

Your Partner For

# High Performance Optics



**EFFICIENCY**

## White Reflector

BrightWhite 98™ diffuse reflectors provide excellent recirculation of light, increasing luminaire efficiency up to 30% compared to luminaires employing white paint, solder mask, or powder coat.



BrightWhite™ reflector films are easily and cleanly cut using laser, die, shear, or blade cutters. They are readily thermoformed to line the interior surfaces of luminaires. Aluminum and steel versions are compatible with shear, punch, roll, and other standard sheet metal processes.

## Diffusers

Bright View engineered diffusers are based on high-efficiency microlenses in optically clear materials, providing superb performance in angle control, efficiency, source hiding, and aesthetics. They are available in a variety of materials and form factors, including UV-tolerant film and rigid sheets.

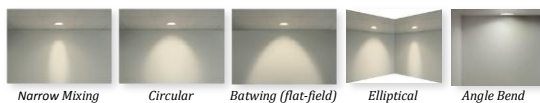


Bright View diffusers work in ideal synergy with BrightWhite reflectors, maximizing system efficiency.

**ANGLE CONTROL**

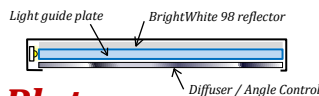
## Angle Management

Bright View provides a full range of diffusion strengths for forming and managing luminaire light distributions, including batwing, asymmetric, and elliptical light distributions.

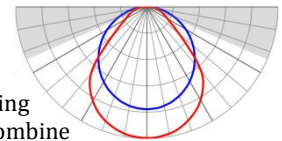


## Edge Lit Light Guide Plates

Light Guide Plates (LGPs) for edge-lit luminaires open up new possibilities for flat panel and surface-mount configurations. Bright View offers quick turnaround design services for customized LGPs with high efficiency, visual uniformity, and light angle control.

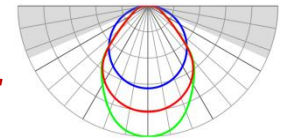


## Glare Control



Bright View patent-pending Glare Control diffusers combine suppression of high-angle light with a smooth visual cutoff. In addition, these G-Series diffusers enhance the central (on-axis) brightness in direct and edge-lit lighting.

## Gain Center Candlepower



Increase center beam candlepower (CBCP) for troffers and edge-lit panels using G-Series diffusers, increasing on-axis candela intensity by as much as 30%. Add a C-Series diffuser and the increase can be up to 60%.

For spot and flood applications, Bright View M-Series mixing diffusers provide beam smoothing and color mixing, maximizing CBCP without excess spreading to higher angles.

# Product Overview

Bright View High Performance Optics



## Products

Product Line	Description	Diffuser Strength <i>(higher numbers are more diffusive)</i>	Efficiency in typical luminaire	Comment
<b>NEW</b> Bright White™	White Reflector	Diffuse white	Up to 30% increase	Ultra high reflectivity increases luminaire efficiency by up to 30%
C-Series V-Series	General-purpose symmetric diffuser	5 - 110	90 - 98%	General purpose for smoothing, lamp hiding, and color mixing
<b>NEW</b> M-Series	Spot and Flood beam mixing	3 - 15	91 - 95%	Beam Mixing for narrow-angle lights. Provides smoothing without excess spreading.
E-Series	Elliptical diffusers	60 x 10 15 x 60	91 - 96%	Spreads light elliptically. Mixes lines of LEDs, and homogenizes fluorescent lamps. Also excellent for wall wash, cove, linear, specialty
<b>NEW</b> G-Series	Glare Control and On-axis Gain	65° cutoff, 30-60% gain	89 - 95%	New! Optional cone pattern. Suppresses light above 65 degrees to reduce glare while enhancing central (on-axis) intensity
<b>NEW</b> B-Series	Batwing	Batwing distribution	88 - 96%	Linear batwing distribution for creating uniform illumination on a flat surface
A-Series	Angle bending	20 x 60	88 - 96%	Up to 20 degrees bend with crosswise spreading for wall wash, cove, specialty
<b>NEW</b> L-Series	Edge-Lit Light Guide Plate	Smooth output	80 - 90+ %	Custom Light Guide Plates with high efficiency, high uniformity, and angle control.
P-Series	Patterned diffusers	Patterns may be combined with the optical functions above to create a unique aesthetic look while maintaining high performance		

Bright View Technologies maintains a pipeline of new product offerings and provides custom design services upon request

## Material and Thickness Options

Bright View diffusers are offered on a variety of materials and thicknesses. Unlike volumetric (hazy plastic) diffusers, Bright View diffusers maintain their high performance regardless of material or thickness.

Material	Std. Thickness		Thermal Stability	UV Resistance	Description	
	Inch	mm				
Film	PET	0.007	0.175	80°C	N/A	Excellent for indoor LED applications
	UV-PET	0.005	0.125	80°C	Excellent	UV resistant for LED or Fluorescent
Semi-rigid	Polycarbonate	0.020 0.030	0.510 0.765	80°C	N/A	Semi-rigid for downlights, panels, etc.
Rigid	PMMA (Acrylic)	0.060	1.5	60°C	Excellent	Rigid
		0.120	3.0			

Optional wet-out resistant surfaces are available upon request

## Applications Engineering

Bright View is an agile company with a commitment to rapid prototyping and fast turnaround on standard or custom parts. Application engineers are available to help select the right diffuser solution including optical performance, material choice, environmental requirements, and aesthetics. Please contact [sales@brightviewtech.com](mailto:sales@brightviewtech.com).