

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-V-835-WSO-DAO-ITL89033-ITL94331.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033-ITL94331

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/08/17

[ISSUEDATE]08/27/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-V-V-835-WSO-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 74.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 75.7 WATTS

[_ABSOLUTE]LUMENS]8186

[_CONVERT] Photometric web converted from original test data

[OTHER]see www.finelite.com for source files ITL89033 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 | 8186 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 110 |
| Total Luminaire Watts | 74.1 |
| 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 | 11998 | 12386 | 10267 |
| 55 | 10306 | 11017 | 9130 |
| 65 | 8629 | 9377 | 7959 |
| 75 | 6948 | 7688 | 6884 |
| 85 | 5445 | 5923 | 6018 |

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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 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 |
| 2.5 | 1584 | 1582 | 1574 | 1563 | 1551 | 1537 | 1527 | 1519 | 1516 |
| 5.0 | 1609 | 1605 | 1591 | 1569 | 1543 | 1518 | 1494 | 1481 | 1476 |
| 7.5 | 1628 | 1621 | 1602 | 1569 | 1530 | 1491 | 1458 | 1440 | 1433 |
| 10.0 | 1641 | 1635 | 1606 | 1563 | 1514 | 1461 | 1422 | 1397 | 1385 |
| 12.5 | 1645 | 1640 | 1606 | 1551 | 1495 | 1427 | 1383 | 1352 | 1339 |
| 15.0 | 1641 | 1635 | 1599 | 1533 | 1468 | 1389 | 1341 | 1306 | 1292 |
| 17.5 | 1628 | 1623 | 1586 | 1512 | 1437 | 1349 | 1293 | 1260 | 1243 |
| 20.0 | 1606 | 1603 | 1566 | 1482 | 1403 | 1304 | 1246 | 1212 | 1197 |
| 22.5 | 1576 | 1573 | 1539 | 1451 | 1367 | 1257 | 1201 | 1164 | 1153 |
| 25.0 | 1538 | 1537 | 1506 | 1415 | 1323 | 1210 | 1153 | 1119 | 1110 |
| 27.5 | 1493 | 1493 | 1465 | 1373 | 1277 | 1161 | 1102 | 1075 | 1064 |
| 30.0 | 1441 | 1444 | 1419 | 1327 | 1226 | 1108 | 1056 | 1030 | 1023 |
| 32.5 | 1383 | 1387 | 1368 | 1279 | 1173 | 1057 | 1007 | 985 | 982 |
| 35.0 | 1315 | 1325 | 1314 | 1224 | 1116 | 1003 | 960 | 943 | 939 |
| 37.5 | 1249 | 1261 | 1251 | 1166 | 1056 | 950 | 911 | 901 | 900 |
| 40.0 | 1175 | 1192 | 1188 | 1106 | 998 | 895 | 862 | 856 | 861 |
| 42.5 | 1102 | 1114 | 1123 | 1045 | 938 | 842 | 815 | 815 | 819 |
| 45.0 | 1019 | 1039 | 1052 | 976 | 872 | 787 | 768 | 774 | 779 |
| 47.5 | 943 | 965 | 980 | 911 | 812 | 735 | 718 | 731 | 741 |
| 50.0 | 866 | 885 | 906 | 846 | 749 | 683 | 672 | 688 | 699 |
| 52.5 | 790 | 807 | 833 | 776 | 687 | 626 | 625 | 644 | 657 |
| 55.0 | 710 | 733 | 759 | 707 | 629 | 576 | 578 | 601 | 616 |
| 57.5 | 638 | 657 | 685 | 642 | 569 | 524 | 531 | 558 | 573 |
| 60.0 | 564 | 587 | 615 | 578 | 513 | 475 | 483 | 510 | 526 |
| 62.5 | 499 | 515 | 546 | 512 | 459 | 426 | 439 | 466 | 482 |
| 65.0 | 438 | 452 | 476 | 450 | 404 | 381 | 391 | 421 | 436 |
| 67.5 | 374 | 386 | 411 | 392 | 352 | 334 | 348 | 376 | 386 |
| 70.0 | 320 | 329 | 351 | 335 | 305 | 289 | 303 | 329 | 340 |
| 72.5 | 264 | 274 | 294 | 280 | 259 | 246 | 261 | 282 | 294 |
| 75.0 | 216 | 224 | 239 | 230 | 214 | 206 | 218 | 238 | 248 |
| 77.5 | 172 | 177 | 189 | 184 | 172 | 166 | 178 | 193 | 199 |
| 80.0 | 130 | 134 | 143 | 142 | 132 | 129 | 138 | 151 | 155 |
| 82.5 | 92 | 93 | 100 | 99 | 96 | 94 | 100 | 108 | 112 |
| 85.0 | 57 | 57 | 62 | 62 | 63 | 60 | 64 | 67 | 70 |
| 87.5 | 22 | 24 | 26 | 28 | 29 | 28 | 29 | 30 | 31 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 92.5 | 16 | 28 | 30 | 30 | 30 | 30 | 30 | 28 | 16 |
| 95.0 | 45 | 80 | 82 | 64 | 64 | 64 | 82 | 80 | 45 |
| 97.5 | 79 | 136 | 210 | 131 | 114 | 131 | 210 | 136 | 79 |
| 100.0 | 119 | 186 | 333 | 246 | 193 | 246 | 333 | 186 | 119 |
| 102.5 | 167 | 227 | 492 | 381 | 310 | 381 | 492 | 227 | 167 |
| 105.0 | 211 | 271 | 614 | 589 | 472 | 589 | 614 | 271 | 211 |
| 107.5 | 256 | 315 | 670 | 862 | 725 | 862 | 670 | 315 | 256 |
| 110.0 | 299 | 356 | 697 | 1089 | 1038 | 1089 | 697 | 356 | 299 |
| 112.5 | 343 | 396 | 729 | 1183 | 1245 | 1183 | 729 | 396 | 343 |
| 115.0 | 385 | 434 | 783 | 1212 | 1323 | 1212 | 783 | 434 | 385 |
| 117.5 | 419 | 469 | 826 | 1226 | 1352 | 1226 | 826 | 469 | 419 |
| 120.0 | 450 | 503 | 854 | 1281 | 1373 | 1281 | 854 | 503 | 450 |
| 122.5 | 477 | 536 | 872 | 1349 | 1438 | 1349 | 872 | 536 | 477 |
| 125.0 | 503 | 565 | 885 | 1386 | 1514 | 1386 | 885 | 565 | 503 |
| 127.5 | 527 | 591 | 895 | 1387 | 1554 | 1387 | 895 | 591 | 527 |
| 130.0 | 547 | 614 | 903 | 1363 | 1547 | 1363 | 903 | 614 | 547 |
| 132.5 | 568 | 636 | 910 | 1330 | 1510 | 1330 | 910 | 636 | 568 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-835-WSO-DAO-ITL89033-ITL94331.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | | | |
|--------------|-----|-----|-----|------|------|------|-----|-----|-----|
| 135.0 | 588 | 656 | 915 | 1294 | 1462 | 1294 | 915 | 656 | 588 |
| 137.5 | 607 | 674 | 917 | 1255 | 1407 | 1255 | 917 | 674 | 607 |
| 140.0 | 627 | 691 | 918 | 1216 | 1349 | 1216 | 918 | 691 | 627 |
| 142.5 | 647 | 707 | 917 | 1175 | 1291 | 1175 | 917 | 707 | 647 |
| 145.0 | 668 | 723 | 912 | 1137 | 1234 | 1137 | 912 | 723 | 668 |
| 147.5 | 685 | 736 | 905 | 1099 | 1179 | 1099 | 905 | 736 | 685 |
| 150.0 | 703 | 749 | 898 | 1062 | 1129 | 1062 | 898 | 749 | 703 |
| 152.5 | 721 | 760 | 890 | 1026 | 1083 | 1026 | 890 | 760 | 721 |
| 155.0 | 737 | 771 | 882 | 992 | 1037 | 992 | 882 | 771 | 737 |
| 157.5 | 752 | 780 | 872 | 961 | 996 | 961 | 872 | 780 | 752 |
| 160.0 | 766 | 789 | 864 | 933 | 959 | 933 | 864 | 789 | 766 |
| 162.5 | 778 | 796 | 854 | 907 | 927 | 907 | 854 | 796 | 778 |
| 165.0 | 790 | 802 | 845 | 884 | 899 | 884 | 845 | 802 | 790 |
| 167.5 | 799 | 807 | 837 | 864 | 875 | 864 | 837 | 807 | 799 |
| 170.0 | 806 | 812 | 831 | 848 | 854 | 848 | 831 | 812 | 806 |
| 172.5 | 811 | 815 | 826 | 835 | 839 | 835 | 826 | 815 | 811 |
| 175.0 | 816 | 817 | 821 | 825 | 828 | 825 | 821 | 817 | 816 |
| 177.5 | 818 | 818 | 819 | 820 | 820 | 820 | 819 | 818 | 818 |
| 180.0 | 819 | 819 | 819 | 819 | 819 | 819 | 819 | 819 | 819 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-835-WSO-DAO-ITL89033-ITL94331.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 559.67 | N.A. | 6.80 |
| 0-30 | 1168.58 | N.A. | 14.30 |
| 0-40 | 1872.64 | N.A. | 22.90 |
| 0-60 | 3150.8 | N.A. | 38.50 |
| 0-80 | 3813.23 | N.A. | 46.60 |
| 0-90 | 3883.51 | N.A. | 47.40 |
| 10-90 | 3737.17 | N.A. | 45.70 |
| 20-40 | 1312.97 | N.A. | 16.00 |
| 20-50 | 2004.47 | N.A. | 24.50 |
| 40-70 | 1701.22 | N.A. | 20.80 |
| 60-80 | 662.43 | N.A. | 8.10 |
| 70-80 | 239.36 | N.A. | 2.90 |
| 80-90 | 70.28 | N.A. | 0.90 |
| 90-110 | 581.48 | N.A. | 7.10 |
| 90-120 | 1385.14 | N.A. | 16.90 |
| 90-130 | 2237.22 | N.A. | 27.30 |
| 90-150 | 3574.02 | N.A. | 43.70 |
| 90-180 | 4302.09 | N.A. | 52.60 |
| 110-180 | 3720.6 | N.A. | 45.50 |
| 0-180 | 8185.6 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 146.34 |
| 10-20 | 413.34 |
| 20-30 | 608.90 |
| 30-40 | 704.07 |
| 40-50 | 691.50 |
| 50-60 | 586.66 |
| 60-70 | 423.06 |
| 70-80 | 239.36 |
| 80-90 | 70.28 |
| 90-100 | 96.89 |
| 100-110 | 484.59 |
| 110-120 | 803.65 |
| 120-130 | 852.09 |
| 130-140 | 751.91 |
| 140-150 | 584.88 |
| 150-160 | 409.48 |
| 160-170 | 239.90 |
| 170-180 | 78.69 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-835-WSO-DAO-ITL89033-ITL94331.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

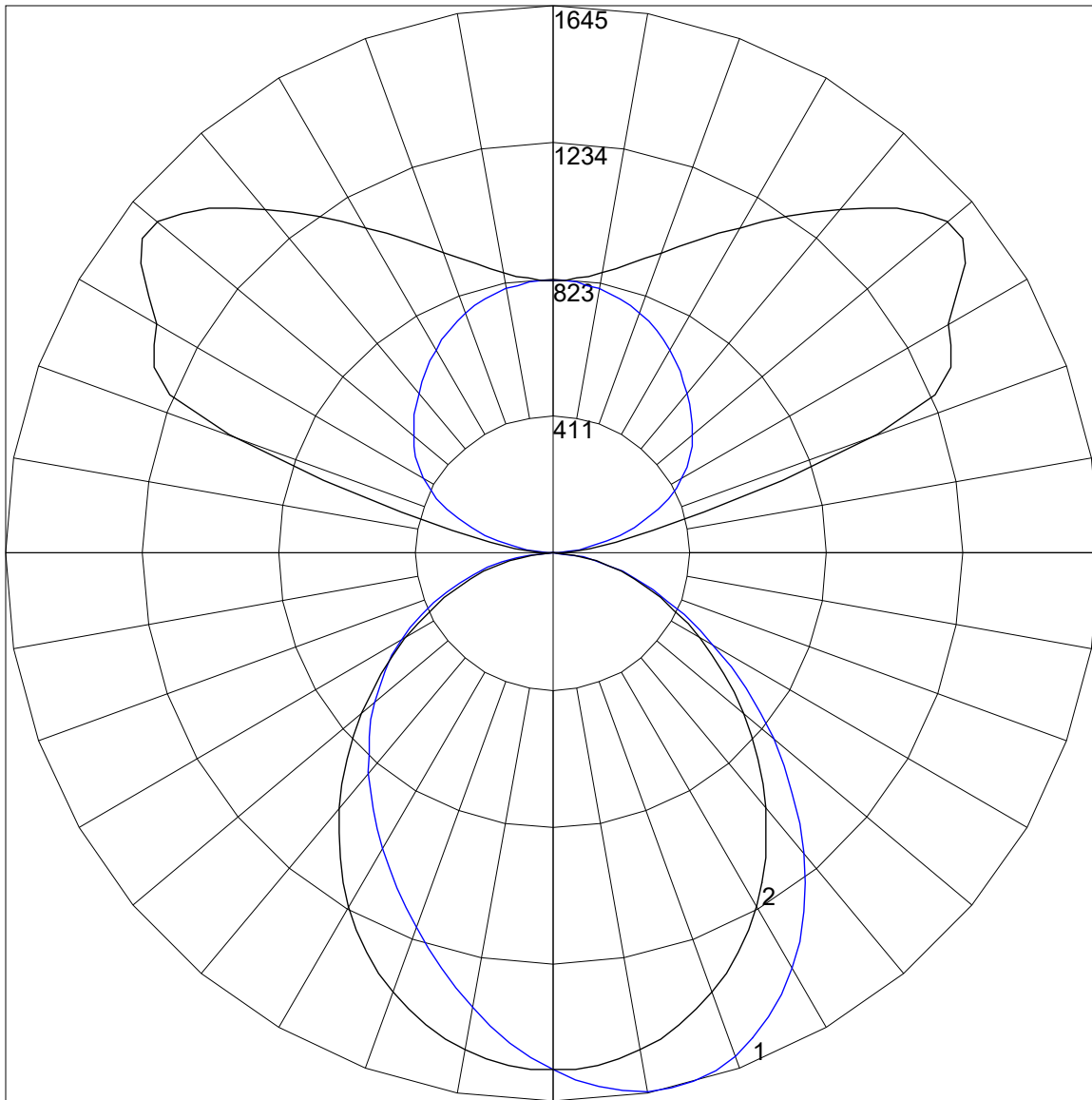
Effective Floor Cavity Reflectance 0.20

| 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 | 67 | 67 | 67 | 54 | 54 | 54 | 47 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 82 | 79 | 72 | 70 | 67 | 59 | 58 | 56 | 48 | 47 | 46 | 40 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 49 | 47 | 42 | 40 | 38 | 34 |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 46 | 43 | 40 | 37 | 35 | 33 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 33 | 31 | 28 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 |
| 6 | 63 | 51 | 43 | 37 | 57 | 47 | 40 | 35 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 30 | 26 | 23 | 25 | 22 | 19 | 17 |
| 8 | 54 | 42 | 34 | 29 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 17 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 43 | 32 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

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POLAR GRAPH



Maximum Candela = 1645 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)