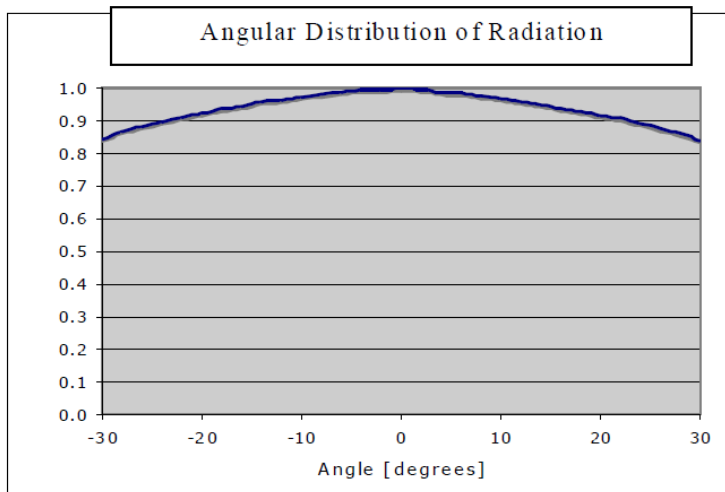


Angular Distribution of Radiation

The Intex Emitter has a flat surface and from that surface the angular distribution of the radiation follows a cosine function, peaking at normal incidence.

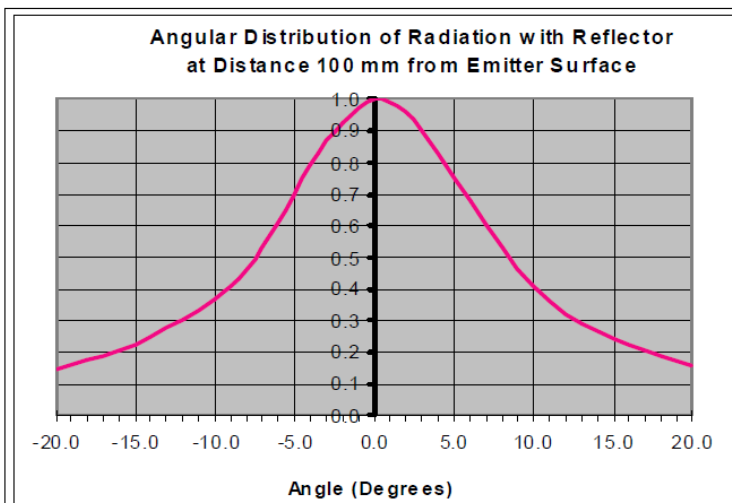


Some system designs cannot locate the detector plane very close to the emitter and a significant amount of energy falls outside of the detector collection "field of view".

To improve the energy collimation, Intex offers a parabolic reflector option that can be fitted to the emitters.



With the reflector the Emitter's energy is kept within a much tighter solid angle. The distribution of an INTEX source with a parabolic reflector is shown below.



Options

Intex Emitters are rugged and are typically operated exposed to ambient atmosphere. Intex can provide Emitters with windows which can help define a sample compartment in certain applications. Window materials available are:

- Calcium Fluoride
- Sapphire
- Barium Fluoride
- Antireflective Coated
- Silicon

Some system integrators want even more flexibility in packaging. Available configurations are:

- TO-5
- TO-39
- TO-18

Surface mounted Emitters can be supplied under special order.

The ultimate in low overhead packaging is DIE. We can supply cut or wafer level.

To assist customers in getting project concepts proven, and our components "designed in", we offer limited in house feasibility modeling and proof of principal prototyping. It is our goal to be of assistance throughout the entire product life cycle.

Please contact us to discuss your project.

