



## 10° IR Direction Turning Film

### Sensor Applications

Luminit's IR (Infrared) Direction Turning Film (DTF) is an asymmetrical, prismatic film mastered using gray scale lithography. The film imparts a 10° shift in the angle of an IR 810nm LED light source. Specifically designed to work with Osram's IR OSLUX SFH 4780S LED, the DTF is highly effective when used with narrow-band IR LED sensor applications such as in consumer electronics. When the LED and sensor are located next to each other, a DTF is required when the light needs to reflect off a target and back to the sensor to collect data.

#### DTF APPLICATIONS

- Consumer Electronics Products
- Automotive Sensors
- Specially designed to work with Osram IR OSLUX 810nm LED

#### DTF SPECIFICATIONS

- Turning Angle: 10°
- Substrate: 0.005" polyester
- Transmission Spectral Range: 800nm-860nm
- Temperature Range: -30° C to 80° C@ 240 hrs.
- Humidity: >95% +/- 5% RH @24 hrs.
- Pencil Hardness: > 2H

