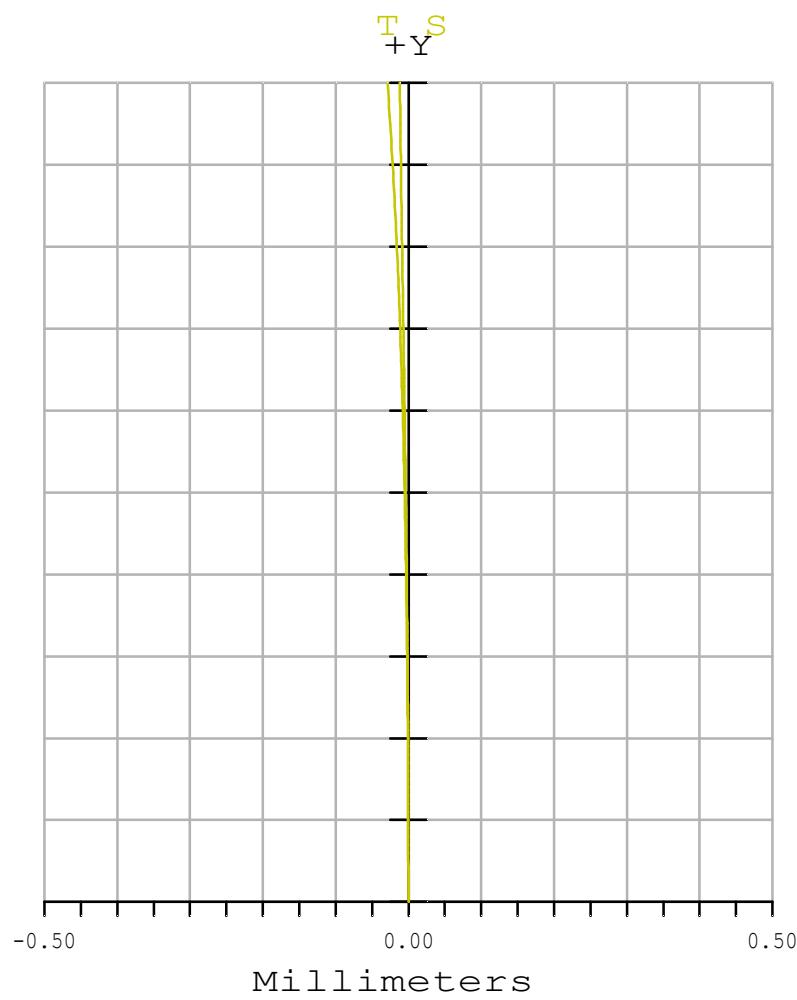


4/3" 2.0x TELECENTRIC	
MAGNIFICATION	2.0x
OBJECT N.A.	0.2
ELEMENT	10群 16枚
IMAGE SIZE	13.8×18.4mm
SHOOTING RANGE	VERTICAL HORIZONTAL DIAMETER
	9.2mm 6.9mm 11.5mm
DISTORTION (TV)	0.1%
WORKING DISTANCE	80.6mm
FLANGE BACK	17.526mm in air
BACK FOCUS	15.0mm in air
FRONT/REAR EFFECTIVE DIA.	前 $\phi$ 45.7mm 後 $\phi$ 16.6mm
MOUNT	C-MOUNT
EXIT PUPIL	-18.5mm
TEMPERATURE RANGE	-10~+50°C
STORAGE TEMPERATURE RANGE	-20~+60°C
WEIGHT	830g

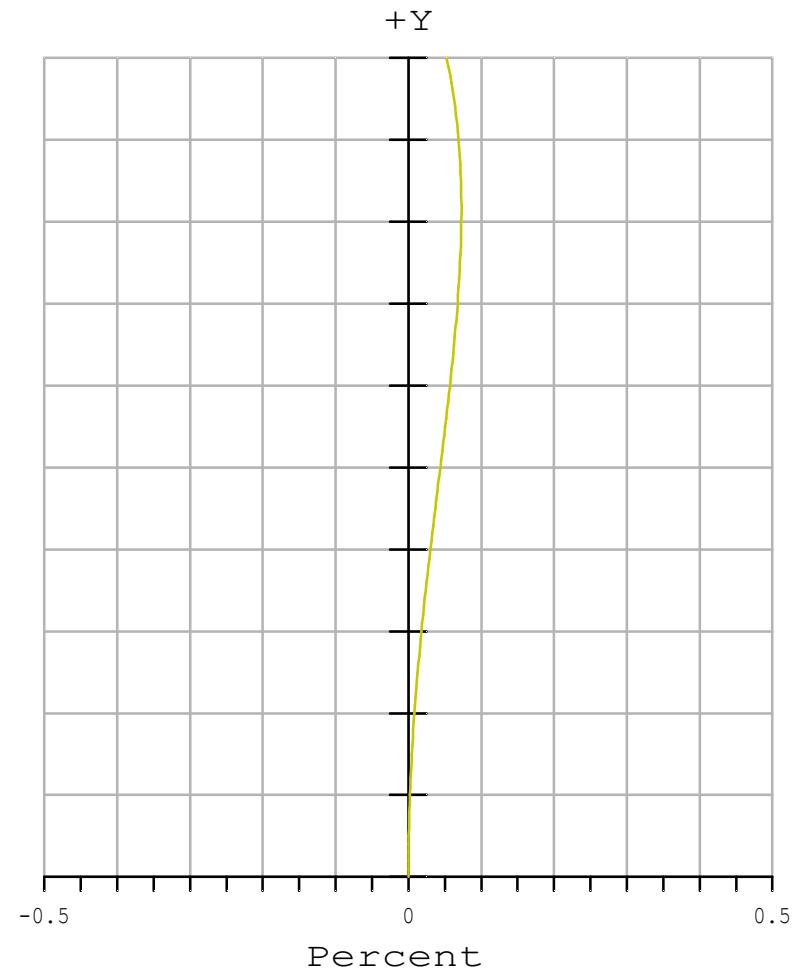
**Kowa**

		尺度	1/2	承認	製図
		機種名	2.0x TELECENTRIC LENS		
		機種番	LM1138TC		
2015.05.12	作成年月日				

Field Curvature



Distortion



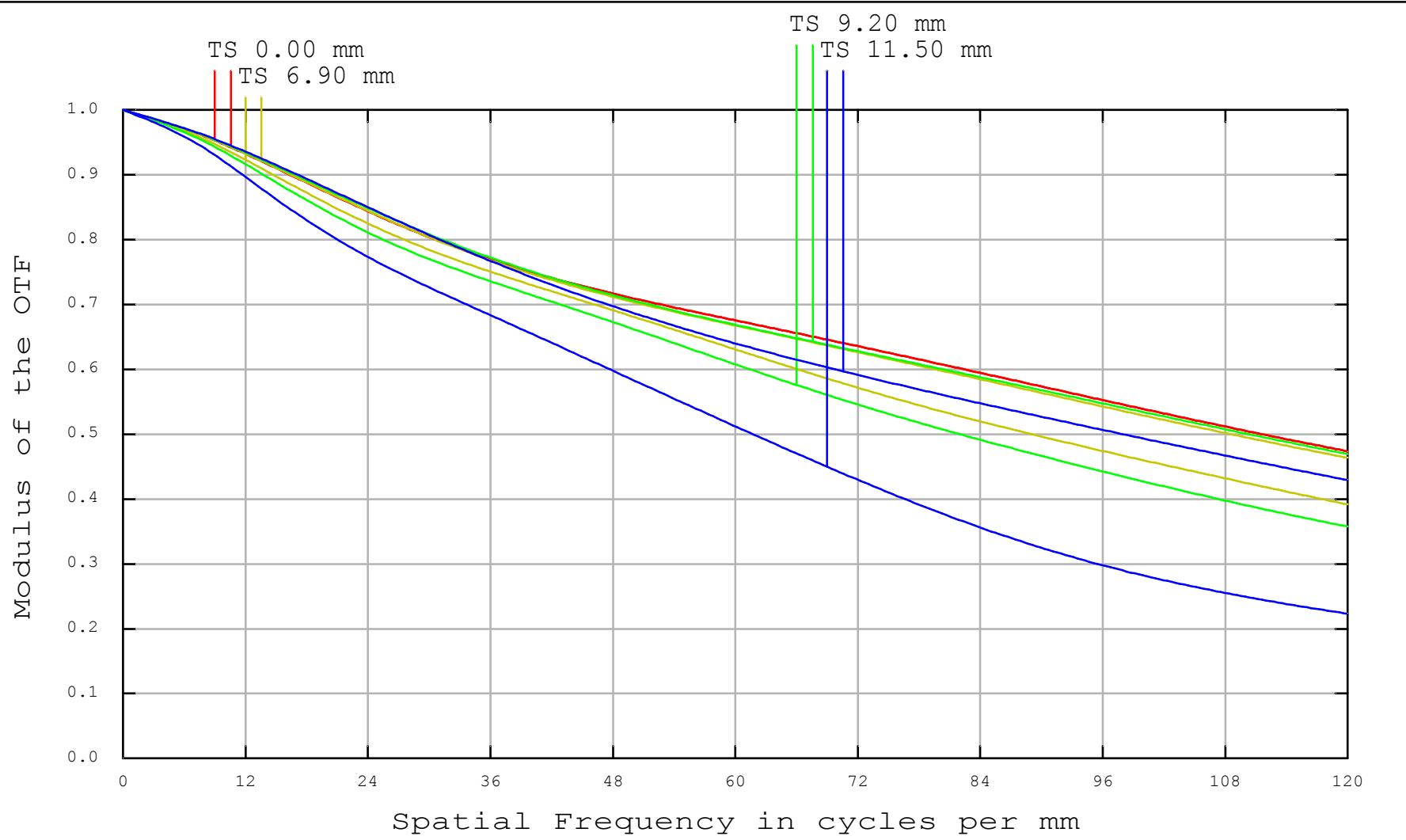
Field units changed to field angle

Field Curvature / F-Tan(Theta) Distortion

TL1138 (4X)

Maximum Field is 0.031 Degrees.  
Wavelengths: 0.588



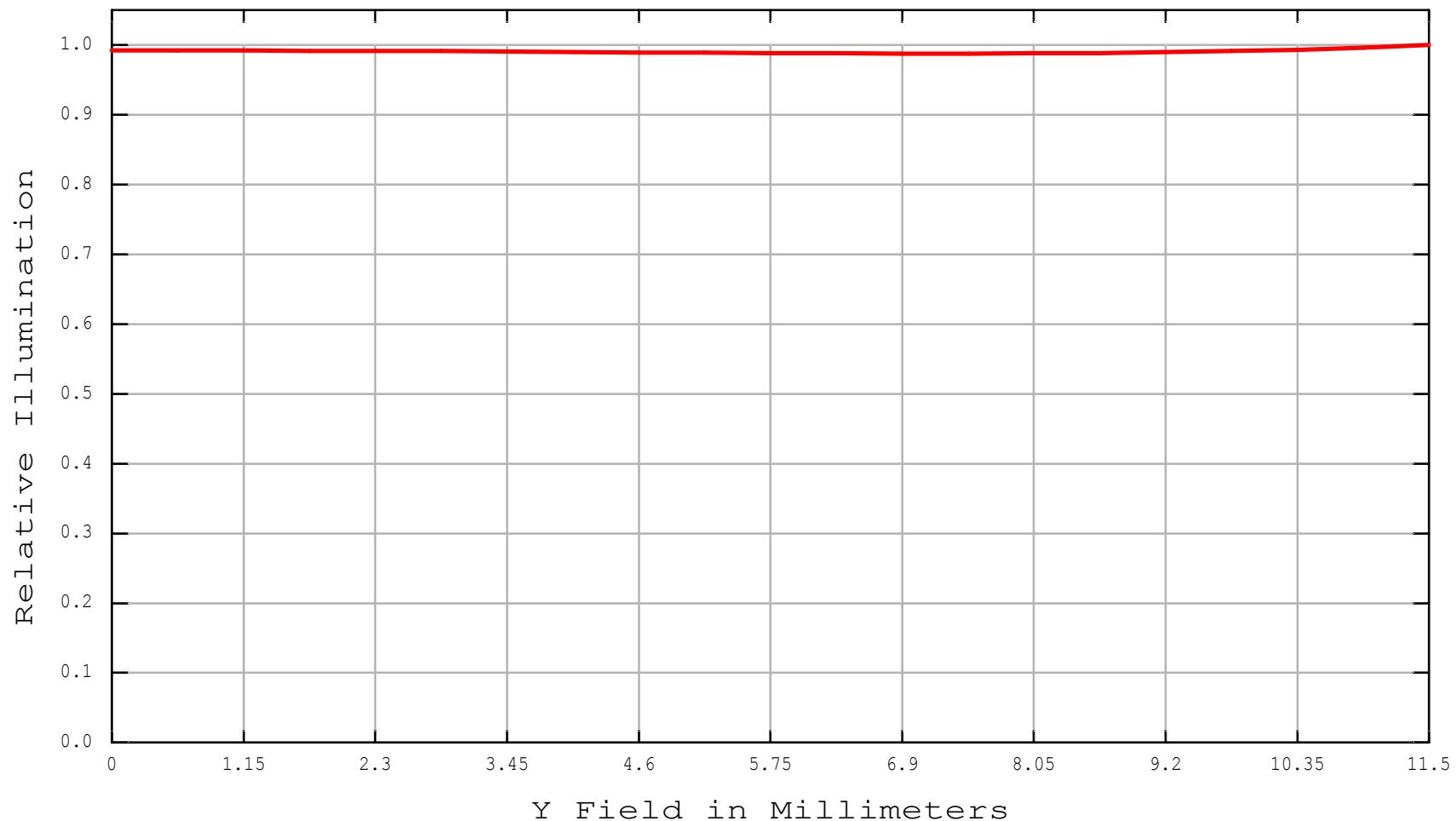


#### Polychromatic Diffraction MTF

TL1138 (4X)

Data for 0.4358 to 0.6563  $\mu\text{m}$ .  
Surface: Image





Relative Illumination

TL1138 (4X)

Wavelength: 0.587560  $\mu\text{m}$

