



MEASUREMENT METHOD OF OPTICAL CHARACTERISTICS

Optical Equipment for
Measurement of optical characteristics and brightness

Light source

- L : Backlight
- P.M : Optical sensor
- M : LCD module
- Top=25°C
- All display data "1"
- Vop=At optimum contrast ratio

Measuring equipment : BM-7 (TOPCON)

<NOTE 2>

Definition of Contrast Ratio

Brightness curve of selected area

Vop Driving Voltage

$$\text{Contrast ratio} = \frac{\text{Brightness of selected area ("a")}}{\text{Brightness of non-selected area ("b")}}$$

- Top=25°C
- Vop=At optimum ratio
- $\theta X = \theta Y = 0^\circ$

< NOTE 3 >

Contrast ratio

Viewing angle $\theta = \theta_2 - \theta_1$

< NOTE 1 >

Definition of Response Time

Top=25°C
Vop=At optimum contrast ratio
 $\theta X = \theta Y = 0^\circ$

< NOTE 4 >

Definition of Viewing Cone