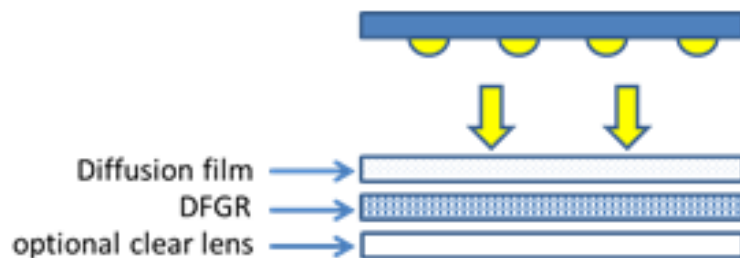


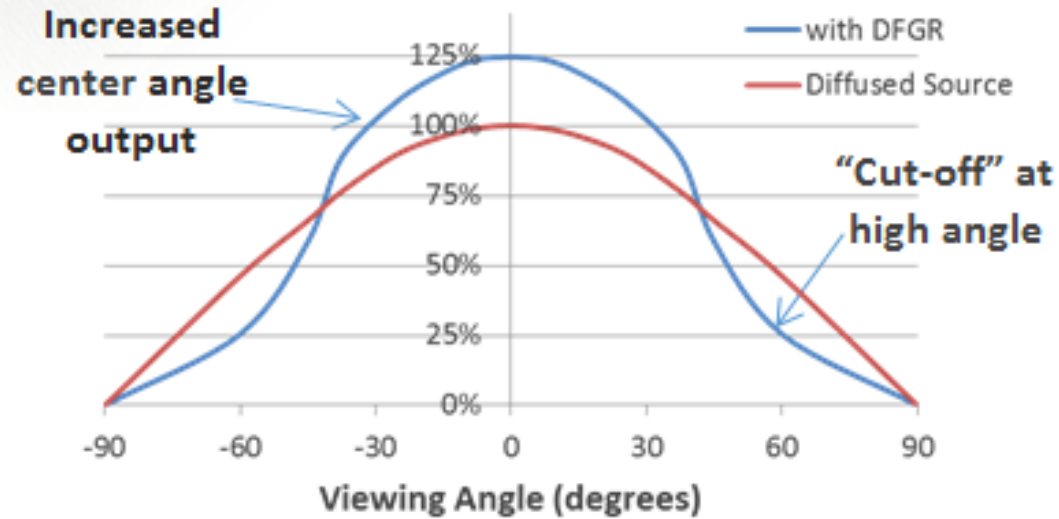
# WhiteOptics Glare Reduction Optics

- Micro-embossed, conical prismatic film providing efficient light cut-off for angles over 60 degrees while increasing on-axis intensity.
- For glare reduction in direct-lit troffers, light guide panels and downlights.
- 2 patterns available (DFGR1 and DFGR2)

*Glare Control with High Efficiency and LED Diffusion in Direct-lit Applications*



*Glare Control Film Effect on Viewing Angle for Diffused Light Source*



# Glare Reduction and Diffusion In Edgelit Troffer

## Test Fixture:

- 2x2 Edgelit panel, 3000 lumens, 4000K color Temperature

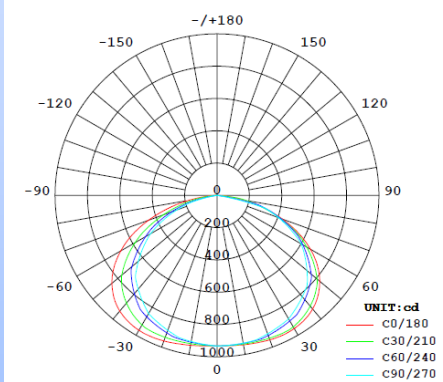
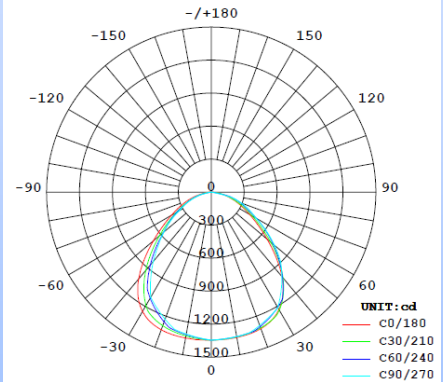
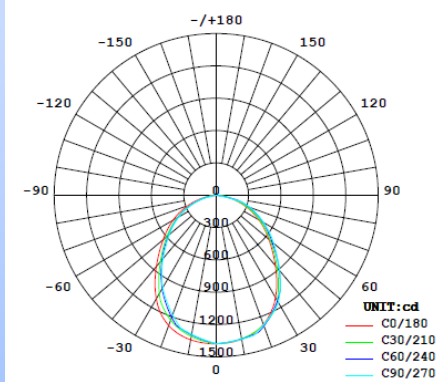


## Products Tested

- WhiteOptics® DF60 & DF90 Microstructured Diffusors
- WhiteOptics® DFGR1 & DFGR2 Glare Reduction Optics

# Glare Reduction and Diffusion In Edgelit Troffer

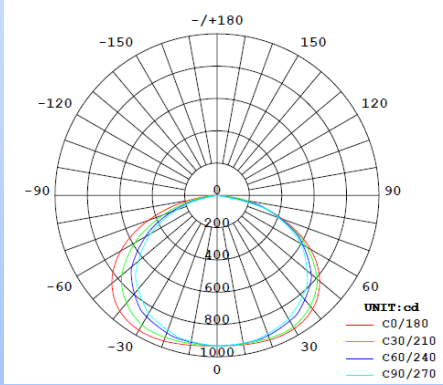
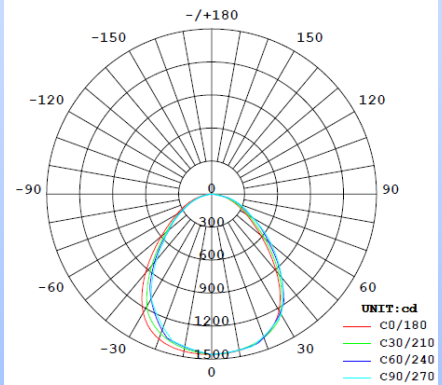
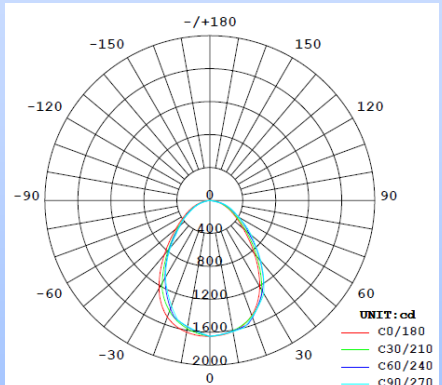
## Diffusion Sheet Testing

Configuration	Baseline - no diffuser	With DF60 Diffuser	With DF90 Diffuser
Light Output (lumens)	3341	3326	3245
Beam Angle	121.8	97.6	93.7
Optical Efficiency	100%	99.6%	97.1%
			

*Efficient Diffusion of Light Guide Pattern*

# Glare Reduction and Diffusion In Edgelit Troffer

## Diffusion Sheet Combined with Glare Control

Configuration	Baseline - no diffuser	With DFGR1 and DF60 Diffuser	With DFGR2 and DF60 Diffuser
Light Output (lumens)	3341	3218	3166
Beam Angle	121.8	90.8	81.4
Optical Efficiency	100%	96.3%	94.8%
			

***Efficient Combination of Diffusion and Glare Control***