

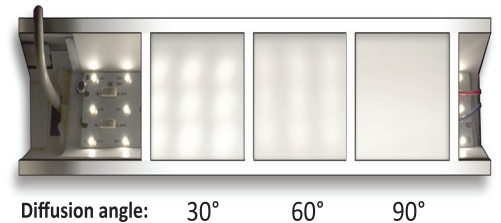
PRODUCT OVERVIEW: Conical, Elliptical, and Split Diffusers

whiteoptics® Diffuse

WhiteOptics® DF series micro-structured diffusers offer a wide range of diffusion to give designers ultimate flexibility in transforming LED lamp images. Conical, elliptical and split diffusion structures allow for color mixing, lamp hiding and unique distributions while providing high transmission and efficiency.

CONICAL

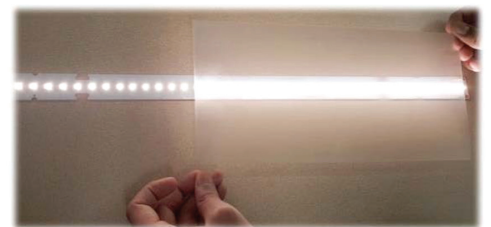
Hide lamp images, improve LED color mixing, and achieve a soft, uniform look for better aesthetics at the highest optical efficacy.



Product #	Beam Angle (degree)	Efficiency	Max Width	Total Thickness
DF-05	5	>95%	24" (610mm)	0.005" (.127mm)
DF-10	10	>95%	24" (610mm)	
DF-20	20	>95%	24" (610mm)	
DF-30C	30	>95%	58" (1473mm)	0.006" (152mm)
DF-60C	60	>94%	48" (1219mm)	
DF-90C	90	>93%	58" (1473mm)	0.007" (.177mm)

ELLIPTICAL

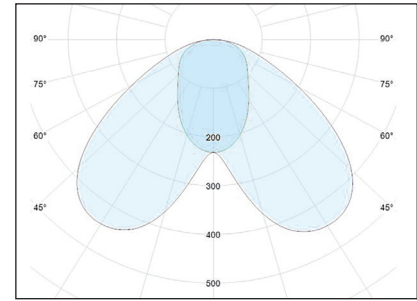
Eliminate pixilation in one axis without affecting distribution in the other axis. Create a unique look.



Product #	Beam Angle (degree)	Efficiency	Max Width	Total Thickness
DFEP-70:02	70 x 2	>94%	24" (610mm)	0.005" (.127mm)

SPLIT

Reduce on-axis light while increasing mid-angle output for “batwing” type distributions for aisle-lighting, uplighting and maximized fixture spacing.



Product #	Peak Angle (degree)	Nadir Suppression (%)	Efficiency (%)	Max Width		Total Thickness	
				in	mm	in	mm
DFBW-30:70	30	70	92	48.5 in	1232 mm	0.012 in	0.305 mm
DFBW-30:90	30	90	92	23.5 in	597 mm	0.006 in	0.152 mm
DFBW-20:95	20	95	90	48.5 in	1232 mm	0.012 in	0.305 mm

Direct Cast Options Available

WhiteOptics® microstructures cast directly to rigid PMMA, Polycarbonate or Glass sheet.

Applications: Lighting applications where the high efficiency and control of a micro-structured optic film is desired, but rigid structure is required. Ideal as lens or cover on direct/ backlit or edge lit luminaires for efficient diffusion of LEDs, glare reduction or specialty optics.

SPECIFICATIONS

Substrate	PMMA, Polycarbonate, Glass
Sheet Thickness	0.5mm to 5mm (0.019" to 0.19")
Sheet Size	Up to 610mm width and 2440mm length (24" width and 96" length)
Options	Custom cut sizes and geometries available



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