



A manufacturer's representative with over 30 years experience serving the OEM lighting market.



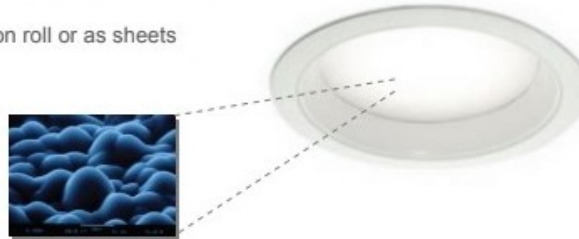
Come visit us at LEDEducation
March 19-20, 2024
New York Hilton Midtown, New York City

Booth Information:
Elemental/OLS - Americas Hall 1 2922
Alanod/Ingemann - Americas Hall 1 2920

Diffusion Film Technical Data Sheet

Description: High transmittance circular diffuser film

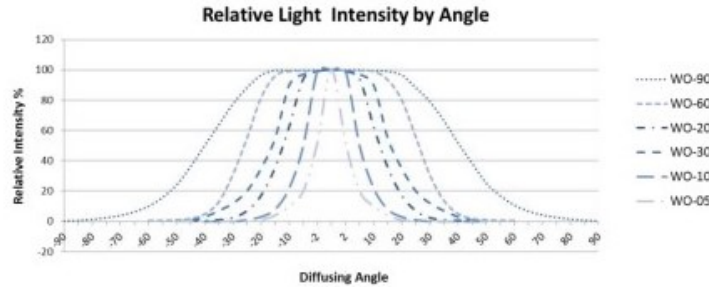
Options: Available on roll or as sheets



Micro lens structure for efficient light control

Product Code	Beam Angle (degree)	Optical Efficiency (with WhiteOptics Reflector*)+	Width
**WO-DF90-C	90 (full diffuse)	>93%	Up to 58" wide
**WO-DF60-C	60	>94%	Up to 48" wide
**WO-DF30-C	30	>95%	Up to 58" wide
* WO-DF20	20	>95%	Up to 24" wide
* WO-DF10	10	>95%	Up to 24" wide
* WO-DF05	5	>95%	Up to 24" wide

Achievable optical utilization for LED emitters in 2" deep optical cavity with WhiteOptics F16 White98® film placed on side and back walls and WhiteOptics Micro-Diffusion film used as lens. Results will vary depending on geometrical design and emitter type.



Specification			
Substrate	PET	Angular tolerance	+/-3%
Width	See table above	Pencil hardness	3H
Thickness	0.005" (127µm)	Max temperature	185° F (85° C)

**Custom seamless available in products DF30C, DF60C, and DF90C; C indicates custom seamless version.

*Film rolls have a visible 1mm repeating seam every 24" (610mm) in roll direction for DF05, DF10, and DF20.



For more information, email: inquiries@whiteoptics.com

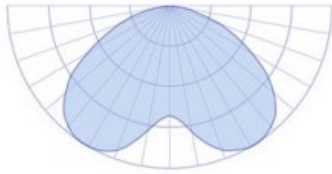
This information has been carefully compiled from experience gained in the laboratory and under commercial conditions. However, the product's performance and its suitability depends on the particular conditions of use. We recommend that customers satisfy themselves that each product meets their requirements in all respects. This information is being provided by WhiteOptics LLC free of charge as a courtesy to customers, and WhiteOptics LLC HEREBY DISCLAIMS ALL REPRESENTATIONS, WARRANTIES AND LIABILITIES WITH RESPECT TO THE INFORMATION AND USE THEREOF. WhiteOptics® is a trademark exclusive to WhiteOptics LLC. All rights reserved.

WhiteOptics® Split Diffusion Film

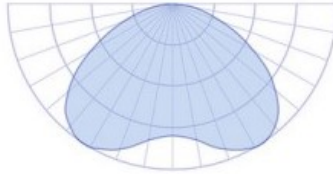
Description: Linear split-beam diffuser to create a “batwing” optical distribution

Applications: Linear Lighting applications where uniform distribution with reduction of center hot-spot intensity is desired.

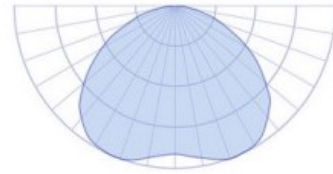
Options: Available in roll, pre-cut sheets or as custom die-cut parts. Also available on rigid acrylic sheets or glass.



30:70 Typical Distribution



30:90 Typical Distribution



20:95 Typical Distribution

Product Code	Peak Angle (degree)	Nadir Supression	*Optical Efficiency	Available Width	
DFBW-30:70	30	70%	>92	48.5" (1232mm)	0.012" (.305mm)
DFBW-30:90	30	90%	>92	23.5" (597mm)	0.006" (.152mm)
DFBW-20:95	20	95%	>90	48.5" (1232mm)	0.012" (.305mm)

For more information [click here](#)





Benefits of Reflective Metals

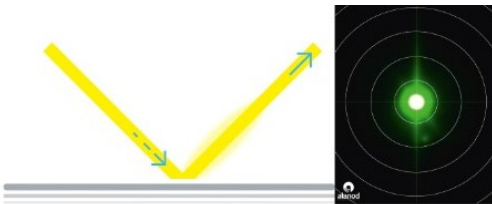
Light Quality through Durability

Our reflective surfaces are perfect for LED lighting systems, providing consistently high-performance reflectivity over the life of an LED bulb (about 50,000 hours) and longer, with no reflection loss or color distortion.

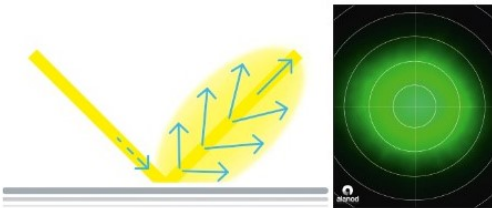
Light Quality through Light Control

Light control and light quality go hand in hand, regardless of your application's requirements, our products offer ideal results. Whether you need isotropic or anisotropic reflection characteristics, darklight effects, or ergonomic self-luminance, we have a wide range of products to suit your end-goal.

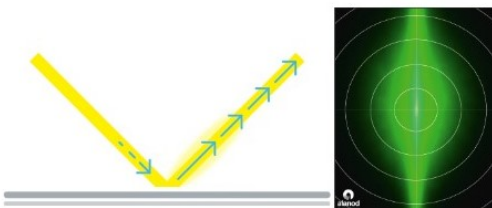
We have the right surfaces for:



- Directing light precisely – for example:
 - for downlights or spotlights in shop lighting
 - for industrial lighting at great heights (e.g. MIRO® 27)



- Directing light diffusely – for example:
 - for streetlights and industrial lighting at a lower height.
 - Our materials allow individual LED light points to be dissipated, thus achieving smooth light distribution (e.g. MIRO® 20)



- Distributing light linearly through one surface alone – the point becomes a line. In offices or industry, linear lights are far superior to rotationally symmetrical solutions in terms of workplace ergonomics (e.g. MIRO® 5/5013GP)

For more information [click here](#)

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