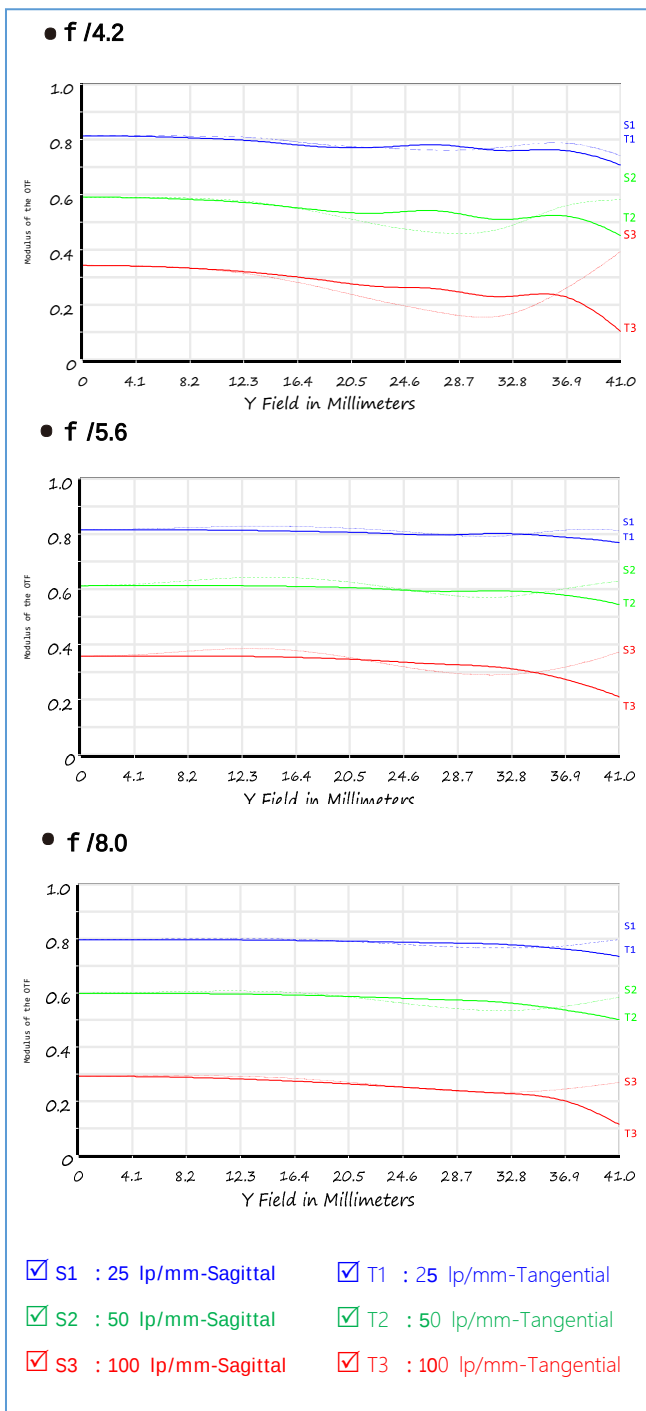


Grampus Series Line Scan Lenses

#OPT-VGP116/4.2-0.33X $\beta' = 0.29X \sim 0.38X$ F4.2 IMA= 82 mm EFFL= 116 mm

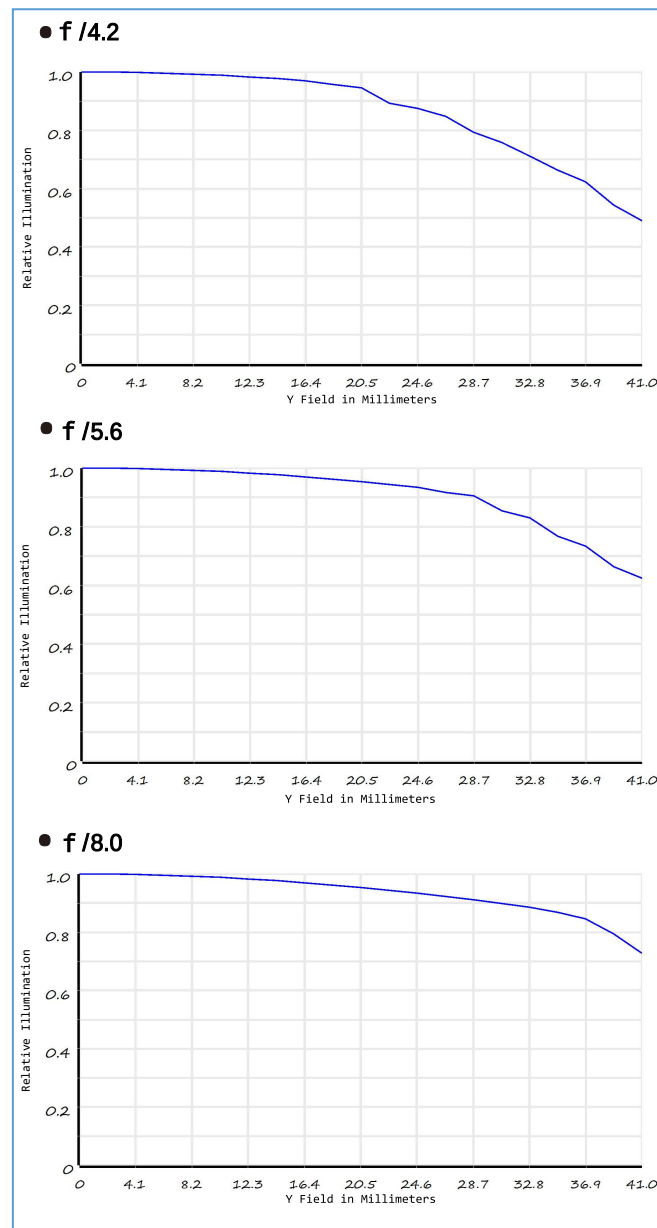
● Modulation Transfer Function(MTF)

$\beta' = 0.29X$, W.D.= 462.5 mm

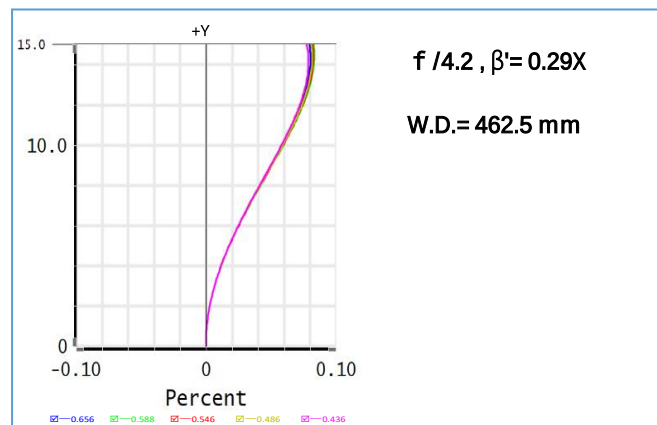


● Vignetting

$\beta' = 0.29X$, W.D.= 462.5 mm



● Distortion



● Entrance Pupil Position (入瞳位置) : -108.38 mm

● Exit Pupil Position (出瞳位置) : -136.56 mm

● 1st Principal Point (第一主点) : -99.65 mm

● 2nd Principal Point (第二主点) : -149.62 mm

(*:Measured with respect to Image Plane, W.D.=462.5 mm)

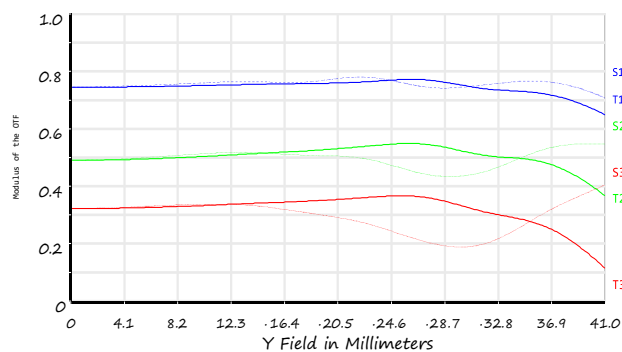
Grampus Series Line Scan Lenses

#OPT-VGP116/4.2-0.33X $\beta' = 0.29X \sim 0.38X$ F4.2 IMA= 82 mm EFFL= 116 mm

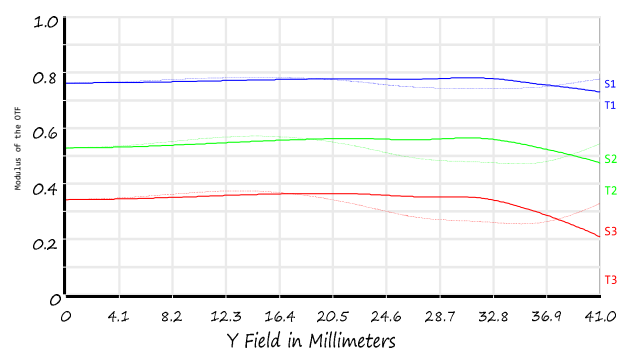
● Modulation Transfer Function(MTF)

$\beta' = 0.33X$, W.D.=414.5 mm

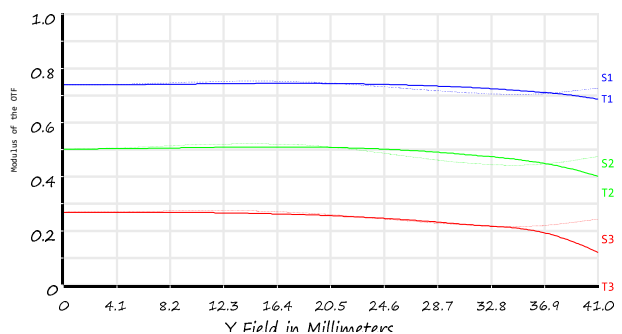
● f /4.2



● f /5.6



● f /8.0

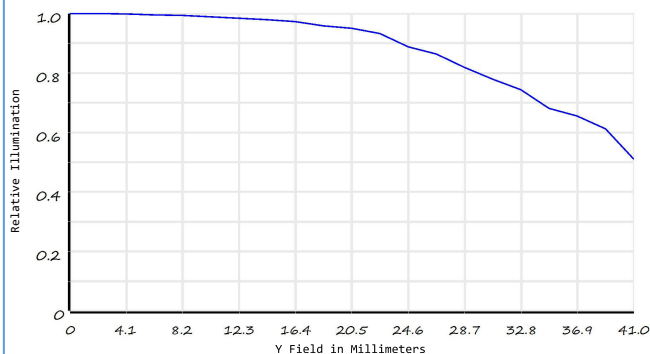


- ☒ S1 : 25 lp/mm-Sagittal
- ☒ T1 : 25 lp/mm-Tangential
- ☒ S2 : 50 lp/mm-Sagittal
- ☒ T2 : 50 lp/mm-Tangential
- ☒ S3 : 100 lp/mm-Sagittal
- ☒ T3 : 100 lp/mm-Tangential

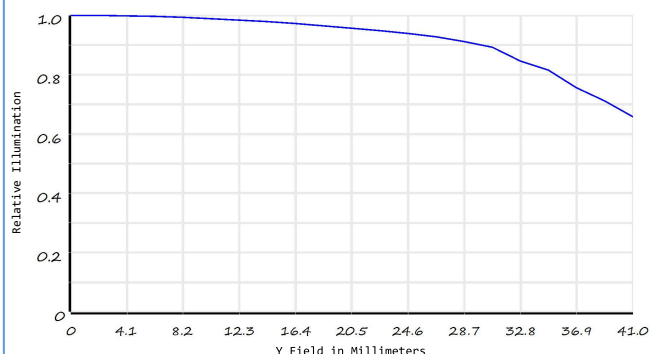
● Vignetting

$\beta' = 0.33X$, W.D.= 414.5mm

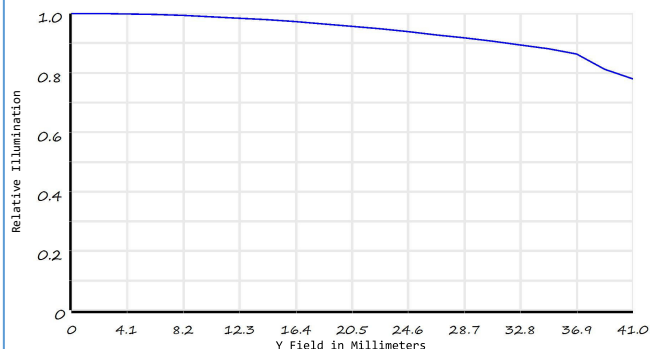
● f /4.2



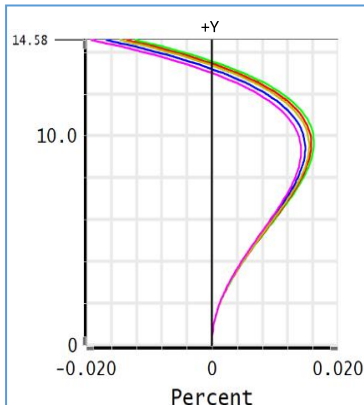
● f /5.6



● f /8.0



● Distortion



f /4.2 , $\beta' = 0.33X$

W.D.= 414.5 mm

● Entrance Pupil Position (入瞳位置) : -112.91 mm

● Exit Pupil Position (出瞳位置) : -141.09 mm

● 1st Principal Point (第一主点) : -104.18 mm

● 2nd Principal Point (第二主点) : -154.15 mm

(*:Measured with respect to Image Plane, W.D.= 414.5mm)

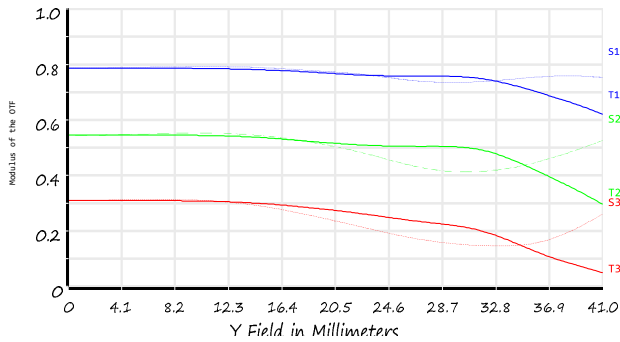
Grampus Series Line Scan Lenses

#OPT-VGP116/4.2-0.33X $\beta' = 0.29X \sim 0.38X$ F4.2 IMA= 82 mm EFFL= 116 mm

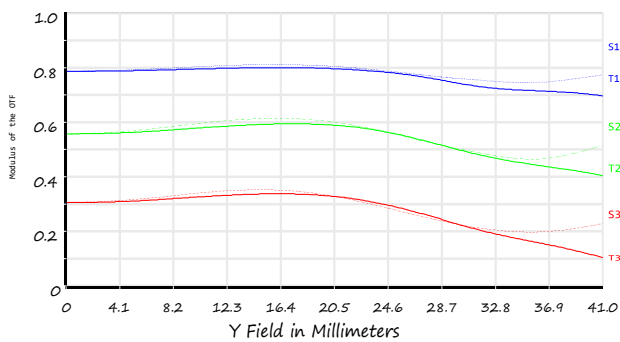
● Modulation Transfer Function(MTF)

$\beta' = 0.38X$, W.D.= 367.5 mm

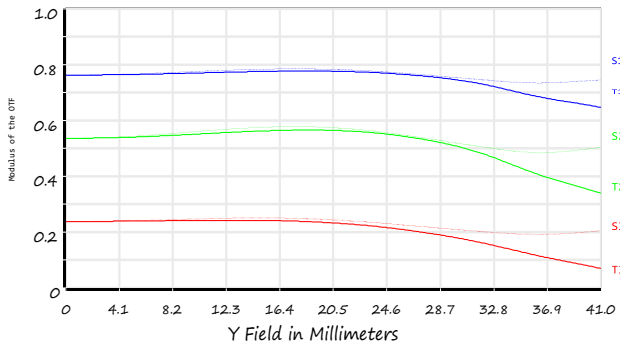
● f /4.2



● f /5.6



● f /8.0



☒ S1 : 25 lp/mm-Sagittal

☒ T1 : 25 lp/mm-Tangential

☒ S2 : 50 lp/mm-Sagittal

☒ T2 : 50 lp/mm-Tangential

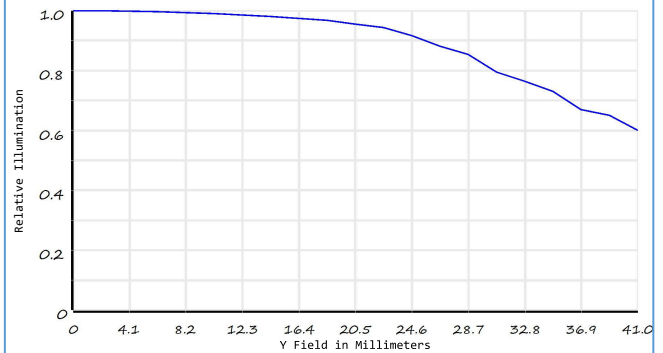
☒ S3 : 100 lp/mm-Sagittal

☒ T3 : 100 lp/mm-Tangential

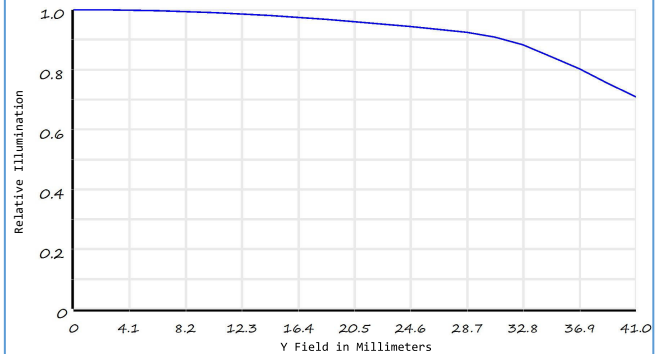
● Vignetting

$\beta' = 0.38X$, W.D.= 367.5 mm

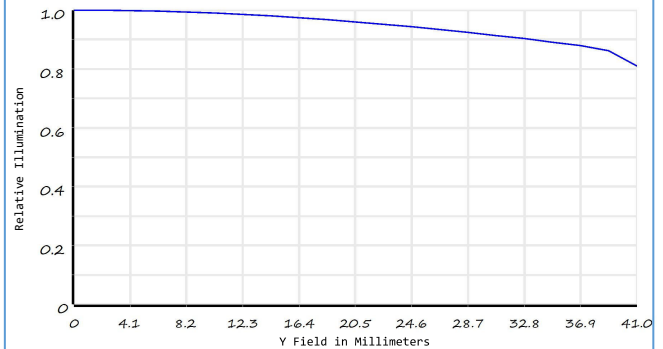
● f /4.2



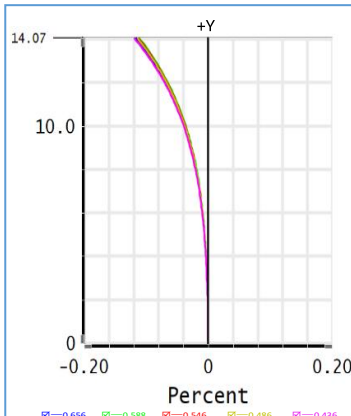
● f /5.6



● f /8.0



● Distortion



f /4.2 , $\beta' = 0.38X$

W.D.= 367.5 mm

● Entrance Pupil Position (入瞳位置) : 118.82 mm

● Exit Pupil Position (出瞳位置) : -147.00 mm

● 1st Principal Point (第一主点) : -110.09 mm

● 2nd Principal Point (第二主点) : -160.06 mm

(*:Measured with respect to Image Plane, W.D.= 367.5 mm)