

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-3X3-B-8TW-ITL91549.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91549.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]03/01/19
[ISSUE DATE]04/22/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HPT-RSE-3x3-B-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com
for lumen adjustment factors for other CCT's & CRI's
[INPUT_ELECTRICAL]277.0 VOLTS, 44.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 49.6 WATTS
[ABSOLUTE LUMENS]5765
[OTHER]see www.finelite.com for source file ITL91549. 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 | 5765 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 128 |
| Total Luminaire Watts | 44.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.32 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 2.92 ft |
| Luminous Width (90-270) | 2.92 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2403 | 2389 | 2403 |
| 55 | 2215 | 2201 | 2214 |
| 65 | 1985 | 1966 | 1983 |
| 75 | 1628 | 1613 | 1633 |
| 85 | 1077 | 1062 | 1108 |

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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 | 2261.976 | 2261.976 | 2261.976 | 2261.976 | 2261.976 |
| 2.5 | 2259.305 | 2258.771 | 2257.703 | 2258.237 | 2259.840 |
| 5.0 | 2248.086 | 2247.018 | 2245.949 | 2247.552 | 2248.620 |
| 7.5 | 2229.922 | 2229.922 | 2227.785 | 2229.388 | 2229.922 |
| 10.0 | 2206.415 | 2205.347 | 2203.744 | 2205.347 | 2205.347 |
| 12.5 | 2175.429 | 2173.292 | 2172.758 | 2172.758 | 2174.895 |
| 15.0 | 2137.498 | 2135.896 | 2134.293 | 2135.896 | 2138.033 |
| 17.5 | 2094.759 | 2093.691 | 2091.554 | 2093.691 | 2094.759 |
| 20.0 | 2046.677 | 2045.609 | 2042.938 | 2044.540 | 2045.075 |
| 22.5 | 1993.787 | 1989.514 | 1990.048 | 1988.979 | 1992.185 |
| 25.0 | 1936.089 | 1930.213 | 1929.679 | 1931.281 | 1935.021 |
| 27.5 | 1868.775 | 1867.707 | 1864.501 | 1867.172 | 1872.515 |
| 30.0 | 1802.529 | 1801.995 | 1798.255 | 1801.461 | 1804.666 |
| 32.5 | 1733.078 | 1732.009 | 1728.804 | 1729.338 | 1733.078 |
| 35.0 | 1661.490 | 1655.079 | 1655.079 | 1655.613 | 1661.490 |
| 37.5 | 1586.162 | 1580.285 | 1578.148 | 1580.819 | 1586.162 |
| 40.0 | 1506.025 | 1501.217 | 1497.478 | 1500.683 | 1506.025 |
| 42.5 | 1423.752 | 1421.081 | 1417.876 | 1420.547 | 1427.492 |
| 45.0 | 1344.150 | 1337.740 | 1336.137 | 1338.808 | 1344.150 |
| 47.5 | 1259.740 | 1254.398 | 1254.398 | 1256.001 | 1262.412 |
| 50.0 | 1177.467 | 1172.125 | 1166.782 | 1170.522 | 1176.933 |
| 52.5 | 1091.454 | 1087.180 | 1081.838 | 1087.715 | 1094.126 |
| 55.0 | 1004.907 | 1000.633 | 998.496 | 1002.770 | 1004.373 |
| 57.5 | 922.100 | 914.621 | 913.552 | 916.223 | 921.566 |
| 60.0 | 835.019 | 830.745 | 824.334 | 828.608 | 837.690 |
| 62.5 | 747.403 | 743.129 | 740.458 | 743.664 | 750.609 |
| 65.0 | 663.527 | 660.322 | 657.116 | 660.856 | 662.993 |
| 67.5 | 579.652 | 575.912 | 573.241 | 575.912 | 576.980 |
| 70.0 | 496.844 | 491.502 | 490.433 | 489.899 | 494.707 |
| 72.5 | 413.503 | 412.434 | 406.557 | 409.763 | 414.571 |
| 75.0 | 333.366 | 332.832 | 330.161 | 333.366 | 334.435 |
| 77.5 | 260.175 | 256.970 | 258.038 | 257.504 | 261.244 |
| 80.0 | 192.861 | 190.190 | 188.587 | 190.724 | 190.724 |
| 82.5 | 131.958 | 128.218 | 128.218 | 127.684 | 129.821 |
| 85.0 | 74.260 | 74.260 | 73.191 | 74.794 | 76.396 |
| 87.5 | 27.246 | 28.849 | 28.849 | 28.315 | 28.849 |
| 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 | 815.19 | N.A. | 14.10 |
| 0-30 | 1704.36 | N.A. | 29.60 |
| 0-40 | 2740.41 | N.A. | 47.50 |
| 0-60 | 4669.09 | N.A. | 81.00 |
| 0-80 | 5676.33 | N.A. | 98.50 |
| 0-90 | 5765.22 | N.A. | 100.00 |
| 10-90 | 5552.05 | N.A. | 96.30 |
| 20-40 | 1925.22 | N.A. | 33.40 |
| 20-50 | 2958.23 | N.A. | 51.30 |
| 40-70 | 2581.99 | N.A. | 44.80 |
| 60-80 | 1007.24 | N.A. | 17.50 |
| 70-80 | 353.94 | N.A. | 6.10 |
| 80-90 | 88.89 | N.A. | 1.50 |
| 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 | 5765.22 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 213.17 |
| 10-20 | 602.02 |
| 20-30 | 889.17 |
| 30-40 | 1036.05 |
| 40-50 | 1033.01 |
| 50-60 | 895.67 |
| 60-70 | 653.31 |
| 70-80 | 353.94 |
| 80-90 | 88.89 |
| 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 |

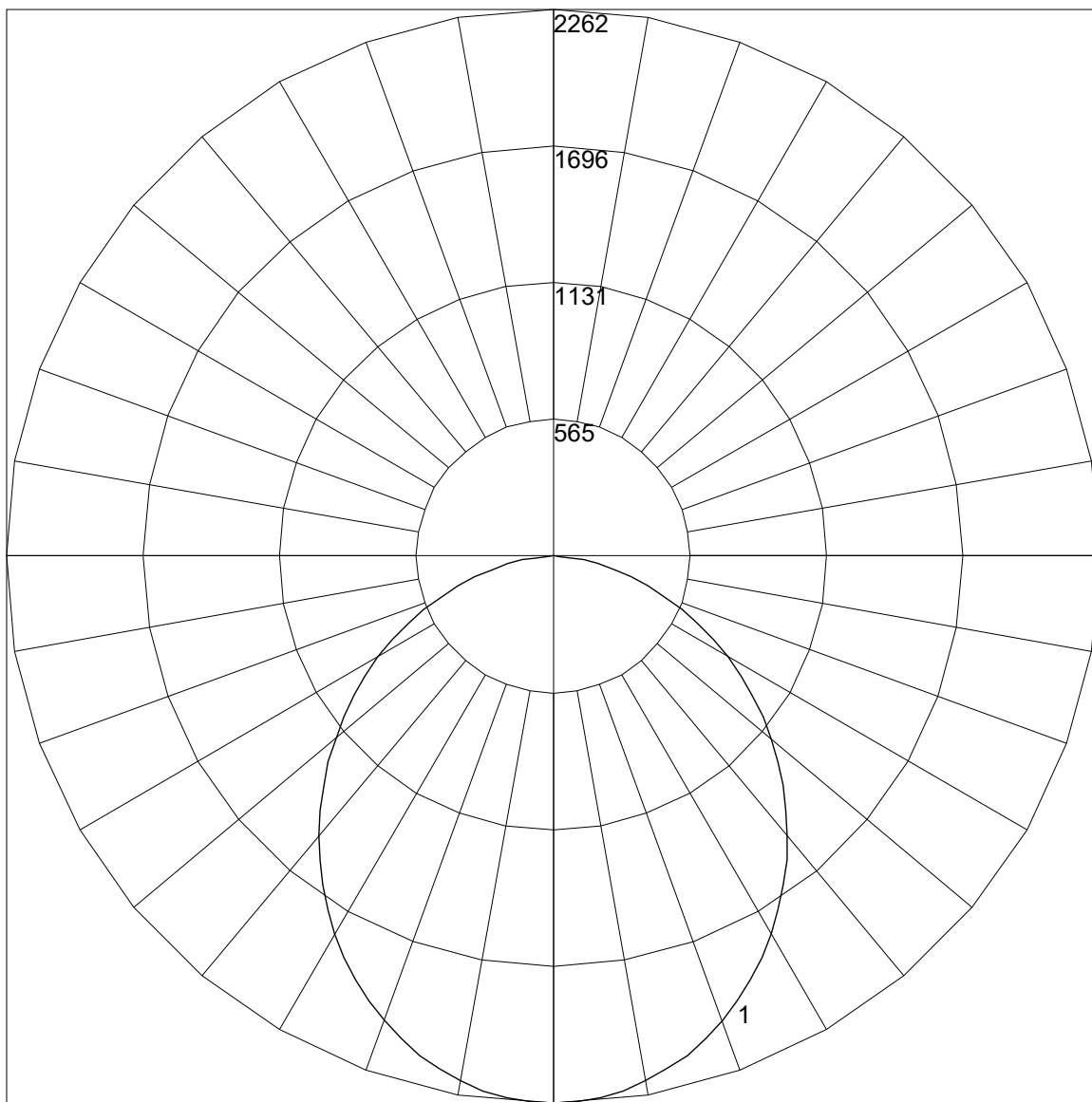
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 59 | 55 | 63 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 39 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

POLAR GRAPH



Maximum Candela = 2261.976 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)