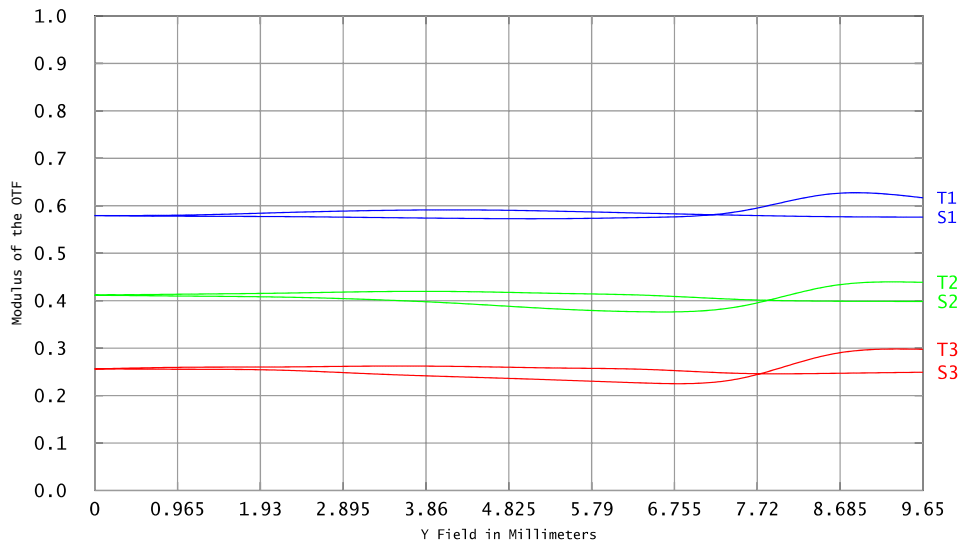


Crocodile Series Macro Lenses

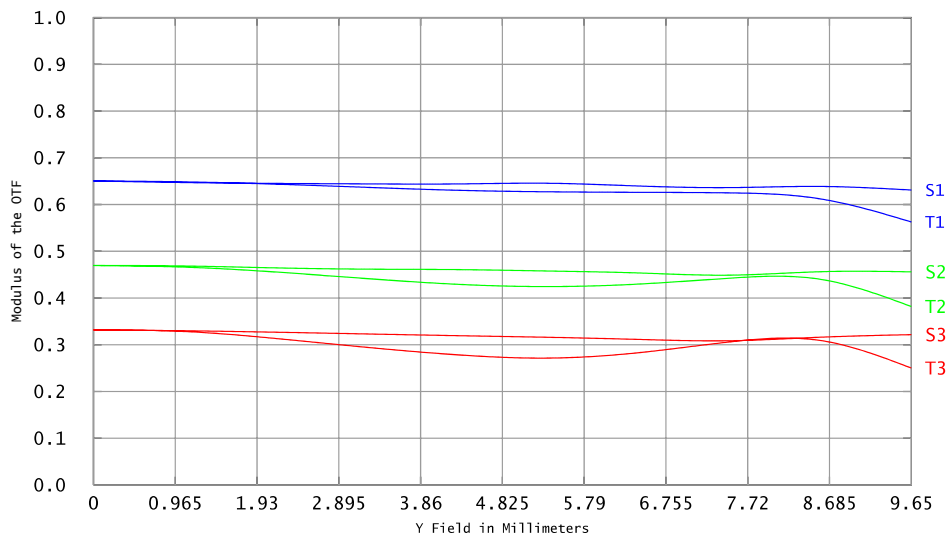
#OPT-CCD5028 E.F.L=50mm F2.8

● Modulation Transfer Function(MTF)



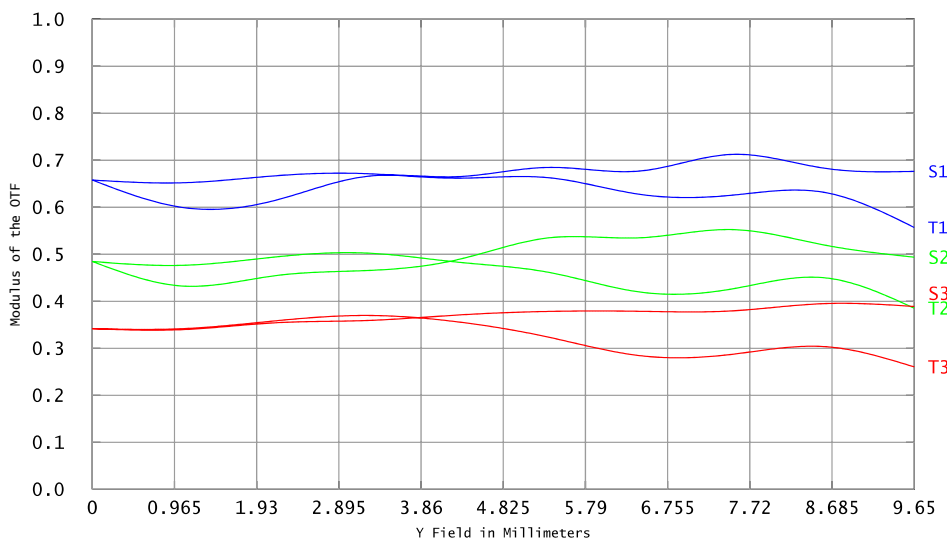
W.D. = 98 mm Mag. = 0.9X

- ☒ S1 — Sagittal : 60lp/mm
- ☒ T1 — Tangential: 60lp/mm
- ☒ S2 — Sagittal : 100lp/mm
- ☒ T2 — Tangential: 100lp/mm
- ☒ S3 — Sagittal : 145lp/mm
- ☒ T3 — Tangential: 145lp/mm



W.D. = 110 mm Mag. = 0.69X

- ☒ S1 — Sagittal : 60lp/mm
- ☒ T1 — Tangential: 60lp/mm
- ☒ S2 — Sagittal : 100lp/mm
- ☒ T2 — Tangential: 100lp/mm
- ☒ S3 — Sagittal : 145lp/mm
- ☒ T3 — Tangential: 145lp/mm



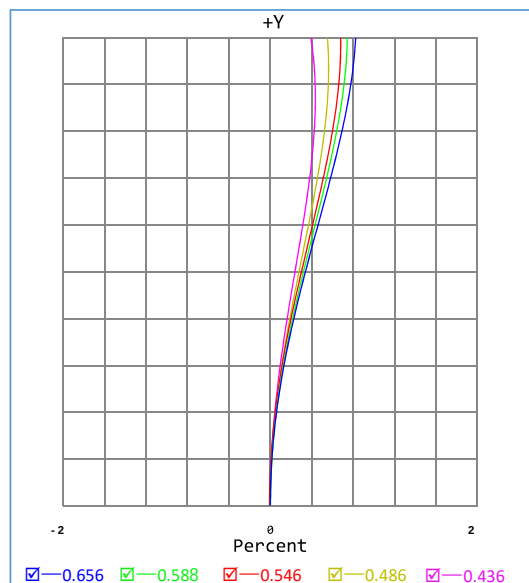
W.D. = 129 mm Mag. = 0.5X

- ☒ S1 — Sagittal : 60lp/mm
- ☒ T1 — Tangential: 60lp/mm
- ☒ S2 — Sagittal : 100lp/mm
- ☒ T2 — Tangential: 100lp/mm
- ☒ S3 — Sagittal : 145lp/mm
- ☒ T3 — Tangential: 145lp/mm

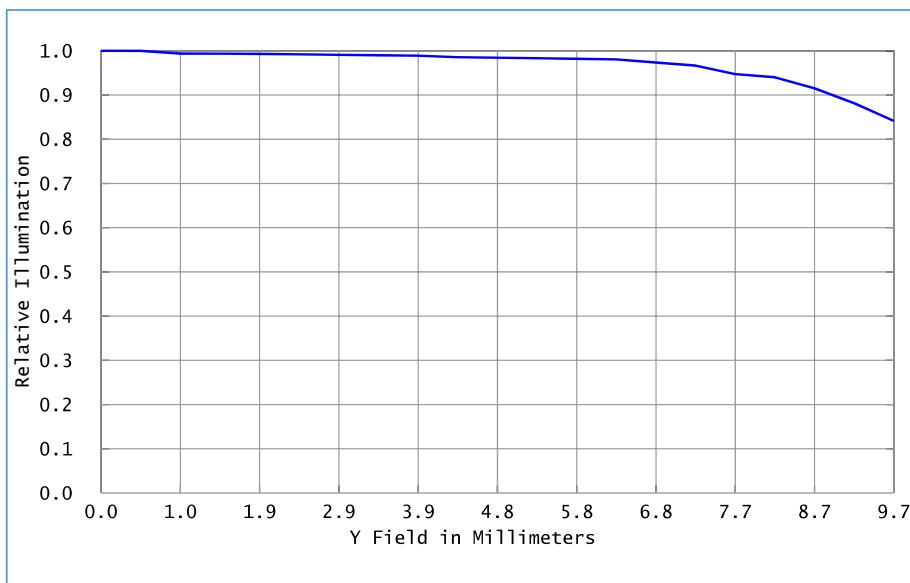
Crocodile Series Macro Lenses

#OPT-CCD5028 E.F.L.=50mm F2.8

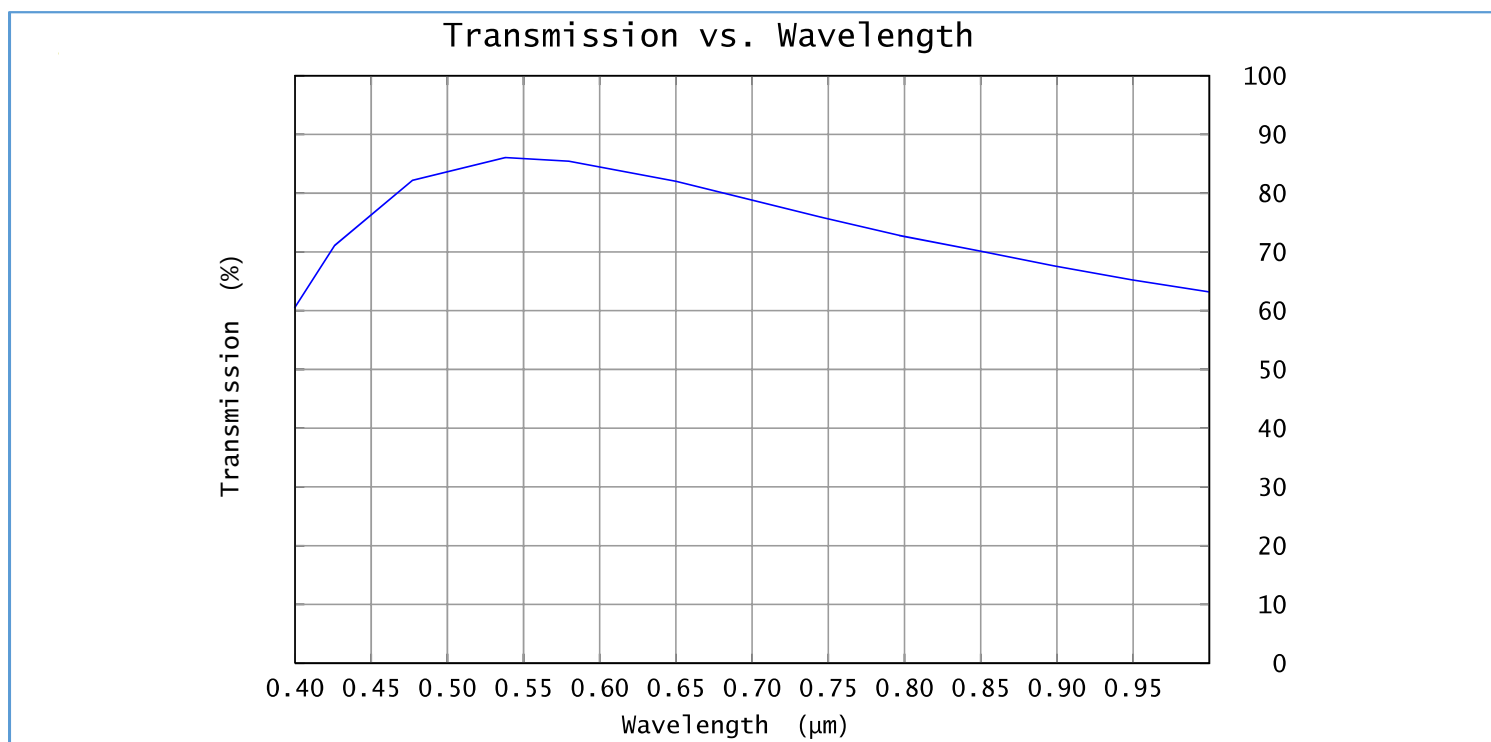
● Distortion(W.D.= 132mm f/2.8)



● Vignetting(W.D.= 132mm f/2.8)



● Spectral Transmittance



· Entrance Pupil Position (入瞳位置) : -30.14 mm

· Exit Pupil Position (出瞳位置) : -47.63 mm

· 1st Principal Point (第一主点) : -59.81 mm

· 2nd Principal Point (第二主点) : -65.39 mm

(*:Measured with respect to Image Plane, W.D.= 132)