 90.184     | 126.017    | 161.118    | 196.806    | 231.617    | 266.910    | 303.131    | 335.756    | 367.262    |
| <b>65</b>  | 60.581     | 93.879     | 130.100    | 167.881    | 200.355    | 242.556    | 279.212    | 315.874    | 349.711    | 382.475    |
| <b>70</b>  | 62.379     | 96.703     | 134.038    | 171.668    | 205.117    | 249.655    | 287.286    | 324.864    | 359.484    | 393.855    |
| <b>75</b>  | 62.669     | 98.646     | 136.810    | 175.073    | 212.268    | 254.226    | 292.337    | 331.429    | 366.241    | 398.715    |
| <b>80</b>  | 63.493     | 99.766     | 138.272    | 176.871    | 217.662    | 256.267    | 294.530    | 333.517    | 368.329    | 400.565    |
| <b>85</b>  | 63.835     | 101.274    | 138.661    | 177.213    | 217.807    | 256.267    | 294.043    | 331.574    | 365.945    | 398.860    |
| <b>90</b>  | 64.711     | 100.978    | 137.785    | 175.995    | 211.636    | 254.081    | 291.224    | 327.978    | 361.717    | 393.953    |
| <b>95</b>  | 64.078     | 99.766     | 136.080    | 174.731    | 205.268    | 248.779    | 286.213    | 321.999    | 354.861    | 386.222    |
| <b>100</b> | 62.814     | 97.724     | 134.380    | 170.845    | 201.765    | 242.800    | 279.113    | 313.734    | 345.384    | 375.672    |
| <b>105</b> | 61.358     | 94.122     | 129.421    | 165.886    | 199.044    | 235.265    | 270.123    | 303.473    | 333.761    | 362.691    |
| <b>110</b> | 59.409     | 91.060     | 124.897    | 158.642    | 194.665    | 227.093    | 259.475    | 291.369    | 320.003    | 347.669    |
| <b>115</b> | 57.078     | 87.365     | 119.503    | 151.542    | 185.768    | 216.450    | 247.028    | 277.124    | 305.080    | 330.310    |
| <b>120</b> | 50.808     | 82.795     | 113.326    | 143.475    | 175.607    | 200.402    | 233.073    | 262.148    | 287.622    | 311.153    |
| <b>125</b> | 46.383     | 75.696     | 103.362    | 131.660    | 162.336    | 190.971    | 217.662    | 243.919    | 267.641    | 290.203    |
| <b>130</b> | 38.408     | 65.099     | 92.278     | 117.264    | 144.443    | 170.358    | 193.500    | 222.766    | 246.738    | 267.595    |
| <b>135</b> | 31.604     | 54.839     | 80.121     | 103.605    | 126.550    | 149.744    | 172.446    | 193.987    | 218.295    | 241.437    |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_35\_HA\_BL.IES**

**CANDELA TABULATION - (Cont.)**

|            |        |        |        |        |         |         |         |         |         |         |
|------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| <b>140</b> | 25.085 | 46.771 | 67.286 | 89.894 | 110.606 | 129.763 | 148.915 | 169.435 | 185.577 | 208.087 |
| <b>145</b> | 20.277 | 37.045 | 57.321 | 73.706 | 93.641  | 114.109 | 129.520 | 144.345 | 160.097 | 176.482 |
| <b>150</b> | 17.551 | 29.609 | 45.408 | 59.995 | 76.183  | 94.320  | 111.627 | 124.172 | 134.479 | 145.951 |
| <b>155</b> | 15.266 | 24.795 | 36.122 | 48.766 | 61.938  | 73.219  | 87.267  | 102.295 | 112.160 | 120.570 |
| <b>160</b> | 13.125 | 20.758 | 28.780 | 37.242 | 47.113  | 56.788  | 65.975  | 74.872  | 84.837  | 92.377  |
| <b>165</b> | 10.794 | 15.944 | 22.411 | 28.147 | 34.522  | 40.449  | 46.725  | 52.461  | 58.244  | 65.198  |
| <b>170</b> | 8.364  | 11.617 | 15.556 | 19.882 | 23.821  | 27.277  | 30.676  | 33.837  | 36.366  | 38.895  |
| <b>175</b> | 5.690  | 7.441  | 9.286  | 11.182 | 13.178  | 15.219  | 16.971  | 18.473  | 19.691  | 20.810  |
| <b>180</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

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

|            | <b><u>150</u></b> | <b><u>155</u></b> | <b><u>160</u></b> | <b><u>165</u></b> | <b><u>170</u></b> | <b><u>175</u></b> | <b><u>180</u></b> |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>0</b>   | 2.105             | 2.105             | 2.105             | 2.105             | 2.105             | 2.105             | 2.105             |
| <b>5</b>   | 23.096            | 24.360            | 25.329            | 26.106            | 26.692            | 26.982            | 27.034            |
| <b>10</b>  | 56.834            | 59.705            | 62.234            | 64.177            | 65.540            | 66.317            | 66.607            |
| <b>15</b>  | 92.858            | 97.817            | 102.051           | 105.357           | 107.642           | 108.999           | 109.487           |
| <b>20</b>  | 130.784           | 137.976           | 144.200           | 149.014           | 152.320           | 154.460           | 155.092           |
| <b>25</b>  | 169.482           | 179.058           | 187.131           | 193.645           | 197.728           | 200.355           | 201.277           |
| <b>30</b>  | 207.988           | 220.046           | 230.208           | 238.519           | 244.255           | 248.095           | 249.214           |
| <b>35</b>  | 246.106           | 260.693           | 273.377           | 283.492           | 290.684           | 295.255           | 296.763           |
| <b>40</b>  | 282.814           | 300.167           | 314.946           | 326.470           | 334.880           | 340.280           | 341.980           |
| <b>45</b>  | 317.330           | 336.678           | 353.551           | 366.676           | 376.252           | 382.429           | 384.372           |
| <b>50</b>  | 348.006           | 369.402           | 388.066           | 402.798           | 413.401           | 420.013           | 422.101           |
| <b>55</b>  | 374.309           | 397.404           | 417.728           | 433.672           | 445.051           | 452.052           | 454.482           |
| <b>60</b>  | 395.653           | 420.106           | 441.548           | 458.519           | 470.479           | 477.816           | 480.542           |
| <b>65</b>  | 411.939           | 437.419           | 458.954           | 477.137           | 489.537           | 497.118           | 499.502           |
| <b>70</b>  | 422.977           | 448.839           | 470.670           | 488.708           | 501.253           | 509.420           | 511.949           |
| <b>75</b>  | 428.226           | 455.062           | 476.940           | 494.885           | 507.477           | 515.498           | 518.073           |
| <b>80</b>  | 429.879           | 456.472           | 478.790           | 495.854           | 508.300           | 516.322           | 518.659           |
| <b>85</b>  | 428.568           | 453.751           | 475.484           | 492.449           | 504.461           | 512.337           | 514.669           |
| <b>90</b>  | 422.779           | 447.383           | 468.675           | 485.158           | 497.263           | 504.606           | 507.088           |
| <b>95</b>  | 414.079           | 437.999           | 458.664           | 474.898           | 486.423           | 493.470           | 495.807           |
| <b>100</b> | 402.653           | 425.604           | 445.486           | 461.338           | 472.323           | 479.034           | 481.319           |
| <b>105</b> | 388.652           | 410.576           | 429.200           | 444.808           | 455.358           | 461.825           | 464.104           |
| <b>110</b> | 372.412           | 393.223           | 410.773           | 425.262           | 435.667           | 441.890           | 443.978           |
| <b>115</b> | 353.794           | 373.485           | 390.062           | 403.576           | 413.204           | 419.328           | 421.225           |
| <b>120</b> | 332.352           | 351.410           | 367.453           | 379.656           | 388.699           | 394.441           | 396.239           |
| <b>125</b> | 310.230           | 327.346           | 342.171           | 353.452           | 361.717           | 367.065           | 368.619           |
| <b>130</b> | 286.021           | 301.478           | 314.946           | 325.351           | 333.129           | 337.798           | 339.254           |
| <b>135</b> | 260.008           | 274.062           | 286.311           | 295.986           | 302.499           | 306.733           | 308.044           |
| <b>140</b> | 228.990           | 245.276           | 256.024           | 264.579           | 270.558           | 274.108           | 275.471           |
| <b>145</b> | 192.914           | 210.372           | 224.663           | 232.052           | 237.255           | 240.416           | 241.437           |
| <b>150</b> | 159.274           | 172.933           | 188.251           | 198.702           | 203.128           | 205.848           | 206.724           |
| <b>155</b> | 127.571           | 137.588           | 148.770           | 163.258           | 169.725           | 172.057           | 172.788           |
| <b>160</b> | 98.014            | 102.585           | 110.606           | 120.721           | 133.406           | 135.987           | 136.619           |
| <b>165</b> | 69.478            | 72.001            | 73.318            | 78.764            | 86.785            | 95.775            | 96.164            |
| <b>170</b> | 41.569            | 43.222            | 43.268            | 43.175            | 46.963            | 56.301            | 60.674            |
| <b>175</b> | 21.443            | 21.686            | 21.535            | 19.836            | 18.084            | 18.328            | 26.547            |
| <b>180</b> | 0.000             | 0.000             | 0.000             | 0.000             | 0.000             | 0.000             | 0.000             |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_35\_HA\_BL.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 11.09   | N.A.  | 0.80   |
| 0-30    | 39.65   | N.A.  | 2.70   |
| 0-40    | 95.45   | N.A.  | 6.50   |
| 0-60    | 303.14  | N.A.  | 20.80  |
| 0-80    | 610.67  | N.A.  | 41.80  |
| 0-90    | 777.98  | N.A.  | 53.30  |
| 10-90   | 776.80  | N.A.  | 53.20  |
| 20-40   | 84.36   | N.A.  | 5.80   |
| 20-50   | 172.32  | N.A.  | 11.80  |
| 40-70   | 353.31  | N.A.  | 24.20  |
| 60-80   | 307.53  | N.A.  | 21.10  |
| 70-80   | 161.91  | N.A.  | 11.10  |
| 80-90   | 167.30  | N.A.  | 11.50  |
| 90-110  | 310.01  | N.A.  | 21.20  |
| 90-120  | 436.55  | N.A.  | 29.90  |
| 90-130  | 536.61  | N.A.  | 36.70  |
| 90-150  | 651.48  | N.A.  | 44.60  |
| 90-180  | 682.59  | N.A.  | 46.70  |
| 110-180 | 372.58  | N.A.  | 25.50  |
| 0-180   | 1460.57 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 1.18   |
| 10-20   | 9.91   |
| 20-30   | 28.57  |
| 30-40   | 55.80  |
| 40-50   | 87.96  |
| 50-60   | 119.73 |
| 60-70   | 145.62 |
| 70-80   | 161.91 |
| 80-90   | 167.30 |
| 90-100  | 162.11 |
| 100-110 | 147.89 |
| 110-120 | 126.54 |
| 120-130 | 100.06 |
| 130-140 | 70.95  |
| 140-150 | 43.92  |
| 150-160 | 22.39  |
| 160-170 | 7.71   |
| 170-180 | 1.01   |

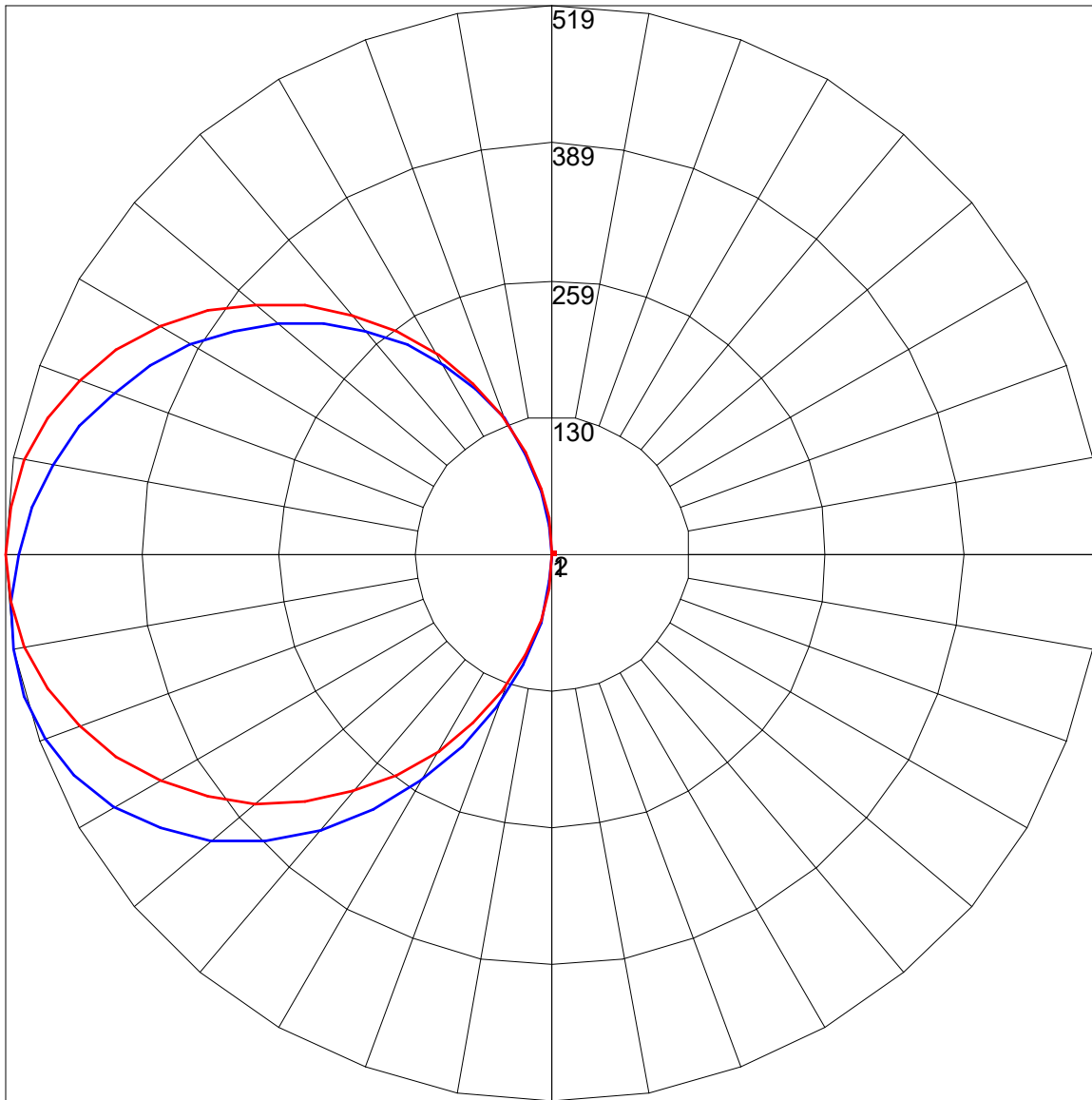
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_35\_HA\_BL.IES**

**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  | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 59 | 59 | 59 | 53 |
| 1  | 93  | 86  | 79  | 74  | 85  | 79  | 73  | 68  | 66 | 61 | 58 | 54 | 51 | 47 | 43 | 40 | 38 | 33 |
| 2  | 82  | 71  | 63  | 56  | 75  | 65  | 58  | 51  | 54 | 48 | 43 | 44 | 39 | 35 | 34 | 31 | 27 | 23 |
| 3  | 73  | 61  | 51  | 43  | 67  | 56  | 47  | 40  | 46 | 39 | 33 | 37 | 31 | 27 | 28 | 24 | 21 | 16 |
| 4  | 66  | 52  | 43  | 35  | 60  | 48  | 39  | 32  | 39 | 32 | 27 | 32 | 26 | 21 | 24 | 20 | 16 | 12 |
| 5  | 60  | 46  | 36  | 29  | 54  | 42  | 33  | 26  | 35 | 27 | 22 | 28 | 22 | 17 | 21 | 17 | 13 | 10 |
| 6  | 55  | 41  | 31  | 24  | 50  | 37  | 28  | 22  | 31 | 24 | 18 | 24 | 19 | 14 | 19 | 14 | 11 | 8  |
| 7  | 50  | 36  | 27  | 20  | 46  | 33  | 25  | 19  | 27 | 20 | 15 | 22 | 16 | 12 | 17 | 12 | 9  | 6  |
| 8  | 47  | 32  | 24  | 18  | 42  | 30  | 22  | 16  | 25 | 18 | 13 | 20 | 14 | 10 | 15 | 11 | 8  | 5  |
| 9  | 43  | 29  | 21  | 15  | 39  | 27  | 19  | 14  | 22 | 16 | 11 | 18 | 13 | 9  | 14 | 10 | 7  | 4  |
| 10 | 40  | 27  | 19  | 13  | 37  | 25  | 17  | 12  | 20 | 14 | 10 | 16 | 11 | 8  | 13 | 9  | 6  | 4  |

POLAR GRAPH



Maximum Candela = 518.659 Located At Horizontal Angle = 180, Vertical Angle = 80  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)