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Directions for the Field Template™ BEAM SPREAD STENCIL for Legacy Users (Folks who grok beam spreads)

The Field Template™ **BEAM SPREAD STENCIL** allows for accurate light beams to be calculated, measured, and drawn. The template also simplifies construction of overlapping light beams to create even washes of light in groundplan view, front elevation, and sectional drawings. The printed information on the template provides conversions, definitions, formulas, and a host of multiplier information to calculate beam pool size for any light beam up to 90 degrees.

The Field Template™ **BEAM SPREAD STENCIL** is a grid laid out on vinyl plastic that is slightly larger than a piece of letter-sized paper. The stencil consists of three rows of [SHADED] polygon "Pie Pieces" distributed between three sets of plastic "Support Struts." Below each row of Pie Pieces is a [LAVENDER] protractor with the "Zero Degree" centered in the middle of the Center Support Strut, the Centerline. The cut-out [RED] "dot-and-dash" Centerline runs vertically through the middle of the template, dividing the grid into two scales; half-inch scale on the left, and quarter-inch scale on the right.

At the top of the Centerline is the [RED] Point Source cut-out hole, which is the "Zero Point" for the entire template. It's vertically aligned with the [ORANGE] cut-out lighting symbols on either side, as well as the printed scales that run vertically along each side edge of the template. Distances in both scales are also printed on either side of Centerline, as well as the Side Support Struts. In this way it's possible to measure scaled distances from the middle of any light beam, as well as either edge of the light beam.

The edges of the Support Struts are designed to trace basic beam angles. The outside of the bottom Center Support Strut [ORANGE] traces a 5-degree light beam. The inside of the Side Support Struts [BLUE and ORANGE] traces a 36-degree light beam. The outside of the Side Support Struts traces a 44-degree light beam *[in anticipation for that new 44-degree lighting instrument-NOT!]*.

The Point Source is also the "Zero Point" for all of the degree marks as well. The degree marks radiate from the Point Source on either side of Centerline. In addition to being printed above and below each of the three [LAVENDER] cut-out protractors, the degree marks can also be seen inside the rectangular "frame" printed inside the scales touching the edges of the template. Degree notations greater than 45-degrees [on either side] can be marked using one of the vertical [BLUE] "gutters" starting above the outside middle-row of Pie Pieces.

Generic trim distances, from the bottom of the batten to the yoke point, are shown above each of the [ORANGE] cut-out lighting symbols. Basic directions and a legend are printed in the top right-hand corner of the template. Four sets of reference information are printed on the template; the right-hand side [quarter-inch scale] includes rectangular boxes explaining Conversions, Definitions, and Formulas, while the left-hand side [half inch scale] includes several printed rectangles defining Field Angle Spreads and Pool Size Multipliers, both for the cut-out lighting fixtures, and for generic light beams.

Finally, the Field Template™ Beam Spread Stencil is slightly taller than a piece of paper. The three [YELLOW] holes running vertically on the left-hand side allows it to fit into the rings of a three-ring binder, so the template sticks above the rest of the pages, like a tab separator. To insure the plastic doesn't catch on the notebook's metal release tabs, the top-and-bottom left-hand corners are cut at a diagonal angle.

To allow for the greatest possible flexibility, the Field Template™ Beam Spread Stencil is designed with very large holes. For that reason, this template is a relatively delicate flower. The template must be handled and stored with care, to insure longevity. If the template is used as a door chock or a windshield snow scraper, the template will break. Field Template takes no responsibility for any broken Field Templates. It is the responsibility of the end user to treat this stencil, like all plastic templates, with respect.