

## NEXT GENERATION LED Illumination

High Uniformity

High-Efficiency

Energy Saving

Environmentally Friendly

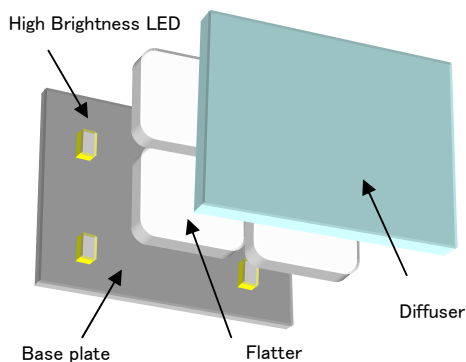
### Overcomes Weaknesses of LED Modules

Converting the point light emitted from an LED to a surface emitter is a challenging task. Various methods using lenses and diffusers have been tried. However, these methods have limitations.

The UniBrite Flatter is an innovative technology enabling the use of a minimum number of high-brightness LEDs to produce a very uniform and bright light source.



#### Merits



No hot spots

Maximizes LED lifetime due to reduction in heat

Reduction in the number of LED's required

Isotropic brightness in a thin package

Easily scalable to various sizes

# UniBrite™ Characteristics

**Maintenance-free, long-life**

**Lightweight, no moving parts**

**Excellent efficiency**

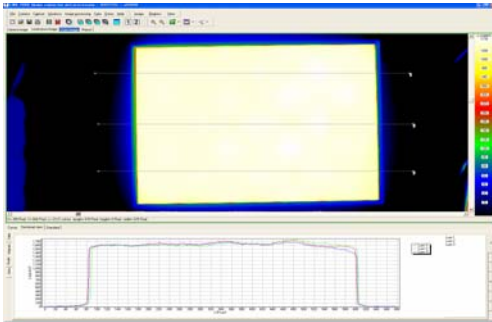
**Absolutely safe, no hot surfaces**

**Scalable up to 200 inches**

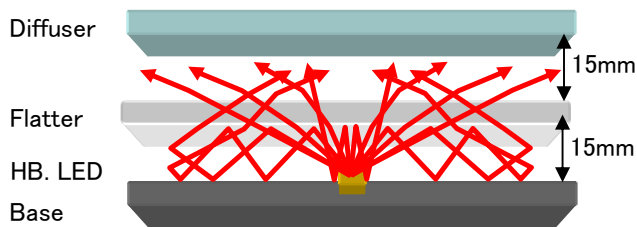
**Works with HB LED's & others**

**Decreases number of LEDs**

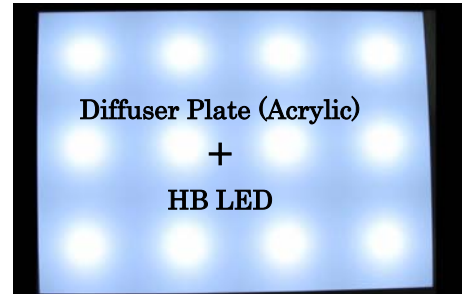
**Efficient: 80-90% LED Light Used**



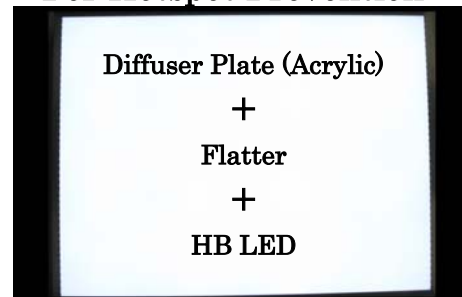
Panel Light uniformity of +/- 5% or better



High Uniformity with use of Flatter.



For Hotspot Prevention



Average Thickness 30mm

## Sample Unit:

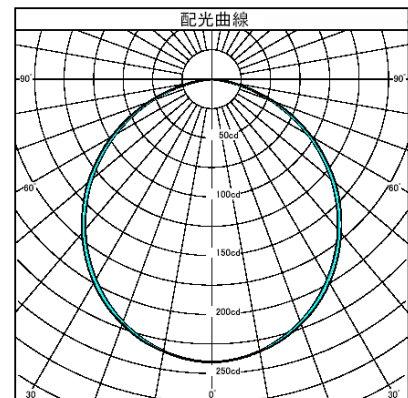
**Configuration:** B4 size (light-emitting surface 364mm×258mm)

White LED 1W 12 pieces (4 rows×3 columns)

LED rated Current 300mA

**Thickness:** Approx. 30mm (depends on design)

**Illumination at Surface :** 6000 Lux nominal



Light Distribution

Custom designs available, please contact us.



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