

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-RG-4FT-B-S-835-WSOTG-F-ITL90350 ITL89456.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350 ITL89456.010 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]05/31/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-B-S-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.1 WATTS

[OTHER]see www.finelite.com for source file ITL89456. 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]3250

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3250 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 101 |
| Total Luminaire Watts | 32.2 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-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) | 0.18 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 7516 | 5345 | 4237 |
| 55 | 6762 | 4248 | 3305 |
| 65 | 5986 | 3221 | 2515 |
| 75 | 5091 | 2474 | 2258 |
| 85 | 4065 | 1997 | 1854 |

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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 | 626.006 | 626.006 | 626.006 | 626.006 | 626.006 |
| 2.5 | 625.187 | 624.777 | 624.368 | 623.958 | 623.549 |
| 5.0 | 622.321 | 621.502 | 619.455 | 616.998 | 615.770 |
| 7.5 | 617.408 | 615.361 | 609.629 | 604.716 | 602.259 |
| 10.0 | 610.447 | 605.534 | 596.937 | 587.929 | 584.245 |
| 12.5 | 601.850 | 592.842 | 580.150 | 567.049 | 561.726 |
| 15.0 | 590.795 | 578.103 | 560.908 | 543.302 | 535.933 |
| 17.5 | 578.513 | 561.726 | 538.799 | 517.099 | 507.683 |
| 20.0 | 564.183 | 543.302 | 515.052 | 489.259 | 478.204 |
| 22.5 | 546.987 | 522.831 | 489.668 | 459.371 | 447.088 |
| 25.0 | 529.382 | 501.132 | 463.056 | 429.483 | 416.382 |
| 27.5 | 510.139 | 478.204 | 435.625 | 399.186 | 385.266 |
| 30.0 | 489.668 | 454.867 | 408.193 | 368.479 | 354.969 |
| 32.5 | 467.150 | 431.121 | 380.353 | 338.182 | 325.490 |
| 35.0 | 444.632 | 406.556 | 352.921 | 309.932 | 295.602 |
| 37.5 | 421.704 | 381.581 | 325.899 | 282.501 | 268.580 |
| 40.0 | 397.958 | 356.197 | 299.287 | 256.707 | 243.196 |
| 42.5 | 374.211 | 331.631 | 273.494 | 232.142 | 219.450 |
| 45.0 | 350.055 | 306.657 | 248.928 | 209.214 | 197.341 |
| 47.5 | 325.490 | 282.910 | 225.182 | 187.515 | 177.280 |
| 50.0 | 301.334 | 258.754 | 202.254 | 167.044 | 158.037 |
| 52.5 | 278.816 | 235.008 | 180.964 | 149.029 | 140.841 |
| 55.0 | 255.479 | 211.262 | 160.493 | 131.834 | 124.874 |
| 57.5 | 232.551 | 189.153 | 140.841 | 115.866 | 109.725 |
| 60.0 | 210.033 | 167.863 | 122.417 | 100.718 | 95.395 |
| 62.5 | 187.924 | 146.982 | 105.631 | 86.797 | 81.884 |
| 65.0 | 166.635 | 127.330 | 89.663 | 72.877 | 70.011 |
| 67.5 | 144.935 | 108.497 | 74.924 | 63.051 | 62.232 |
| 70.0 | 124.874 | 90.482 | 61.413 | 54.862 | 54.044 |
| 72.5 | 105.631 | 73.696 | 50.768 | 47.084 | 45.855 |
| 75.0 | 86.797 | 57.728 | 42.170 | 38.895 | 38.486 |
| 77.5 | 70.011 | 42.989 | 33.573 | 31.526 | 31.116 |
| 80.0 | 53.634 | 30.297 | 25.794 | 24.156 | 24.156 |
| 82.5 | 37.667 | 21.290 | 18.424 | 17.196 | 17.196 |
| 85.0 | 23.337 | 13.101 | 11.464 | 10.645 | 10.645 |
| 87.5 | 9.826 | 5.732 | 4.913 | 4.504 | 4.504 |
| 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 | 567.696 |
| 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 | 749.894 |
| 132.5 | 276.385 | 317.045 | 467.333 | 682.986 | 760.703 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-S-835-WSOTG-F-ITL90350 ITL89456.010.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 135.0 | 287.194 | 326.310 | 466.818 | 668.574 | 749.894 |
| 137.5 | 296.973 | 335.059 | 465.274 | 649.016 | 727.248 |
| 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 | 433.878 | 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 | 430.790 | 439.025 |
| 167.5 | 382.410 | 387.042 | 402.998 | 418.438 | 424.099 |
| 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-RG-4FT-B-S-835-WSOTG-F-ITL90350 ITL89456.010.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 215.92 | N.A. | 6.60 |
| 0-30 | 430.25 | N.A. | 13.20 |
| 0-40 | 655.27 | N.A. | 20.20 |
| 0-60 | 1011.43 | N.A. | 31.10 |
| 0-80 | 1167.27 | N.A. | 35.90 |
| 0-90 | 1182.13 | N.A. | 36.40 |
| 10-90 | 1123.74 | N.A. | 34.60 |
| 20-40 | 439.35 | N.A. | 13.50 |
| 20-50 | 639.95 | N.A. | 19.70 |
| 40-70 | 458.29 | N.A. | 14.10 |
| 60-80 | 155.85 | N.A. | 4.80 |
| 70-80 | 53.72 | N.A. | 1.70 |
| 80-90 | 14.85 | N.A. | 0.50 |
| 90-110 | 270.61 | N.A. | 8.30 |
| 90-120 | 627.65 | N.A. | 19.30 |
| 90-130 | 1035.78 | N.A. | 31.90 |
| 90-150 | 1711.6 | N.A. | 52.70 |
| 90-180 | 2067.9 | N.A. | 63.60 |
| 110-180 | 1797.28 | N.A. | 55.30 |
| 0-180 | 3250.03 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 58.39 |
| 10-20 | 157.52 |
| 20-30 | 214.33 |
| 30-40 | 225.02 |
| 40-50 | 200.60 |
| 50-60 | 155.56 |
| 60-70 | 102.13 |
| 70-80 | 53.72 |
| 80-90 | 14.85 |
| 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 |

IES INDOOR REPORT

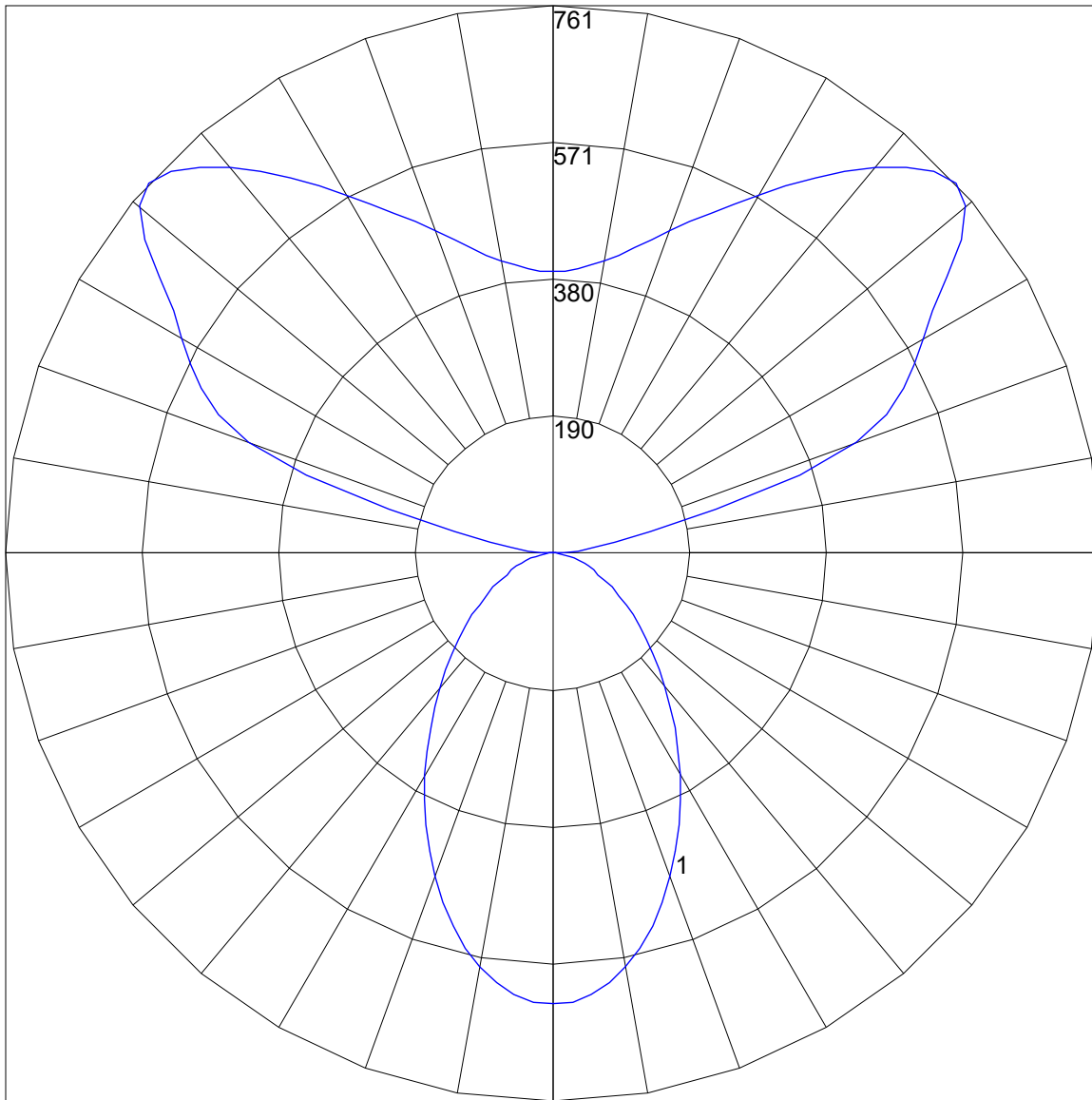
PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-S-835-WSOTG-F-ITL90350 ITL89456.010.IES

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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 36 |
| 1 | 95 | 91 | 87 | 84 | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 52 | 51 | 50 | 39 | 38 | 38 | 31 |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 64 | 59 | 56 | 53 | 47 | 44 | 42 | 35 | 34 | 32 | 27 |
| 3 | 80 | 71 | 64 | 58 | 72 | 64 | 58 | 54 | 52 | 48 | 45 | 42 | 39 | 36 | 31 | 30 | 28 | 23 |
| 4 | 73 | 63 | 55 | 50 | 66 | 57 | 51 | 46 | 47 | 42 | 38 | 37 | 34 | 31 | 28 | 26 | 24 | 20 |
| 5 | 67 | 56 | 48 | 43 | 61 | 51 | 45 | 40 | 42 | 37 | 33 | 34 | 30 | 27 | 26 | 23 | 22 | 18 |
| 6 | 62 | 50 | 43 | 37 | 56 | 46 | 39 | 35 | 38 | 33 | 29 | 31 | 27 | 24 | 23 | 21 | 19 | 16 |
| 7 | 57 | 46 | 38 | 33 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 28 | 24 | 22 | 22 | 19 | 17 | 14 |
| 8 | 53 | 41 | 34 | 29 | 48 | 38 | 32 | 27 | 32 | 27 | 23 | 26 | 22 | 19 | 20 | 17 | 16 | 13 |
| 9 | 50 | 38 | 31 | 26 | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 17 | 18 | 16 | 14 | 12 |
| 10 | 46 | 35 | 28 | 23 | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 17 | 15 | 13 | 11 |

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.)