

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-S-V-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.213.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.213 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]06/23/2021

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 49.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 51.4 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]4918

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4918 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 99 |
| Total Luminaire Watts | 49.9 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-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 | 13827 | 17477 | 17949 |
| 55 | 12573 | 16093 | 16093 |
| 65 | 11280 | 14298 | 13902 |
| 75 | 10031 | 12201 | 11556 |
| 85 | 8710 | 9232 | 8361 |

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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 | 1166.000 | 1166.000 | 1166.000 | 1166.000 | 1166.000 |
| 2.5 | 1164.000 | 1164.000 | 1165.000 | 1167.000 | 1167.000 |
| 5.0 | 1158.000 | 1159.000 | 1164.000 | 1169.000 | 1171.000 |
| 7.5 | 1147.000 | 1151.000 | 1160.000 | 1171.000 | 1177.000 |
| 10.0 | 1133.000 | 1138.000 | 1158.000 | 1179.000 | 1186.000 |
| 12.5 | 1116.000 | 1122.000 | 1156.000 | 1185.000 | 1193.000 |
| 15.0 | 1093.000 | 1103.000 | 1150.000 | 1187.000 | 1197.000 |
| 17.5 | 1069.000 | 1082.000 | 1142.000 | 1187.000 | 1199.000 |
| 20.0 | 1039.000 | 1058.000 | 1132.000 | 1182.000 | 1195.000 |
| 22.5 | 1007.000 | 1030.000 | 1115.000 | 1171.000 | 1186.000 |
| 25.0 | 971.000 | 1002.000 | 1096.000 | 1156.000 | 1170.000 |
| 27.5 | 935.000 | 972.000 | 1074.000 | 1135.000 | 1149.000 |
| 30.0 | 896.000 | 940.000 | 1046.000 | 1107.000 | 1118.000 |
| 32.5 | 856.000 | 904.000 | 1017.000 | 1075.000 | 1084.000 |
| 35.0 | 814.000 | 866.000 | 984.000 | 1036.000 | 1042.000 |
| 37.5 | 773.000 | 828.000 | 945.000 | 993.000 | 996.000 |
| 40.0 | 729.000 | 788.000 | 903.000 | 947.000 | 945.000 |
| 42.5 | 687.000 | 746.000 | 860.000 | 895.000 | 891.000 |
| 45.0 | 644.000 | 703.000 | 814.000 | 842.000 | 836.000 |
| 47.5 | 602.000 | 660.000 | 764.000 | 787.000 | 781.000 |
| 50.0 | 558.000 | 616.000 | 713.000 | 730.000 | 720.000 |
| 52.5 | 515.000 | 570.000 | 661.000 | 674.000 | 664.000 |
| 55.0 | 475.000 | 525.000 | 608.000 | 616.000 | 608.000 |
| 57.5 | 433.000 | 480.000 | 555.000 | 560.000 | 547.000 |
| 60.0 | 393.000 | 434.000 | 502.000 | 506.000 | 493.000 |
| 62.5 | 355.000 | 390.000 | 451.000 | 450.000 | 440.000 |
| 65.0 | 314.000 | 348.000 | 398.000 | 397.000 | 387.000 |
| 67.5 | 278.000 | 305.000 | 348.000 | 345.000 | 335.000 |
| 70.0 | 241.000 | 264.000 | 300.000 | 295.000 | 286.000 |
| 72.5 | 205.000 | 224.000 | 253.000 | 248.000 | 240.000 |
| 75.0 | 171.000 | 185.000 | 208.000 | 203.000 | 197.000 |
| 77.5 | 139.000 | 149.000 | 165.000 | 160.000 | 155.000 |
| 80.0 | 109.000 | 114.000 | 126.000 | 120.000 | 116.000 |
| 82.5 | 80.000 | 82.000 | 88.000 | 84.000 | 81.000 |
| 85.0 | 50.000 | 52.000 | 53.000 | 50.000 | 48.000 |
| 87.5 | 23.000 | 23.000 | 21.000 | 20.000 | 18.000 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 7.369 | 12.692 | 12.692 | 12.282 | 12.282 |
| 95.0 | 19.242 | 33.981 | 33.981 | 28.249 | 27.840 |
| 97.5 | 32.343 | 55.679 | 68.371 | 49.129 | 46.263 |
| 100.0 | 45.854 | 72.465 | 135.923 | 79.016 | 69.599 |
| 102.5 | 60.592 | 88.432 | 187.918 | 139.608 | 110.950 |
| 105.0 | 74.922 | 105.627 | 217.805 | 227.631 | 187.509 |
| 107.5 | 89.251 | 122.413 | 236.228 | 307.056 | 286.176 |
| 110.0 | 103.580 | 137.970 | 252.605 | 353.728 | 357.413 |
| 112.5 | 117.909 | 153.119 | 271.847 | 384.434 | 399.992 |
| 115.0 | 132.648 | 167.448 | 294.774 | 406.542 | 429.060 |
| 117.5 | 147.387 | 181.777 | 319.748 | 427.422 | 451.577 |
| 120.0 | 162.126 | 196.925 | 340.218 | 449.530 | 474.094 |
| 122.5 | 175.636 | 209.617 | 354.957 | 480.645 | 497.840 |
| 125.0 | 188.328 | 221.899 | 363.145 | 514.626 | 531.821 |
| 127.5 | 200.201 | 233.363 | 368.058 | 537.553 | 569.486 |
| 130.0 | 210.026 | 243.188 | 370.924 | 546.969 | 596.507 |
| 132.5 | 219.852 | 252.195 | 371.743 | 543.284 | 605.105 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.213.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 135.0 | 228.450 | 259.565 | 371.333 | 531.821 | 596.507 |
| 137.5 | 236.228 | 266.525 | 370.105 | 516.264 | 578.494 |
| 140.0 | 244.007 | 272.666 | 368.058 | 499.068 | 555.567 |
| 142.5 | 251.376 | 278.397 | 365.192 | 479.826 | 531.002 |
| 145.0 | 259.155 | 283.720 | 362.326 | 461.403 | 506.028 |
| 147.5 | 265.706 | 287.814 | 359.051 | 442.570 | 480.645 |
| 150.0 | 272.256 | 292.317 | 354.957 | 425.784 | 456.899 |
| 152.5 | 278.397 | 295.593 | 350.044 | 409.817 | 434.791 |
| 155.0 | 284.129 | 298.049 | 345.131 | 394.260 | 414.321 |
| 157.5 | 289.451 | 301.324 | 340.627 | 379.931 | 395.897 |
| 160.0 | 293.955 | 303.371 | 335.305 | 366.011 | 378.702 |
| 162.5 | 298.049 | 305.009 | 329.983 | 354.138 | 362.736 |
| 165.0 | 301.324 | 306.647 | 324.661 | 342.675 | 349.225 |
| 167.5 | 304.190 | 307.875 | 320.567 | 332.849 | 337.352 |
| 170.0 | 306.647 | 309.103 | 317.701 | 325.070 | 327.936 |
| 172.5 | 307.875 | 309.922 | 314.425 | 318.519 | 320.976 |
| 175.0 | 309.512 | 310.331 | 312.378 | 314.425 | 315.244 |
| 177.5 | 310.331 | 310.331 | 311.150 | 311.150 | 311.560 |
| 180.0 | 310.741 | 310.741 | 310.741 | 310.741 | 310.741 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.213.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 434.77 | N.A. | 8.80 |
| 0-30 | 932.63 | N.A. | 19.00 |
| 0-40 | 1528.2 | N.A. | 31.10 |
| 0-60 | 2637.24 | N.A. | 53.60 |
| 0-80 | 3215.04 | N.A. | 65.40 |
| 0-90 | 3273.48 | N.A. | 66.60 |
| 10-90 | 3162.56 | N.A. | 64.30 |
| 20-40 | 1093.43 | N.A. | 22.20 |
| 20-50 | 1690.51 | N.A. | 34.40 |
| 40-70 | 1479.46 | N.A. | 30.10 |
| 60-80 | 577.80 | N.A. | 11.70 |
| 70-80 | 207.38 | N.A. | 4.20 |
| 80-90 | 58.43 | N.A. | 1.20 |
| 90-110 | 215.26 | N.A. | 4.40 |
| 90-120 | 499.27 | N.A. | 10.20 |
| 90-130 | 823.92 | N.A. | 16.80 |
| 90-150 | 1361.5 | N.A. | 27.70 |
| 90-180 | 1644.92 | N.A. | 33.40 |
| 110-180 | 1429.66 | N.A. | 29.10 |
| 0-180 | 4918.4 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 110.92 |
| 10-20 | 323.86 |
| 20-30 | 497.85 |
| 30-40 | 595.58 |
| 40-50 | 597.08 |
| 50-60 | 511.96 |
| 60-70 | 370.42 |
| 70-80 | 207.38 |
| 80-90 | 58.43 |
| 90-100 | 37.55 |
| 100-110 | 177.71 |
| 110-120 | 284.01 |
| 120-130 | 324.65 |
| 130-140 | 303.43 |
| 140-150 | 234.16 |
| 150-160 | 160.96 |
| 160-170 | 92.50 |
| 170-180 | 29.97 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

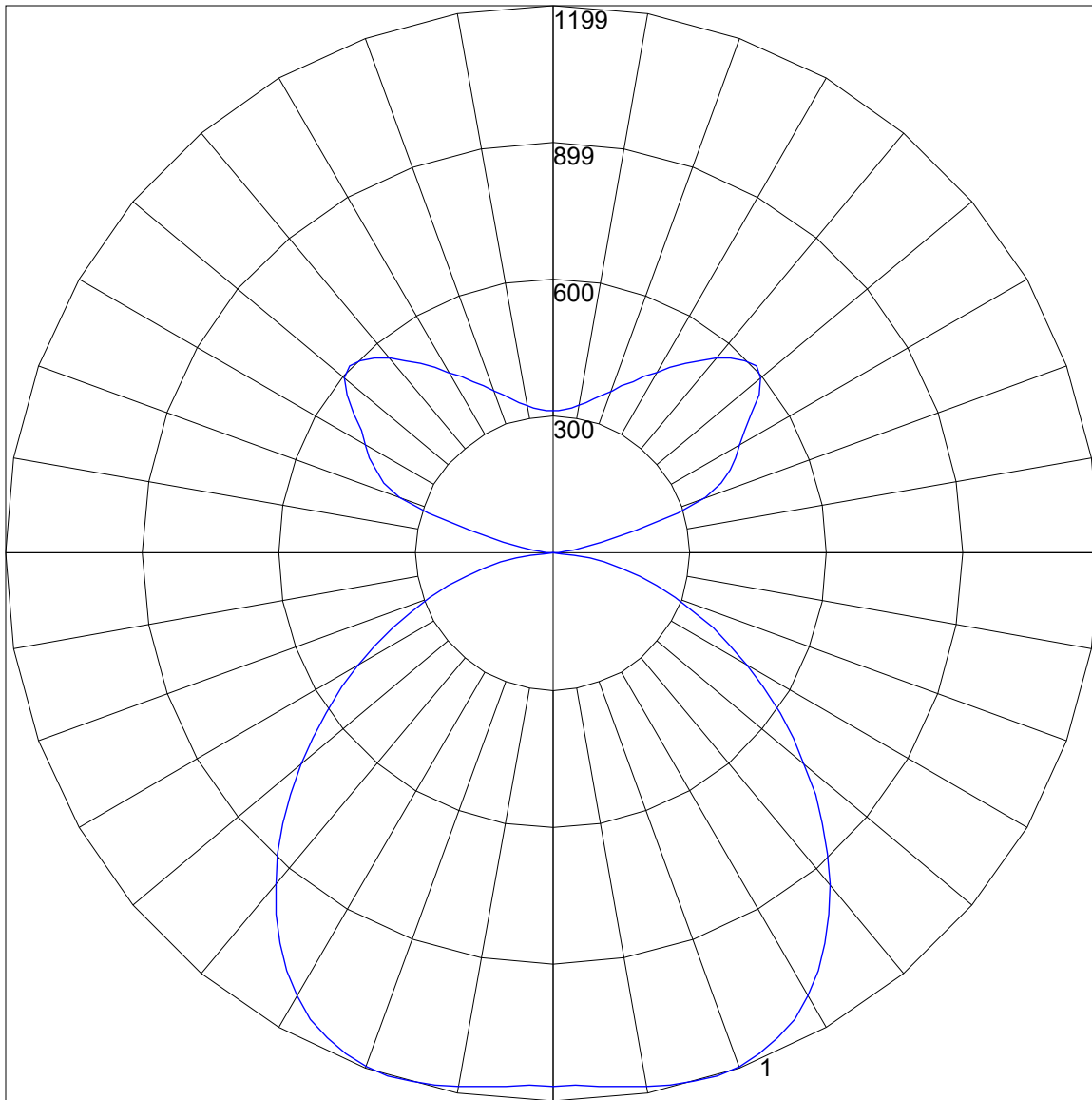
Effective Floor Cavity Reflectance 0.20

| 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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 81 | 81 | 81 | 71 | 71 | 71 | 67 |
| 1 | 102 | 97 | 93 | 89 | 95 | 92 | 88 | 85 | 81 | 79 | 76 | 72 | 70 | 68 | 63 | 62 | 60 | 56 |
| 2 | 92 | 85 | 78 | 73 | 87 | 80 | 74 | 70 | 71 | 67 | 63 | 63 | 60 | 57 | 55 | 53 | 51 | 47 |
| 3 | 84 | 75 | 67 | 61 | 79 | 70 | 64 | 58 | 63 | 57 | 53 | 56 | 52 | 48 | 49 | 46 | 43 | 40 |
| 4 | 77 | 66 | 58 | 52 | 72 | 62 | 55 | 49 | 56 | 50 | 45 | 50 | 45 | 41 | 44 | 40 | 37 | 34 |
| 5 | 71 | 59 | 50 | 44 | 66 | 56 | 48 | 43 | 50 | 44 | 39 | 45 | 40 | 36 | 40 | 36 | 32 | 29 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 37 | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 28 | 26 |
| 7 | 60 | 48 | 40 | 34 | 57 | 45 | 38 | 33 | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 28 | 25 | 23 |
| 8 | 56 | 43 | 35 | 30 | 53 | 41 | 34 | 29 | 37 | 31 | 27 | 34 | 28 | 25 | 30 | 26 | 23 | 20 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 20 | 18 |
| 10 | 49 | 37 | 29 | 24 | 46 | 35 | 28 | 23 | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 | 17 |

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POLAR GRAPH



Maximum Candela = 1199 Located At Horizontal Angle = 90, Vertical Angle = 17.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)