

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 : HP-4-ID-4FT-B-B-8TW-F-DAO-ITL85125-ITL94331.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-4ft-B-B-8TW-F-DAO

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com
for lumen adjustment factors for other CCT's & CRI's

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.5 WATTS

[ABSOLUTE LUMENS]4150

[CONVERT] Photometric web converted from original test data

[OTHER]see www.finelite.com for source files ITL85125 and ITL94331. 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 | 4150 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 102 |
| Total Luminaire Watts | 40.6 |
| 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 |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.32 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6175 | 6375 | 5284 |
| 55 | 5304 | 5670 | 4699 |
| 65 | 4441 | 4826 | 4096 |
| 75 | 3576 | 3957 | 3543 |
| 85 | 2802 | 3048 | 3097 |

IES INDOOR REPORT

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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> |
|-------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0.0 | 798.777 | 798.777 | 798.777 | 798.777 | 798.777 | 798.777 | 798.777 | 798.777 | 798.777 |
| 2.5 | 815.247 | 814.217 | 810.100 | 804.439 | 798.263 | 791.057 | 785.910 | 781.793 | 780.249 |
| 5.0 | 828.114 | 826.055 | 818.850 | 807.527 | 794.145 | 781.278 | 768.926 | 762.235 | 759.662 |
| 7.5 | 837.893 | 834.290 | 824.511 | 807.527 | 787.454 | 767.382 | 750.398 | 741.133 | 737.531 |
| 10.0 | 844.583 | 841.495 | 826.570 | 804.439 | 779.220 | 751.942 | 731.869 | 719.002 | 712.826 |
| 12.5 | 846.642 | 844.069 | 826.570 | 798.263 | 769.441 | 734.443 | 711.797 | 695.842 | 689.151 |
| 15.0 | 844.583 | 841.495 | 822.967 | 788.998 | 755.544 | 714.885 | 690.181 | 672.167 | 664.961 |
| 17.5 | 837.893 | 835.319 | 816.276 | 778.190 | 739.589 | 694.298 | 665.476 | 648.492 | 639.742 |
| 20.0 | 826.570 | 825.026 | 805.983 | 762.750 | 722.091 | 671.138 | 641.286 | 623.787 | 616.067 |
| 22.5 | 811.129 | 809.585 | 792.086 | 746.795 | 703.562 | 646.948 | 618.126 | 599.083 | 593.421 |
| 25.0 | 791.572 | 791.057 | 775.102 | 728.266 | 680.916 | 622.758 | 593.421 | 575.922 | 571.290 |
| 27.5 | 768.411 | 768.411 | 754.000 | 706.650 | 657.241 | 597.539 | 567.173 | 553.277 | 547.615 |
| 30.0 | 741.648 | 743.192 | 730.325 | 682.975 | 630.993 | 570.261 | 543.498 | 530.116 | 526.514 |
| 32.5 | 711.797 | 713.856 | 704.077 | 658.271 | 603.715 | 544.013 | 518.279 | 506.956 | 505.412 |
| 35.0 | 676.799 | 681.946 | 676.284 | 629.963 | 574.378 | 516.220 | 494.089 | 485.339 | 483.281 |
| 37.5 | 642.830 | 649.006 | 643.860 | 600.112 | 543.498 | 488.942 | 468.870 | 463.723 | 463.208 |
| 40.0 | 604.744 | 613.494 | 611.435 | 569.232 | 513.647 | 460.635 | 443.651 | 440.563 | 443.136 |
| 42.5 | 567.173 | 573.349 | 577.981 | 537.836 | 482.766 | 433.357 | 419.461 | 419.461 | 421.520 |
| 45.0 | 524.455 | 534.748 | 541.439 | 502.324 | 448.798 | 405.050 | 395.271 | 398.359 | 400.933 |
| 47.5 | 485.339 | 496.662 | 504.382 | 468.870 | 417.917 | 378.287 | 369.537 | 376.228 | 381.375 |
| 50.0 | 445.709 | 455.488 | 466.296 | 435.416 | 385.492 | 351.524 | 345.862 | 354.097 | 359.759 |
| 52.5 | 406.594 | 415.344 | 428.725 | 399.389 | 353.582 | 322.187 | 321.673 | 331.451 | 338.142 |
| 55.0 | 365.420 | 377.257 | 390.639 | 363.876 | 323.731 | 296.453 | 297.483 | 309.320 | 317.040 |
| 57.5 | 328.363 | 338.142 | 352.553 | 330.422 | 292.851 | 269.690 | 273.293 | 287.189 | 294.909 |
| 60.0 | 290.277 | 302.115 | 316.526 | 297.483 | 264.029 | 244.471 | 248.589 | 262.485 | 270.720 |
| 62.5 | 256.823 | 265.058 | 281.013 | 263.514 | 236.236 | 219.252 | 225.943 | 239.839 | 248.074 |
| 65.0 | 225.428 | 232.633 | 244.986 | 231.604 | 207.929 | 196.092 | 201.238 | 216.679 | 224.399 |
| 67.5 | 192.489 | 198.665 | 211.532 | 201.753 | 181.166 | 171.902 | 179.107 | 193.518 | 198.665 |
| 70.0 | 164.696 | 169.328 | 180.651 | 172.417 | 156.976 | 148.741 | 155.947 | 169.328 | 174.990 |
| 72.5 | 135.875 | 141.021 | 151.315 | 144.109 | 133.301 | 126.610 | 134.330 | 145.139 | 151.315 |
| 75.0 | 111.170 | 115.287 | 123.008 | 118.376 | 110.141 | 106.023 | 112.199 | 122.493 | 127.640 |
| 77.5 | 88.524 | 91.098 | 97.274 | 94.700 | 88.524 | 85.436 | 91.612 | 99.332 | 102.421 |
| 80.0 | 66.908 | 68.967 | 73.599 | 73.084 | 67.937 | 66.393 | 71.025 | 77.716 | 79.775 |
| 82.5 | 47.350 | 47.865 | 51.468 | 50.953 | 49.409 | 48.380 | 51.468 | 55.585 | 57.644 |
| 85.0 | 29.337 | 29.337 | 31.910 | 31.910 | 32.425 | 30.881 | 32.939 | 34.483 | 36.027 |
| 87.5 | 11.323 | 12.352 | 13.382 | 14.411 | 14.926 | 14.411 | 14.926 | 15.440 | 15.955 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 15.438 | 16.467 | 17.496 | 19.555 | 20.069 | 19.555 | 17.496 | 16.467 | 15.438 |
| 95.0 | 36.536 | 37.051 | 39.109 | 41.682 | 42.197 | 41.682 | 39.109 | 37.051 | 36.536 |
| 97.5 | 59.178 | 59.693 | 62.266 | 64.839 | 64.324 | 64.839 | 62.266 | 59.693 | 59.178 |
| 100.0 | 82.335 | 83.364 | 85.937 | 88.510 | 87.995 | 88.510 | 85.937 | 83.364 | 82.335 |
| 102.5 | 106.006 | 108.064 | 110.638 | 113.210 | 113.210 | 113.210 | 110.638 | 108.064 | 106.006 |
| 105.0 | 132.250 | 134.309 | 136.882 | 138.940 | 138.425 | 138.940 | 136.882 | 134.309 | 132.250 |
| 107.5 | 160.038 | 161.582 | 163.126 | 165.184 | 165.184 | 165.184 | 163.126 | 161.582 | 160.038 |
| 110.0 | 189.885 | 189.885 | 191.429 | 193.487 | 192.972 | 193.487 | 191.429 | 189.885 | 189.885 |
| 112.5 | 219.731 | 218.702 | 220.760 | 223.848 | 221.275 | 223.848 | 220.760 | 218.702 | 219.731 |
| 115.0 | 249.578 | 248.548 | 249.578 | 252.151 | 250.092 | 252.151 | 249.578 | 248.548 | 249.578 |
| 117.5 | 279.424 | 279.939 | 280.453 | 280.968 | 279.424 | 280.968 | 280.453 | 279.939 | 279.424 |
| 120.0 | 309.785 | 310.814 | 310.300 | 309.785 | 308.756 | 309.785 | 310.300 | 310.814 | 309.785 |
| 122.5 | 340.661 | 341.690 | 341.690 | 340.146 | 338.602 | 340.146 | 341.690 | 341.690 | 340.661 |
| 125.0 | 372.051 | 373.594 | 373.594 | 370.507 | 368.963 | 370.507 | 373.594 | 373.594 | 372.051 |
| 127.5 | 403.441 | 404.470 | 405.499 | 400.868 | 397.780 | 400.868 | 405.499 | 404.470 | 403.441 |
| 130.0 | 433.802 | 434.317 | 435.346 | 432.258 | 429.685 | 432.258 | 435.346 | 434.317 | 433.802 |
| 132.5 | 464.678 | 464.163 | 464.678 | 462.619 | 459.532 | 462.619 | 464.678 | 464.163 | 464.678 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-F-DAO-ITL85125-ITL94331.902.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 135.0 | 495.553 | 492.980 | 494.524 | 492.980 | 489.378 | 492.980 | 494.524 | 492.980 | 495.553 |
| 137.5 | 525.399 | 521.283 | 523.856 | 521.797 | 518.195 | 521.797 | 523.856 | 521.283 | 525.399 |
| 140.0 | 555.246 | 550.615 | 553.702 | 551.644 | 547.527 | 551.644 | 553.702 | 550.615 | 555.246 |
| 142.5 | 582.519 | 578.917 | 582.519 | 579.432 | 575.830 | 579.432 | 582.519 | 578.917 | 582.519 |
| 145.0 | 611.851 | 605.676 | 609.793 | 606.705 | 603.103 | 606.705 | 609.793 | 605.676 | 611.851 |
| 147.5 | 638.095 | 631.920 | 636.037 | 632.949 | 629.347 | 632.949 | 636.037 | 631.920 | 638.095 |
| 150.0 | 663.825 | 657.135 | 661.252 | 658.164 | 655.077 | 658.164 | 661.252 | 657.135 | 663.825 |
| 152.5 | 686.467 | 681.321 | 685.438 | 681.836 | 679.263 | 681.836 | 685.438 | 681.321 | 686.467 |
| 155.0 | 708.595 | 703.449 | 707.051 | 703.963 | 701.390 | 703.963 | 707.051 | 703.449 | 708.595 |
| 157.5 | 730.207 | 725.062 | 728.149 | 725.062 | 723.003 | 725.062 | 728.149 | 725.062 | 730.207 |
| 160.0 | 748.733 | 744.616 | 747.704 | 744.616 | 743.072 | 744.616 | 747.704 | 744.616 | 748.733 |
| 162.5 | 766.229 | 761.598 | 765.200 | 762.112 | 761.083 | 762.112 | 765.200 | 761.598 | 766.229 |
| 165.0 | 780.638 | 777.035 | 779.094 | 777.550 | 777.035 | 777.550 | 779.094 | 777.035 | 780.638 |
| 167.5 | 793.502 | 790.415 | 791.959 | 790.929 | 790.929 | 790.929 | 791.959 | 790.415 | 793.502 |
| 170.0 | 804.309 | 802.250 | 803.280 | 802.250 | 802.250 | 802.250 | 803.280 | 802.250 | 804.309 |
| 172.5 | 812.028 | 812.028 | 811.513 | 811.513 | 811.513 | 811.513 | 811.513 | 812.028 | 812.028 |
| 175.0 | 818.203 | 818.203 | 818.203 | 817.688 | 818.203 | 817.688 | 818.203 | 818.203 | 818.203 |
| 177.5 | 821.805 | 822.320 | 822.320 | 822.320 | 822.320 | 822.320 | 822.320 | 822.320 | 821.805 |
| 180.0 | 823.349 | 823.349 | 823.349 | 823.349 | 823.349 | 823.349 | 823.349 | 823.349 | 823.349 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-F-DAO-ITL85125-ITL94331.902.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 288.05 | N.A. | 6.90 |
| 0-30 | 601.44 | N.A. | 14.50 |
| 0-40 | 963.81 | N.A. | 23.20 |
| 0-60 | 1621.64 | N.A. | 39.10 |
| 0-80 | 1962.58 | N.A. | 47.30 |
| 0-90 | 1998.75 | N.A. | 48.20 |
| 10-90 | 1923.43 | N.A. | 46.30 |
| 20-40 | 675.76 | N.A. | 16.30 |
| 20-50 | 1031.65 | N.A. | 24.90 |
| 40-70 | 875.58 | N.A. | 21.10 |
| 60-80 | 340.94 | N.A. | 8.20 |
| 70-80 | 123.20 | N.A. | 3.00 |
| 80-90 | 36.17 | N.A. | 0.90 |
| 90-110 | 188.77 | N.A. | 4.50 |
| 90-120 | 436.67 | N.A. | 10.50 |
| 90-130 | 769.23 | N.A. | 18.50 |
| 90-150 | 1529.44 | N.A. | 36.90 |
| 90-180 | 2151.12 | N.A. | 51.80 |
| 110-180 | 1962.35 | N.A. | 47.30 |
| 0-180 | 4149.87 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 75.32 |
| 10-20 | 212.73 |
| 20-30 | 313.39 |
| 30-40 | 362.37 |
| 40-50 | 355.90 |
| 50-60 | 301.94 |
| 60-70 | 217.74 |
| 70-80 | 123.20 |
| 80-90 | 36.17 |
| 90-100 | 44.11 |
| 100-110 | 144.66 |
| 110-120 | 247.90 |
| 120-130 | 332.56 |
| 130-140 | 380.45 |
| 140-150 | 379.77 |
| 150-160 | 324.72 |
| 160-170 | 219.35 |
| 170-180 | 77.61 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-F-DAO-ITL85125-ITL94331.902.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

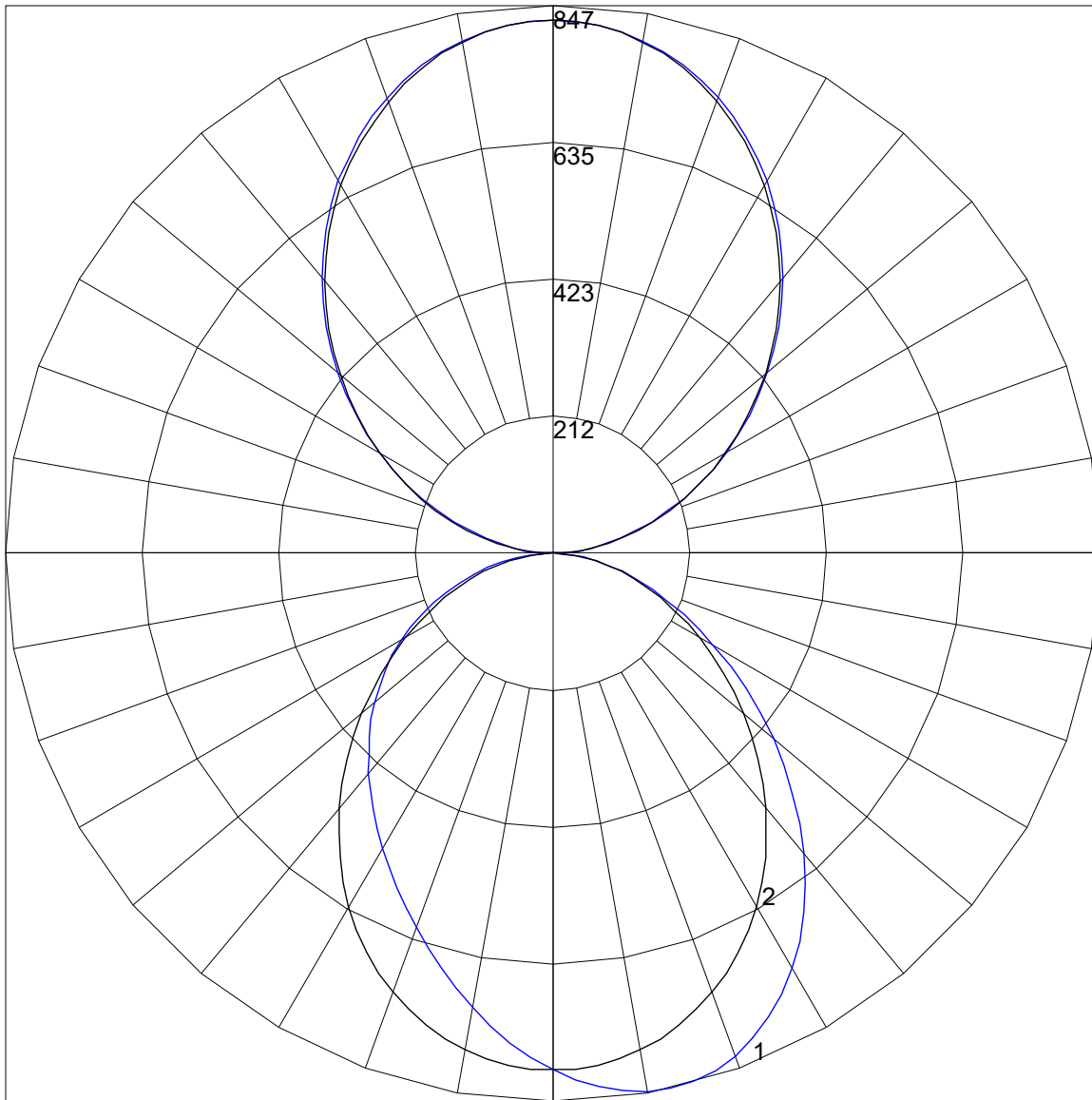
Effective Floor Cavity Reflectance 0.20

| 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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 |
| 1 | 97 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | 41 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 60 | 56 | 53 | 50 | 47 | 43 | 41 | 39 | 34 |
| 3 | 81 | 72 | 64 | 59 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 35 | 33 | 29 |
| 4 | 74 | 63 | 56 | 50 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 34 | 34 | 31 | 29 | 25 |
| 5 | 68 | 57 | 49 | 43 | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 22 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 29 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 36 | 31 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 17 |
| 8 | 54 | 42 | 34 | 29 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 31 | 26 | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 21 | 18 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

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POLAR GRAPH



Maximum Candela = 846.642 Located At Horizontal Angle = 0, Vertical Angle = 12.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)