

Beam Spread Chart

| Manufacturer | Unit | | | | | |
|---------------------|----------------|------|-------|---------|---------|-----------------|
| Ellipsoidals | | Beam | Field | Candela | Lamp | Frame |
| ETC | Source Four 5 | 0.1 | 0.12 | 1191900 | HPL-575 | 14" x 14" |
| ETC | Source Four 10 | 0.14 | 0.19 | 729060 | HPL-575 | 12" x 12" |
| ETC | Source Four 14 | 0.21 | 0.26 | 352159 | HPL-575 | 7.50" x 7.50" |
| ETC | Source Four 19 | 0.26 | 0.32 | 250560 | HPL-575 | 6.25" x 6.25" |
| ETC | Source Four 26 | 0.32 | 0.45 | 138330 | HPL-575 | 6.25" x 6.25" |
| ETC | Source Four 36 | 0.47 | 0.61 | 71340 | HPL-575 | 6.25" x 6.25" |
| ETC | Source Four 50 | 0.65 | 0.93 | 30363 | HPL-575 | 6.25" x 6.25" |
| ETC | Source Four 70 | 1.14 | 1.4 | 17593 | HPL-575 | 7.50" x 7.50" |
| ETC | Source Four 90 | 1.63 | 1.88 | 10537 | HPL-575 | 7.50" x 7.50" |
| Altman | 360Q 4.5x6.5 | 0.61 | 0.95 | 38250 | EHG-750 | 7.50" x 7.50" |
| Altman | 360Q 6x9 | 0.41 | 0.63 | 66000 | EHG-750 | 7.50" x 7.50" |
| Altman | 360Q 6x12 | 0.3 | 0.46 | 115500 | EHG-750 | 7.50" x 7.50" |
| Altman | 360Q 6x16 | 0.21 | 0.33 | 141000 | EHG-750 | 7.50" x 7.50" |
| Altman | 360Q 6x22 | 0.14 | 0.19 | 164250 | EHG-750 | 7.50" x 7.50" |
| Altman | 3.5Q 3.5x6 | 0.37 | 0.69 | 15000 | EHD-500 | 4.125" x 4.125" |
| Altman | 3.5Q 3.5x8 | 0.37 | 0.5 | 16000 | EHD-500 | 4.125" x 4.125" |
| Altman | 3.5Q 3.5x10 | 0.37 | 0.41 | 17300 | EHD-500 | 4.125" x 4.125" |
| Altman | 3.5Q 3.5x12 | 0.3 | 0.32 | 20000 | EHD-500 | 4.125" x 4.125" |
| | | | | | | |
| | | | | | | |
| Parcan | | Beam | Field | Candela | Lamp | |
| ETC | S4 Par VNSP | 0.14 | 0.26 | 310000 | HPL-575 | 7.50" x 7.50" |
| ETC | S4 Par NSP | 0.17 | 0.33 | 218000 | HPL-575 | 7.50" x 7.50" |
| ETC | S4 Par MFL (V) | 0.21 | 0.39 | 102000 | HPL-575 | 7.50" x 7.50" |
| ETC | S4 Par MFL (H) | 0.28 | 0.69 | - | - | 7.50" x 7.50" |
| ETC | S4 Par WFL (V) | 0.3 | 0.57 | 40500 | HPL-575 | 7.50" x 7.50" |
| ETC | S4 Par WFL (H) | 0.48 | 0.87 | - | - | 7.50" x 7.50" |

How To Use:

Multiply ratio by throw distance to calculate beam or field diameter.

Divide Candela number by the throw distance squared to calculate foot-candles

All measurements are based on the lamp listed, see manufacturer for additional data.

This guide is intended as a quick reference based upon normal conditions, actual performance may vary.



Generic Beam Spread Information

| Degree | Beam |
|--------|-------|
| 5 | 0.088 |
| 10 | 0.174 |
| 15 | 0.26 |
| 20 | 0.36 |
| 25 | 0.44 |
| 30 | 0.54 |
| 35 | 0.64 |
| 40 | 0.72 |
| 45 | 0.82 |
| 50 | 0.94 |
| 55 | 1.04 |
| 60 | 1.16 |
| 65 | 1.28 |
| 70 | 1.4 |
| 75 | 1.54 |
| 80 | 1.68 |
| 85 | 1.84 |
| 90 | 2 |

Multiply ratio by throw distance to calculate spread.

This guide is intended as a quick reference see manufacturer photometrics for actual performance.

Definitions:

Field Diameter: The diameter of the base of a cone shaped beam where the perimeter of the base is defined by where the intensity is 10% of the maximum intensity.

Beam Diameter: The diameter of the base of a cone shaped beam where the perimeter of the base is defined by where the intensity is 50% of the maximum intensity.