

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 : HPT-RSE-4X4-S-835-ITL91550.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91550.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE]02/27/19
[ISSUE]03/22/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-RSE-4x4-S-835
[INPUT_ELECTRICAL]120.0 VOLTS, 55.8 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 61.7 WATTS
[ABSOLUTE]8332
[OTHER]see www.finelite.com for source file ITL91550. 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 | 8332 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 149 |
| Total Luminaire Watts | 55.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.22 |
| Spacing Criterion (Diagonal) | 1.32 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.92 ft |
| Luminous Width (90-270) | 3.92 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1925 | 1920 | 1922 |
| 55 | 1791 | 1785 | 1787 |
| 65 | 1611 | 1608 | 1613 |
| 75 | 1340 | 1329 | 1326 |
| 85 | 860 | 863 | 863 |

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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 | 3204.549 | 3204.549 | 3204.549 | 3204.549 | 3204.549 |
| 2.5 | 3198.111 | 3201.545 | 3200.257 | 3201.545 | 3198.111 |
| 5.0 | 3183.088 | 3187.380 | 3185.663 | 3186.522 | 3183.947 |
| 7.5 | 3159.481 | 3163.773 | 3161.627 | 3162.915 | 3159.481 |
| 10.0 | 3126.860 | 3130.294 | 3128.148 | 3130.723 | 3127.290 |
| 12.5 | 3086.514 | 3088.660 | 3086.085 | 3089.089 | 3084.797 |
| 15.0 | 3034.578 | 3038.441 | 3036.724 | 3036.295 | 3035.866 |
| 17.5 | 2977.063 | 2979.209 | 2977.921 | 2978.780 | 2978.780 |
| 20.0 | 2911.393 | 2914.397 | 2910.534 | 2913.968 | 2911.393 |
| 22.5 | 2839.284 | 2839.284 | 2837.996 | 2840.571 | 2837.138 |
| 25.0 | 2760.307 | 2760.307 | 2757.303 | 2760.307 | 2758.591 |
| 27.5 | 2671.459 | 2675.751 | 2672.747 | 2671.459 | 2674.464 |
| 30.0 | 2580.465 | 2579.606 | 2578.319 | 2581.323 | 2584.328 |
| 32.5 | 2484.749 | 2482.174 | 2480.457 | 2483.461 | 2480.886 |
| 35.0 | 2384.741 | 2381.736 | 2378.732 | 2383.882 | 2381.736 |
| 37.5 | 2276.578 | 2278.294 | 2275.290 | 2273.573 | 2278.294 |
| 40.0 | 2164.551 | 2164.122 | 2165.839 | 2166.268 | 2166.698 |
| 42.5 | 2054.671 | 2054.242 | 2051.667 | 2053.813 | 2056.388 |
| 45.0 | 1942.216 | 1939.211 | 1936.636 | 1940.928 | 1938.782 |
| 47.5 | 1822.035 | 1819.889 | 1819.889 | 1821.605 | 1824.181 |
| 50.0 | 1701.853 | 1701.424 | 1698.849 | 1700.995 | 1707.862 |
| 52.5 | 1584.677 | 1584.247 | 1581.672 | 1583.389 | 1585.964 |
| 55.0 | 1465.783 | 1458.915 | 1460.632 | 1459.774 | 1462.349 |
| 57.5 | 1341.739 | 1340.022 | 1334.442 | 1340.022 | 1343.026 |
| 60.0 | 1216.407 | 1217.694 | 1214.261 | 1212.114 | 1222.845 |
| 62.5 | 1096.225 | 1089.787 | 1089.787 | 1091.504 | 1092.362 |
| 65.0 | 971.323 | 968.747 | 969.606 | 970.464 | 972.181 |
| 67.5 | 852.000 | 846.420 | 844.703 | 849.424 | 848.137 |
| 70.0 | 728.814 | 725.380 | 722.805 | 722.805 | 730.102 |
| 72.5 | 608.203 | 608.633 | 606.057 | 603.911 | 608.633 |
| 75.0 | 494.890 | 492.743 | 490.597 | 491.456 | 489.739 |
| 77.5 | 387.156 | 381.146 | 381.146 | 382.434 | 381.146 |
| 80.0 | 282.855 | 281.138 | 276.846 | 278.992 | 280.280 |
| 82.5 | 188.856 | 188.427 | 187.139 | 187.998 | 188.856 |
| 85.0 | 106.876 | 109.451 | 107.305 | 108.163 | 107.305 |
| 87.5 | 42.493 | 42.493 | 43.351 | 42.922 | 43.351 |
| 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 | 1158.3 | N.A. | 13.90 |
| 0-30 | 2428.78 | N.A. | 29.20 |
| 0-40 | 3917.76 | N.A. | 47.00 |
| 0-60 | 6719.14 | N.A. | 80.60 |
| 0-80 | 8201.57 | N.A. | 98.40 |
| 0-90 | 8331.8 | N.A. | 100.00 |
| 10-90 | 8029.51 | N.A. | 96.40 |
| 20-40 | 2759.46 | N.A. | 33.10 |
| 20-50 | 4254.61 | N.A. | 51.10 |
| 40-70 | 3761.04 | N.A. | 45.10 |
| 60-80 | 1482.42 | N.A. | 17.80 |
| 70-80 | 522.76 | N.A. | 6.30 |
| 80-90 | 130.24 | N.A. | 1.60 |
| 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 | 8331.8 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 302.30 |
| 10-20 | 856.01 |
| 20-30 | 1270.48 |
| 30-40 | 1488.98 |
| 40-50 | 1495.15 |
| 50-60 | 1306.23 |
| 60-70 | 959.66 |
| 70-80 | 522.76 |
| 80-90 | 130.24 |
| 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 |

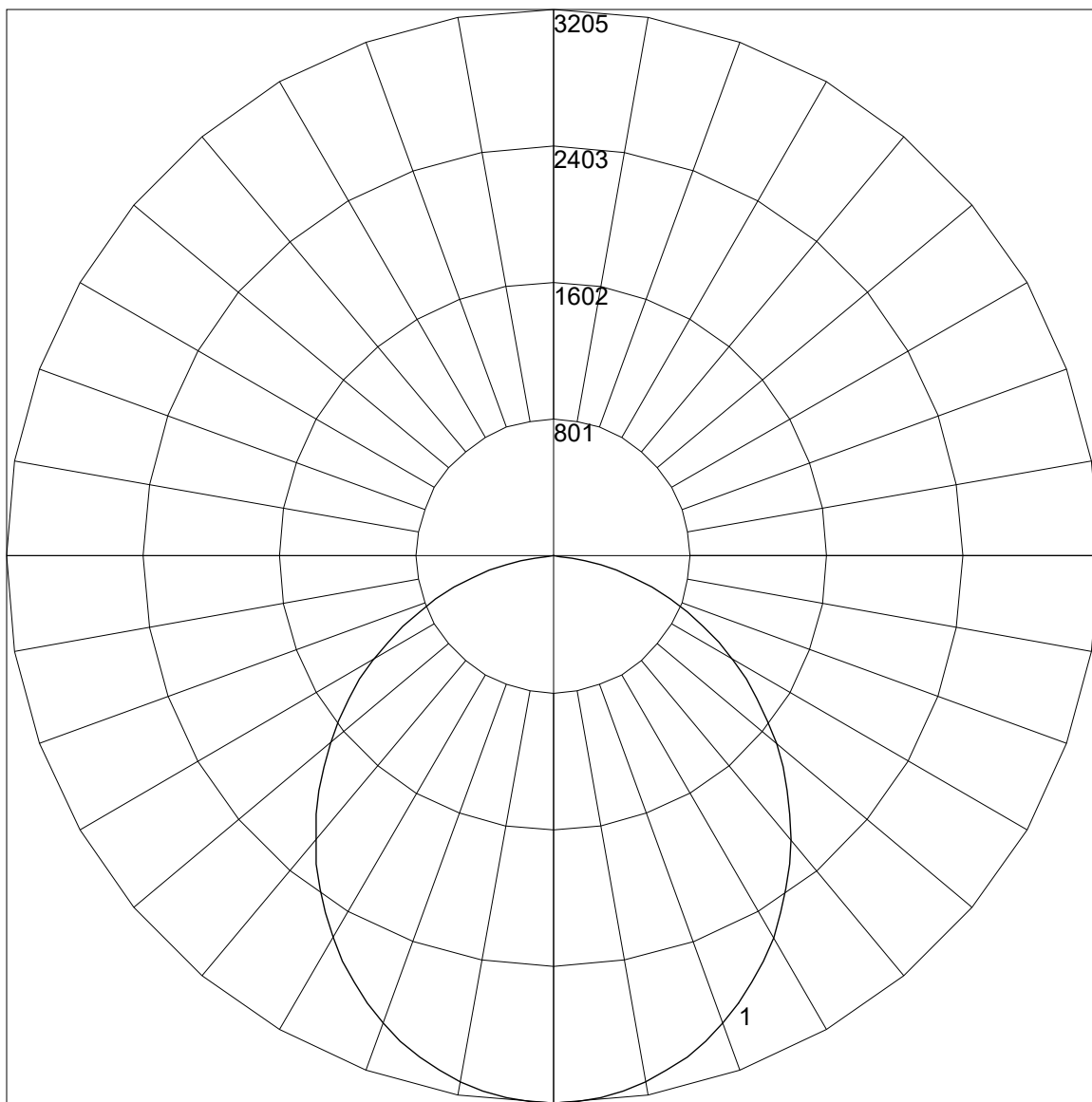
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 85 | 79 | 97 | 89 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 70 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 51 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 39 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 3204.549 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)