## **4** Sellection of projector

The criteria for selecting a projector are ①Throw distance ②Brightness ③Resolution ④Contrast ratio

It is the first point of selection that if the expected screen size fits in the planned location.

OA brightness of more than 5000 lm. For use in a general office, 3000 lm or more is required.

③The resolution is subject to what you look at. If you mainly look at PC data, 1:1 pixel mapping WXGA is recommended.

If you want to see 4 K HDR, you need to pay attention not only to the projector but also to peripherals such as the screen. (4) The contrast ratio is more important than brightness in the dedicated theater room, but living theaters require.

## Main resolution

Resolution	W x H(dpi)	Aspect ratio
SVGA	800×600	4:3
XGA	1024×768	4:3
HDTV(720P)	1280×720	16:9
WXGA	1280×768	16:10
HDTV(FHD)	1920×1080	16:9
WUXGA	1920×1200	16:10
4K UHD	3840×2160	16:9
DCI-4K	4096×2160	1.90:1

## Precautions for using ultra short throw projector.

Ultra short-throw projectors, when projected onto a regular screen, the image is extremely distorted as shown in the right picture due to the extreme incident angle.

To avoid this distortion, choose a fixed screen like PA.



## **5** Screen material characteristics

The screen materials can be divided into four major characteristics.

Let's create a better viewing environment by knowing the difference among the four characteristics of "diffusive", "reflective", "retroreflective" and "wide gradation".

The light reflection angle by the materials property has the same property in the vertical and horizontal directions.

