

Your Partner For

# High Performance Optics

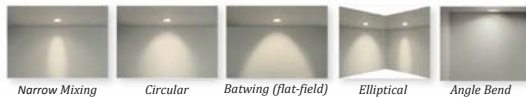


**ANGLE CONTROL**

## Angle Management

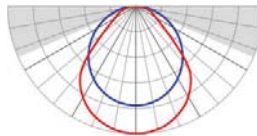
Bright View provides a full range diffusing film and sheet for managing beam angles, beam direction, luminance uniformity, and surface appearance. Includes batwing, asymmetric, elliptical, and angle-bending functions.

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.



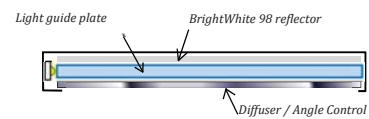
## Glare Control

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.



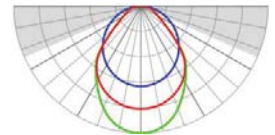
## Edge Lit Light Guide Plates

Bright View offers a full selection of optics for edge-lit luminaires, including reflectors, Light Guide Plates (LGPs), diffusers, and angle-management diffusers. Custom and stock LGPs offer high efficiency, uniformity, and control of light angles.



## 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%.



**EFFICIENCY**

## White Reflector

BrightWhite™ 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,

## 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.

# 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	1-60 degrees	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			
Thin 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 Sheet	PMMA (Acrylic)	0.060, 0.080 0.120	1.5, 2.0 3.0	60°C	Excellent	Rigid ultra-clear PMMA
	Polycarbonate	0.060, 0.080 0.120	1.5, 2.0 3.0	80°C	Good/ Excellent	Polycarbonate in standard and UV grades

Optional wet-out resistant surfaces are available upon request