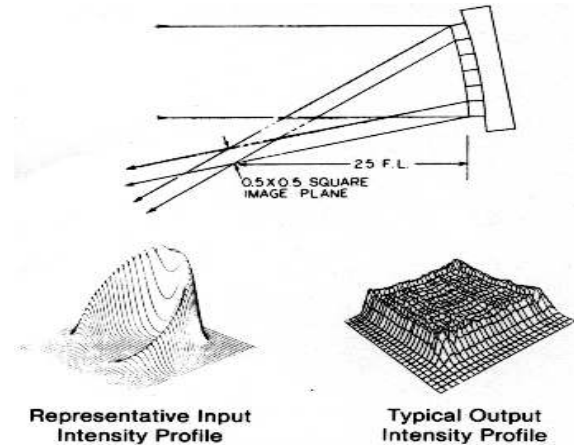


SPAWR INTEGRATOR

PRODUCT SHEET



UNIFORM BEAM INTENSITY

SPAWR Integrators transform gaussian, asymmetrical and annular beams into uniform intensity profiles on a target plane. The beam is optically dissected by mirror segments into square sections which are then superimposed on a focal plane. This method of integration effectively mode locks the beam at the target or image plane.

ORDERING INFORMATION

Passive Model **Cat. No. SI-061**

Water-Cooled Model **Cat. No. SIW-061**

Custom Designs:

Special sizes and zoom systems are common variations to the standard integrator. Call us for a technical discussion of your particular application.

Specify wavelength of laser when ordering.

FEATURES

Average uniformity of $\pm 10\%$
 96% minimum reflectance @ 10.6 microns.
 High power rating to 15KW <400 seconds for passive units and 100 KW CW in water-cooled versions.
 Pulsed damage threshold is $1 \times 10^5 \text{ J/cm}^2 \sqrt{\text{sec}}$.
 All molybdenum optical surfaces for high durability in industrial environments.

DIMENSIONS (For standard size models)

Back-up structure:

4.0 inches diameter in passive model, and
 4.0 inches square in water-cooled model.

Clear aperture and required beam size:

2.6 to 3.0 inches diameter and water-cooled model will accept a square beam.

Target Plane Size:

0.5 x 0.5 inches with collimated input.

IMPORTANT NOTE:

Target size can be expanded or reduced by the addition of one convex or concave mirror.