



Technical Data Sheet

Gradient Mirror Coatings

GRM / Radial Gradient Reflection Mirror

GA (Gaussian), SG (Super Gaussian), BE (Bessel), PR (Parabel)

Short Description

The Radial Gradient Reflection Mirror Coating is a mirror with a varying reflectance as a function of the radius. This mirror enables an optimal adaption of the beam profile to the application. A small and precise focus as well as a specified intensity profile are easily achievable. The wide range of the shapes of reflectance provide an additional degree of freedom in optical system design. Typical beam shapes are Gaussian (GA), Super Gaussian (SG), Bessel (BE) and Parabel (PR) but also customized designs are available.

The Gradient Mirror Coatings are fabricated with NANEO's proprietary precision coating technology on IBS (Ion Beam Sputtering) coating machines. NANEO achieves unique layer thickness precision. IBS provides the most dense, low loss, stable and durable optical coatings among the optical coating technologies.

Design Specifications

Wavelength:	Range from 400 up to 1500nm
Reflection:	R > 98% (radius = 0) or specify
Beam Shape:	Gaussian, Super Gaussian, Bessel, Parabel, customized
Angle of incidence:	certain angle 0 - 10°
Substrates:	customized substrates

Example Design

Type:	GRM-1064-SG
Reflection:	R > 98% @ 1064nm (radius = 0)
Beam shape	Super Gaussian
AOI:	0 - 10°
customized design	

