

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-6-R-4FT-H-837-XXIC-ITL86098.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL86098.203 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]11/30/15
[ISSUEDATE]05/17/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-6-R-4ft-H-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 27.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 27.2 WATTS
[ABSOLUTE]LUMENS]2680
[OTHER]see www.finelite.com for source file ITL86098. 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 | 2681 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 99 |
| Total Luminaire Watts | 27 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.43 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5412 | 5393 | 5356 |
| 55 | 5152 | 5129 | 5106 |
| 65 | 4868 | 4826 | 4805 |
| 75 | 4496 | 4461 | 4461 |
| 85 | 4112 | 4061 | 4112 |

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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 | 967.488 | 967.488 | 967.488 | 967.488 | 967.488 |
| 2.5 | 966.065 | 966.065 | 966.065 | 966.777 | 966.777 |
| 5.0 | 962.508 | 962.508 | 962.508 | 963.220 | 963.220 |
| 7.5 | 956.817 | 956.817 | 956.817 | 956.817 | 956.817 |
| 10.0 | 948.992 | 946.858 | 947.569 | 948.992 | 946.858 |
| 12.5 | 939.033 | 934.764 | 937.610 | 939.033 | 936.187 |
| 15.0 | 925.516 | 919.825 | 924.093 | 924.805 | 920.536 |
| 17.5 | 911.288 | 903.463 | 909.154 | 908.443 | 904.175 |
| 20.0 | 894.215 | 885.678 | 890.658 | 889.235 | 884.967 |
| 22.5 | 872.162 | 863.625 | 869.316 | 868.605 | 865.760 |
| 25.0 | 848.686 | 841.572 | 847.975 | 845.841 | 842.995 |
| 27.5 | 824.499 | 817.385 | 823.788 | 820.942 | 818.097 |
| 30.0 | 798.889 | 792.487 | 796.755 | 794.621 | 792.487 |
| 32.5 | 771.145 | 765.454 | 769.722 | 766.877 | 765.454 |
| 35.0 | 741.978 | 735.575 | 739.132 | 736.998 | 735.575 |
| 37.5 | 711.388 | 706.409 | 709.966 | 707.831 | 706.409 |
| 40.0 | 679.376 | 675.107 | 678.664 | 675.819 | 675.107 |
| 42.5 | 648.075 | 643.095 | 646.652 | 643.806 | 643.095 |
| 45.0 | 615.351 | 610.371 | 613.217 | 611.083 | 608.948 |
| 47.5 | 580.493 | 576.225 | 579.781 | 576.225 | 575.513 |
| 50.0 | 545.635 | 541.366 | 543.501 | 541.366 | 540.655 |
| 52.5 | 510.777 | 506.508 | 508.643 | 505.797 | 506.508 |
| 55.0 | 475.207 | 470.939 | 473.073 | 470.228 | 470.939 |
| 57.5 | 439.638 | 435.370 | 436.792 | 434.658 | 435.370 |
| 60.0 | 403.357 | 399.089 | 400.512 | 399.089 | 399.089 |
| 62.5 | 366.365 | 364.231 | 364.942 | 362.808 | 362.808 |
| 65.0 | 330.796 | 327.239 | 327.950 | 327.239 | 326.527 |
| 67.5 | 293.803 | 290.958 | 291.669 | 290.958 | 290.246 |
| 70.0 | 258.234 | 255.388 | 256.100 | 255.388 | 254.677 |
| 72.5 | 222.665 | 219.819 | 220.530 | 219.819 | 219.819 |
| 75.0 | 187.095 | 185.672 | 185.672 | 184.961 | 185.672 |
| 77.5 | 153.660 | 152.237 | 152.948 | 152.237 | 153.660 |
| 80.0 | 120.936 | 119.513 | 120.225 | 120.225 | 120.936 |
| 82.5 | 89.635 | 88.924 | 88.212 | 88.212 | 88.924 |
| 85.0 | 57.622 | 56.911 | 56.911 | 56.200 | 57.622 |
| 87.5 | 26.321 | 26.321 | 26.321 | 25.610 | 26.321 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 351.77 | N.A. | 13.10 |
| 0-30 | 741.12 | N.A. | 27.60 |
| 0-40 | 1202.85 | N.A. | 44.90 |
| 0-60 | 2096.43 | N.A. | 78.20 |
| 0-80 | 2617.9 | N.A. | 97.60 |
| 0-90 | 2680.97 | N.A. | 100.00 |
| 10-90 | 2589.54 | N.A. | 96.60 |
| 20-40 | 851.08 | N.A. | 31.70 |
| 20-50 | 1322.77 | N.A. | 49.30 |
| 40-70 | 1218.05 | N.A. | 45.40 |
| 60-80 | 521.47 | N.A. | 19.50 |
| 70-80 | 196.99 | N.A. | 7.30 |
| 80-90 | 63.07 | N.A. | 2.40 |
| 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 | 2680.97 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 91.43 |
| 10-20 | 260.34 |
| 20-30 | 389.35 |
| 30-40 | 461.74 |
| 40-50 | 471.68 |
| 50-60 | 421.90 |
| 60-70 | 324.47 |
| 70-80 | 196.99 |
| 80-90 | 63.07 |
| 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 |

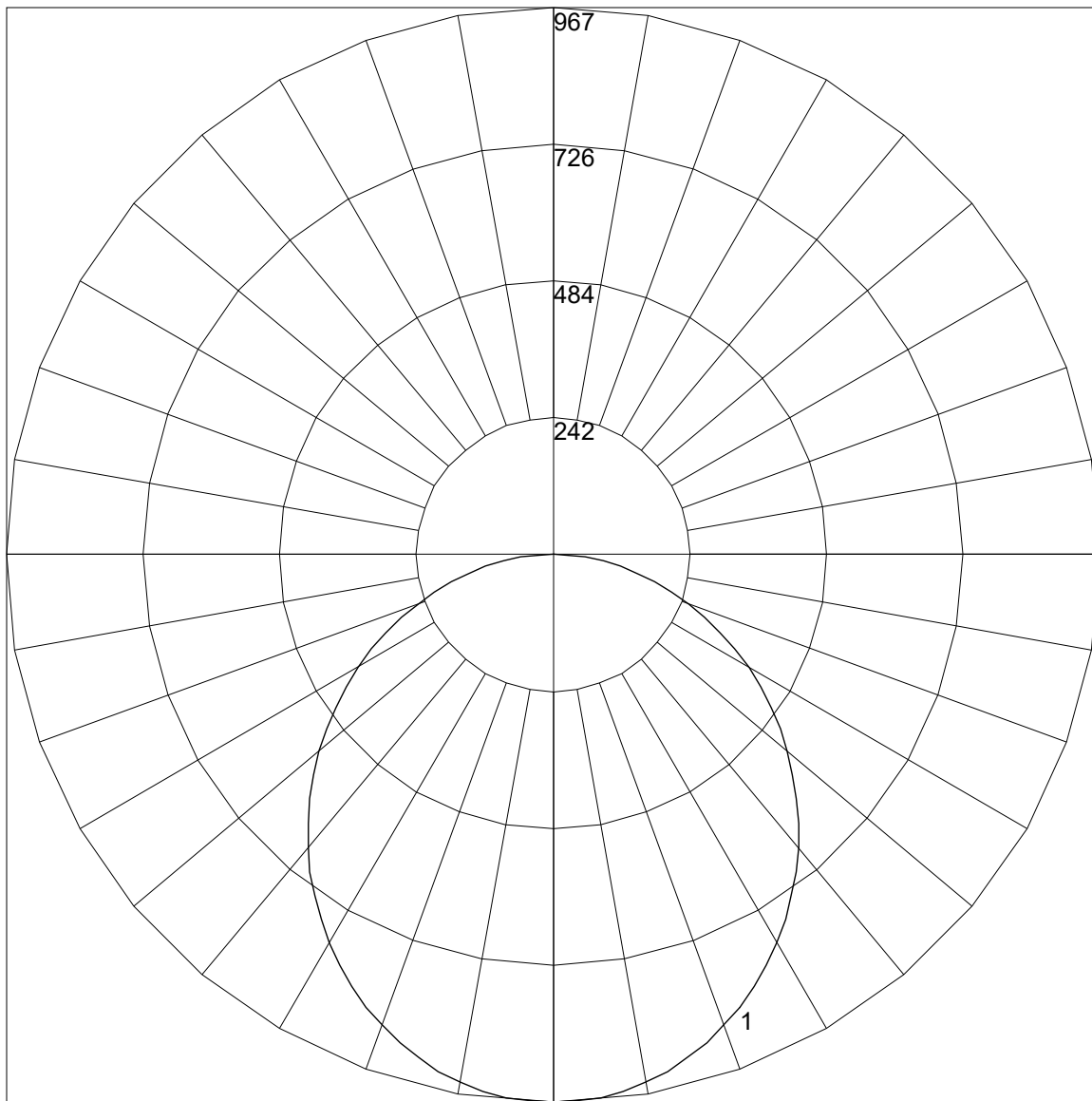
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 90 | 87 | 85 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | 64 | 58 | 53 | 62 | 56 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

POLAR GRAPH



Maximum Candela = 967.488 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)