

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 : HO4-ID-RO-4FT-B-V-835-TG-ITL90233.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.013 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/23/18

[TESTDATE]03/06/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-ID-RO-4ft-B-V-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 55.9 WATTS

[_ABSOLUTE]LUMENS]6244

[OTHER]see www.finelite.com for source file ITL90233. 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 | 6244 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 116 |
| Total Luminaire Watts | 53.8 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.32 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.40 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.25 ft |
| Luminous Height | 0.18 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 12699 | 8093 | 7193 |
| 55 | 12503 | 7155 | 6194 |
| 65 | 12174 | 6179 | 5819 |
| 75 | 11424 | 5858 | 5485 |
| 85 | 8883 | 3211 | 961 |

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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 | 1207.364 | 1207.364 | 1207.364 | 1207.364 | 1207.364 |
| 2.5 | 1206.395 | 1205.426 | 1201.550 | 1198.643 | 1198.643 |
| 5.0 | 1204.457 | 1198.643 | 1191.860 | 1187.015 | 1185.077 |
| 7.5 | 1199.612 | 1189.922 | 1180.232 | 1172.481 | 1172.481 |
| 10.0 | 1192.829 | 1177.325 | 1165.698 | 1157.946 | 1156.008 |
| 12.5 | 1184.108 | 1161.822 | 1150.194 | 1141.473 | 1137.597 |
| 15.0 | 1173.450 | 1145.349 | 1133.721 | 1124.031 | 1120.155 |
| 17.5 | 1160.853 | 1126.938 | 1114.341 | 1105.620 | 1100.775 |
| 20.0 | 1146.318 | 1107.558 | 1094.961 | 1085.271 | 1081.395 |
| 22.5 | 1127.907 | 1086.240 | 1073.643 | 1064.922 | 1061.046 |
| 25.0 | 1107.558 | 1062.015 | 1050.388 | 1042.636 | 1039.729 |
| 27.5 | 1085.271 | 1037.791 | 1027.132 | 1019.380 | 1016.473 |
| 30.0 | 1061.046 | 1011.628 | 1000.969 | 995.155 | 993.217 |
| 32.5 | 1033.915 | 983.527 | 974.806 | 968.992 | 967.054 |
| 35.0 | 1005.814 | 954.457 | 946.705 | 942.829 | 940.891 |
| 37.5 | 977.713 | 924.419 | 918.605 | 915.698 | 913.760 |
| 40.0 | 943.798 | 892.442 | 887.597 | 885.659 | 884.690 |
| 42.5 | 908.915 | 858.527 | 855.620 | 854.651 | 850.775 |
| 45.0 | 873.062 | 823.643 | 823.643 | 821.705 | 817.829 |
| 47.5 | 834.302 | 786.822 | 789.729 | 784.884 | 781.008 |
| 50.0 | 793.605 | 750.000 | 754.845 | 749.031 | 742.248 |
| 52.5 | 752.907 | 712.209 | 718.992 | 710.271 | 702.519 |
| 55.0 | 710.271 | 673.450 | 680.233 | 668.605 | 674.419 |
| 57.5 | 664.729 | 633.721 | 639.535 | 641.473 | 650.194 |
| 60.0 | 619.186 | 593.023 | 597.868 | 617.248 | 628.876 |
| 62.5 | 574.612 | 552.326 | 557.170 | 594.961 | 607.558 |
| 65.0 | 525.194 | 509.690 | 528.101 | 572.674 | 586.240 |
| 67.5 | 476.744 | 467.054 | 500.969 | 551.357 | 566.860 |
| 70.0 | 426.357 | 424.419 | 476.744 | 531.008 | 545.543 |
| 72.5 | 374.031 | 378.876 | 453.488 | 508.721 | 521.318 |
| 75.0 | 321.705 | 339.147 | 429.264 | 482.558 | 491.279 |
| 77.5 | 268.411 | 309.109 | 402.132 | 446.705 | 449.612 |
| 80.0 | 215.116 | 281.977 | 367.248 | 391.473 | 383.721 |
| 82.5 | 161.822 | 254.845 | 311.046 | 294.574 | 265.504 |
| 85.0 | 109.496 | 218.023 | 188.953 | 108.527 | 72.674 |
| 87.5 | 61.047 | 113.372 | 75.581 | 59.109 | 46.512 |
| 90.0 | 31.008 | 71.705 | 62.984 | 49.419 | 38.760 |
| 92.5 | 27.928 | 52.365 | 48.375 | 42.889 | 37.403 |
| 95.0 | 47.876 | 71.316 | 68.822 | 63.336 | 58.349 |
| 97.5 | 67.326 | 90.765 | 89.768 | 84.781 | 79.794 |
| 100.0 | 87.274 | 113.207 | 112.210 | 107.721 | 102.734 |
| 102.5 | 110.714 | 137.145 | 136.148 | 132.158 | 126.672 |
| 105.0 | 136.148 | 163.078 | 161.083 | 157.592 | 151.608 |
| 107.5 | 163.078 | 188.512 | 187.515 | 183.027 | 177.541 |
| 110.0 | 191.006 | 214.445 | 215.443 | 210.456 | 204.471 |
| 112.5 | 220.929 | 239.381 | 245.365 | 238.882 | 232.399 |
| 115.0 | 250.851 | 268.306 | 275.288 | 267.807 | 261.324 |
| 117.5 | 281.771 | 299.725 | 306.208 | 298.229 | 291.247 |
| 120.0 | 313.689 | 330.146 | 337.128 | 328.650 | 321.169 |
| 122.5 | 346.604 | 360.567 | 368.048 | 360.069 | 350.593 |
| 125.0 | 379.518 | 392.485 | 398.469 | 391.986 | 381.513 |
| 127.5 | 412.932 | 423.904 | 426.896 | 423.904 | 413.431 |
| 130.0 | 446.346 | 455.821 | 459.312 | 455.821 | 445.348 |
| 132.5 | 480.757 | 488.237 | 493.224 | 487.739 | 477.764 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-V-835-TG-ITL90233.013.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 135.0 | 514.170 | 519.656 | 525.641 | 519.656 | 510.181 |
| 137.5 | 547.584 | 552.072 | 555.563 | 550.576 | 542.098 |
| 140.0 | 580.499 | 582.494 | 586.483 | 580.499 | 573.018 |
| 142.5 | 612.915 | 612.915 | 616.406 | 610.421 | 603.938 |
| 145.0 | 643.835 | 642.339 | 645.331 | 640.344 | 634.359 |
| 147.5 | 672.760 | 669.269 | 672.760 | 669.269 | 662.786 |
| 150.0 | 700.688 | 697.696 | 701.187 | 697.197 | 691.711 |
| 152.5 | 727.120 | 722.132 | 727.120 | 722.631 | 716.647 |
| 155.0 | 751.556 | 745.572 | 751.058 | 746.569 | 743.078 |
| 157.5 | 773.500 | 768.014 | 772.003 | 768.014 | 765.520 |
| 160.0 | 793.947 | 787.962 | 793.448 | 788.960 | 786.965 |
| 162.5 | 811.900 | 806.414 | 811.402 | 806.913 | 804.918 |
| 165.0 | 827.360 | 823.371 | 825.864 | 823.371 | 820.877 |
| 167.5 | 840.327 | 837.833 | 838.831 | 837.833 | 836.337 |
| 170.0 | 851.298 | 849.802 | 850.301 | 849.802 | 848.805 |
| 172.5 | 859.278 | 859.776 | 858.779 | 858.779 | 858.779 |
| 175.0 | 865.761 | 865.761 | 865.761 | 865.761 | 865.262 |
| 177.5 | 869.751 | 869.751 | 869.751 | 869.252 | 869.252 |
| 180.0 | 870.748 | 870.748 | 870.748 | 870.748 | 870.748 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 434.25 | N.A. | 7.00 |
| 0-30 | 921.95 | N.A. | 14.80 |
| 0-40 | 1519.6 | N.A. | 24.30 |
| 0-60 | 2767.61 | N.A. | 44.30 |
| 0-80 | 3740.51 | N.A. | 59.90 |
| 0-90 | 3928.43 | N.A. | 62.90 |
| 10-90 | 3815.29 | N.A. | 61.10 |
| 20-40 | 1085.34 | N.A. | 17.40 |
| 20-50 | 1724.39 | N.A. | 27.60 |
| 40-70 | 1785.58 | N.A. | 28.60 |
| 60-80 | 972.90 | N.A. | 15.60 |
| 70-80 | 435.34 | N.A. | 7.00 |
| 80-90 | 187.92 | N.A. | 3.00 |
| 90-110 | 240.32 | N.A. | 3.80 |
| 90-120 | 505.35 | N.A. | 8.10 |
| 90-130 | 854.93 | N.A. | 13.70 |
| 90-150 | 1656.5 | N.A. | 26.50 |
| 90-180 | 2315.09 | N.A. | 37.10 |
| 110-180 | 2074.78 | N.A. | 33.20 |
| 0-180 | 6243.52 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 113.14 |
| 10-20 | 321.11 |
| 20-30 | 487.70 |
| 30-40 | 597.65 |
| 40-50 | 639.04 |
| 50-60 | 608.97 |
| 60-70 | 537.56 |
| 70-80 | 435.34 |
| 80-90 | 187.92 |
| 90-100 | 74.60 |
| 100-110 | 165.71 |
| 110-120 | 265.03 |
| 120-130 | 349.58 |
| 130-140 | 400.41 |
| 140-150 | 401.16 |
| 150-160 | 344.12 |
| 160-170 | 232.34 |
| 170-180 | 82.13 |

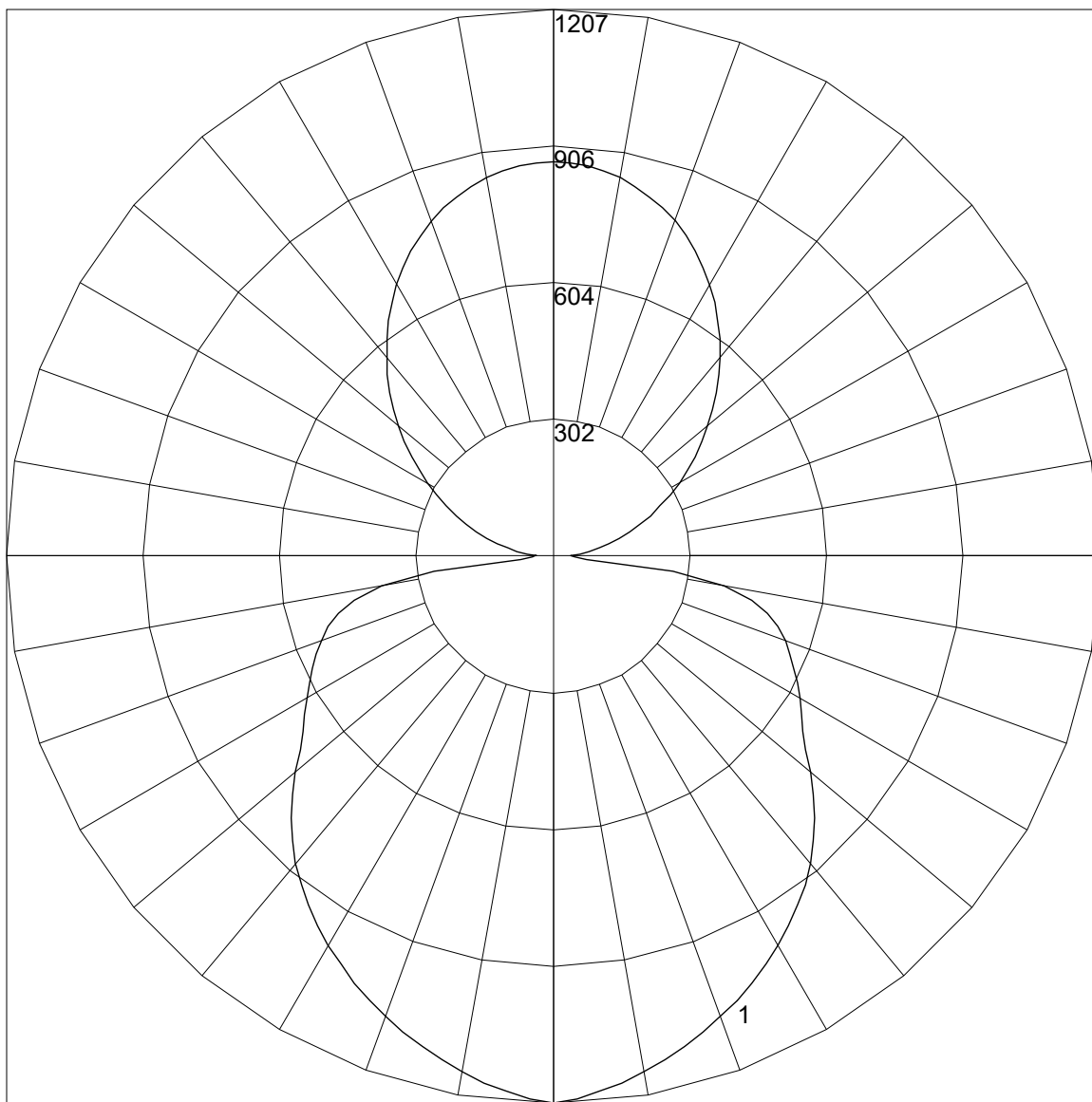
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 91 | 91 | 91 | 79 | 79 | 79 | 68 | 68 | 68 | 63 |
| 1 | 99 | 94 | 90 | 86 | 93 | 88 | 84 | 81 | 77 | 74 | 71 | 67 | 65 | 63 | 58 | 56 | 55 | 50 |
| 2 | 90 | 81 | 74 | 68 | 84 | 76 | 70 | 65 | 67 | 62 | 58 | 58 | 54 | 51 | 50 | 47 | 45 | 40 |
| 3 | 81 | 71 | 63 | 56 | 76 | 66 | 59 | 53 | 58 | 52 | 48 | 51 | 46 | 42 | 44 | 40 | 37 | 33 |
| 4 | 74 | 62 | 54 | 47 | 69 | 59 | 51 | 45 | 51 | 45 | 40 | 45 | 40 | 36 | 39 | 35 | 31 | 28 |
| 5 | 68 | 55 | 47 | 40 | 63 | 52 | 44 | 38 | 46 | 39 | 34 | 40 | 35 | 31 | 35 | 30 | 27 | 24 |
| 6 | 63 | 50 | 41 | 35 | 58 | 47 | 39 | 33 | 41 | 35 | 30 | 36 | 31 | 27 | 31 | 27 | 24 | 21 |
| 7 | 58 | 45 | 36 | 30 | 54 | 42 | 34 | 29 | 37 | 31 | 26 | 33 | 27 | 24 | 28 | 24 | 21 | 18 |
| 8 | 54 | 41 | 32 | 27 | 50 | 38 | 31 | 26 | 34 | 28 | 23 | 30 | 25 | 21 | 26 | 22 | 19 | 16 |
| 9 | 50 | 37 | 29 | 24 | 47 | 35 | 28 | 23 | 31 | 25 | 21 | 27 | 22 | 19 | 24 | 20 | 17 | 15 |
| 10 | 47 | 34 | 26 | 21 | 44 | 32 | 25 | 20 | 29 | 23 | 19 | 25 | 20 | 17 | 22 | 18 | 15 | 13 |

POLAR GRAPH



Maximum Candela = 1207.364 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)