

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-V-835-OPEN-DL-ITL90630 ITL85134.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/16/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-V-V-835-OPEN-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 73.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 75.3 WATTS

[_ABSOLUTE]LUMENS]7386

[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 | 7386 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 100 |
| Total Luminaire Watts | 73.8 |
| 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) | 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 | 12715 | 11046 | 10651 |
| 55 | 11800 | 10050 | 9729 |
| 65 | 10677 | 8956 | 8776 |
| 75 | 8927 | 7725 | 7776 |
| 85 | 6240 | 6606 | 6922 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-OPEN-DL-ITL90630 ITL85134.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 | 969 | 969 | 969 | 969 | 969 |
| 2.5 | 969 | 968 | 969 | 970 | 970 |
| 5.0 | 964 | 965 | 967 | 970 | 971 |
| 7.5 | 957 | 959 | 965 | 970 | 971 |
| 10.0 | 948 | 950 | 961 | 968 | 969 |
| 12.5 | 936 | 939 | 954 | 962 | 965 |
| 15.0 | 921 | 925 | 944 | 955 | 957 |
| 17.5 | 902 | 909 | 931 | 944 | 947 |
| 20.0 | 882 | 891 | 916 | 930 | 932 |
| 22.5 | 860 | 870 | 899 | 914 | 917 |
| 25.0 | 833 | 848 | 880 | 895 | 900 |
| 27.5 | 808 | 824 | 859 | 876 | 880 |
| 30.0 | 780 | 799 | 836 | 855 | 859 |
| 32.5 | 751 | 773 | 813 | 832 | 838 |
| 35.0 | 718 | 745 | 788 | 808 | 814 |
| 37.5 | 687 | 717 | 761 | 784 | 791 |
| 40.0 | 655 | 687 | 735 | 759 | 766 |
| 42.5 | 621 | 657 | 706 | 732 | 740 |
| 45.0 | 586 | 627 | 677 | 705 | 714 |
| 47.5 | 551 | 595 | 648 | 677 | 686 |
| 50.0 | 517 | 562 | 618 | 649 | 659 |
| 52.5 | 480 | 530 | 587 | 621 | 632 |
| 55.0 | 445 | 497 | 556 | 591 | 603 |
| 57.5 | 410 | 464 | 525 | 561 | 573 |
| 60.0 | 374 | 429 | 493 | 531 | 544 |
| 62.5 | 337 | 395 | 461 | 501 | 514 |
| 65.0 | 301 | 362 | 427 | 468 | 483 |
| 67.5 | 266 | 328 | 395 | 438 | 454 |
| 70.0 | 230 | 293 | 362 | 407 | 421 |
| 72.5 | 194 | 259 | 330 | 375 | 391 |
| 75.0 | 159 | 226 | 298 | 344 | 361 |
| 77.5 | 126 | 195 | 266 | 314 | 332 |
| 80.0 | 96 | 164 | 238 | 286 | 302 |
| 82.5 | 67 | 136 | 211 | 259 | 276 |
| 85.0 | 43 | 112 | 187 | 235 | 252 |
| 87.5 | 25 | 92 | 166 | 214 | 230 |
| 90.0 | 11 | 78 | 150 | 198 | 213 |
| 92.5 | 42 | 108 | 179 | 223 | 240 |
| 95.0 | 82 | 146 | 214 | 257 | 271 |
| 97.5 | 124 | 184 | 249 | 291 | 305 |
| 100.0 | 165 | 221 | 285 | 325 | 339 |
| 102.5 | 209 | 262 | 324 | 361 | 375 |
| 105.0 | 254 | 304 | 363 | 398 | 412 |
| 107.5 | 300 | 348 | 404 | 437 | 451 |
| 110.0 | 348 | 393 | 447 | 477 | 489 |
| 112.5 | 395 | 440 | 491 | 519 | 530 |
| 115.0 | 446 | 486 | 538 | 563 | 573 |
| 117.5 | 498 | 535 | 585 | 607 | 615 |
| 120.0 | 550 | 583 | 633 | 653 | 660 |
| 122.5 | 602 | 632 | 680 | 701 | 707 |
| 125.0 | 656 | 682 | 727 | 748 | 757 |
| 127.5 | 709 | 733 | 776 | 795 | 805 |
| 130.0 | 763 | 781 | 826 | 843 | 852 |
| 132.5 | 818 | 832 | 875 | 891 | 897 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-OPEN-DL-ITL90630 ITL85134.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|------|------|------|------|------|
| 135.0 | 871 | 882 | 923 | 939 | 945 |
| 137.5 | 924 | 933 | 970 | 986 | 992 |
| 140.0 | 977 | 981 | 1015 | 1032 | 1038 |
| 142.5 | 1028 | 1029 | 1059 | 1078 | 1082 |
| 145.0 | 1076 | 1076 | 1104 | 1121 | 1123 |
| 147.5 | 1124 | 1120 | 1147 | 1160 | 1163 |
| 150.0 | 1169 | 1163 | 1188 | 1201 | 1201 |
| 152.5 | 1210 | 1203 | 1226 | 1238 | 1238 |
| 155.0 | 1250 | 1242 | 1263 | 1273 | 1273 |
| 157.5 | 1287 | 1277 | 1297 | 1303 | 1305 |
| 160.0 | 1319 | 1310 | 1327 | 1332 | 1334 |
| 162.5 | 1349 | 1340 | 1355 | 1357 | 1360 |
| 165.0 | 1375 | 1368 | 1378 | 1380 | 1383 |
| 167.5 | 1397 | 1392 | 1398 | 1400 | 1402 |
| 170.0 | 1415 | 1413 | 1414 | 1416 | 1417 |
| 172.5 | 1430 | 1429 | 1428 | 1430 | 1430 |
| 175.0 | 1439 | 1439 | 1439 | 1439 | 1439 |
| 177.5 | 1446 | 1446 | 1446 | 1445 | 1446 |
| 180.0 | 1448 | 1448 | 1448 | 1448 | 1448 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-OPEN-DL-ITL90630 ITL85134.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 357.46 | N.A. | 4.80 |
| 0-30 | 759.62 | N.A. | 10.30 |
| 0-40 | 1246.01 | N.A. | 16.90 |
| 0-60 | 2244.11 | N.A. | 30.40 |
| 0-80 | 2951.63 | N.A. | 40.00 |
| 0-90 | 3140.47 | N.A. | 42.50 |
| 10-90 | 3048.37 | N.A. | 41.30 |
| 20-40 | 888.55 | N.A. | 12.00 |
| 20-50 | 1401.69 | N.A. | 19.00 |
| 40-70 | 1406.86 | N.A. | 19.00 |
| 60-80 | 707.52 | N.A. | 9.60 |
| 70-80 | 298.75 | N.A. | 4.00 |
| 80-90 | 188.84 | N.A. | 2.60 |
| 90-110 | 587.94 | N.A. | 8.00 |
| 90-120 | 1107.72 | N.A. | 15.00 |
| 90-130 | 1748.5 | N.A. | 23.70 |
| 90-150 | 3141.2 | N.A. | 42.50 |
| 90-180 | 4246.02 | N.A. | 57.50 |
| 110-180 | 3658.09 | N.A. | 49.50 |
| 0-180 | 7386.49 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 92.10 |
| 10-20 | 265.37 |
| 20-30 | 402.16 |
| 30-40 | 486.39 |
| 40-50 | 513.14 |
| 50-60 | 484.96 |
| 60-70 | 408.77 |
| 70-80 | 298.75 |
| 80-90 | 188.84 |
| 90-100 | 217.59 |
| 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

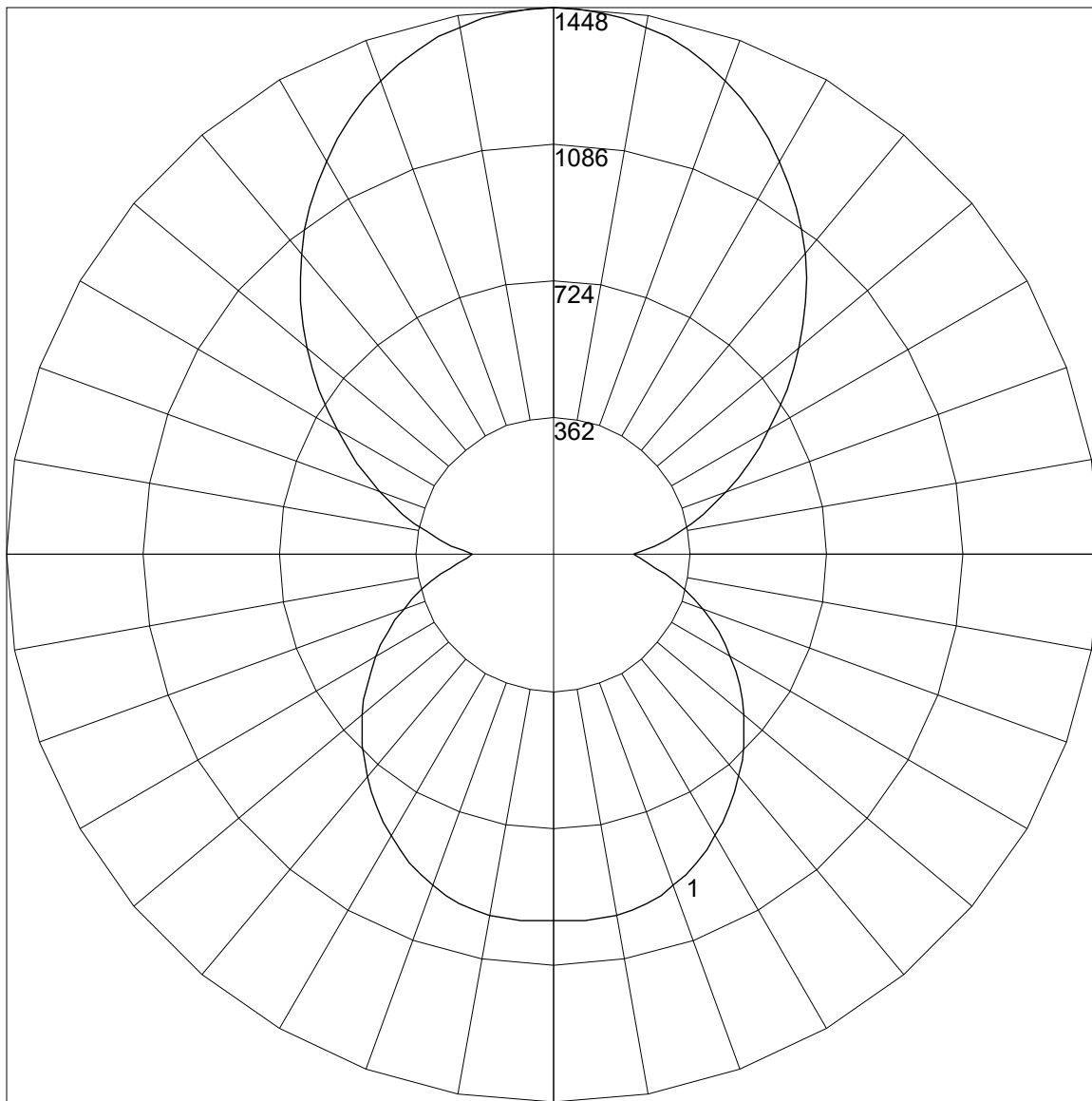
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 10 | 0 |
| 0 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 49 | 49 | 49 | 43 |
| 1 | 95 | 90 | 86 | 82 | 87 | 83 | 79 | 76 | 68 | 65 | 63 | 54 | 53 | 51 | 42 | 41 | 40 | 34 |
| 2 | 86 | 78 | 72 | 66 | 78 | 72 | 66 | 61 | 59 | 55 | 51 | 47 | 44 | 42 | 36 | 34 | 33 | 27 |
| 3 | 78 | 68 | 61 | 55 | 71 | 63 | 56 | 51 | 52 | 47 | 43 | 41 | 38 | 35 | 32 | 29 | 27 | 23 |
| 4 | 71 | 60 | 52 | 46 | 65 | 55 | 48 | 43 | 46 | 40 | 36 | 37 | 33 | 29 | 28 | 25 | 23 | 19 |
| 5 | 65 | 54 | 45 | 39 | 59 | 49 | 42 | 36 | 41 | 35 | 31 | 33 | 29 | 25 | 25 | 22 | 20 | 17 |
| 6 | 60 | 48 | 40 | 34 | 55 | 44 | 37 | 31 | 36 | 31 | 27 | 29 | 25 | 22 | 23 | 20 | 17 | 14 |
| 7 | 56 | 43 | 35 | 29 | 50 | 40 | 32 | 27 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 13 |
| 8 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 24 | 30 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 | 11 |
| 9 | 48 | 36 | 28 | 23 | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 12 | 10 |
| 10 | 45 | 33 | 25 | 20 | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 16 | 13 | 11 | 9 |

POLAR GRAPH



Maximum Candela = 1448 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)