

Glare Control Diffusers

G-Series Glare Control and Gain Diffusers

Glare Suppression

G-Series diffusers suppress high-angle light above 65 degrees to reduce visual glare and improve the Unified Glare Rating (UGR) of luminaires. This helps luminaires comply with IESNA RP1-04 and EN12464 glare specifications. These patented² and patent-pending diffusers, unlike conventional prismatic sheets, have a soft cutoff with no color separation thereby increasing visual appeal and LED hiding ability.

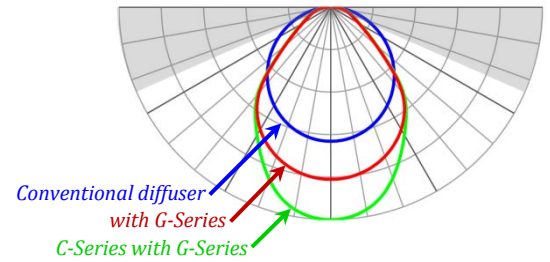
New! G-GH85 diffusers offer improved hiding of LEDs

Gain

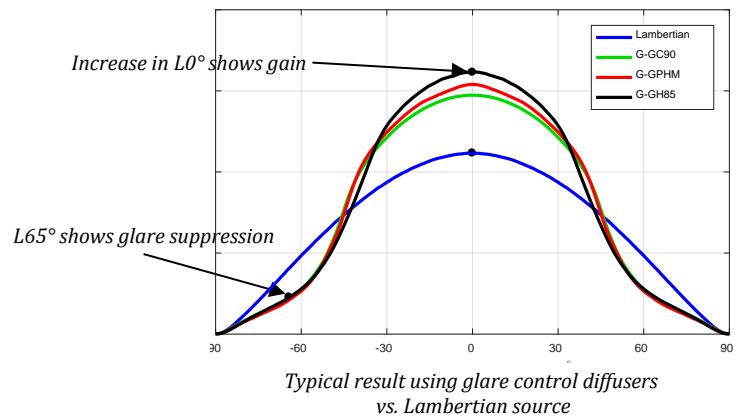
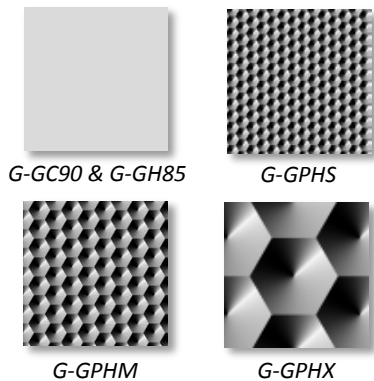
G-Series diffusers can increase central (on-axis) candela intensity by up to 30%, or as high as 60% when used with a C-HE55 or C-HE80 diffuser.

New! An optional anti-wet-out coating is available on the back surface for compatibility with edge lit lighting

LM-79 Data from 2x2 foot LED Edge-Lit Luminaire



Product	Appearance	Glare L65° / L0° (% of CBCP, typical. Lower is better) ¹	Gain L0° G-Series / L0° Lambertian (Typical, Edge-Lit Panel) ¹		Angle FWHM (Typical) ¹	Efficiency in LED luminaire (Typical) ¹
			G-Series	G-Series with C-HE80		
G-GC90	Smooth	15%	125%	150%	90°	89 – 93 %
G-GPHS	1.5 mm Hex Pattern	15%	130%	160%	90°	89 – 93 %
G-GPHM	2.4 mm Hex Pattern	13%	130%	160%	90°	89 – 93 %
G-GPHX	10 mm Hex Pattern	12%	130%	160%	90°	89 – 93 %
NEW G-GH85	Smooth with LED hiding	13%	135%	160%	85°	89 – 93 %
Lambertian Source	(provided for reference)	40%	100%	100%	120°	



Usage Notes:

- G-Series diffusers must be flat to achieve glare control; they cannot be formed in curves around lamps
- G-Series diffusers must be used with the microstructure facing away from the LED or lamp
- Helps luminaires meet ANSI/IESNA RP-1-04 and EN12464 glare standards for office/indoor lighting
- Suppression of glare and efficiencies are typical; they vary greatly depending on luminaire design
- Bright View applications engineers can assist with product choices and help your design achieve peak performance

1. Optical performance including Glare, Gain, Angles and Efficiencies are typical; they vary greatly depending on luminaire design. Results shown were measured using a test fixture with lambertian light source in a goniophotometer.
 2. Protected by patent US9086521, other patents, and pending patent(s).

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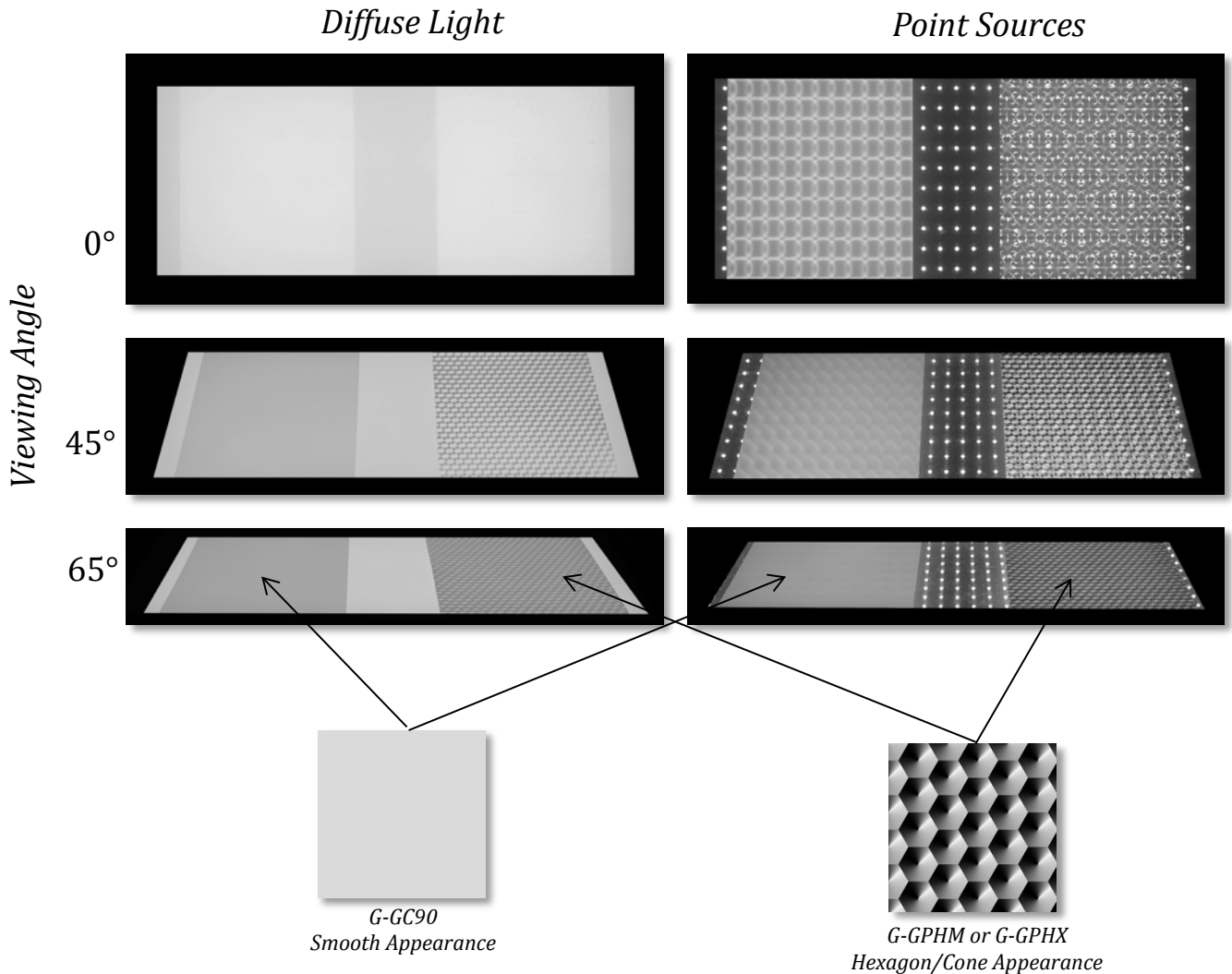
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Visual Appearance

Glare Control diffusers exhibit a variety of appearances depending on illumination conditions. They can be used in conjunction with C-Series diffusers to better hide light sources and further increase gain.



Usage:

