

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-V-B-835-F-DAO-ITL85125-ITL94331.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.005 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-4ft-V-B-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 55.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 57.6 WATTS

[ABSOLUTE]LUMENS]6179

[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 | 6179 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 111 |
| Total Luminaire Watts | 55.6 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Indirect |
| 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

PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-F-DAO-ITL85125-ITL94331.005.IES

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 | 798.262 | 791.057 | 785.910 | 781.793 | 780.249 |
| 5.0 | 828.114 | 826.055 | 818.849 | 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 | 779.219 | 751.942 | 731.869 | 719.002 | 712.826 |
| 12.5 | 846.642 | 844.069 | 826.570 | 798.262 | 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 | 722.090 | 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 | 728.267 | 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 | 448.797 | 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 | 321.672 | 331.451 | 338.142 |
| 55.0 | 365.420 | 377.258 | 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 | 232.634 | 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 | 172.416 | 156.976 | 148.741 | 155.947 | 169.328 | 174.990 |
| 72.5 | 135.874 | 141.021 | 151.315 | 144.109 | 133.301 | 126.610 | 134.330 | 145.139 | 151.315 |
| 75.0 | 111.170 | 115.287 | 123.008 | 118.375 | 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 | 30.000 | 32.000 | 34.000 | 38.000 | 39.000 | 38.000 | 34.000 | 32.000 | 30.000 |
| 95.0 | 71.000 | 72.000 | 76.000 | 81.000 | 82.000 | 81.000 | 76.000 | 72.000 | 71.000 |
| 97.5 | 115.000 | 116.000 | 121.000 | 126.000 | 125.000 | 126.000 | 121.000 | 116.000 | 115.000 |
| 100.0 | 160.000 | 162.000 | 167.000 | 172.000 | 171.000 | 172.000 | 167.000 | 162.000 | 160.000 |
| 102.5 | 206.000 | 210.000 | 215.000 | 220.000 | 220.000 | 220.000 | 215.000 | 210.000 | 206.000 |
| 105.0 | 257.000 | 261.000 | 266.000 | 270.000 | 269.000 | 270.000 | 266.000 | 261.000 | 257.000 |
| 107.5 | 311.000 | 314.000 | 317.000 | 321.000 | 321.000 | 321.000 | 317.000 | 314.000 | 311.000 |
| 110.0 | 369.000 | 369.000 | 372.000 | 376.000 | 375.000 | 376.000 | 372.000 | 369.000 | 369.000 |
| 112.5 | 427.000 | 425.000 | 429.000 | 435.000 | 430.000 | 435.000 | 429.000 | 425.000 | 427.000 |
| 115.0 | 485.000 | 483.000 | 485.000 | 490.000 | 486.000 | 490.000 | 485.000 | 483.000 | 485.000 |
| 117.5 | 543.000 | 544.000 | 545.000 | 546.000 | 543.000 | 546.000 | 545.000 | 544.000 | 543.000 |
| 120.0 | 602.000 | 604.000 | 603.000 | 602.000 | 600.000 | 602.000 | 603.000 | 604.000 | 602.000 |
| 122.5 | 662.000 | 664.000 | 664.000 | 661.000 | 658.000 | 661.000 | 664.000 | 664.000 | 662.000 |
| 125.0 | 723.000 | 726.000 | 726.000 | 720.000 | 717.000 | 720.000 | 726.000 | 726.000 | 723.000 |
| 127.5 | 784.000 | 786.000 | 788.000 | 779.000 | 773.000 | 779.000 | 788.000 | 786.000 | 784.000 |
| 130.0 | 843.000 | 844.000 | 846.000 | 840.000 | 835.000 | 840.000 | 846.000 | 844.000 | 843.000 |
| 132.5 | 903.000 | 902.000 | 903.000 | 899.000 | 893.000 | 899.000 | 903.000 | 902.000 | 903.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-F-DAO-ITL85125-ITL94331.005.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 963.000 | 958.000 | 961.000 | 958.000 | 951.000 | 958.000 | 961.000 | 958.000 | 963.000 |
| 137.5 | 1021.000 | 1013.000 | 1018.000 | 1014.000 | 1007.000 | 1014.000 | 1018.000 | 1013.000 | 1021.000 |
| 140.0 | 1079.000 | 1070.000 | 1076.000 | 1072.000 | 1064.000 | 1072.000 | 1076.000 | 1070.000 | 1079.000 |
| 142.5 | 1132.000 | 1125.000 | 1132.000 | 1126.000 | 1119.000 | 1126.000 | 1132.000 | 1125.000 | 1132.000 |
| 145.0 | 1189.000 | 1177.000 | 1185.000 | 1179.000 | 1172.000 | 1179.000 | 1185.000 | 1177.000 | 1189.000 |
| 147.5 | 1240.000 | 1228.000 | 1236.000 | 1230.000 | 1223.000 | 1230.000 | 1236.000 | 1228.000 | 1240.000 |
| 150.0 | 1290.000 | 1277.000 | 1285.000 | 1279.000 | 1273.000 | 1279.000 | 1285.000 | 1277.000 | 1290.000 |
| 152.5 | 1334.000 | 1324.000 | 1332.000 | 1325.000 | 1320.000 | 1325.000 | 1332.000 | 1324.000 | 1334.000 |
| 155.0 | 1377.000 | 1367.000 | 1374.000 | 1368.000 | 1363.000 | 1368.000 | 1374.000 | 1367.000 | 1377.000 |
| 157.5 | 1419.000 | 1409.000 | 1415.000 | 1409.000 | 1405.000 | 1409.000 | 1415.000 | 1409.000 | 1419.000 |
| 160.0 | 1455.000 | 1447.000 | 1453.000 | 1447.000 | 1444.000 | 1447.000 | 1453.000 | 1447.000 | 1455.000 |
| 162.5 | 1489.000 | 1480.000 | 1487.000 | 1481.000 | 1479.000 | 1481.000 | 1487.000 | 1480.000 | 1489.000 |
| 165.0 | 1517.000 | 1510.000 | 1514.000 | 1511.000 | 1510.000 | 1511.000 | 1514.000 | 1510.000 | 1517.000 |
| 167.5 | 1542.000 | 1536.000 | 1539.000 | 1537.000 | 1537.000 | 1537.000 | 1539.000 | 1536.000 | 1542.000 |
| 170.0 | 1563.000 | 1559.000 | 1561.000 | 1559.000 | 1559.000 | 1559.000 | 1561.000 | 1559.000 | 1563.000 |
| 172.5 | 1578.000 | 1578.000 | 1577.000 | 1577.000 | 1577.000 | 1577.000 | 1577.000 | 1578.000 | 1578.000 |
| 175.0 | 1590.000 | 1590.000 | 1590.000 | 1589.000 | 1590.000 | 1589.000 | 1590.000 | 1590.000 | 1590.000 |
| 177.5 | 1597.000 | 1598.000 | 1598.000 | 1598.000 | 1598.000 | 1598.000 | 1598.000 | 1598.000 | 1597.000 |
| 180.0 | 1600.000 | 1600.000 | 1600.000 | 1600.000 | 1600.000 | 1600.000 | 1600.000 | 1600.000 | 1600.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-F-DAO-ITL85125-ITL94331.005.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 288.05 | N.A. | 4.70 |
| 0-30 | 601.44 | N.A. | 9.70 |
| 0-40 | 963.80 | N.A. | 15.60 |
| 0-60 | 1621.64 | N.A. | 26.20 |
| 0-80 | 1962.58 | N.A. | 31.80 |
| 0-90 | 1998.75 | N.A. | 32.30 |
| 10-90 | 1923.43 | N.A. | 31.10 |
| 20-40 | 675.76 | N.A. | 10.90 |
| 20-50 | 1031.65 | N.A. | 16.70 |
| 40-70 | 875.58 | N.A. | 14.20 |
| 60-80 | 340.93 | N.A. | 5.50 |
| 70-80 | 123.20 | N.A. | 2.00 |
| 80-90 | 36.17 | N.A. | 0.60 |
| 90-110 | 366.84 | N.A. | 5.90 |
| 90-120 | 848.57 | N.A. | 13.70 |
| 90-130 | 1494.82 | N.A. | 24.20 |
| 90-150 | 2972.13 | N.A. | 48.10 |
| 90-180 | 4180.24 | N.A. | 67.70 |
| 110-180 | 3813.4 | N.A. | 61.70 |
| 0-180 | 6178.99 | 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 | 85.72 |
| 100-110 | 281.12 |
| 110-120 | 481.73 |
| 120-130 | 646.25 |
| 130-140 | 739.31 |
| 140-150 | 738.00 |
| 150-160 | 631.02 |
| 160-170 | 426.27 |
| 170-180 | 150.82 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-F-DAO-ITL85125-ITL94331.005.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

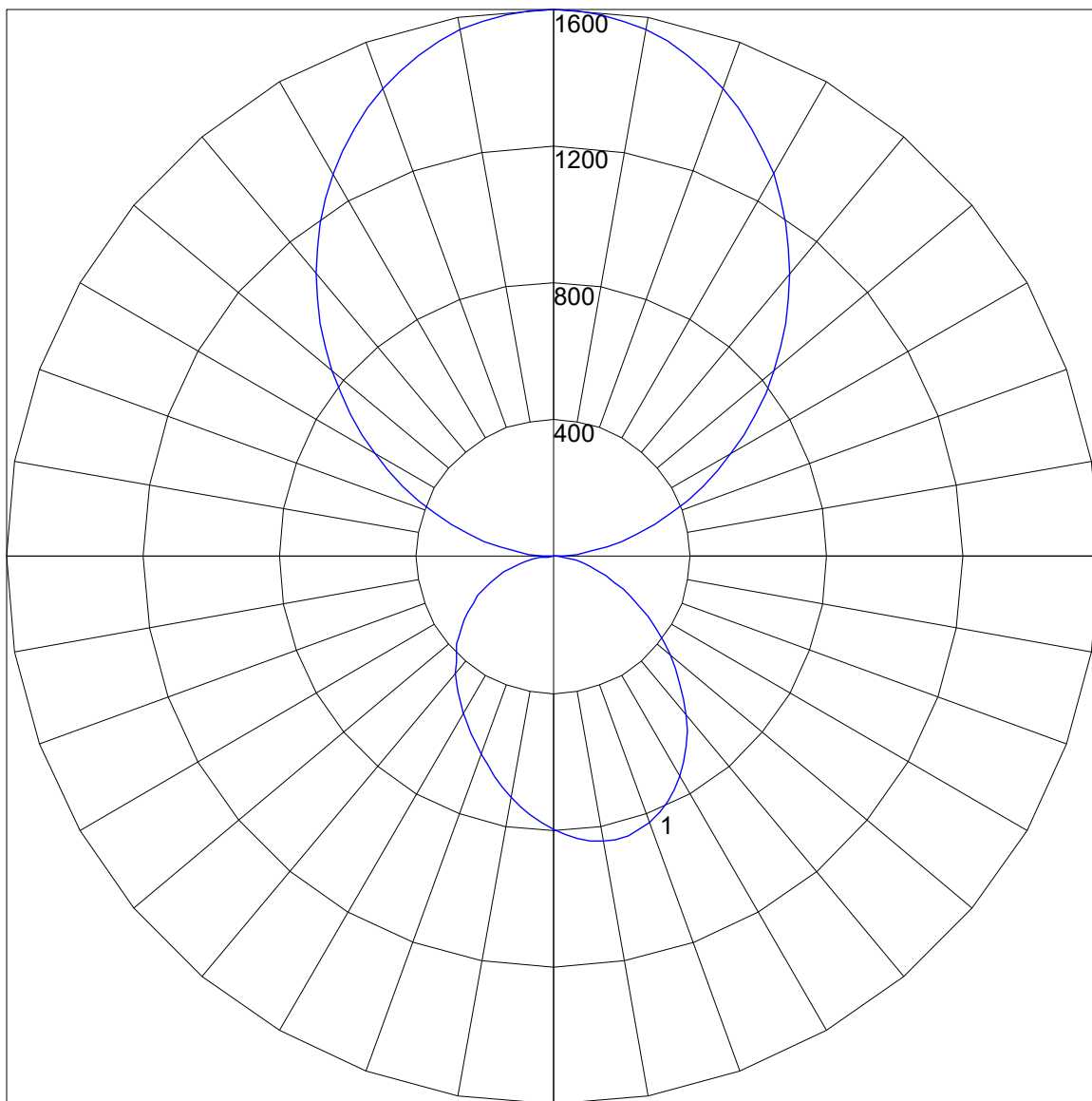
Effective Floor Cavity Reflectance 0.20

| 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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 32 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 47 | 35 | 34 | 34 | 27 |
| 2 | 85 | 78 | 72 | 67 | 77 | 71 | 66 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 28 | 23 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 50 | 46 | 42 | 38 | 35 | 33 | 28 | 26 | 24 | 20 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 49 | 43 | 44 | 39 | 36 | 34 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5 | 65 | 54 | 46 | 41 | 59 | 49 | 42 | 37 | 40 | 35 | 31 | 31 | 27 | 24 | 22 | 20 | 18 | 15 |
| 6 | 60 | 48 | 41 | 35 | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 28 | 32 | 27 | 23 | 25 | 22 | 19 | 18 | 16 | 14 | 11 |
| 8 | 51 | 40 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 15 | 13 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 26 | 22 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 13 | 12 | 9 |
| 10 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 10 | 8 |

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POLAR GRAPH



Maximum Candela = 1600 Located At Horizontal Angle = 0, Vertical Angle = 180

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