

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-2-ID-4FT-V-B-835-F-DL-ABL-8H-ITL90630 ITL85134.205.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.205 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]06/24/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-V-B-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.3 WATTS

[_ABSOLUTE]LUMENS]5854

[OTHER]see www.finelite.com for source files ITL90630 and ITL85134. 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 | 5854 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 106 |
| Total Luminaire Watts | 55.3 |
| 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 w/Sides |
| Luminous Length (0-180) | 3.99 ft |
| Luminous Width (90-270) | 0.17 ft |
| Luminous Height | 0.08 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6548 | 5688 | 5485 |
| 55 | 6077 | 5175 | 5010 |
| 65 | 5499 | 4612 | 4519 |
| 75 | 4597 | 3978 | 4004 |
| 85 | 3213 | 3402 | 3565 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-835-F-DL-ABL-8H-ITL90630 ITL85134.205.IES

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 499.004 | 499.004 | 499.004 | 499.004 | 499.004 |
| 2.5 | 499.004 | 498.489 | 499.004 | 499.519 | 499.519 |
| 5.0 | 496.429 | 496.944 | 497.974 | 499.519 | 500.034 |
| 7.5 | 492.825 | 493.854 | 496.944 | 499.519 | 500.034 |
| 10.0 | 488.190 | 489.220 | 494.884 | 498.489 | 499.004 |
| 12.5 | 482.010 | 483.555 | 491.280 | 495.399 | 496.944 |
| 15.0 | 474.286 | 476.346 | 486.130 | 491.795 | 492.825 |
| 17.5 | 464.501 | 468.106 | 479.435 | 486.130 | 487.675 |
| 20.0 | 454.202 | 458.837 | 471.711 | 478.920 | 479.950 |
| 22.5 | 442.873 | 448.022 | 462.956 | 470.681 | 472.226 |
| 25.0 | 428.969 | 436.693 | 453.172 | 460.897 | 463.471 |
| 27.5 | 416.094 | 424.334 | 442.358 | 451.112 | 453.172 |
| 30.0 | 401.675 | 411.460 | 430.513 | 440.298 | 442.358 |
| 32.5 | 386.741 | 398.070 | 418.669 | 428.454 | 431.543 |
| 35.0 | 369.747 | 383.651 | 405.795 | 416.094 | 419.184 |
| 37.5 | 353.783 | 369.232 | 391.891 | 403.735 | 407.340 |
| 40.0 | 337.304 | 353.783 | 378.502 | 390.861 | 394.466 |
| 42.5 | 319.795 | 338.334 | 363.567 | 376.957 | 381.076 |
| 45.0 | 301.771 | 322.885 | 348.634 | 363.053 | 367.687 |
| 47.5 | 283.748 | 306.406 | 333.699 | 348.634 | 353.268 |
| 50.0 | 266.238 | 289.412 | 318.250 | 334.214 | 339.364 |
| 52.5 | 247.185 | 272.933 | 302.286 | 319.795 | 325.460 |
| 55.0 | 229.161 | 255.939 | 286.322 | 304.346 | 310.526 |
| 57.5 | 211.137 | 238.945 | 270.358 | 288.897 | 295.077 |
| 60.0 | 192.598 | 220.921 | 253.879 | 273.448 | 280.143 |
| 62.5 | 173.544 | 203.412 | 237.400 | 257.999 | 264.694 |
| 65.0 | 155.005 | 186.418 | 219.891 | 241.005 | 248.730 |
| 67.5 | 136.982 | 168.910 | 203.412 | 225.556 | 233.796 |
| 70.0 | 118.443 | 150.886 | 186.418 | 209.592 | 216.802 |
| 72.5 | 99.904 | 133.377 | 169.940 | 193.113 | 201.353 |
| 75.0 | 81.880 | 116.383 | 153.460 | 177.149 | 185.904 |
| 77.5 | 64.886 | 100.419 | 136.982 | 161.700 | 170.969 |
| 80.0 | 49.437 | 84.455 | 122.562 | 147.281 | 155.520 |
| 82.5 | 34.503 | 70.036 | 108.658 | 133.377 | 142.131 |
| 85.0 | 22.144 | 57.676 | 96.299 | 121.017 | 129.772 |
| 87.5 | 12.874 | 47.377 | 85.485 | 110.203 | 118.443 |
| 90.0 | 5.665 | 40.167 | 77.245 | 101.964 | 109.688 |
| 92.5 | 42.000 | 108.000 | 179.000 | 223.000 | 240.000 |
| 95.0 | 82.000 | 146.000 | 214.000 | 257.000 | 271.000 |
| 97.5 | 124.000 | 184.000 | 249.000 | 291.000 | 305.000 |
| 100.0 | 165.000 | 221.000 | 285.000 | 325.000 | 339.000 |
| 102.5 | 209.000 | 262.000 | 324.000 | 361.000 | 375.000 |
| 105.0 | 254.000 | 304.000 | 363.000 | 398.000 | 412.000 |
| 107.5 | 300.000 | 348.000 | 404.000 | 437.000 | 451.000 |
| 110.0 | 348.000 | 393.000 | 447.000 | 477.000 | 489.000 |
| 112.5 | 395.000 | 440.000 | 491.000 | 519.000 | 530.000 |
| 115.0 | 446.000 | 486.000 | 538.000 | 563.000 | 573.000 |
| 117.5 | 498.000 | 535.000 | 585.000 | 607.000 | 615.000 |
| 120.0 | 550.000 | 583.000 | 633.000 | 653.000 | 660.000 |
| 122.5 | 602.000 | 632.000 | 680.000 | 701.000 | 707.000 |
| 125.0 | 656.000 | 682.000 | 727.000 | 748.000 | 757.000 |
| 127.5 | 709.000 | 733.000 | 776.000 | 795.000 | 805.000 |
| 130.0 | 763.000 | 781.000 | 826.000 | 843.000 | 852.000 |
| 132.5 | 818.000 | 832.000 | 875.000 | 891.000 | 897.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-835-F-DL-ABL-8H-ITL90630 ITL85134.205.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|----------|----------|----------|----------|----------|
| 135.0 | 871.000 | 882.000 | 923.000 | 939.000 | 945.000 |
| 137.5 | 924.000 | 933.000 | 970.000 | 986.000 | 992.000 |
| 140.0 | 977.000 | 981.000 | 1015.000 | 1032.000 | 1038.000 |
| 142.5 | 1028.000 | 1029.000 | 1059.000 | 1078.000 | 1082.000 |
| 145.0 | 1076.000 | 1076.000 | 1104.000 | 1121.000 | 1123.000 |
| 147.5 | 1124.000 | 1120.000 | 1147.000 | 1160.000 | 1163.000 |
| 150.0 | 1169.000 | 1163.000 | 1188.000 | 1201.000 | 1201.000 |
| 152.5 | 1210.000 | 1203.000 | 1226.000 | 1238.000 | 1238.000 |
| 155.0 | 1250.000 | 1242.000 | 1263.000 | 1273.000 | 1273.000 |
| 157.5 | 1287.000 | 1277.000 | 1297.000 | 1303.000 | 1305.000 |
| 160.0 | 1319.000 | 1310.000 | 1327.000 | 1332.000 | 1334.000 |
| 162.5 | 1349.000 | 1340.000 | 1355.000 | 1357.000 | 1360.000 |
| 165.0 | 1375.000 | 1368.000 | 1378.000 | 1380.000 | 1383.000 |
| 167.5 | 1397.000 | 1392.000 | 1398.000 | 1400.000 | 1402.000 |
| 170.0 | 1415.000 | 1413.000 | 1414.000 | 1416.000 | 1417.000 |
| 172.5 | 1430.000 | 1429.000 | 1428.000 | 1430.000 | 1430.000 |
| 175.0 | 1439.000 | 1439.000 | 1439.000 | 1439.000 | 1439.000 |
| 177.5 | 1446.000 | 1446.000 | 1446.000 | 1445.000 | 1446.000 |
| 180.0 | 1448.000 | 1448.000 | 1448.000 | 1448.000 | 1448.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-835-F-DL-ABL-8H-ITL90630 ITL85134.205.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 184.08 | N.A. | 3.10 |
| 0-30 | 391.18 | N.A. | 6.70 |
| 0-40 | 641.66 | N.A. | 11.00 |
| 0-60 | 1155.64 | N.A. | 19.70 |
| 0-80 | 1519.99 | N.A. | 26.00 |
| 0-90 | 1617.24 | N.A. | 27.60 |
| 10-90 | 1569.81 | N.A. | 26.80 |
| 20-40 | 457.58 | N.A. | 7.80 |
| 20-50 | 721.82 | N.A. | 12.30 |
| 40-70 | 724.49 | N.A. | 12.40 |
| 60-80 | 364.35 | N.A. | 6.20 |
| 70-80 | 153.85 | N.A. | 2.60 |
| 80-90 | 97.25 | N.A. | 1.70 |
| 90-110 | 579.00 | N.A. | 9.90 |
| 90-120 | 1098.78 | N.A. | 18.80 |
| 90-130 | 1739.56 | N.A. | 29.70 |
| 90-150 | 3132.26 | N.A. | 53.50 |
| 90-180 | 4237.08 | N.A. | 72.40 |
| 110-180 | 3658.09 | N.A. | 62.50 |
| 0-180 | 5854.33 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 47.43 |
| 10-20 | 136.66 |
| 20-30 | 207.10 |
| 30-40 | 250.48 |
| 40-50 | 264.25 |
| 50-60 | 249.74 |
| 60-70 | 210.50 |
| 70-80 | 153.85 |
| 80-90 | 97.25 |
| 90-100 | 208.65 |
| 100-110 | 370.35 |
| 110-120 | 519.78 |
| 120-130 | 640.78 |
| 130-140 | 704.67 |
| 140-150 | 688.02 |
| 150-160 | 580.15 |
| 160-170 | 388.07 |
| 170-180 | 136.61 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-835-F-DL-ABL-8H-ITL90630 ITL85134.205.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

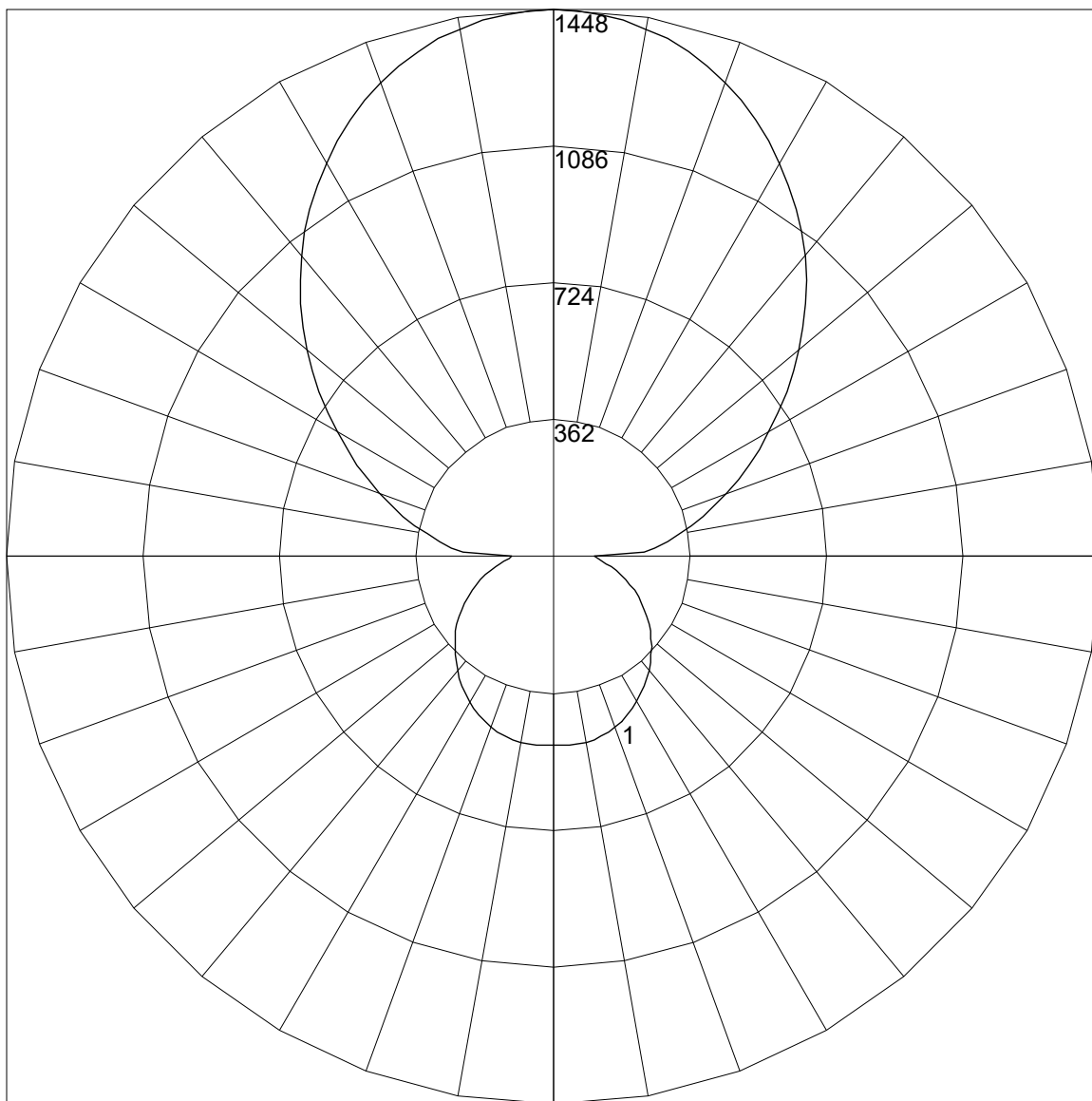
Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 52 | 52 | 52 | 36 | 36 | 36 | 28 |
| 1 | 92 | 88 | 84 | 80 | 82 | 78 | 75 | 72 | 61 | 59 | 57 | 45 | 44 | 42 | 30 | 29 | 29 | 22 |
| 2 | 84 | 76 | 70 | 65 | 74 | 68 | 63 | 58 | 53 | 49 | 46 | 39 | 37 | 35 | 26 | 25 | 24 | 18 |
| 3 | 76 | 67 | 59 | 54 | 68 | 60 | 53 | 48 | 47 | 42 | 39 | 34 | 31 | 29 | 23 | 21 | 20 | 15 |
| 4 | 69 | 59 | 51 | 45 | 62 | 53 | 46 | 41 | 41 | 36 | 33 | 30 | 27 | 25 | 20 | 18 | 17 | 13 |
| 5 | 63 | 52 | 44 | 38 | 56 | 47 | 40 | 35 | 37 | 32 | 28 | 27 | 24 | 21 | 18 | 16 | 15 | 11 |
| 6 | 58 | 46 | 39 | 33 | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 24 | 21 | 18 | 17 | 14 | 13 | 9 |
| 7 | 54 | 42 | 34 | 29 | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 15 | 13 | 11 | 8 |
| 8 | 50 | 38 | 30 | 25 | 44 | 34 | 27 | 23 | 27 | 22 | 18 | 20 | 17 | 14 | 14 | 12 | 10 | 7 |
| 9 | 46 | 34 | 27 | 22 | 41 | 31 | 25 | 20 | 24 | 20 | 16 | 18 | 15 | 13 | 13 | 11 | 9 | 7 |
| 10 | 43 | 31 | 24 | 20 | 38 | 28 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 11 | 12 | 10 | 8 | 6 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-835-F-DL-ABL-8H-ITL90630 ITL85134.205.IES

POLAR GRAPH



Maximum Candela = 1448 Located At Horizontal Angle = 0, Vertical Angle = 180

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