

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HALFPERF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] Photopia 2.0.0.17 PHOTOMETRIC REPORT
[MANUFAC] VODE LIGHTING
[LUMINAIRE] HalfPerf
[LAMP] 54W T5 HO

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Total Rated Lamp Lumens | 4500 |
| Total Luminaire Efficiency | 79.1 % |
| Luminaire Efficacy Rating (LER) | 60 |
| Total Luminaire Watts | 59 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criteria (0-180) | N.A. |
| Spacing Criteria (90-270) | N.A. |
| Spacing Criteria (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.23 m |
| Luminous Width (90-270) | 0.03 m |
| Luminous Height | 0.04 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8951 | 5268 | 4600 |
| 55 | 7760 | 4493 | 4381 |
| 65 | 6101 | 3938 | 4164 |
| 75 | 4231 | 3762 | 4249 |
| 85 | 3044 | 4411 | 5306 |

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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> |
|------------|------------|-------------|-------------|-------------|-------------|
| 0 | 383.49 | 383.49 | 383.49 | 383.49 | 383.49 |
| 5 | 310.10 | 358.61 | 336.61 | 321.03 | 329.95 |
| 10 | 337.29 | 340.75 | 356.07 | 342.28 | 329.01 |
| 15 | 336.73 | 332.41 | 343.20 | 350.66 | 335.54 |
| 20 | 316.31 | 322.34 | 331.21 | 354.41 | 348.12 |
| 25 | 310.49 | 319.79 | 316.94 | 336.95 | 338.83 |
| 30 | 303.68 | 298.94 | 311.05 | 316.80 | 331.25 |
| 35 | 276.07 | 279.10 | 300.46 | 324.09 | 312.52 |
| 40 | 256.84 | 259.74 | 282.23 | 305.86 | 316.06 |
| 45 | 230.81 | 239.15 | 279.34 | 290.11 | 293.41 |
| 50 | 196.93 | 212.92 | 248.14 | 278.55 | 275.26 |
| 55 | 164.76 | 185.29 | 237.17 | 259.96 | 285.85 |
| 60 | 136.39 | 159.35 | 216.82 | 257.57 | 269.62 |
| 65 | 97.80 | 139.70 | 200.61 | 244.84 | 269.55 |
| 70 | 69.92 | 116.24 | 191.25 | 242.53 | 264.13 |
| 75 | 43.76 | 94.55 | 178.87 | 245.57 | 264.48 |
| 80 | 21.99 | 84.63 | 176.83 | 249.04 | 283.38 |
| 85 | 13.21 | 77.39 | 188.43 | 269.84 | 307.03 |
| 90 | 25.39 | 88.69 | 199.72 | 276.82 | 307.27 |
| 95 | 54.12 | 125.75 | 222.90 | 315.60 | 338.71 |
| 100 | 75.35 | 163.58 | 260.05 | 343.85 | 372.03 |
| 105 | 101.44 | 203.52 | 309.61 | 375.11 | 404.16 |
| 110 | 137.41 | 225.15 | 343.44 | 421.39 | 448.93 |
| 115 | 170.15 | 247.53 | 365.36 | 454.16 | 478.05 |
| 120 | 204.31 | 260.95 | 391.89 | 479.12 | 499.87 |
| 125 | 240.89 | 279.89 | 408.55 | 486.89 | 517.79 |
| 130 | 272.44 | 289.84 | 403.78 | 498.42 | 528.14 |
| 135 | 304.38 | 306.57 | 391.93 | 490.25 | 515.37 |
| 140 | 345.51 | 317.02 | 399.84 | 465.32 | 499.35 |
| 145 | 371.80 | 341.64 | 387.27 | 440.67 | 475.31 |
| 150 | 390.73 | 358.13 | 364.98 | 421.37 | 433.92 |
| 155 | 406.27 | 384.17 | 370.77 | 402.38 | 413.10 |
| 160 | 430.48 | 403.09 | 380.69 | 396.33 | 377.50 |
| 165 | 478.18 | 411.90 | 390.91 | 414.80 | 396.59 |
| 170 | 452.58 | 452.88 | 387.26 | 396.30 | 392.23 |
| 175 | 479.37 | 484.39 | 472.30 | 403.58 | 425.74 |
| 180 | 477.30 | 477.30 | 477.30 | 477.30 | 477.30 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|-------|
| 0-30 | 278.66 | 6.2 | 7.8 |
| 0-40 | 465.85 | 10.4 | 13.1 |
| 0-60 | 874.48 | 19.4 | 24.6 |
| 0-90 | 1436.37 | 31.9 | 40.3 |
| 90-120 | 879.86 | 19.6 | 24.7 |
| 90-130 | 1226.52 | 27.3 | 34.4 |
| 90-150 | 1785.34 | 39.7 | 50.1 |
| 90-180 | 2124.84 | 47.2 | 59.7 |
| 0-180 | 3561.21 | 79.1 | 100 |

Total Luminaire Efficiency = 79.1%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 32.8 |
| 10-20 | 96.24 |
| 20-30 | 149.62 |
| 30-40 | 187.19 |
| 40-50 | 205.44 |
| 50-60 | 203.19 |
| 60-70 | 191.64 |
| 70-80 | 180.23 |
| 80-90 | 190.02 |
| 90-100 | 234.79 |
| 100-110 | 301.04 |
| 110-120 | 344.03 |
| 120-130 | 346.66 |
| 130-140 | 309.47 |
| 140-150 | 249.34 |
| 150-160 | 181.45 |
| 160-170 | 115.88 |
| 170-180 | 42.17 |

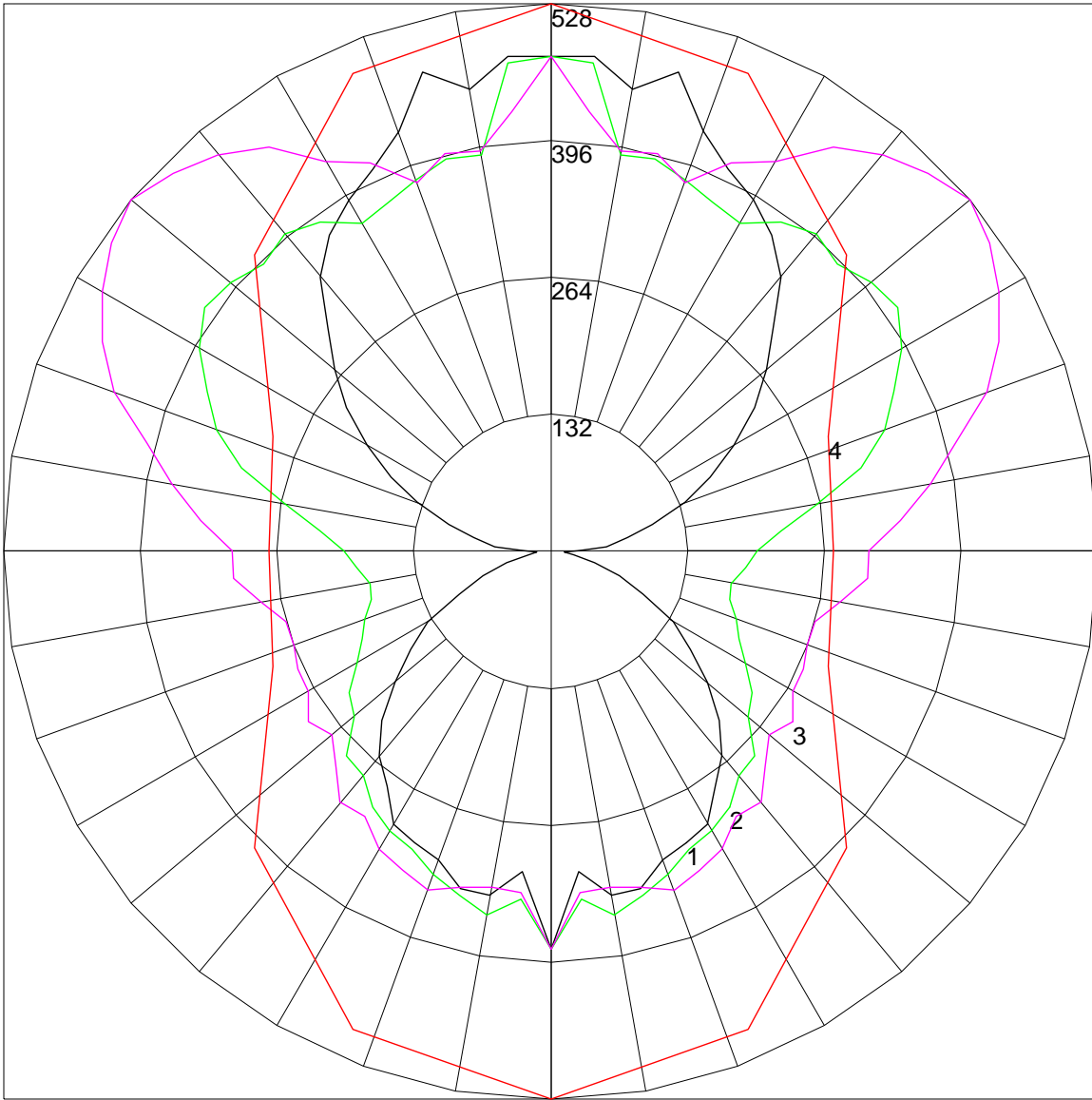
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | |
| 0 | 83 | 83 | 83 | 83 | 76 | 76 | 76 | 76 | 62 | 62 | 62 | 49 | 49 | 49 | 37 | 37 | 37 | 32 |
| 1 | 74 | 70 | 66 | 63 | 67 | 63 | 60 | 57 | 51 | 49 | 47 | 40 | 39 | 37 | 30 | 29 | 28 | 23 |
| 2 | 67 | 60 | 55 | 50 | 60 | 54 | 50 | 46 | 44 | 41 | 38 | 34 | 32 | 30 | 26 | 24 | 22 | 18 |
| 3 | 60 | 52 | 46 | 41 | 54 | 47 | 42 | 37 | 38 | 34 | 31 | 30 | 27 | 25 | 22 | 20 | 18 | 15 |
| 4 | 55 | 46 | 39 | 34 | 50 | 42 | 36 | 31 | 34 | 29 | 26 | 27 | 23 | 21 | 20 | 17 | 16 | 12 |
| 5 | 50 | 41 | 34 | 29 | 45 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 20 | 18 | 18 | 15 | 13 | 10 |
| 6 | 46 | 36 | 30 | 25 | 42 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 13 | 12 | 9 |
| 7 | 43 | 33 | 26 | 22 | 39 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 14 | 12 | 10 | 8 |
| 8 | 40 | 30 | 23 | 19 | 36 | 27 | 21 | 17 | 22 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9 | 7 |
| 9 | 37 | 27 | 21 | 17 | 33 | 25 | 19 | 15 | 20 | 16 | 13 | 16 | 13 | 10 | 12 | 10 | 8 | 6 |
| 10 | 34 | 25 | 19 | 15 | 31 | 22 | 17 | 14 | 19 | 14 | 12 | 15 | 12 | 9 | 11 | 9 | 7 | 6 |

POLAR GRAPH



Maximum Candela = 528.14 Located At Horizontal Angle = 90, Vertical Angle = 130

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 4 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)