

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-B-B-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.202.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.202 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]06/23/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-B-B-835-WSO-DSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 35.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 38.0 WATTS

[OTHER]see www.finelite.com for source files ITL89456 and 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]3752

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3752 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 105 |
| Total Luminaire Watts | 35.8 |
| 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 | 7114 | 8992 | 9235 |
| 55 | 6469 | 8280 | 8280 |
| 65 | 5804 | 7356 | 7153 |
| 75 | 5161 | 6278 | 5946 |
| 85 | 4481 | 4750 | 4302 |

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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 | 599.922 | 599.922 | 599.922 | 599.922 | 599.922 |
| 2.5 | 598.893 | 598.893 | 599.407 | 600.436 | 600.436 |
| 5.0 | 595.806 | 596.320 | 598.893 | 601.465 | 602.494 |
| 7.5 | 590.146 | 592.204 | 596.835 | 602.494 | 605.581 |
| 10.0 | 582.943 | 585.515 | 595.806 | 606.611 | 610.212 |
| 12.5 | 574.196 | 577.283 | 594.777 | 609.698 | 613.814 |
| 15.0 | 562.362 | 567.508 | 591.690 | 610.727 | 615.872 |
| 17.5 | 550.014 | 556.703 | 587.573 | 610.727 | 616.901 |
| 20.0 | 534.579 | 544.354 | 582.428 | 608.154 | 614.843 |
| 22.5 | 518.114 | 529.948 | 573.682 | 602.494 | 610.212 |
| 25.0 | 499.592 | 515.542 | 563.906 | 594.777 | 601.980 |
| 27.5 | 481.069 | 500.106 | 552.587 | 583.972 | 591.175 |
| 30.0 | 461.003 | 483.642 | 538.180 | 569.566 | 575.225 |
| 32.5 | 440.423 | 465.120 | 523.259 | 553.101 | 557.732 |
| 35.0 | 418.813 | 445.568 | 506.281 | 533.035 | 536.122 |
| 37.5 | 397.718 | 426.017 | 486.214 | 510.911 | 512.455 |
| 40.0 | 375.080 | 405.436 | 464.605 | 487.243 | 486.214 |
| 42.5 | 353.470 | 383.827 | 442.481 | 460.489 | 458.431 |
| 45.0 | 331.346 | 361.702 | 418.813 | 433.220 | 430.133 |
| 47.5 | 309.737 | 339.578 | 393.088 | 404.921 | 401.834 |
| 50.0 | 287.098 | 316.940 | 366.848 | 375.594 | 370.449 |
| 52.5 | 264.974 | 293.272 | 340.093 | 346.782 | 341.636 |
| 55.0 | 244.393 | 270.119 | 312.824 | 316.940 | 312.824 |
| 57.5 | 222.784 | 246.966 | 285.555 | 288.127 | 281.438 |
| 60.0 | 202.203 | 223.298 | 258.285 | 260.343 | 253.655 |
| 62.5 | 182.652 | 200.660 | 232.045 | 231.531 | 226.386 |
| 65.0 | 161.557 | 179.050 | 204.776 | 204.262 | 199.116 |
| 67.5 | 143.035 | 156.926 | 179.050 | 177.507 | 172.362 |
| 70.0 | 123.998 | 135.831 | 154.354 | 151.781 | 147.151 |
| 72.5 | 105.475 | 115.251 | 130.172 | 127.599 | 123.483 |
| 75.0 | 87.982 | 95.185 | 107.019 | 104.446 | 101.359 |
| 77.5 | 71.517 | 76.662 | 84.895 | 82.322 | 79.749 |
| 80.0 | 56.082 | 58.654 | 64.829 | 61.742 | 59.684 |
| 82.5 | 41.161 | 42.190 | 45.277 | 43.219 | 41.675 |
| 85.0 | 25.726 | 26.755 | 27.269 | 25.726 | 24.697 |
| 87.5 | 11.834 | 11.834 | 10.805 | 10.290 | 9.261 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 9.264 | 15.955 | 15.955 | 15.441 | 15.441 |
| 95.0 | 24.190 | 42.719 | 42.719 | 35.513 | 34.998 |
| 97.5 | 40.660 | 69.997 | 85.952 | 61.762 | 58.159 |
| 100.0 | 57.645 | 91.099 | 170.875 | 99.334 | 87.496 |
| 102.5 | 76.173 | 111.172 | 236.240 | 175.507 | 139.479 |
| 105.0 | 94.187 | 132.788 | 273.812 | 286.164 | 235.725 |
| 107.5 | 112.201 | 153.891 | 296.973 | 386.013 | 359.764 |
| 110.0 | 130.215 | 173.448 | 317.560 | 444.687 | 449.319 |
| 112.5 | 148.229 | 192.492 | 341.750 | 483.288 | 502.846 |
| 115.0 | 166.758 | 210.506 | 370.572 | 511.081 | 539.389 |
| 117.5 | 185.286 | 228.520 | 401.968 | 537.330 | 567.697 |
| 120.0 | 203.815 | 247.563 | 427.702 | 565.123 | 596.004 |
| 122.5 | 220.799 | 263.518 | 446.231 | 604.239 | 625.856 |
| 125.0 | 236.755 | 278.959 | 456.525 | 646.958 | 668.574 |
| 127.5 | 251.680 | 293.370 | 462.701 | 675.780 | 715.925 |
| 130.0 | 264.033 | 305.722 | 466.304 | 687.618 | 749.895 |
| 132.5 | 276.385 | 317.045 | 467.333 | 682.986 | 760.703 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.202.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 135.0 | 287.194 | 326.310 | 466.818 | 668.574 | 749.895 |
| 137.5 | 296.973 | 335.059 | 465.274 | 649.016 | 727.249 |
| 140.0 | 306.752 | 342.779 | 462.701 | 627.400 | 698.426 |
| 142.5 | 316.016 | 349.985 | 459.098 | 603.210 | 667.545 |
| 145.0 | 325.795 | 356.676 | 455.495 | 580.049 | 636.149 |
| 147.5 | 334.030 | 361.823 | 451.378 | 556.373 | 604.239 |
| 150.0 | 342.265 | 367.484 | 446.231 | 535.271 | 574.387 |
| 152.5 | 349.985 | 371.602 | 440.055 | 515.199 | 546.594 |
| 155.0 | 357.191 | 374.690 | 433.879 | 495.641 | 520.860 |
| 157.5 | 363.882 | 378.807 | 428.217 | 477.627 | 497.699 |
| 160.0 | 369.543 | 381.381 | 421.526 | 460.127 | 476.083 |
| 162.5 | 374.690 | 383.440 | 414.835 | 445.202 | 456.010 |
| 165.0 | 378.807 | 385.498 | 408.144 | 430.791 | 439.026 |
| 167.5 | 382.410 | 387.042 | 402.998 | 418.438 | 424.100 |
| 170.0 | 385.498 | 388.586 | 399.395 | 408.659 | 412.262 |
| 172.5 | 387.042 | 389.616 | 395.277 | 400.424 | 403.512 |
| 175.0 | 389.101 | 390.130 | 392.704 | 395.277 | 396.307 |
| 177.5 | 390.130 | 390.130 | 391.160 | 391.160 | 391.675 |
| 180.0 | 390.645 | 390.645 | 390.645 | 390.645 | 390.645 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.202.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 223.70 | N.A. | 6.00 |
| 0-30 | 479.85 | N.A. | 12.80 |
| 0-40 | 786.28 | N.A. | 21.00 |
| 0-60 | 1356.9 | N.A. | 36.20 |
| 0-80 | 1654.18 | N.A. | 44.10 |
| 0-90 | 1684.25 | N.A. | 44.90 |
| 10-90 | 1627.18 | N.A. | 43.40 |
| 20-40 | 562.58 | N.A. | 15.00 |
| 20-50 | 869.79 | N.A. | 23.20 |
| 40-70 | 761.20 | N.A. | 20.30 |
| 60-80 | 297.29 | N.A. | 7.90 |
| 70-80 | 106.70 | N.A. | 2.80 |
| 80-90 | 30.07 | N.A. | 0.80 |
| 90-110 | 270.61 | N.A. | 7.20 |
| 90-120 | 627.65 | N.A. | 16.70 |
| 90-130 | 1035.78 | N.A. | 27.60 |
| 90-150 | 1711.6 | N.A. | 45.60 |
| 90-180 | 2067.9 | N.A. | 55.10 |
| 110-180 | 1797.28 | N.A. | 47.90 |
| 0-180 | 3752.15 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 57.07 |
| 10-20 | 166.63 |
| 20-30 | 256.15 |
| 30-40 | 306.43 |
| 40-50 | 307.21 |
| 50-60 | 263.41 |
| 60-70 | 190.59 |
| 70-80 | 106.70 |
| 80-90 | 30.07 |
| 90-100 | 47.20 |
| 100-110 | 223.41 |
| 110-120 | 357.04 |
| 120-130 | 408.13 |
| 130-140 | 381.45 |
| 140-150 | 294.37 |
| 150-160 | 202.34 |
| 160-170 | 116.28 |
| 170-180 | 37.67 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

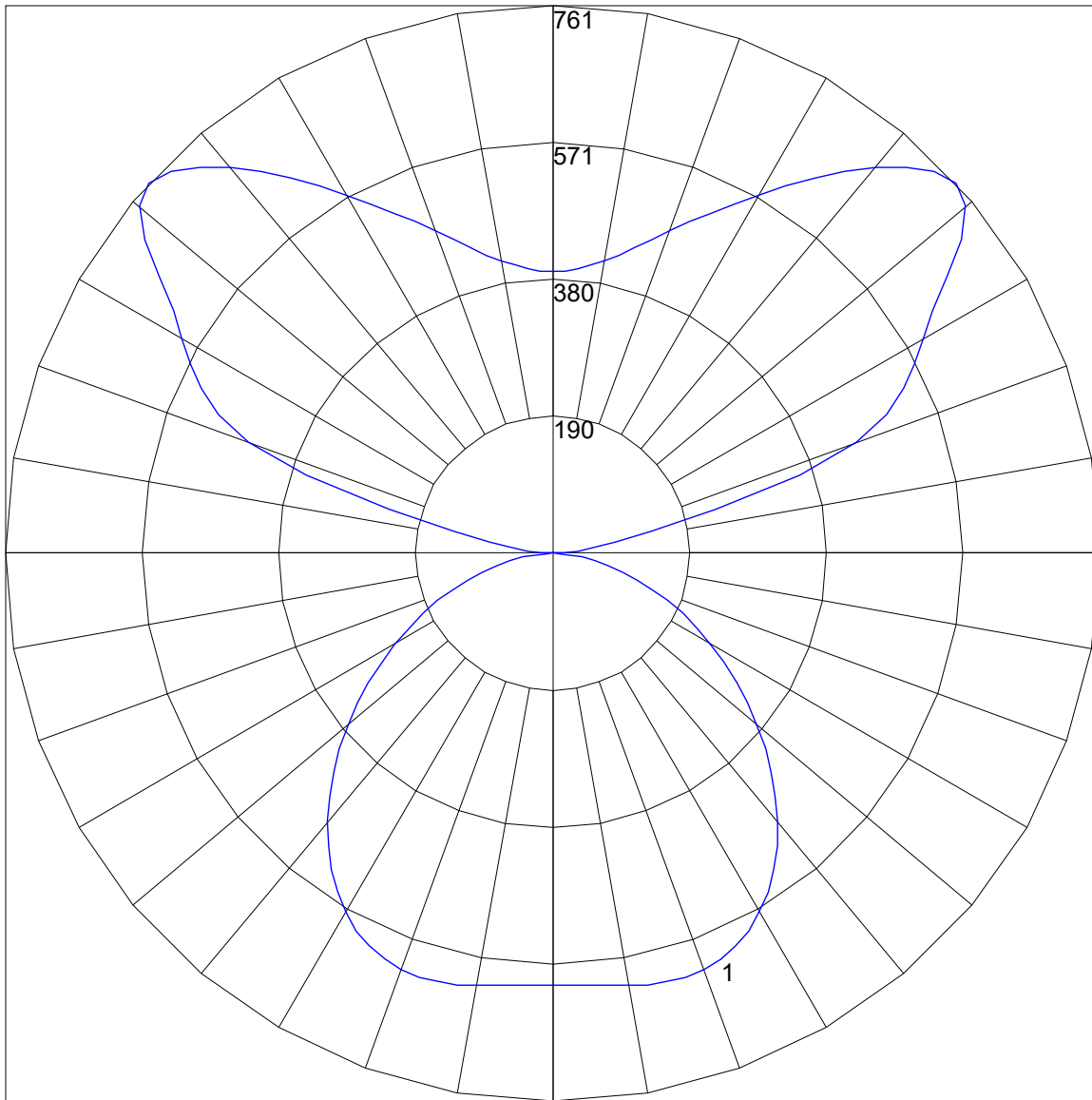
Effective Floor Cavity Reflectance 0.20

| 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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1 | 97 | 92 | 88 | 85 | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2 | 88 | 81 | 75 | 69 | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 50 | 48 | 45 | 40 | 38 | 37 | 32 |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 45 | 41 | 38 | 35 | 33 | 31 | 27 |
| 4 | 73 | 63 | 55 | 49 | 67 | 58 | 51 | 45 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 28 | 26 | 23 | 20 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 20 | 17 |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 15 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 22 | 19 | 22 | 18 | 16 | 14 |
| 9 | 49 | 37 | 30 | 25 | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 12 |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |

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POLAR GRAPH



Maximum Candela = 760.703 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)