

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B2GB-BL-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L072413208 (SOURCE REPORT BASED FOR
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 8/27/2024
[MANUFAC] Vode Lighting LLC
[LUMCAT] 707-Z2-48-Z-359-B2GB-BL-LO
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 60° Graphtie Baffle, Black Finish, Low Output
[MORE] 3535 Low Glare, Low Output, Black
[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 353 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 27 |
| Total Luminaire Watts | 13.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.82 |
| Spacing Criterion (90-270) | 0.86 |
| Spacing Criterion (Diagonal) | 0.86 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 940 | 554 | 418 |
| 55 | 246 | 133 | 212 |
| 65 | 96 | 40 | 65 |
| 75 | 60 | 0 | 14 |
| 85 | 0 | 0 | 0 |

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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> |
|-----------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0 | 393.12 | 393.12 | 393.12 | 393.12 | 393.12 | 393.12 | 393.12 | 393.12 | 393.12 |
| 5 | 380.94 | 387.66 | 393.12 | 397.32 | 397.32 | 399.42 | 390.60 | 377.16 | 379.68 |
| 10 | 347.76 | 366.66 | 394.38 | 422.10 | 433.02 | 423.36 | 386.82 | 353.64 | 347.34 |
| 15 | 307.02 | 335.58 | 388.08 | 429.66 | 439.32 | 401.52 | 379.68 | 322.14 | 304.92 |
| 20 | 262.50 | 306.60 | 336.42 | 353.64 | 341.88 | 308.28 | 331.38 | 289.38 | 263.34 |
| 25 | 219.66 | 266.28 | 253.68 | 241.92 | 199.08 | 200.34 | 246.54 | 245.70 | 216.30 |
| 30 | 170.52 | 214.20 | 172.20 | 139.44 | 110.88 | 110.04 | 170.94 | 187.74 | 168.84 |
| 35 | 122.64 | 154.14 | 105.00 | 78.96 | 65.94 | 63.84 | 105.84 | 130.62 | 121.80 |
| 40 | 76.02 | 95.76 | 59.64 | 46.62 | 41.16 | 38.22 | 59.64 | 77.70 | 76.02 |
| 45 | 33.18 | 50.40 | 32.76 | 29.40 | 28.56 | 24.78 | 32.34 | 33.60 | 33.60 |
| 50 | 10.50 | 16.80 | 17.22 | 20.16 | 20.58 | 16.38 | 16.80 | 10.08 | 10.50 |
| 55 | 7.14 | 7.14 | 7.56 | 13.02 | 14.28 | 10.08 | 7.56 | 6.30 | 7.14 |
| 60 | 4.20 | 4.20 | 3.78 | 7.14 | 7.56 | 5.04 | 3.78 | 3.36 | 3.36 |
| 65 | 2.10 | 2.10 | 2.10 | 3.36 | 4.20 | 2.52 | 2.10 | 2.10 | 2.10 |
| 70 | 1.26 | 1.26 | 1.26 | 1.68 | 2.10 | 1.26 | 1.26 | 1.26 | 1.26 |
| 75 | 0.84 | 0.00 | 0.00 | 0.42 | 0.84 | 0.84 | 0.42 | 0.00 | 0.00 |
| 80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 139.76 | N.A. | 39.60 |
| 0-30 | 247.25 | N.A. | 70.00 |
| 0-40 | 313.49 | N.A. | 88.80 |
| 0-60 | 349.73 | N.A. | 99.00 |
| 0-80 | 353.11 | N.A. | 100.00 |
| 0-90 | 353.11 | N.A. | 100.00 |
| 10-90 | 315.79 | N.A. | 89.40 |
| 20-40 | 173.73 | N.A. | 49.20 |
| 20-50 | 201.27 | N.A. | 57.00 |
| 40-70 | 39.05 | N.A. | 11.10 |
| 60-80 | 3.37 | N.A. | 1.00 |
| 70-80 | 0.56 | N.A. | 0.20 |
| 80-90 | 0.00 | N.A. | 0.00 |
| 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 | 353.11 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 37.32 |
| 10-20 | 102.44 |
| 20-30 | 107.49 |
| 30-40 | 66.24 |
| 40-50 | 27.54 |
| 50-60 | 8.71 |
| 60-70 | 2.81 |
| 70-80 | 0.56 |
| 80-90 | 0.00 |
| 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 | 0 |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | 0 |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 | 0 |
| 3 | 102 | 96 | 91 | 86 | 100 | 94 | 90 | 86 | 92 | 88 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | 0 |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | 0 |
| 5 | 92 | 83 | 77 | 73 | 90 | 82 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 71 | 69 | 0 |
| 6 | 87 | 78 | 72 | 68 | 86 | 77 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 65 | 0 |
| 7 | 83 | 73 | 67 | 63 | 82 | 73 | 67 | 63 | 72 | 66 | 63 | 70 | 66 | 62 | 69 | 65 | 62 | 61 | 0 |
| 8 | 79 | 69 | 63 | 59 | 78 | 69 | 63 | 59 | 68 | 62 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 57 | 0 |
| 9 | 75 | 65 | 59 | 55 | 74 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 53 | 0 |
| 10 | 72 | 62 | 56 | 52 | 71 | 61 | 56 | 52 | 61 | 55 | 52 | 60 | 55 | 52 | 59 | 55 | 52 | 50 | 0 |

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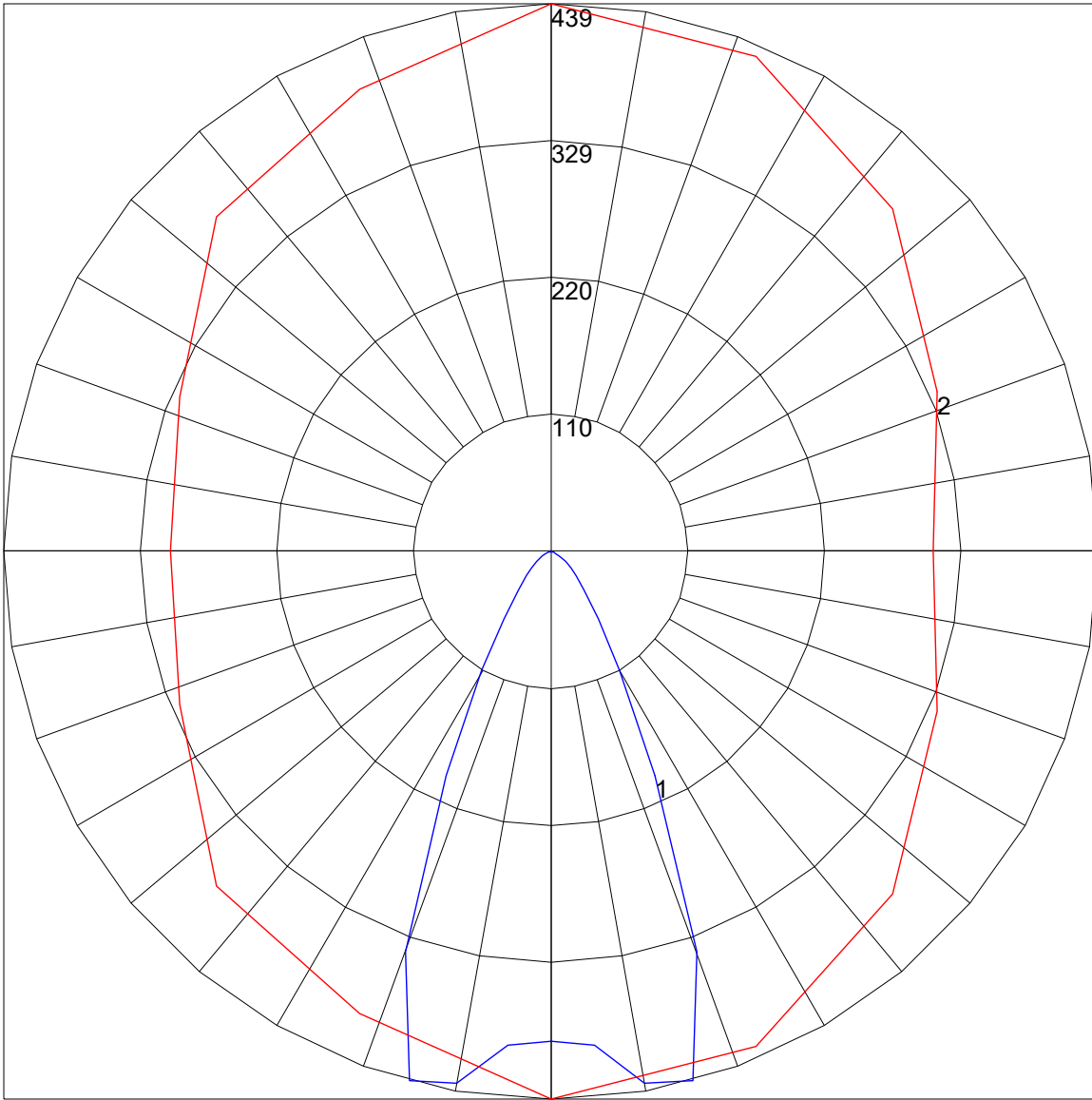
UGR TABLE - CORRECTED

| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.4 | 1.7 | 2.7 | 3.0 |
| | 3H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 2.5 | 1.9 | 2.8 | 3.2 |
| | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 2.4 | 1.9 | 2.7 | 3.1 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.2 | 1.8 | 2.6 | 3.0 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.1 | 1.8 | 2.5 | 2.9 |
| | 12H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.0 | 1.8 | 2.4 | 2.8 |
| 4H | 2H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.9 | 1.5 | 2.3 | 2.7 |
| | 3H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.0 | 1.7 | 2.4 | 2.8 |
| | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.9 | 1.7 | 2.3 | 2.8 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.7 | 1.7 | 2.2 | 2.6 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.6 | 1.6 | 2.1 | 2.5 |
| | 12H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.5 | 1.6 | 2.0 | 2.5 |
| 8H | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.6 | 1.6 | 2.1 | 2.5 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.4 | 1.5 | 1.9 | 2.4 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.3 | 1.5 | 1.8 | 2.3 |
| | 12H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.2 | 1.4 | 1.7 | 2.3 |
| 12H | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.5 | 1.6 | 2.0 | 2.4 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.3 | 1.5 | 1.8 | 2.3 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.2 | 1.4 | 1.7 | 2.3 |

Maximum UGR = 3.2

POLAR GRAPH



Maximum Candela = 439.32 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)