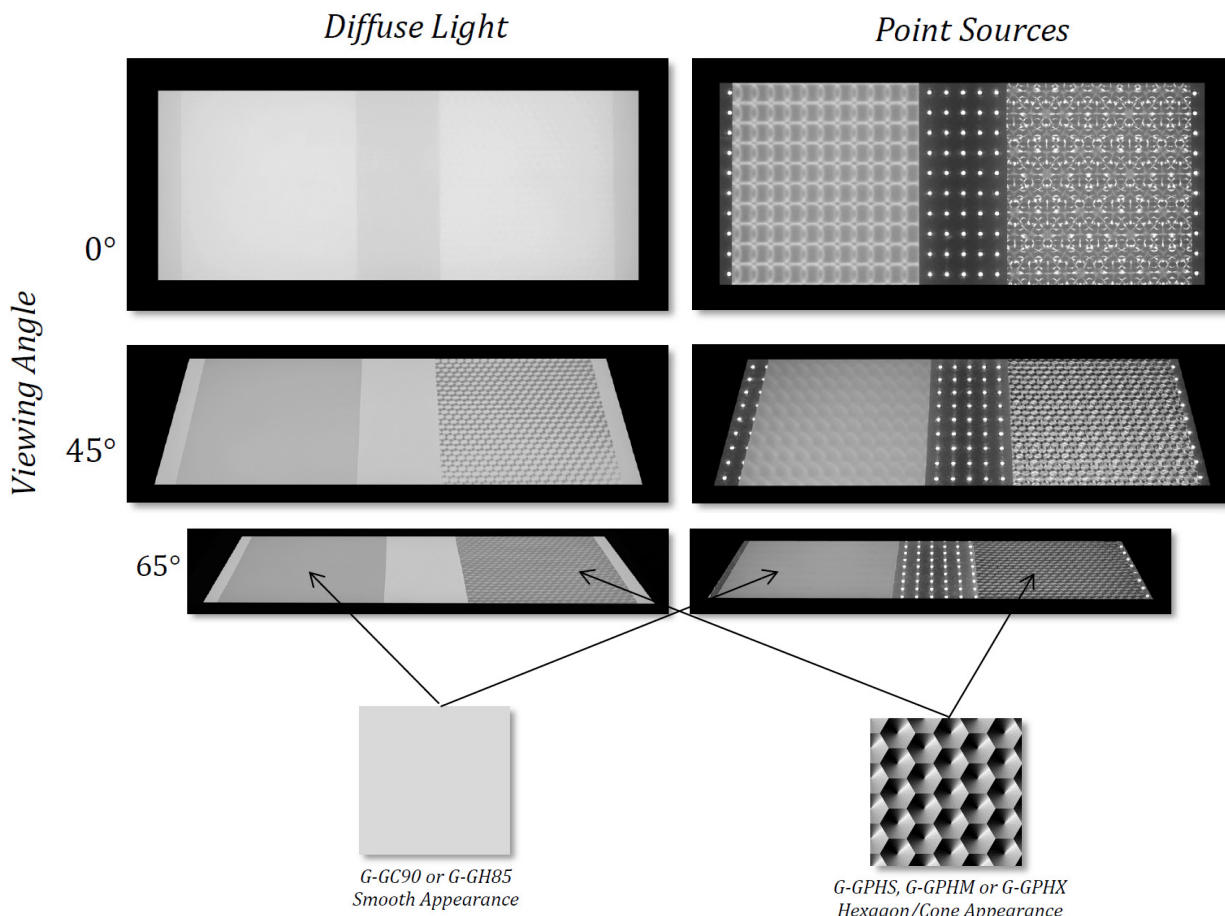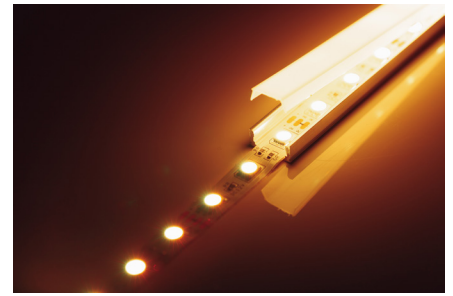# Glare Control Diffusers

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 patented and patent-pending diffusers, unlike conventional prismatic sheets, have a soft cutoff with no color separation thereby increasing visual appeal and LED hiding ability.

Gain

G-Series Diffusers can increase central (on-axis) candela intensity up to 30%, or as high as 60% when used with C-HE55 or C-HE80 diffusers.
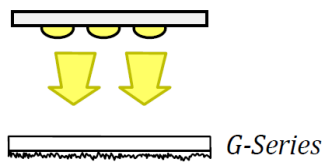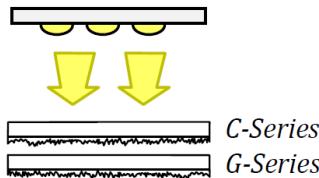
Diffuse Light   *Point Sources*

Viewing Angle

0°

45°

65°

*G-GC90 or G-GH85
Smooth Appearance*

*G-GPHS, G-GPHM or G-GPHX
Hexagon/Cone Appearance*

Products

Product	Appearance	Glare L65° / L0° (% of CBCP, typical. Lower is better)[1]	UGR 2'x2' 4000 Lumens typical	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%	17.7	125%	150%	90°	89-93%
G-GPHS	1.5mm Hex Pattern	15%	17.5	130%	160%	90°	89-93%
G-GPHM	2.4mm Hex Pattern	13%	17.3	130%	160%	90°	89-93%
G-GPHX	10mm Hex Pattern	12%	17.2	130%	160%	90°	89-93%
G-GH85	Smooth + LED Hiding	13%	17.5	135%	160%	85°	89-93%
G-GH85 + G-GPHM	2-Layer Solution	9%	16.3		180%	75°	85-91%
Lambertian	(Provided for Reference)	40%		100%	100%	120°	100%

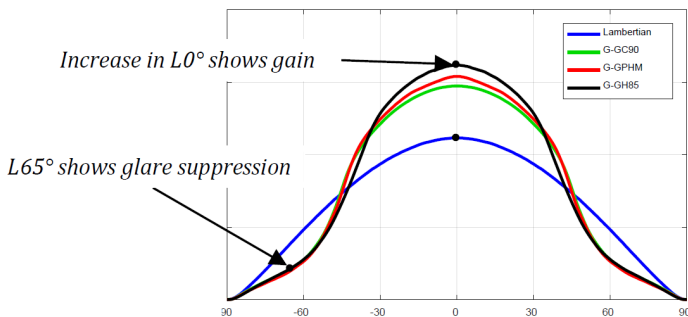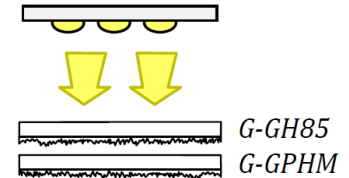[1]Angle and efficiency data are typical, varies greatly depending on luminaire design

Basic glare suppression

G-Series

Enhanced glare suppression With source hiding

C-Series
G-Series

Best glare suppression With source hiding

G-GH85
G-GPHM

Increase in L0° shows gain

L65° shows glare suppression

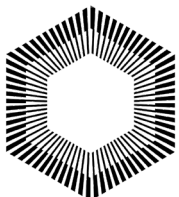Legend: Lambertian, G-GC90, G-GPHM, G-GH85

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 luminaries meet ANSI/IESNA RP-1-04 and EN12464 glare standards for office/indoor lighting.

ABOUT BRIGHTVIEW

BrightView specializes in the highest-performing visual and optical solutions for advanced technology applications. We rapidly create, collaborate, and construct the world's most intelligent visual solutions, unlocking an unmatched level of performance across a range of emerging technologies.

BrightView is an ISO 9001:2015 certified organization by Advantage International Registrar, Inc.

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