

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-B-835-WSOTG-ITL90232.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/01/18

[TESTDATE]03/26/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-ID-RO-4ft-B-B-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 35.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 38.1 WATTS

[_ABSOLUTE]LUMENS]4308

[OTHER]see www.finelite.com for source file ITL90232. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4308 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 121 |
| Total Luminaire Watts | 35.5 |
| 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 | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.25 ft |
| Luminous Height | 0.18 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6330 | 4076 | 3607 |
| 55 | 6253 | 3594 | 3095 |
| 65 | 6103 | 3105 | 2904 |
| 75 | 5677 | 2902 | 2654 |
| 85 | 4408 | 1474 | 587 |

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 602.859 | 602.859 | 602.859 | 602.859 | 602.859 |
| 2.5 | 602.859 | 602.337 | 601.814 | 601.292 | 600.770 |
| 5.0 | 601.292 | 599.725 | 597.113 | 595.023 | 594.501 |
| 7.5 | 598.158 | 595.545 | 590.844 | 587.709 | 587.187 |
| 10.0 | 595.023 | 589.799 | 584.052 | 580.918 | 578.306 |
| 12.5 | 590.844 | 581.963 | 576.739 | 572.560 | 569.425 |
| 15.0 | 585.620 | 574.127 | 567.858 | 564.201 | 561.067 |
| 17.5 | 579.873 | 565.246 | 558.977 | 555.320 | 552.186 |
| 20.0 | 571.515 | 554.798 | 548.529 | 544.349 | 541.737 |
| 22.5 | 562.634 | 544.349 | 538.081 | 533.901 | 531.289 |
| 25.0 | 552.708 | 532.856 | 526.588 | 523.453 | 520.841 |
| 27.5 | 541.215 | 520.319 | 514.050 | 511.438 | 509.871 |
| 30.0 | 529.722 | 507.781 | 502.034 | 499.945 | 498.378 |
| 32.5 | 516.139 | 493.676 | 488.974 | 487.407 | 486.362 |
| 35.0 | 501.512 | 479.048 | 475.392 | 474.347 | 472.780 |
| 37.5 | 487.407 | 463.899 | 461.287 | 460.242 | 458.674 |
| 40.0 | 470.690 | 446.659 | 446.137 | 445.092 | 443.002 |
| 42.5 | 453.973 | 430.464 | 430.987 | 429.420 | 427.330 |
| 45.0 | 435.166 | 411.658 | 414.792 | 412.703 | 410.091 |
| 47.5 | 416.359 | 393.896 | 397.553 | 394.418 | 391.806 |
| 50.0 | 397.030 | 375.612 | 379.268 | 375.612 | 371.432 |
| 52.5 | 376.656 | 356.805 | 360.984 | 355.238 | 351.058 |
| 55.0 | 355.238 | 337.476 | 341.655 | 335.386 | 336.953 |
| 57.5 | 333.296 | 317.624 | 321.804 | 320.759 | 324.938 |
| 60.0 | 310.311 | 297.250 | 300.907 | 308.743 | 313.967 |
| 62.5 | 286.802 | 276.354 | 280.533 | 297.250 | 302.997 |
| 65.0 | 263.294 | 255.458 | 265.383 | 285.757 | 292.549 |
| 67.5 | 238.741 | 234.039 | 251.801 | 274.787 | 281.056 |
| 70.0 | 213.143 | 212.098 | 238.741 | 262.771 | 269.040 |
| 72.5 | 187.545 | 189.634 | 226.203 | 249.711 | 254.935 |
| 75.0 | 159.857 | 169.783 | 212.620 | 234.039 | 237.696 |
| 77.5 | 134.781 | 154.633 | 197.470 | 213.143 | 214.187 |
| 80.0 | 107.616 | 140.005 | 177.619 | 182.843 | 179.186 |
| 82.5 | 80.973 | 124.856 | 146.274 | 131.647 | 121.199 |
| 85.0 | 54.330 | 103.959 | 86.720 | 57.465 | 44.405 |
| 87.5 | 28.210 | 52.241 | 38.658 | 32.389 | 27.165 |
| 90.0 | 6.269 | 34.479 | 30.822 | 25.598 | 20.374 |
| 92.5 | 14.105 | 42.837 | 36.569 | 30.822 | 25.076 |
| 95.0 | 23.508 | 67.913 | 79.406 | 42.837 | 32.912 |
| 97.5 | 37.091 | 96.646 | 165.603 | 85.153 | 63.211 |
| 100.0 | 52.763 | 119.632 | 293.593 | 159.335 | 108.661 |
| 102.5 | 69.480 | 140.528 | 387.627 | 297.773 | 195.381 |
| 105.0 | 86.197 | 158.812 | 420.016 | 520.841 | 365.163 |
| 107.5 | 103.437 | 175.007 | 423.151 | 715.177 | 615.919 |
| 110.0 | 120.154 | 190.679 | 421.061 | 810.778 | 790.926 |
| 112.5 | 137.393 | 205.829 | 422.628 | 845.257 | 887.572 |
| 115.0 | 155.678 | 221.501 | 425.763 | 841.600 | 924.663 |
| 117.5 | 176.052 | 237.696 | 430.987 | 822.793 | 928.320 |
| 120.0 | 192.769 | 252.846 | 436.733 | 798.240 | 915.259 |
| 122.5 | 206.874 | 265.383 | 440.913 | 773.687 | 891.751 |
| 125.0 | 219.934 | 276.876 | 443.525 | 747.566 | 863.541 |
| 127.5 | 232.472 | 286.280 | 444.047 | 719.879 | 831.674 |
| 130.0 | 243.965 | 295.161 | 445.092 | 691.669 | 796.673 |
| 132.5 | 253.368 | 302.997 | 445.092 | 665.548 | 761.149 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-B-835-WSOTG-ITL90232.003.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 135.0 | 262.771 | 310.311 | 445.092 | 640.995 | 726.148 |
| 137.5 | 272.175 | 317.102 | 442.480 | 616.964 | 692.713 |
| 140.0 | 281.578 | 323.371 | 438.823 | 592.411 | 659.802 |
| 142.5 | 292.026 | 330.162 | 435.689 | 568.380 | 627.935 |
| 145.0 | 301.430 | 336.431 | 430.987 | 544.872 | 595.545 |
| 147.5 | 309.788 | 340.610 | 425.240 | 522.931 | 566.291 |
| 150.0 | 319.191 | 346.357 | 420.016 | 502.557 | 538.081 |
| 152.5 | 327.550 | 350.536 | 415.315 | 483.228 | 511.960 |
| 155.0 | 335.909 | 353.670 | 409.568 | 464.943 | 487.929 |
| 157.5 | 343.222 | 358.372 | 402.777 | 447.182 | 466.511 |
| 160.0 | 349.491 | 361.507 | 397.553 | 431.509 | 446.659 |
| 162.5 | 356.282 | 364.119 | 393.373 | 418.449 | 429.942 |
| 165.0 | 361.507 | 367.253 | 389.194 | 406.434 | 415.315 |
| 167.5 | 366.208 | 369.865 | 384.493 | 397.030 | 403.299 |
| 170.0 | 369.865 | 372.477 | 380.836 | 389.194 | 393.373 |
| 172.5 | 372.477 | 374.567 | 379.268 | 383.448 | 386.060 |
| 175.0 | 374.567 | 375.612 | 377.701 | 379.791 | 380.313 |
| 177.5 | 375.612 | 376.134 | 376.656 | 377.179 | 377.179 |
| 180.0 | 376.134 | 376.134 | 376.134 | 376.134 | 376.134 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-B-835-WSOTG-ITL90232.003.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 217.54 | N.A. | 5.00 |
| 0-30 | 461.91 | N.A. | 10.70 |
| 0-40 | 761.76 | N.A. | 17.70 |
| 0-60 | 1387.49 | N.A. | 32.20 |
| 0-80 | 1870.38 | N.A. | 43.40 |
| 0-90 | 1960.63 | N.A. | 45.50 |
| 10-90 | 1903.99 | N.A. | 44.20 |
| 20-40 | 544.22 | N.A. | 12.60 |
| 20-50 | 864.78 | N.A. | 20.10 |
| 40-70 | 894.62 | N.A. | 20.80 |
| 60-80 | 482.90 | N.A. | 11.20 |
| 70-80 | 214.00 | N.A. | 5.00 |
| 80-90 | 90.25 | N.A. | 2.10 |
| 90-110 | 420.53 | N.A. | 9.80 |
| 90-120 | 917.79 | N.A. | 21.30 |
| 90-130 | 1367.59 | N.A. | 31.70 |
| 90-150 | 2010.76 | N.A. | 46.70 |
| 90-180 | 2347.52 | N.A. | 54.50 |
| 110-180 | 1926.98 | N.A. | 44.70 |
| 0-180 | 4308.15 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 56.64 |
| 10-20 | 160.90 |
| 20-30 | 244.37 |
| 30-40 | 299.86 |
| 40-50 | 320.55 |
| 50-60 | 305.17 |
| 60-70 | 268.89 |
| 70-80 | 214.00 |
| 80-90 | 90.25 |
| 90-100 | 76.49 |
| 100-110 | 344.04 |
| 110-120 | 497.25 |
| 120-130 | 449.80 |
| 130-140 | 366.23 |
| 140-150 | 276.93 |
| 150-160 | 190.30 |
| 160-170 | 110.31 |
| 170-180 | 36.16 |

IES INDOOR REPORT

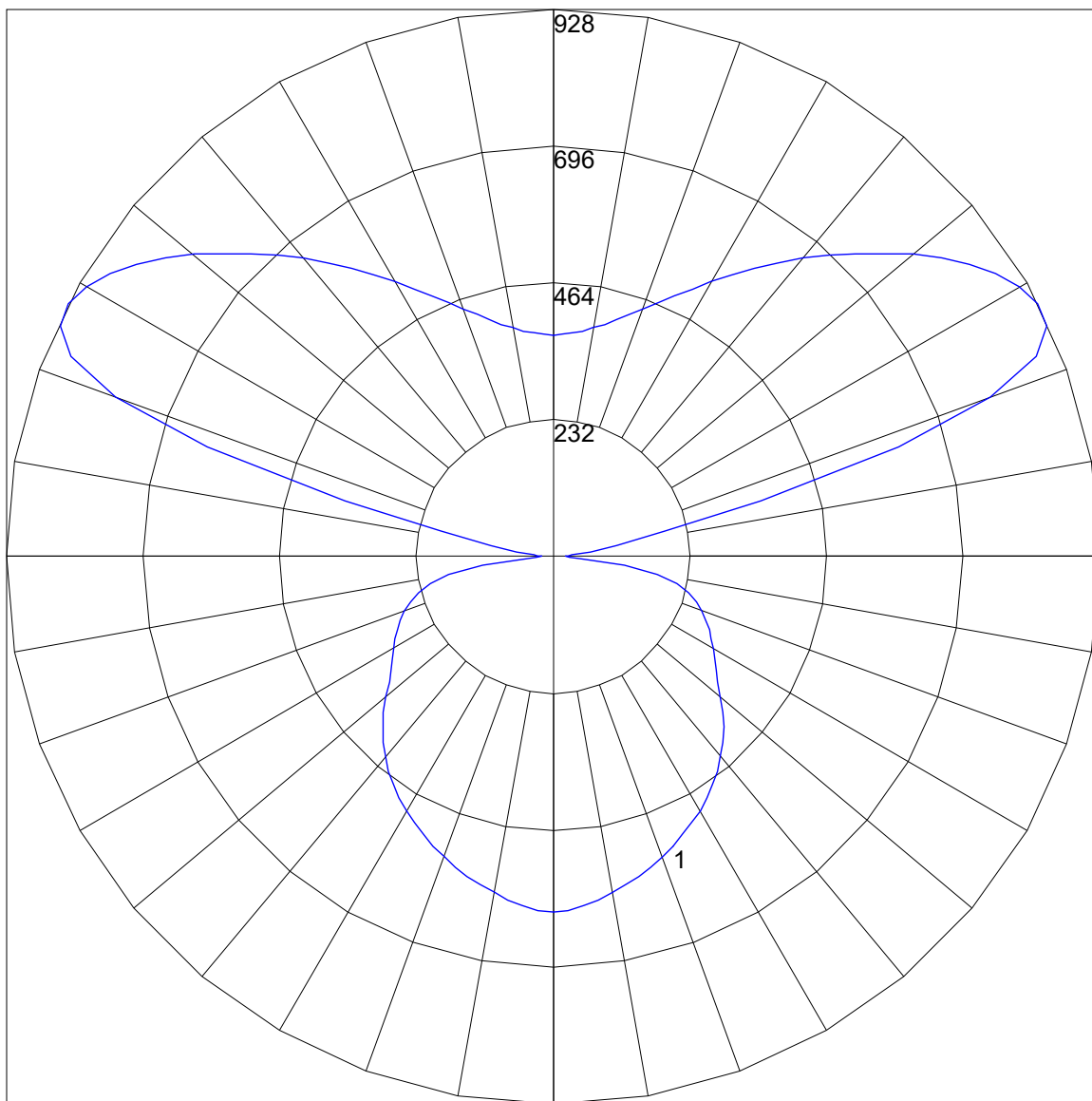
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-B-835-WSOTG-ITL90232.003.IES

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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 46 |
| 1 | 96 | 91 | 87 | 83 | 88 | 83 | 80 | 77 | 69 | 67 | 64 | 56 | 54 | 53 | 44 | 43 | 42 | 36 |
| 2 | 87 | 79 | 72 | 67 | 79 | 72 | 67 | 62 | 60 | 56 | 52 | 49 | 46 | 43 | 38 | 36 | 34 | 29 |
| 3 | 79 | 69 | 61 | 55 | 72 | 63 | 56 | 51 | 52 | 47 | 43 | 43 | 39 | 36 | 33 | 31 | 29 | 24 |
| 4 | 72 | 61 | 52 | 46 | 65 | 56 | 48 | 43 | 46 | 41 | 36 | 38 | 34 | 30 | 30 | 27 | 24 | 20 |
| 5 | 66 | 54 | 45 | 39 | 60 | 49 | 42 | 36 | 41 | 36 | 31 | 34 | 29 | 26 | 27 | 23 | 21 | 17 |
| 6 | 60 | 48 | 40 | 34 | 55 | 44 | 37 | 31 | 37 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 18 | 15 |
| 7 | 56 | 43 | 35 | 29 | 51 | 40 | 33 | 27 | 33 | 28 | 24 | 27 | 23 | 20 | 22 | 19 | 16 | 13 |
| 8 | 52 | 39 | 31 | 26 | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 14 | 12 |
| 9 | 48 | 36 | 28 | 23 | 44 | 33 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10 | 45 | 33 | 25 | 20 | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 21 | 17 | 14 | 17 | 14 | 12 | 10 |

POLAR GRAPH



Maximum Candela = 928.32 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)