

# 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-H-V-835-F-F-ABL-8H-ITL85132.209.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132.209 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]06/24/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-H-V-835-F-F-ABL-8H

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 65.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 66.7 WATTS

[ABSOLUTE]LUMENS]6141

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85132. 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](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                | 6141            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 94              |
| Total Luminaire Watts           | 65.2            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | General Diffuse |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 16081            | 15416             | 14664             |
| 55                  | 14637            | 13923             | 13208             |
| 65                  | 13220            | 12537             | 11927             |
| 75                  | 11908            | 11262             | 10793             |
| 85                  | 10452            | 10103             | 9581              |

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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   | 1314.000   | 1314.000    | 1314.000    | 1314.000    | 1314.000    |
| 2.5   | 1311.000   | 1313.000    | 1312.000    | 1312.000    | 1312.000    |
| 5.0   | 1306.000   | 1307.000    | 1305.000    | 1304.000    | 1304.000    |
| 7.5   | 1295.000   | 1296.000    | 1293.000    | 1292.000    | 1292.000    |
| 10.0  | 1281.000   | 1279.000    | 1277.000    | 1276.000    | 1274.000    |
| 12.5  | 1262.000   | 1258.000    | 1256.000    | 1253.000    | 1249.000    |
| 15.0  | 1241.000   | 1233.000    | 1231.000    | 1225.000    | 1220.000    |
| 17.5  | 1215.000   | 1204.000    | 1201.000    | 1192.000    | 1186.000    |
| 20.0  | 1185.000   | 1172.000    | 1167.000    | 1156.000    | 1147.000    |
| 22.5  | 1150.000   | 1136.000    | 1130.000    | 1118.000    | 1107.000    |
| 25.0  | 1114.000   | 1098.000    | 1089.000    | 1076.000    | 1064.000    |
| 27.5  | 1073.000   | 1059.000    | 1048.000    | 1031.000    | 1018.000    |
| 30.0  | 1031.000   | 1016.000    | 1003.000    | 984.000     | 971.000     |
| 32.5  | 986.000    | 971.000     | 957.000     | 936.000     | 926.000     |
| 35.0  | 942.000    | 925.000     | 910.000     | 887.000     | 877.000     |
| 37.5  | 895.000    | 879.000     | 862.000     | 840.000     | 829.000     |
| 40.0  | 847.000    | 830.000     | 815.000     | 790.000     | 780.000     |
| 42.5  | 798.000    | 782.000     | 766.000     | 741.000     | 731.000     |
| 45.0  | 749.000    | 734.000     | 718.000     | 693.000     | 683.000     |
| 47.5  | 700.000    | 685.000     | 669.000     | 645.000     | 636.000     |
| 50.0  | 650.000    | 636.000     | 621.000     | 597.000     | 589.000     |
| 52.5  | 601.000    | 588.000     | 573.000     | 551.000     | 543.000     |
| 55.0  | 553.000    | 542.000     | 526.000     | 506.000     | 499.000     |
| 57.5  | 506.000    | 496.000     | 480.000     | 462.000     | 456.000     |
| 60.0  | 458.000    | 449.000     | 435.000     | 418.000     | 413.000     |
| 62.5  | 413.000    | 404.000     | 391.000     | 378.000     | 372.000     |
| 65.0  | 368.000    | 360.000     | 349.000     | 337.000     | 332.000     |
| 67.5  | 326.000    | 317.000     | 309.000     | 297.000     | 293.000     |
| 70.0  | 283.000    | 277.000     | 268.000     | 260.000     | 255.000     |
| 72.5  | 242.000    | 237.000     | 230.000     | 223.000     | 219.000     |
| 75.0  | 203.000    | 198.000     | 192.000     | 187.000     | 184.000     |
| 77.5  | 165.000    | 161.000     | 157.000     | 153.000     | 149.000     |
| 80.0  | 128.000    | 126.000     | 122.000     | 119.000     | 117.000     |
| 82.5  | 93.000     | 91.000      | 89.000      | 87.000      | 85.000      |
| 85.0  | 60.000     | 59.000      | 58.000      | 57.000      | 55.000      |
| 87.5  | 27.000     | 26.000      | 27.000      | 28.000      | 27.000      |
| 90.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 92.5  | 23.333     | 23.333      | 23.333      | 25.667      | 25.667      |
| 95.0  | 55.222     | 52.889      | 52.889      | 53.667      | 54.444      |
| 97.5  | 87.111     | 84.778      | 83.222      | 84.000      | 84.000      |
| 100.0 | 119.778    | 115.889     | 115.889     | 115.889     | 115.111     |
| 102.5 | 154.000    | 150.889     | 149.333     | 148.556     | 148.556     |
| 105.0 | 189.778    | 187.444     | 183.556     | 182.778     | 182.000     |
| 107.5 | 226.333    | 224.000     | 219.333     | 218.556     | 217.778     |
| 110.0 | 264.445    | 262.111     | 258.222     | 256.667     | 254.333     |
| 112.5 | 304.111    | 300.222     | 297.889     | 294.000     | 291.667     |
| 115.0 | 343.778    | 341.445     | 339.889     | 332.111     | 330.555     |
| 117.5 | 385.778    | 381.889     | 381.889     | 372.555     | 371.000     |
| 120.0 | 428.555    | 422.333     | 423.889     | 414.555     | 411.445     |
| 122.5 | 469.000    | 462.778     | 465.889     | 458.111     | 452.667     |
| 125.0 | 514.111    | 504.778     | 507.889     | 500.111     | 496.222     |
| 127.5 | 558.444    | 548.333     | 549.889     | 543.667     | 542.111     |
| 130.0 | 602.000    | 591.889     | 593.444     | 585.667     | 586.444     |
| 132.5 | 645.556    | 634.667     | 637.000     | 629.222     | 629.222     |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-F-ABL-8H-ITL85132.209.IES****CANDELA TABULATION - (Cont.)**

|              |          |          |          |          |          |
|--------------|----------|----------|----------|----------|----------|
| <b>135.0</b> | 687.556  | 677.444  | 680.556  | 673.556  | 673.556  |
| <b>137.5</b> | 730.333  | 720.222  | 723.333  | 717.111  | 716.333  |
| <b>140.0</b> | 773.111  | 763.000  | 765.333  | 761.444  | 759.111  |
| <b>142.5</b> | 813.556  | 802.667  | 805.778  | 801.889  | 798.778  |
| <b>145.0</b> | 854.778  | 843.111  | 846.222  | 843.111  | 837.667  |
| <b>147.5</b> | 892.889  | 881.222  | 885.111  | 880.444  | 875.000  |
| <b>150.0</b> | 929.444  | 917.778  | 922.444  | 917.000  | 912.333  |
| <b>152.5</b> | 964.444  | 952.778  | 957.444  | 952.778  | 948.111  |
| <b>155.0</b> | 997.889  | 986.222  | 991.667  | 987.000  | 982.333  |
| <b>157.5</b> | 1026.667 | 1015.778 | 1022.000 | 1017.333 | 1012.667 |
| <b>160.0</b> | 1054.667 | 1044.555 | 1050.000 | 1045.333 | 1040.667 |
| <b>162.5</b> | 1078.778 | 1070.222 | 1074.111 | 1071.000 | 1067.889 |
| <b>165.0</b> | 1100.555 | 1092.778 | 1095.111 | 1093.555 | 1091.222 |
| <b>167.5</b> | 1116.889 | 1112.222 | 1113.778 | 1112.222 | 1111.445 |
| <b>170.0</b> | 1131.667 | 1129.333 | 1130.111 | 1128.555 | 1127.778 |
| <b>172.5</b> | 1144.111 | 1143.333 | 1143.333 | 1142.555 | 1142.555 |
| <b>175.0</b> | 1152.667 | 1152.667 | 1152.667 | 1152.667 | 1151.889 |
| <b>177.5</b> | 1157.333 | 1158.111 | 1158.111 | 1158.111 | 1157.333 |
| <b>180.0</b> | 1160.445 | 1160.445 | 1160.445 | 1160.445 | 1160.445 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-F-ABL-8H-ITL85132.209.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 469.77  | N.A.  | 7.70   |
| 0-30    | 970.35  | N.A.  | 15.80  |
| 0-40    | 1538.16 | N.A.  | 25.00  |
| 0-60    | 2559.88 | N.A.  | 41.70  |
| 0-80    | 3110.68 | N.A.  | 50.70  |
| 0-90    | 3174.64 | N.A.  | 51.70  |
| 10-90   | 3050.93 | N.A.  | 49.70  |
| 20-40   | 1068.39 | N.A.  | 17.40  |
| 20-50   | 1620.19 | N.A.  | 26.40  |
| 40-70   | 1368.07 | N.A.  | 22.30  |
| 60-80   | 550.80  | N.A.  | 9.00   |
| 70-80   | 204.45  | N.A.  | 3.30   |
| 80-90   | 63.96   | N.A.  | 1.00   |
| 90-110  | 256.05  | N.A.  | 4.20   |
| 90-120  | 590.90  | N.A.  | 9.60   |
| 90-130  | 1042.54 | N.A.  | 17.00  |
| 90-150  | 2093.49 | N.A.  | 34.10  |
| 90-180  | 2965.95 | N.A.  | 48.30  |
| 110-180 | 2709.9  | N.A.  | 44.10  |
| 0-180   | 6140.59 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 123.70 |
| 10-20   | 346.07 |
| 20-30   | 500.58 |
| 30-40   | 567.81 |
| 40-50   | 551.80 |
| 50-60   | 469.91 |
| 60-70   | 346.35 |
| 70-80   | 204.45 |
| 80-90   | 63.96  |
| 90-100  | 59.94  |
| 100-110 | 196.12 |
| 110-120 | 334.85 |
| 120-130 | 451.64 |
| 130-140 | 523.10 |
| 140-150 | 527.85 |
| 150-160 | 454.83 |
| 160-170 | 308.34 |
| 170-180 | 109.29 |

# IES INDOOR REPORT

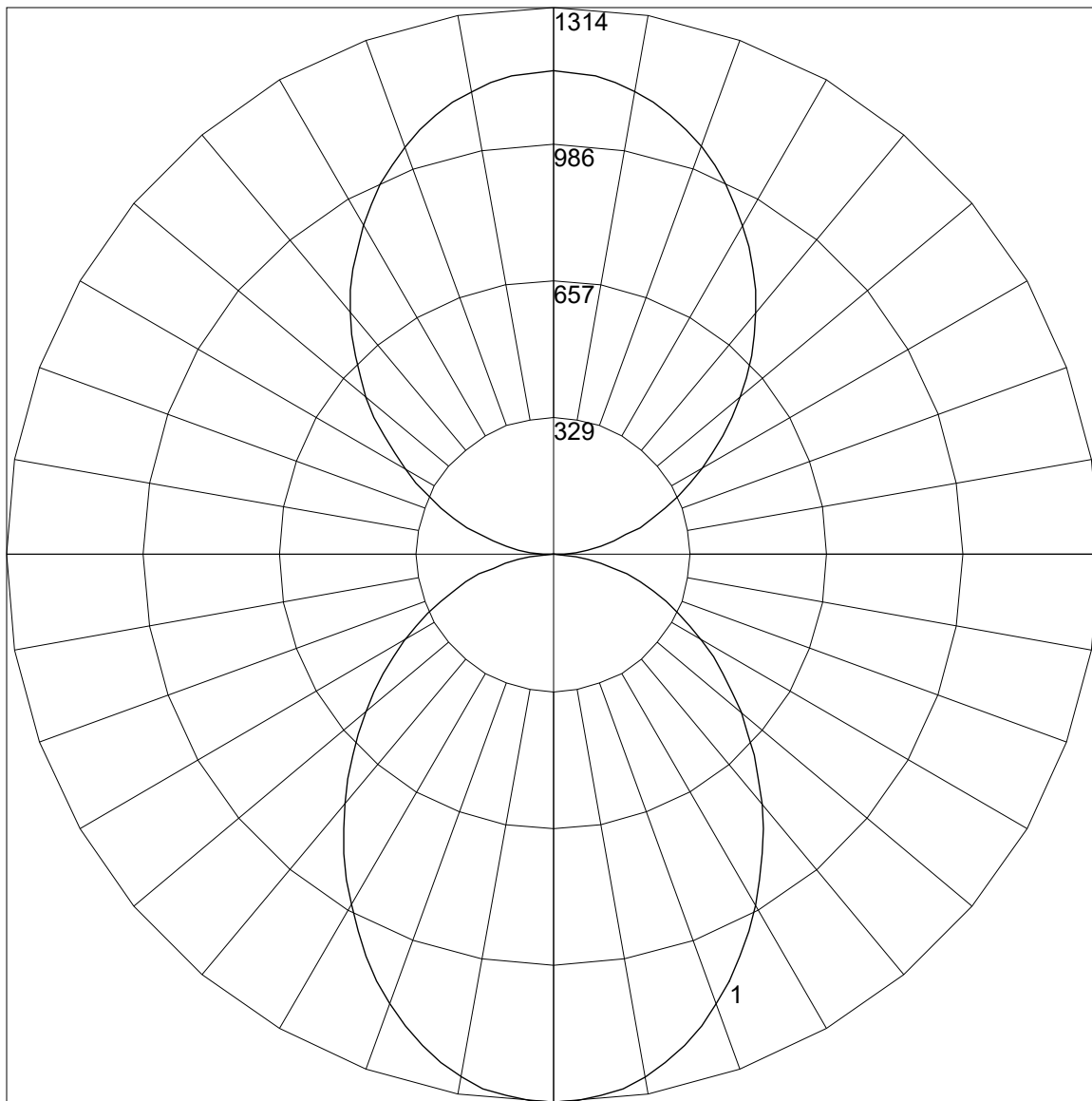
PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-F-ABL-8H-ITL85132.209.IES

## 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  | 108 | 108 | 108 | 108 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 58 | 58 | 58 | 52 |
| 1  | 98  | 94  | 90  | 86  | 91 | 87 | 84 | 81 | 74 | 71 | 69 | 62 | 60 | 59 | 51 | 50 | 49 | 44 |
| 2  | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 65 | 61 | 57 | 55 | 52 | 49 | 45 | 43 | 41 | 37 |
| 3  | 82  | 72  | 65  | 59  | 75 | 67 | 61 | 55 | 57 | 52 | 48 | 48 | 45 | 42 | 40 | 37 | 35 | 31 |
| 4  | 75  | 64  | 56  | 50  | 69 | 59 | 53 | 47 | 51 | 46 | 41 | 43 | 39 | 36 | 36 | 33 | 30 | 27 |
| 5  | 69  | 57  | 49  | 43  | 63 | 53 | 46 | 41 | 46 | 40 | 36 | 39 | 35 | 31 | 32 | 29 | 27 | 23 |
| 6  | 63  | 51  | 43  | 37  | 58 | 48 | 41 | 35 | 41 | 36 | 31 | 35 | 31 | 27 | 29 | 26 | 23 | 21 |
| 7  | 59  | 46  | 38  | 33  | 54 | 43 | 36 | 31 | 37 | 32 | 28 | 32 | 28 | 24 | 27 | 24 | 21 | 18 |
| 8  | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 25 | 21 | 19 | 16 |
| 9  | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 25 | 31 | 26 | 22 | 27 | 23 | 20 | 23 | 19 | 17 | 15 |
| 10 | 47  | 35  | 28  | 23  | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

POLAR GRAPH



Maximum Candela = 1314 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)