

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-I-4FT-V-8-TW-ITL85127.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85127.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/07/15
[ISSUE DATE]04/14/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-I-4ft-V-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.5 WATTS, 0.308 AMPS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.4 WATTS, 0.144 AMPS
[OTHER]see www.finelite.com for source file ITL85127. 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
[_ABSOLUTELUMENS]4114

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4114 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 102 |
| Total Luminaire Watts | 40.5 |
| Ballast Factor | 1.00 |
| CIE Type | 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 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

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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> |
|-------|------------|-------------|-------------|-------------|-------------|
| 90.0 | 0 | 0 | 0 | 0 | 0 |
| 92.5 | 35 | 36 | 37 | 37 | 38 |
| 95.0 | 76 | 77 | 79 | 80 | 80 |
| 97.5 | 120 | 120 | 123 | 125 | 125 |
| 100.0 | 165 | 166 | 169 | 172 | 172 |
| 102.5 | 213 | 212 | 217 | 220 | 220 |
| 105.0 | 264 | 263 | 267 | 270 | 269 |
| 107.5 | 317 | 314 | 320 | 322 | 321 |
| 110.0 | 373 | 368 | 372 | 375 | 374 |
| 112.5 | 429 | 425 | 427 | 432 | 429 |
| 115.0 | 487 | 481 | 482 | 489 | 484 |
| 117.5 | 544 | 537 | 539 | 544 | 540 |
| 120.0 | 600 | 595 | 597 | 595 | 596 |
| 122.5 | 655 | 652 | 655 | 652 | 653 |
| 125.0 | 714 | 715 | 714 | 708 | 710 |
| 127.5 | 772 | 775 | 775 | 766 | 767 |
| 130.0 | 830 | 834 | 833 | 823 | 824 |
| 132.5 | 886 | 890 | 890 | 881 | 880 |
| 135.0 | 943 | 947 | 947 | 940 | 937 |
| 137.5 | 998 | 999 | 1002 | 996 | 991 |
| 140.0 | 1055 | 1052 | 1058 | 1052 | 1046 |
| 142.5 | 1108 | 1104 | 1112 | 1104 | 1099 |
| 145.0 | 1161 | 1151 | 1166 | 1155 | 1151 |
| 147.5 | 1210 | 1201 | 1216 | 1204 | 1201 |
| 150.0 | 1257 | 1248 | 1259 | 1252 | 1248 |
| 152.5 | 1302 | 1291 | 1301 | 1297 | 1290 |
| 155.0 | 1343 | 1332 | 1341 | 1338 | 1331 |
| 157.5 | 1381 | 1370 | 1379 | 1376 | 1370 |
| 160.0 | 1415 | 1404 | 1413 | 1409 | 1405 |
| 162.5 | 1447 | 1437 | 1446 | 1442 | 1439 |
| 165.0 | 1475 | 1467 | 1473 | 1471 | 1468 |
| 167.5 | 1498 | 1491 | 1495 | 1496 | 1494 |
| 170.0 | 1517 | 1513 | 1515 | 1515 | 1514 |
| 172.5 | 1531 | 1530 | 1531 | 1531 | 1531 |
| 175.0 | 1542 | 1542 | 1543 | 1543 | 1542 |
| 177.5 | 1550 | 1549 | 1549 | 1549 | 1550 |
| 180.0 | 1552 | 1552 | 1552 | 1552 | 1552 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 0.00 | N.A. | 0.00 |
| 0-30 | 0.00 | N.A. | 0.00 |
| 0-40 | 0.00 | N.A. | 0.00 |
| 0-60 | 0.00 | N.A. | 0.00 |
| 0-80 | 0.00 | N.A. | 0.00 |
| 0-90 | 0.00 | N.A. | 0.00 |
| 10-90 | 0.00 | N.A. | 0.00 |
| 20-40 | 0.00 | N.A. | 0.00 |
| 20-50 | 0.00 | N.A. | 0.00 |
| 40-70 | 0.00 | N.A. | 0.00 |
| 60-80 | 0.00 | N.A. | 0.00 |
| 70-80 | 0.00 | N.A. | 0.00 |
| 80-90 | 0.00 | N.A. | 0.00 |
| 90-110 | 370.46 | N.A. | 9.00 |
| 90-120 | 849.79 | N.A. | 20.70 |
| 90-130 | 1486.93 | N.A. | 36.10 |
| 90-150 | 2937.71 | N.A. | 71.40 |
| 90-180 | 4114.17 | N.A. | 100.00 |
| 110-180 | 3743.72 | N.A. | 91.00 |
| 0-180 | 4114.17 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 0.00 |
| 10-20 | 0.00 |
| 20-30 | 0.00 |
| 30-40 | 0.00 |
| 40-50 | 0.00 |
| 50-60 | 0.00 |
| 60-70 | 0.00 |
| 70-80 | 0.00 |
| 80-90 | 0.00 |
| 90-100 | 87.66 |
| 100-110 | 282.80 |
| 110-120 | 479.34 |
| 120-130 | 637.13 |
| 130-140 | 727.27 |
| 140-150 | 723.51 |
| 150-160 | 615.72 |
| 160-170 | 414.39 |
| 170-180 | 146.35 |

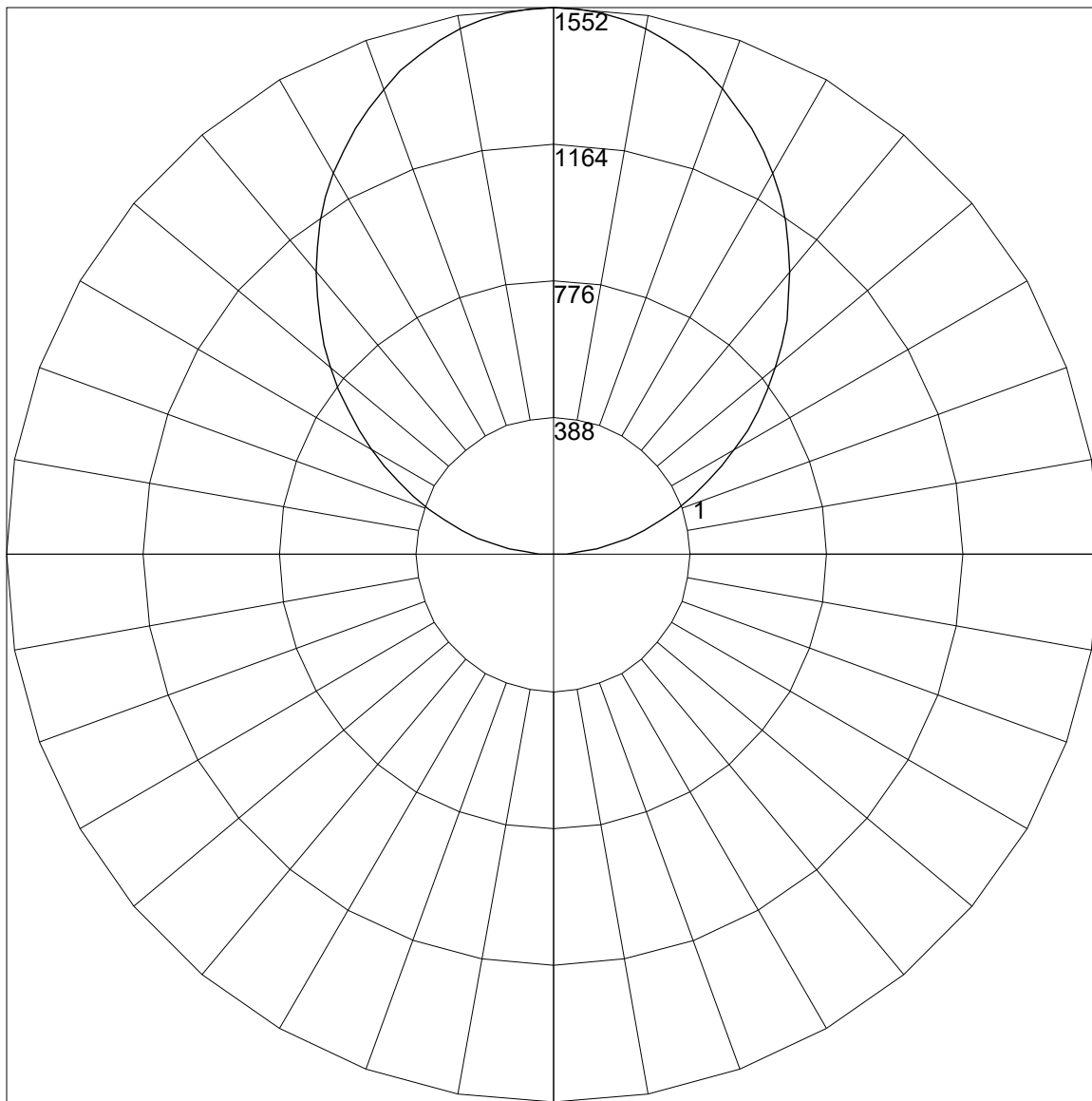
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 28 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

POLAR GRAPH



Maximum Candela = 1552 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)