



Direction Turning Film (DTF)

Lighting Applications

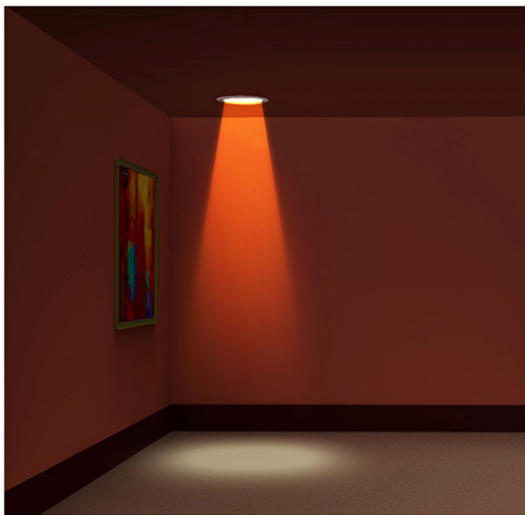


Figure 1 :
Fixed Recessed Down Light

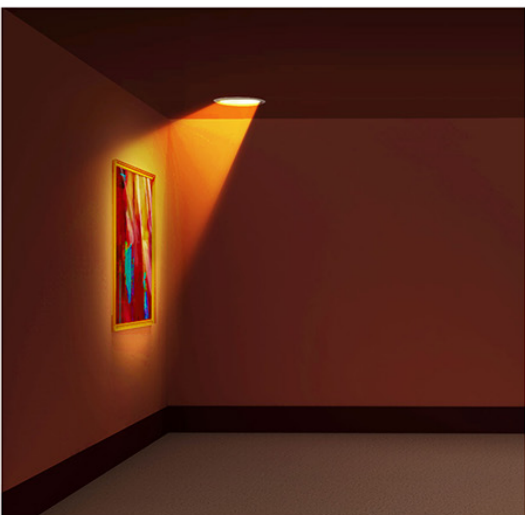


Figure 2 :
Lighting shown with Direction Turning Film

Luminit's Direction Turning Film (DTF) is a non-symmetrical linear micro-prismatic that imparts a 20° shift in the angle of a semi-collimated light source. The DTF works well with LED light sources that utilize secondary optics. Some applications include recessed can lights to allow for more wall washing, pathway/stair lighting to reduce glare and increase ground illumination, and pool lighting to increase illumination of the bottom. Direction Turning Films can be combined with Light Shaping Diffusers® to shape and homogenize the beam in addition to changing the direction. The beam can be shaped in a circular or elliptical pattern dependent on the diffuser angle chosen.

Applications and Benefits

- Recessed can lights to allow for more wall washing
- Pathway/stair lighting to reduce glare and increase ground illumination
- Pool lighting to increase illumination of the bottom
- Cost-savings with no changes to the light fixture
- The redirected image is virtually distortion free
- Easy to incorporate



Luminit's Direction Turning Film (DTF) has a prismatic structure that changes the direction of a light source by 20 degrees.

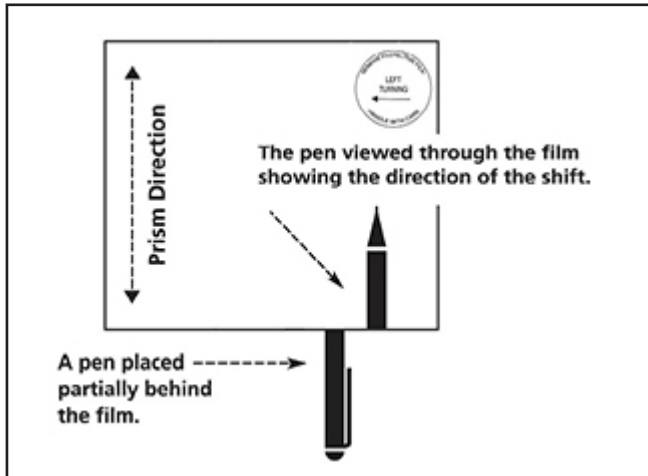
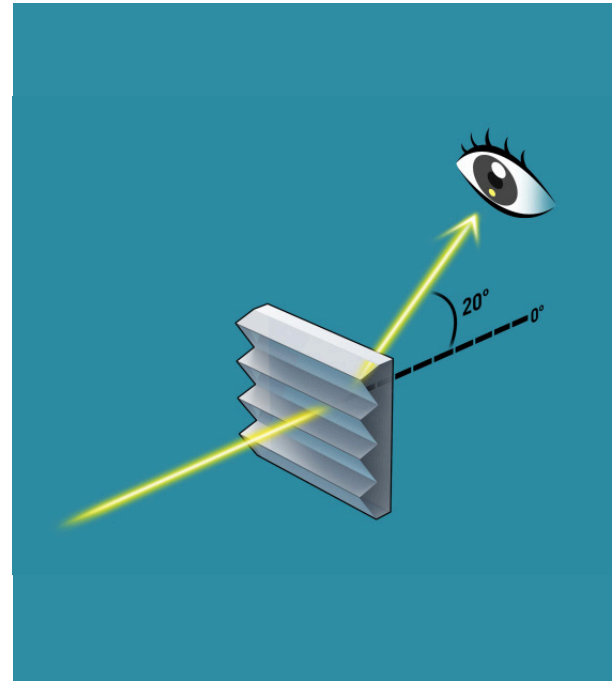


Figure 3 is a drawing showing the way the prismatic structure redirects light.

Note: The sticker is on the prism side.



Specifications

| | |
|------------------------------|---------------------------------|
| Turning Angle: | 20° |
| Substrate: | 0.010 polycarbonate |
| Transmission Spectral Range: | 400nm to 800nm |
| Temperature Range: | -30°C to 80°C @ 240 hrs. |
| Humidity: | 95% ± 5% RH @ 24 hrs. |
| Pencil Hardness: | > 2H |
| Yellow Index: | <2% direct exposure (240 hours) |
| Solvent Resistances: | Methanol, Windex® |

Download our other product datasheets at
<https://luminitco.com/downloads/data-sheets>

