

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B3GB-WH-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L072413210 (SOURCE REPORT BASED FOR REFERENCE
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 8/27/2024
[MANUFAC] Vode Lighting LLC
[LUMCAT] 707-Z2-48-Z-359-B3GB-WH-LO
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 120° Graphite Baffle, White Finish, Low Output
[MORE] 3535 Low Glare, Low Output, White
[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 393 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 30 |
| Total Luminaire Watts | 13.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.78 |
| Spacing Criterion (90-270) | 1.14 |
| Spacing Criterion (Diagonal) | 1.02 |
| 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 | 773 | 1108 | 1535 |
| 55 | 260 | 311 | 854 |
| 65 | 134 | 80 | 327 |
| 75 | 60 | 27 | 71 |
| 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 | 327.18 | 327.18 | 327.18 | 327.18 | 327.18 | 327.18 | 327.18 | 327.18 | 327.18 |
| 5 | 312.06 | 315.84 | 315.84 | 322.56 | 326.34 | 326.34 | 322.98 | 310.38 | 314.16 |
| 10 | 277.62 | 291.48 | 301.14 | 316.68 | 327.60 | 318.78 | 298.20 | 285.18 | 286.02 |
| 15 | 248.64 | 260.40 | 276.36 | 318.78 | 337.26 | 312.06 | 282.66 | 250.74 | 250.74 |
| 20 | 207.90 | 226.80 | 262.50 | 316.68 | 345.24 | 307.44 | 260.40 | 216.72 | 214.20 |
| 25 | 169.68 | 189.84 | 236.46 | 296.52 | 319.20 | 287.28 | 236.04 | 178.50 | 173.04 |
| 30 | 129.36 | 154.56 | 205.38 | 238.98 | 235.20 | 210.00 | 205.38 | 144.06 | 136.50 |
| 35 | 94.50 | 119.70 | 154.14 | 175.14 | 184.80 | 152.04 | 153.30 | 107.94 | 97.86 |
| 40 | 61.32 | 82.74 | 101.64 | 131.88 | 142.38 | 113.40 | 97.02 | 73.50 | 63.42 |
| 45 | 27.30 | 47.88 | 65.52 | 95.34 | 105.00 | 79.38 | 60.90 | 38.64 | 31.08 |
| 50 | 10.50 | 18.48 | 38.22 | 66.36 | 78.54 | 55.02 | 34.44 | 12.18 | 11.34 |
| 55 | 7.56 | 8.82 | 17.64 | 43.26 | 57.54 | 36.12 | 15.54 | 7.56 | 7.56 |
| 60 | 4.20 | 5.46 | 7.56 | 26.04 | 38.22 | 20.58 | 7.56 | 4.20 | 5.46 |
| 65 | 2.94 | 3.36 | 4.20 | 13.86 | 21.00 | 9.66 | 4.20 | 2.52 | 2.94 |
| 70 | 2.10 | 2.10 | 2.10 | 5.88 | 9.66 | 4.62 | 2.52 | 1.26 | 1.26 |
| 75 | 0.84 | 1.26 | 1.26 | 2.52 | 4.20 | 2.10 | 1.26 | 0.84 | 0.84 |
| 80 | 0.00 | 0.42 | 0.84 | 1.26 | 1.26 | 0.84 | 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 | 110.57 | N.A. | 28.10 |
| 0-30 | 218.27 | N.A. | 55.50 |
| 0-40 | 308.04 | N.A. | 78.40 |
| 0-60 | 382.59 | N.A. | 97.30 |
| 0-80 | 392.92 | N.A. | 100.00 |
| 0-90 | 393.07 | N.A. | 100.00 |
| 10-90 | 363.10 | N.A. | 92.40 |
| 20-40 | 197.47 | N.A. | 50.20 |
| 20-50 | 249.29 | N.A. | 63.40 |
| 40-70 | 82.80 | N.A. | 21.10 |
| 60-80 | 10.32 | N.A. | 2.60 |
| 70-80 | 2.07 | N.A. | 0.50 |
| 80-90 | 0.16 | 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 | 393.07 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 29.97 |
| 10-20 | 80.60 |
| 20-30 | 107.70 |
| 30-40 | 89.77 |
| 40-50 | 51.82 |
| 50-60 | 22.73 |
| 60-70 | 8.25 |
| 70-80 | 2.07 |
| 80-90 | 0.16 |
| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 |
| 3 | 99 | 92 | 86 | 82 | 97 | 91 | 85 | 81 | 88 | 83 | 80 | 85 | 82 | 78 | 83 | 80 | 77 | 75 |
| 4 | 93 | 85 | 78 | 73 | 91 | 84 | 78 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 69 |
| 5 | 88 | 78 | 71 | 67 | 86 | 77 | 71 | 66 | 75 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 63 |
| 6 | 83 | 72 | 66 | 61 | 81 | 72 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 57 |
| 7 | 78 | 67 | 60 | 56 | 76 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 49 |
| 9 | 69 | 59 | 52 | 47 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 44 | 42 |

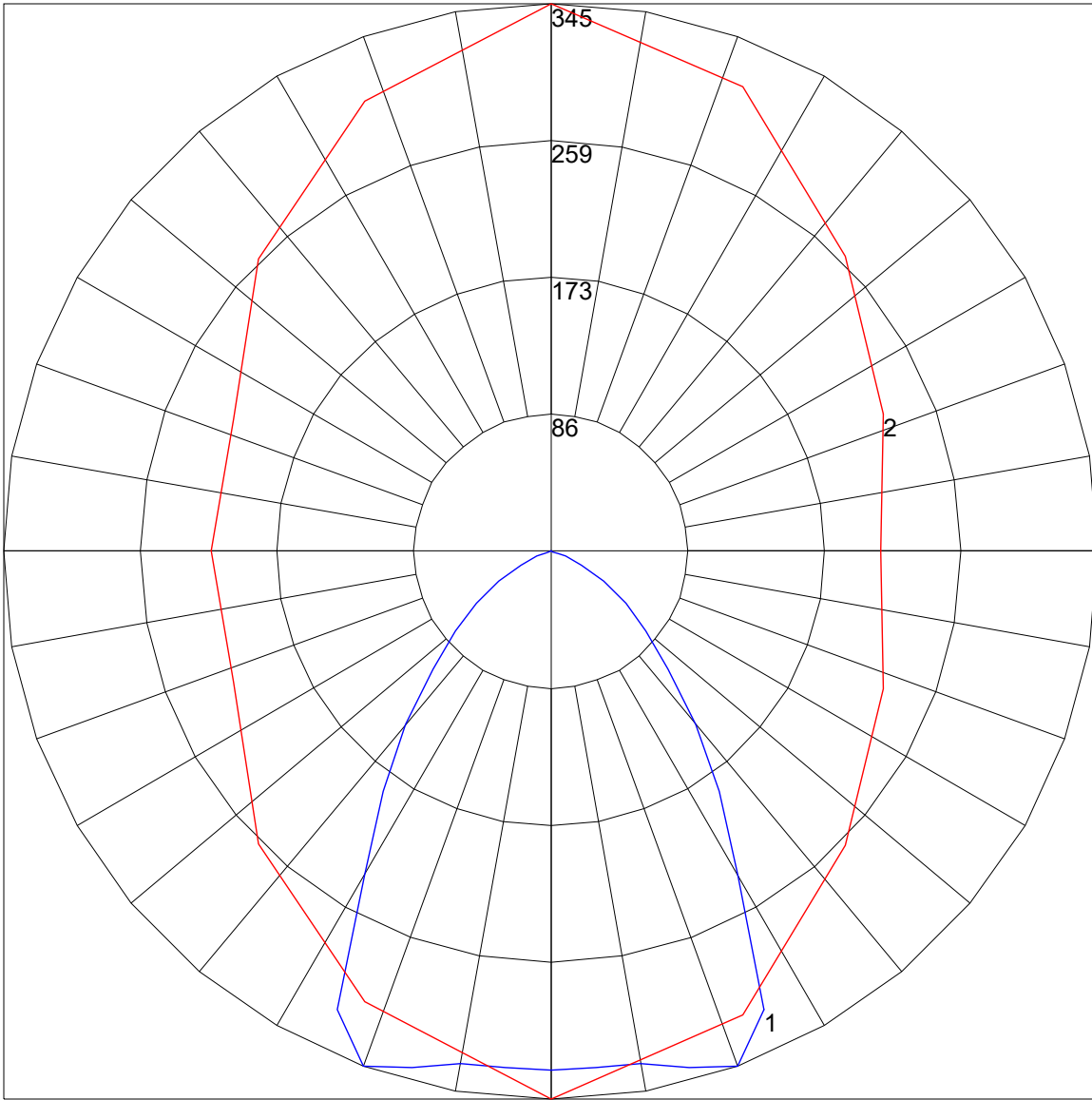
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UGR TABLE - CORRECTED

| 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 | 10.0 | 11.2 | 10.4 | 11.5 | 11.8 |
| | 3H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 11.4 | 10.7 | 11.7 | 12.1 |
| | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.4 | 11.3 | 10.8 | 11.7 | 12.1 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 11.2 | 10.7 | 11.6 | 11.9 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 11.1 | 10.7 | 11.5 | 11.9 |
| | 12H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 | 11.0 | 10.6 | 11.4 | 11.8 |
| 4H | 2H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 10.7 | 10.2 | 11.1 | 11.4 |
| | 3H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 | 10.9 | 10.5 | 11.3 | 11.7 |
| | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 | 10.8 | 10.6 | 11.2 | 11.7 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 | 10.7 | 10.5 | 11.1 | 11.6 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 10.6 | 10.5 | 11.0 | 11.5 |
| | 12H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 10.5 | 10.5 | 10.9 | 11.4 |
| 8H | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 10.5 | 10.4 | 11.0 | 11.4 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 10.4 | 10.4 | 10.9 | 11.3 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 | 10.2 | 10.4 | 10.8 | 11.3 |
| | 12H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 | 10.2 | 10.3 | 10.7 | 11.2 |
| 12H | 4H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 10.4 | 10.4 | 10.9 | 11.4 |
| | 6H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 | 10.2 | 10.4 | 10.7 | 11.3 |
| | 8H | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 | 10.2 | 10.3 | 10.6 | 11.2 |

Maximum UGR = 12.1

POLAR GRAPH



Maximum Candela = 345.24 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)