

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-F-MLW-ITL85132-ITL92590.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]02/03/23

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-V-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 72.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 72.4 WATTS

[ABSOLUTE]LUMENS]6994

[OTHER]see www.finelite.com for source files ITL85132 and ITL92590. 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 | 6998 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 97 |
| Total Luminaire Watts | 72.4 |
| 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) | 0.18 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4058 | 3908 | 3994 |
| 55 | 3414 | 3203 | 3176 |
| 65 | 2910 | 2694 | 2586 |
| 75 | 2522 | 2288 | 2112 |
| 85 | 2090 | 1916 | 1568 |

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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> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 7988 | 7988 | 7988 | 7988 | 7988 |
| 2.5 | 7845 | 7851 | 7842 | 7847 | 7839 |
| 5.0 | 7469 | 7460 | 7466 | 7457 | 7460 |
| 7.5 | 6838 | 6844 | 6920 | 6911 | 6929 |
| 10.0 | 5920 | 6010 | 6209 | 6293 | 6287 |
| 12.5 | 4897 | 5035 | 5402 | 5621 | 5584 |
| 15.0 | 3969 | 4086 | 4557 | 4880 | 4807 |
| 17.5 | 3069 | 3255 | 3745 | 3989 | 3825 |
| 20.0 | 2188 | 2432 | 2997 | 3117 | 3039 |
| 22.5 | 1447 | 1701 | 2250 | 2419 | 2320 |
| 25.0 | 970 | 1127 | 1622 | 1725 | 1532 |
| 27.5 | 676 | 763 | 1129 | 1116 | 977 |
| 30.0 | 484 | 547 | 734 | 710 | 651 |
| 32.5 | 348 | 400 | 478 | 488 | 466 |
| 35.0 | 276 | 300 | 352 | 366 | 340 |
| 37.5 | 246 | 250 | 280 | 282 | 263 |
| 40.0 | 225 | 225 | 233 | 231 | 226 |
| 42.5 | 207 | 206 | 202 | 204 | 204 |
| 45.0 | 189 | 188 | 182 | 185 | 186 |
| 47.5 | 172 | 171 | 166 | 167 | 168 |
| 50.0 | 157 | 156 | 150 | 151 | 151 |
| 52.5 | 142 | 141 | 135 | 135 | 135 |
| 55.0 | 129 | 127 | 121 | 120 | 120 |
| 57.5 | 116 | 114 | 109 | 107 | 107 |
| 60.0 | 103 | 102 | 97 | 95 | 95 |
| 62.5 | 92 | 91 | 86 | 84 | 82 |
| 65.0 | 81 | 79 | 75 | 73 | 72 |
| 67.5 | 70 | 69 | 66 | 63 | 62 |
| 70.0 | 61 | 60 | 56 | 54 | 52 |
| 72.5 | 52 | 51 | 48 | 45 | 44 |
| 75.0 | 43 | 42 | 39 | 37 | 36 |
| 77.5 | 34 | 34 | 31 | 29 | 28 |
| 80.0 | 25 | 26 | 24 | 22 | 21 |
| 82.5 | 18 | 18 | 17 | 16 | 15 |
| 85.0 | 12 | 11 | 11 | 10 | 9 |
| 87.5 | 5 | 5 | 5 | 5 | 4 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |
| 92.5 | 30 | 30 | 30 | 33 | 33 |
| 95.0 | 71 | 68 | 68 | 69 | 70 |
| 97.5 | 112 | 109 | 107 | 108 | 108 |
| 100.0 | 154 | 149 | 149 | 149 | 148 |
| 102.5 | 198 | 194 | 192 | 191 | 191 |
| 105.0 | 244 | 241 | 236 | 235 | 234 |
| 107.5 | 291 | 288 | 282 | 281 | 280 |
| 110.0 | 340 | 337 | 332 | 330 | 327 |
| 112.5 | 391 | 386 | 383 | 378 | 375 |
| 115.0 | 442 | 439 | 437 | 427 | 425 |
| 117.5 | 496 | 491 | 491 | 479 | 477 |
| 120.0 | 551 | 543 | 545 | 533 | 529 |
| 122.5 | 603 | 595 | 599 | 589 | 582 |
| 125.0 | 661 | 649 | 653 | 643 | 638 |
| 127.5 | 718 | 705 | 707 | 699 | 697 |
| 130.0 | 774 | 761 | 763 | 753 | 754 |
| 132.5 | 830 | 816 | 819 | 809 | 809 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-F-MLW-ITL85132-ITL92590.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|------|------|------|------|------|
| 135.0 | 884 | 871 | 875 | 866 | 866 |
| 137.5 | 939 | 926 | 930 | 922 | 921 |
| 140.0 | 994 | 981 | 984 | 979 | 976 |
| 142.5 | 1046 | 1032 | 1036 | 1031 | 1027 |
| 145.0 | 1099 | 1084 | 1088 | 1084 | 1077 |
| 147.5 | 1148 | 1133 | 1138 | 1132 | 1125 |
| 150.0 | 1195 | 1180 | 1186 | 1179 | 1173 |
| 152.5 | 1240 | 1225 | 1231 | 1225 | 1219 |
| 155.0 | 1283 | 1268 | 1275 | 1269 | 1263 |
| 157.5 | 1320 | 1306 | 1314 | 1308 | 1302 |
| 160.0 | 1356 | 1343 | 1350 | 1344 | 1338 |
| 162.5 | 1387 | 1376 | 1381 | 1377 | 1373 |
| 165.0 | 1415 | 1405 | 1408 | 1406 | 1403 |
| 167.5 | 1436 | 1430 | 1432 | 1430 | 1429 |
| 170.0 | 1455 | 1452 | 1453 | 1451 | 1450 |
| 172.5 | 1471 | 1470 | 1470 | 1469 | 1469 |
| 175.0 | 1482 | 1482 | 1482 | 1482 | 1481 |
| 177.5 | 1488 | 1489 | 1489 | 1489 | 1488 |
| 180.0 | 1492 | 1492 | 1492 | 1492 | 1492 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-F-MLW-ITL85132-ITL92590.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1889.08 | N.A. | 27.00 |
| 0-30 | 2573.35 | N.A. | 36.80 |
| 0-40 | 2800.31 | N.A. | 40.00 |
| 0-60 | 3055.44 | N.A. | 43.70 |
| 0-80 | 3173.07 | N.A. | 45.30 |
| 0-90 | 3185.1 | N.A. | 45.50 |
| 10-90 | 2514.41 | N.A. | 35.90 |
| 20-40 | 911.23 | N.A. | 13.00 |
| 20-50 | 1055.5 | N.A. | 15.10 |
| 40-70 | 330.88 | N.A. | 4.70 |
| 60-80 | 117.62 | N.A. | 1.70 |
| 70-80 | 41.87 | N.A. | 0.60 |
| 80-90 | 12.04 | N.A. | 0.20 |
| 90-110 | 329.21 | N.A. | 4.70 |
| 90-120 | 759.73 | N.A. | 10.90 |
| 90-130 | 1340.41 | N.A. | 19.20 |
| 90-150 | 2691.63 | N.A. | 38.50 |
| 90-180 | 3813.36 | N.A. | 54.50 |
| 110-180 | 3484.15 | N.A. | 49.80 |
| 0-180 | 6998.47 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 670.69 |
| 10-20 | 1218.39 |
| 20-30 | 684.27 |
| 30-40 | 226.96 |
| 40-50 | 144.27 |
| 50-60 | 110.87 |
| 60-70 | 75.75 |
| 70-80 | 41.87 |
| 80-90 | 12.04 |
| 90-100 | 77.06 |
| 100-110 | 252.15 |
| 110-120 | 430.52 |
| 120-130 | 580.67 |
| 130-140 | 672.56 |
| 140-150 | 678.67 |
| 150-160 | 584.78 |
| 160-170 | 396.44 |
| 170-180 | 140.51 |

IES INDOOR REPORT

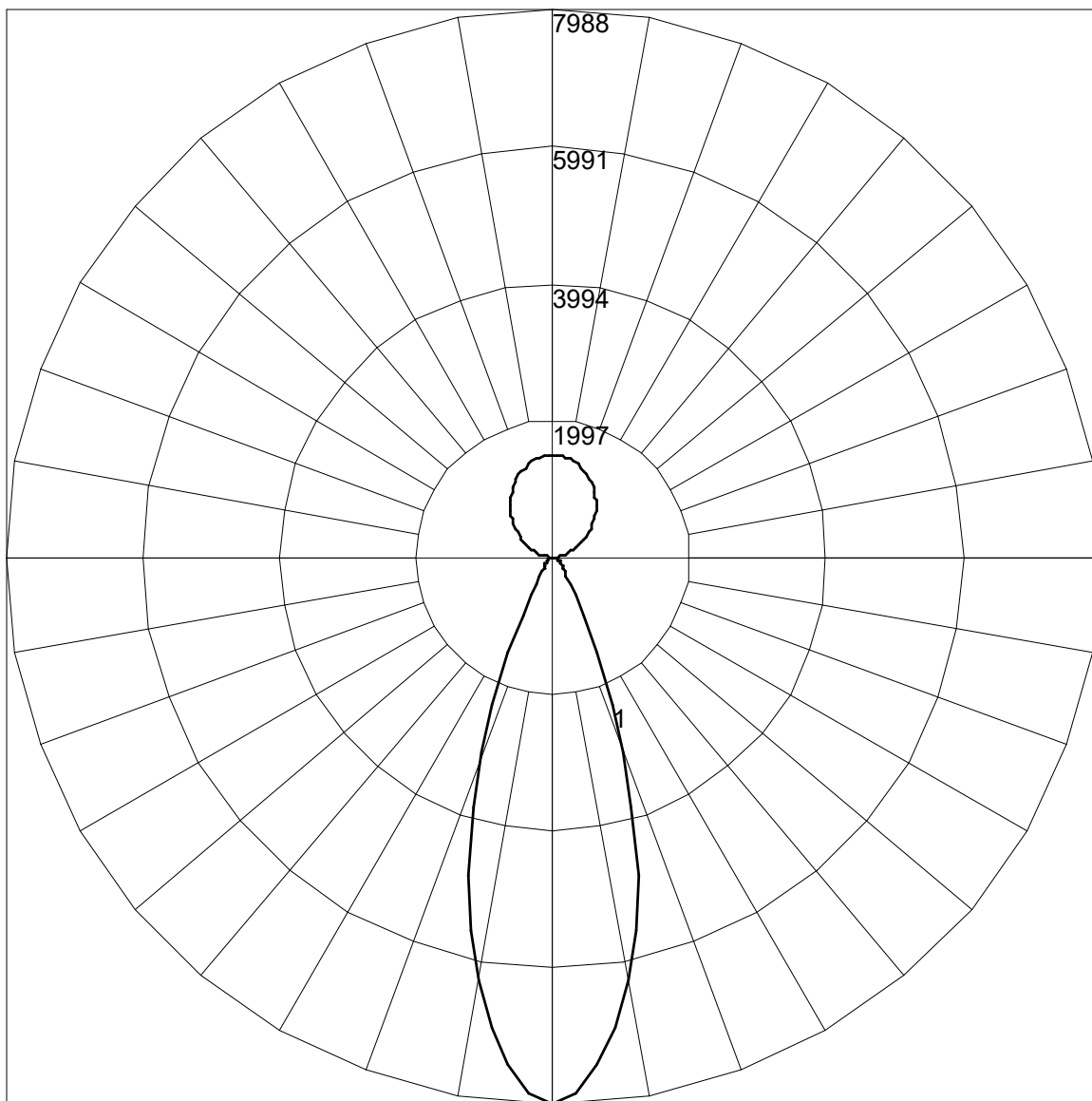
PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-F-MLW-ITL85132-ITL92590.IES

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 | 99 | 95 | 92 | 90 | 91 | 88 | 85 | 83 | 74 | 72 | 71 | 61 | 60 | 59 | 49 | 49 | 48 | 43 |
| 2 | 92 | 86 | 82 | 78 | 85 | 80 | 76 | 72 | 68 | 65 | 63 | 57 | 55 | 53 | 47 | 45 | 45 | 40 |
| 3 | 86 | 79 | 73 | 68 | 79 | 73 | 68 | 64 | 63 | 59 | 56 | 53 | 51 | 49 | 44 | 43 | 42 | 38 |
| 4 | 81 | 72 | 66 | 61 | 75 | 67 | 62 | 58 | 58 | 54 | 51 | 50 | 47 | 45 | 42 | 40 | 39 | 35 |
| 5 | 76 | 66 | 60 | 55 | 70 | 62 | 57 | 52 | 54 | 50 | 47 | 47 | 44 | 42 | 40 | 38 | 37 | 34 |
| 6 | 71 | 62 | 55 | 50 | 66 | 58 | 52 | 48 | 51 | 47 | 44 | 44 | 41 | 39 | 38 | 36 | 35 | 32 |
| 7 | 67 | 57 | 51 | 46 | 63 | 54 | 48 | 44 | 48 | 44 | 41 | 42 | 39 | 37 | 36 | 34 | 33 | 31 |
| 8 | 64 | 54 | 47 | 43 | 59 | 51 | 45 | 41 | 45 | 41 | 38 | 40 | 37 | 35 | 35 | 33 | 31 | 29 |
| 9 | 60 | 50 | 44 | 40 | 56 | 48 | 42 | 39 | 43 | 39 | 36 | 38 | 35 | 33 | 34 | 32 | 30 | 28 |
| 10 | 57 | 47 | 42 | 38 | 54 | 45 | 40 | 36 | 41 | 37 | 34 | 36 | 33 | 31 | 32 | 30 | 29 | 27 |

POLAR GRAPH



Maximum Candela = 7988 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)