

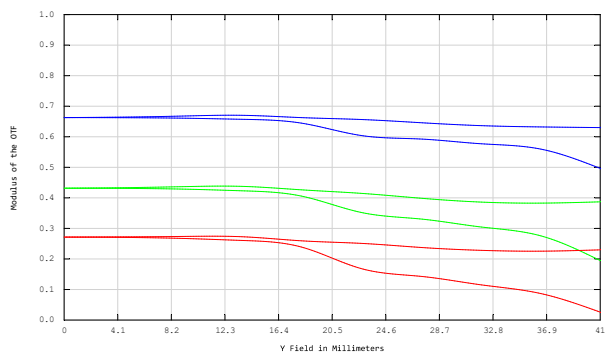
Grampus Series Line Scan Lenses

#OPT-VGP116/4.8-1X $\beta' = 0.875X \sim 1.125X$ F4.8 IMA= 82 mm EFFL= 116 mm

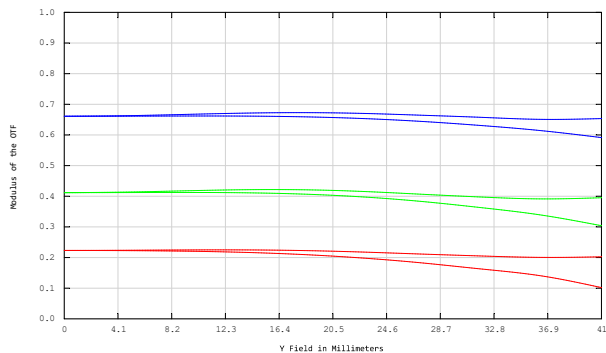
● Modulation Transfer Function(MTF)

$\beta' = 1.125X$, W.D.= 176.5 mm

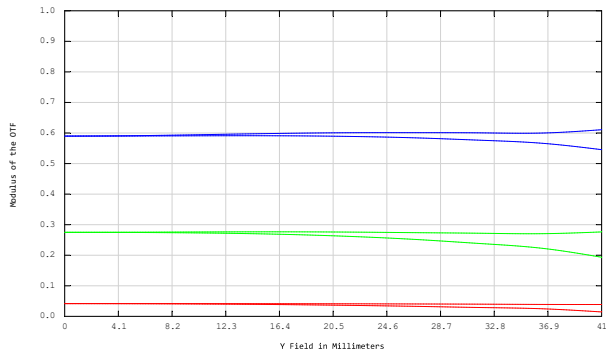
● f/4.8



● f/5.6



● f/8.0

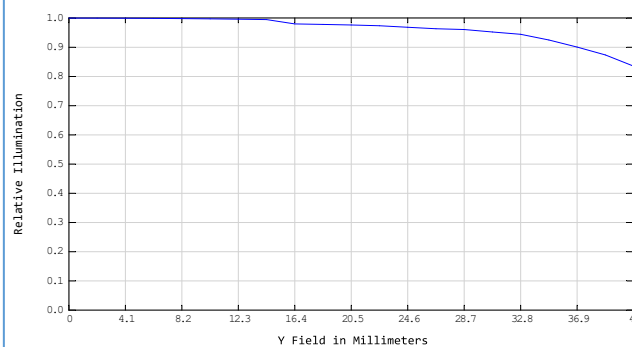


- | | |
|---|---|
| ☒ S1 : 33 lp/mm-Sagittal | ☒ T1 : 33 lp/mm-Tangential |
| ☒ S2 : 66 lp/mm-Sagittal | ☒ T2 : 66 lp/mm-Tangential |
| ☒ S3 : 100 lp/mm-Sagittal | ☒ T3 : 100 lp/mm-Tangential |

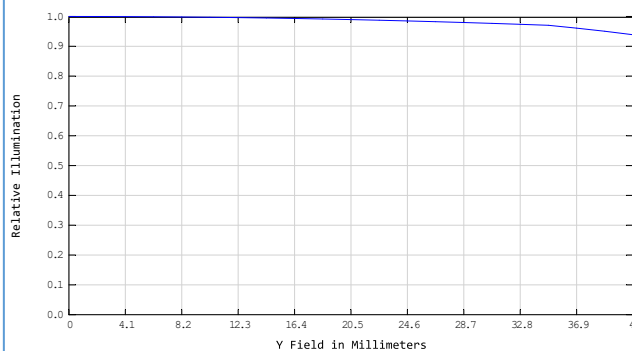
● Vignetting

$\beta' = 1.125X$, W.D.= 176.5 mm

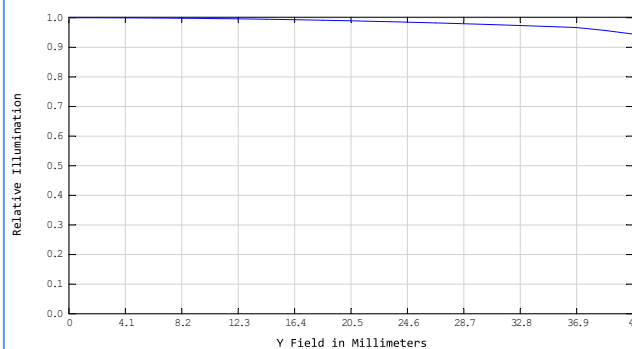
● f/4.8



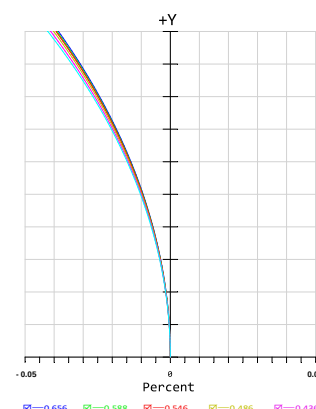
● f/5.6



● f/8.0



● Distortion



f/8.0, $\beta' = 1.125X$

W.D.=176.5 mm

● Entrance Pupil Position (入瞳位置) : -242.83 mm

● Exit Pupil Position (出瞳位置) : -245.60 mm

● 1st Principal Point (第一主点) : -209.56 mm

● 2nd Principal Point (第二主点) : -245.60 mm

(*:Measured with respect to Image Plane, W.D.= 176.5 mm)

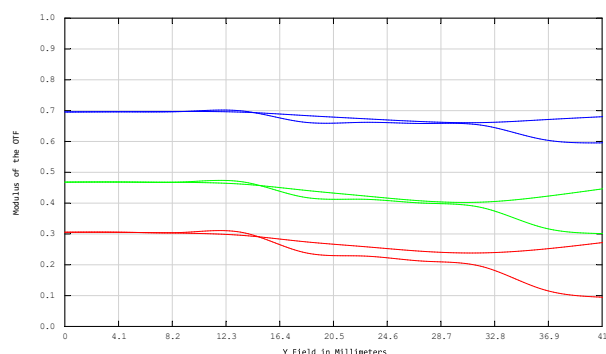
Grampus Series Line Scan Lenses

#OPT-VGP116/4.8-1X $\beta' = 0.875X \sim 1.125X$ F4.8 IMA= 82 mm EFFL= 116 mm

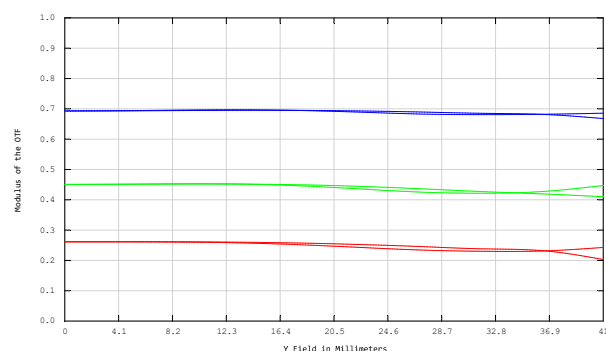
● Modulation Transfer Function(MTF)

$\beta' = 1.00X$, W.D.= 189.4 mm

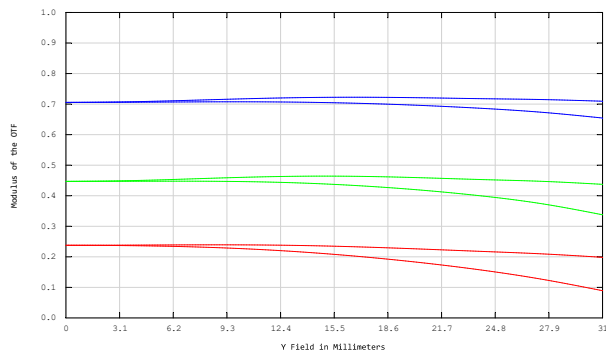
● f /4.8



● f /5.6



● f /8.0

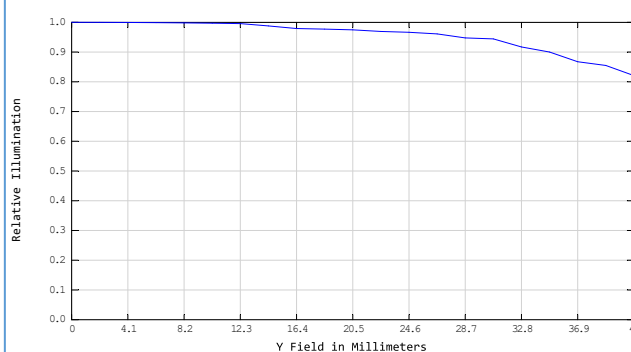


- | | |
|---|---|
| ☒ S1 : 33 lp/mm-Sagittal | ☒ T1 : 33 lp/mm-Tangential |
| ☒ S2 : 66 lp/mm-Sagittal | ☒ T2 : 66 lp/mm-Tangential |
| ☒ S3 : 100 lp/mm-Sagittal | ☒ T3 : 100 lp/mm-Tangential |

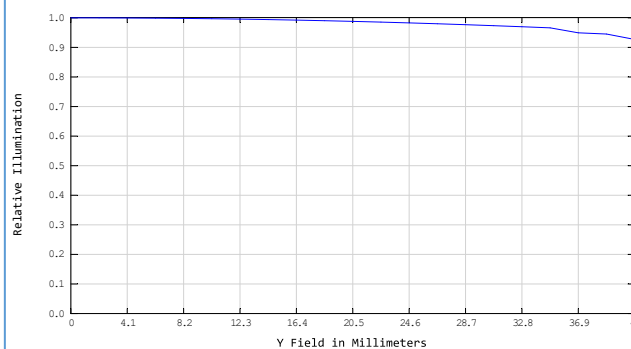
● Vignetting

$\beta' = 1.00X$, W.D.= 189.4 mm

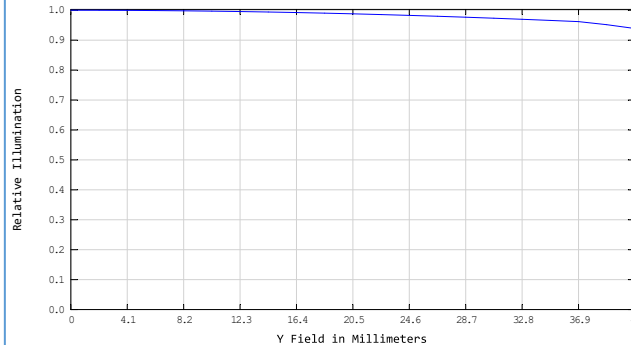
● f /4.8



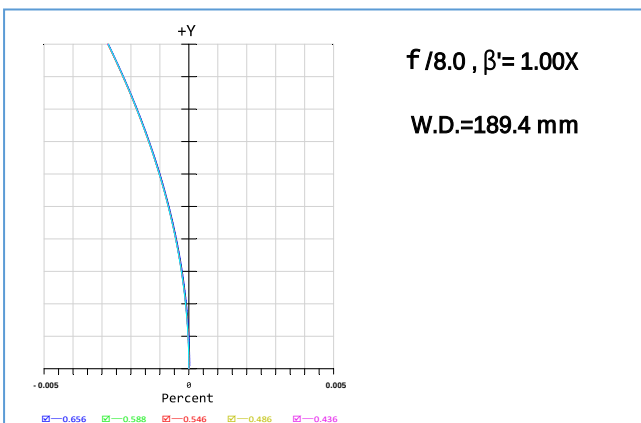
f /5.6



● f /8.0



● Distortion



- Entrance Pupil Position (入瞳位置) : -228.35 mm
 - Exit Pupil Position (出瞳位置) : -231.93 mm
 - 1st Principal Point (第一主点) : -195.07 mm
 - 2nd Principal Point (第二主点) : -231.93 mm
- (*:Measured with respect to Image Plane, W.D.= 189.4 mm)

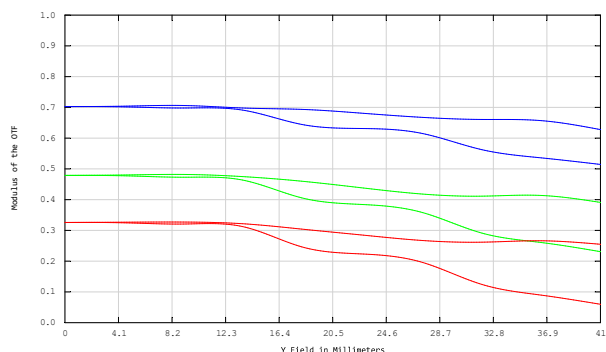
Grampus Series Line Scan Lenses

#OPT-VGP116/4.8-1X $\beta' = 0.875X \sim 1.125X$ F4.8 IMA= 82 mm EFFL= 116 mm

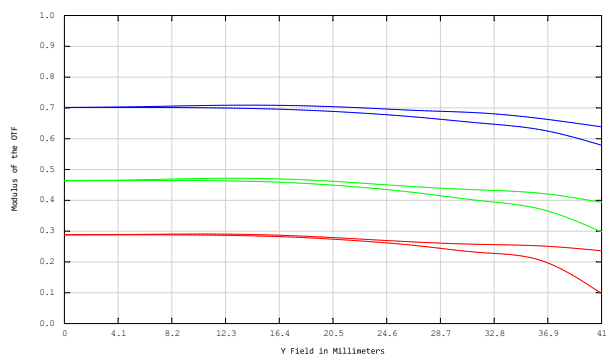
● Modulation Transfer Function(MTF)

$\beta' = 0.875X$, W.D.=206 mm

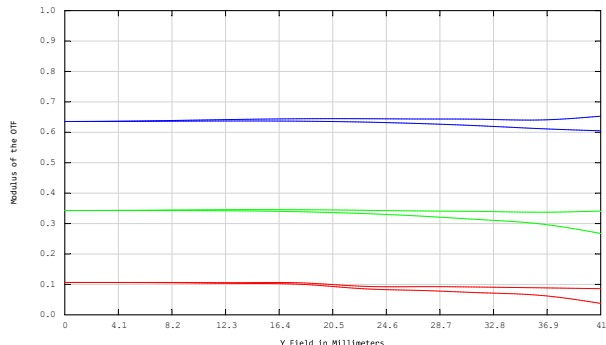
● f /4.8



● f /5.6



● f /8.0



☒ S1 : 33 lp/mm-Sagittal

☒ T1 : 33 lp/mm-Tangential

☒ S2 : 66 lp/mm-Sagittal

☒ T2 : 66 lp/mm-Tangential

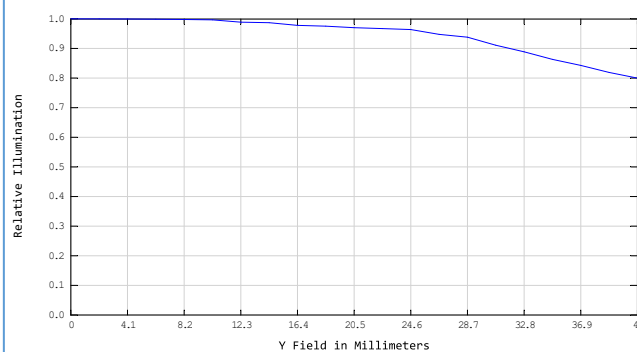
☒ S3 : 100 lp/mm-Sagittal

☒ T3 : 100 lp/mm-Tangential

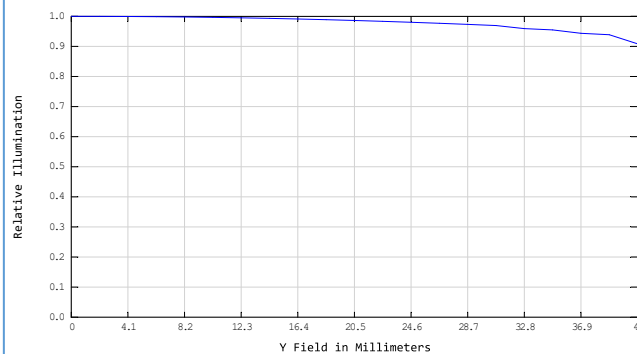
● Vignetting

$\beta' = 0.875X$, W.D.=206 mm

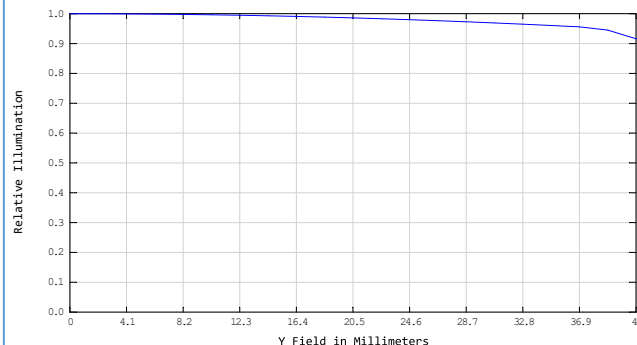
● f /4.8



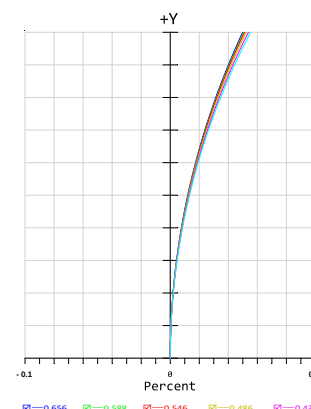
● f /5.6



● f /8.0



● Distortion



f /8.0 , $\beta' = 0.875X$

W.D.=206 mm

● Entrance Pupil Position (入瞳位置) : -213.85 mm

● Exit Pupil Position (出瞳位置) : -217.43 mm

● 1st Principal Point (第一主点) : -180.58 mm

● 2nd Principal Point (第二主点) : -217.43 mm

(*:Measured with respect to Image Plane, W.D.= 206 mm)