

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-P-D-4FT-H-835-DSO-ITL94139.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94139.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/03/20

[ISSUEDATE]11/23/20

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-P-D-4ft-H-835-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 27.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 27.6 WATTS

[OTHER]see www.finelite.com for source file ITL94139. 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

[_ABSOLUTE]LUMENS]2546

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2546 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 93 |
| Total Luminaire Watts | 27.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.16 |
| Spacing Criterion (90-270) | 1.40 |
| Spacing Criterion (Diagonal) | 1.42 |
| 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 | 10756 | 13595 | 13962 |
| 55 | 9780 | 12518 | 12518 |
| 65 | 8774 | 11122 | 10814 |
| 75 | 7803 | 9491 | 8989 |
| 85 | 6775 | 7182 | 6504 |

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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 | 907.008 | 907.008 | 907.008 | 907.008 | 907.008 |
| 2.5 | 905.452 | 905.452 | 906.230 | 907.785 | 907.785 |
| 5.0 | 900.785 | 901.562 | 905.452 | 909.341 | 910.897 |
| 7.5 | 892.228 | 895.339 | 902.340 | 910.897 | 915.564 |
| 10.0 | 881.338 | 885.227 | 900.785 | 917.120 | 922.565 |
| 12.5 | 868.114 | 872.781 | 899.229 | 921.787 | 928.010 |
| 15.0 | 850.222 | 858.001 | 894.562 | 923.343 | 931.122 |
| 17.5 | 831.553 | 841.666 | 888.338 | 923.343 | 932.678 |
| 20.0 | 808.217 | 822.997 | 880.560 | 919.454 | 929.566 |
| 22.5 | 783.325 | 801.216 | 867.336 | 910.897 | 922.565 |
| 25.0 | 755.321 | 779.435 | 852.556 | 899.229 | 910.119 |
| 27.5 | 727.317 | 756.099 | 835.443 | 882.893 | 893.784 |
| 30.0 | 696.980 | 731.207 | 813.662 | 861.113 | 869.669 |
| 32.5 | 665.865 | 703.203 | 791.104 | 836.221 | 843.221 |
| 35.0 | 633.194 | 673.644 | 765.434 | 805.883 | 810.551 |
| 37.5 | 601.301 | 644.084 | 735.096 | 772.434 | 774.768 |
| 40.0 | 567.074 | 612.969 | 702.425 | 736.652 | 735.096 |
| 42.5 | 534.403 | 580.298 | 668.976 | 696.202 | 693.091 |
| 45.0 | 500.954 | 546.849 | 633.194 | 654.975 | 650.307 |
| 47.5 | 468.284 | 513.401 | 594.300 | 612.191 | 607.524 |
| 50.0 | 434.057 | 479.174 | 554.628 | 567.852 | 560.073 |
| 52.5 | 400.608 | 443.391 | 514.178 | 524.291 | 516.512 |
| 55.0 | 369.493 | 408.387 | 472.951 | 479.174 | 472.951 |
| 57.5 | 336.822 | 373.382 | 431.723 | 435.613 | 425.500 |
| 60.0 | 305.707 | 337.600 | 390.496 | 393.607 | 383.495 |
| 62.5 | 276.147 | 303.373 | 350.824 | 350.046 | 342.267 |
| 65.0 | 244.254 | 270.702 | 309.596 | 308.818 | 301.039 |
| 67.5 | 216.251 | 237.253 | 270.702 | 268.368 | 260.590 |
| 70.0 | 187.469 | 205.360 | 233.364 | 229.474 | 222.474 |
| 72.5 | 159.465 | 174.245 | 196.804 | 192.914 | 186.691 |
| 75.0 | 133.017 | 143.908 | 161.799 | 157.910 | 153.242 |
| 77.5 | 108.125 | 115.904 | 128.350 | 124.461 | 120.571 |
| 80.0 | 84.789 | 88.678 | 98.013 | 93.346 | 90.234 |
| 82.5 | 62.230 | 63.786 | 68.453 | 65.342 | 63.008 |
| 85.0 | 38.894 | 40.450 | 41.228 | 38.894 | 37.338 |
| 87.5 | 17.891 | 17.891 | 16.335 | 15.558 | 14.002 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-D-4FT-H-835-DSO-ITL94139.001.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 338.20 | N.A. | 13.30 |
| 0-30 | 725.47 | N.A. | 28.50 |
| 0-40 | 1188.76 | N.A. | 46.70 |
| 0-60 | 2051.46 | N.A. | 80.60 |
| 0-80 | 2500.92 | N.A. | 98.20 |
| 0-90 | 2546.37 | N.A. | 100.00 |
| 10-90 | 2460.09 | N.A. | 96.60 |
| 20-40 | 850.56 | N.A. | 33.40 |
| 20-50 | 1315.01 | N.A. | 51.60 |
| 40-70 | 1150.84 | N.A. | 45.20 |
| 60-80 | 449.46 | N.A. | 17.70 |
| 70-80 | 161.32 | N.A. | 6.30 |
| 80-90 | 45.45 | N.A. | 1.80 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 2546.37 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 86.28 |
| 10-20 | 251.92 |
| 20-30 | 387.27 |
| 30-40 | 463.29 |
| 40-50 | 464.46 |
| 50-60 | 398.24 |
| 60-70 | 288.14 |
| 70-80 | 161.32 |
| 80-90 | 45.45 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

IES INDOOR REPORT

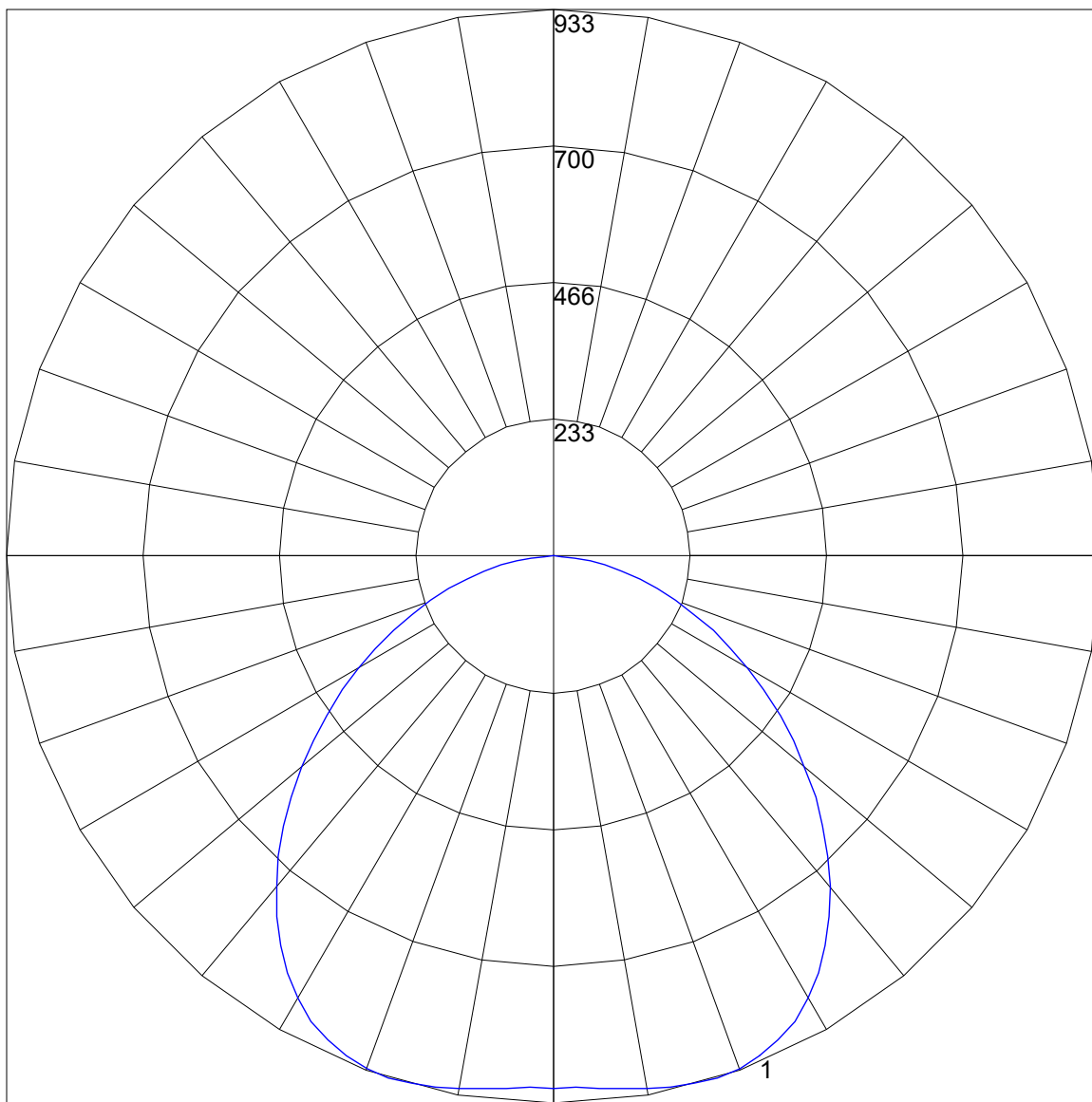
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 81 | 76 | 82 | 78 | 74 | 79 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 59 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 932.678 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)