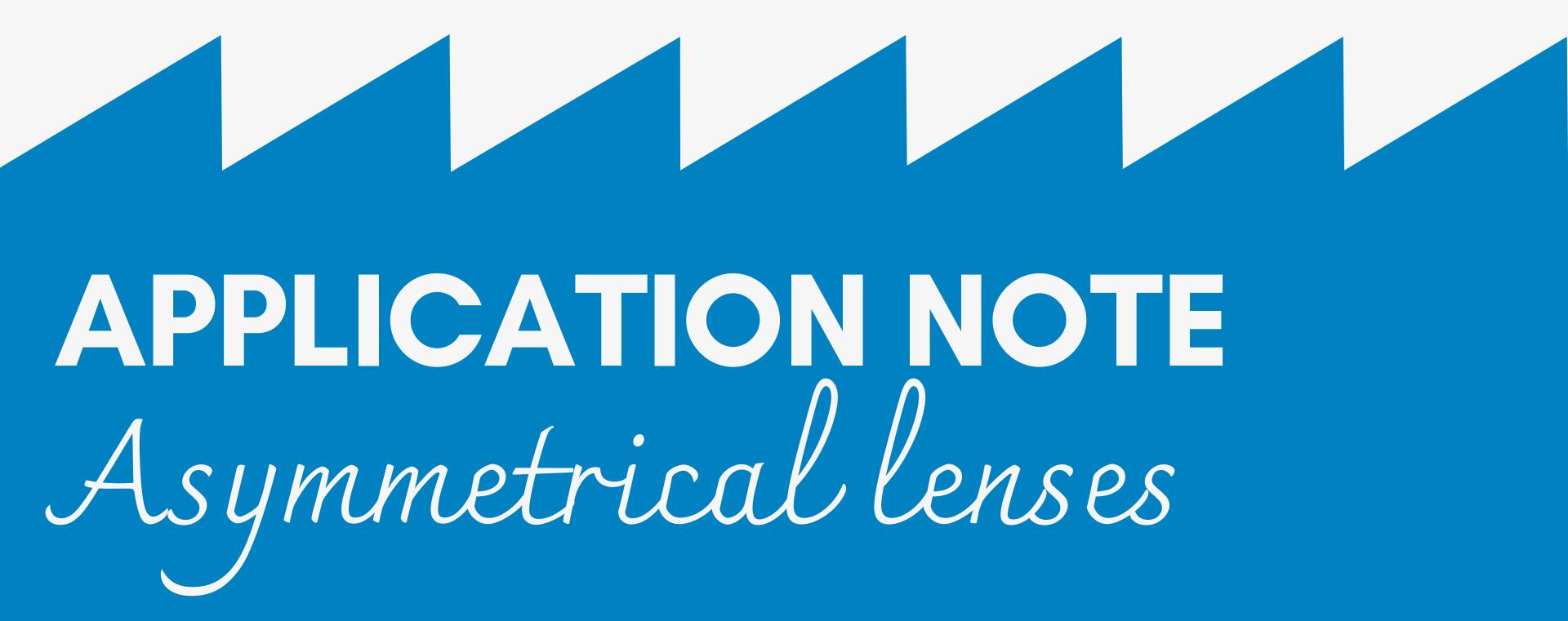
Advantages, technology, photometry, backlight or straylights, how to avoid it.

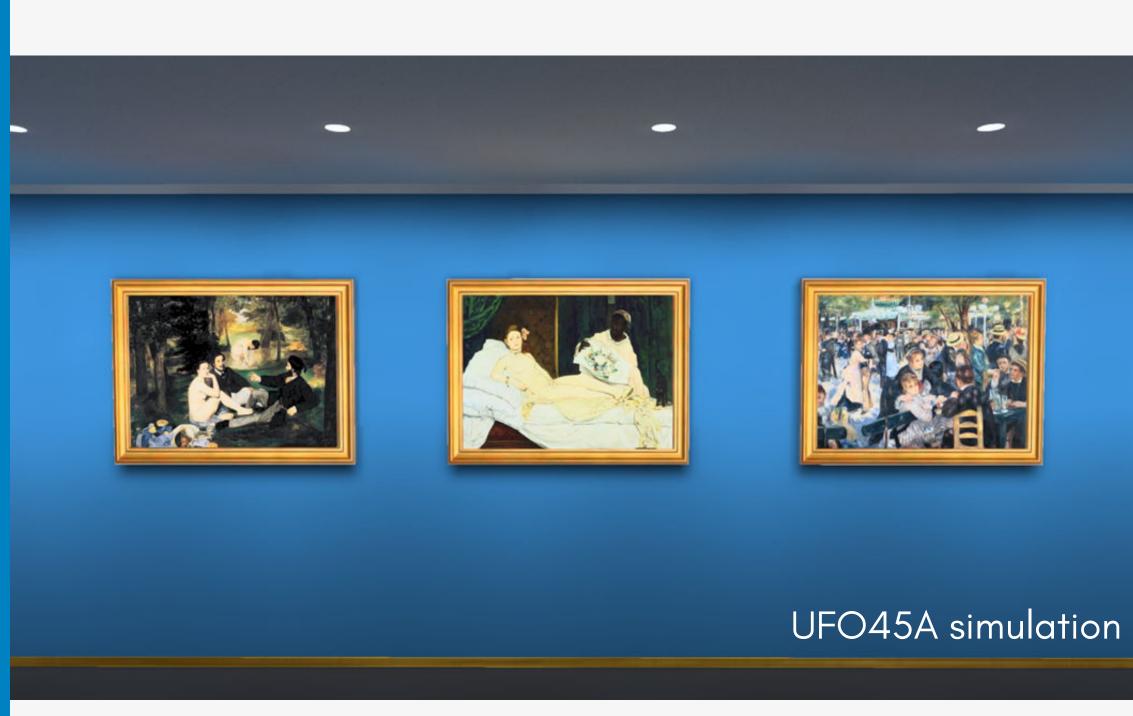




Rectangular beam



C Patented techology



Excellent light distribution on the wall, starting right from the beginning of the wall.

ASYMMETRICAL LENSES Photometry



UFO45A

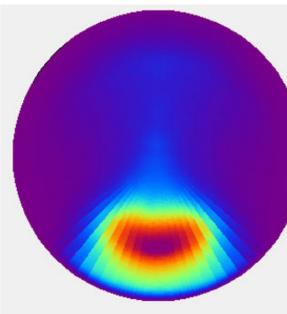
LED : Citizen - Ref : CLU702

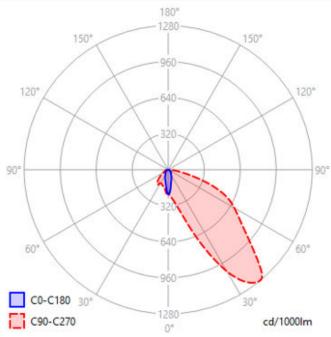
- LOR front (wall) 76.9 %
- Intensity peak front 1130 cd/klm

LLC25A

LED : Cree - Ref : XHP35B HI (flat top)

- LOR front (wall) 77.6%
- Intensity peak front 1279 cd/klm

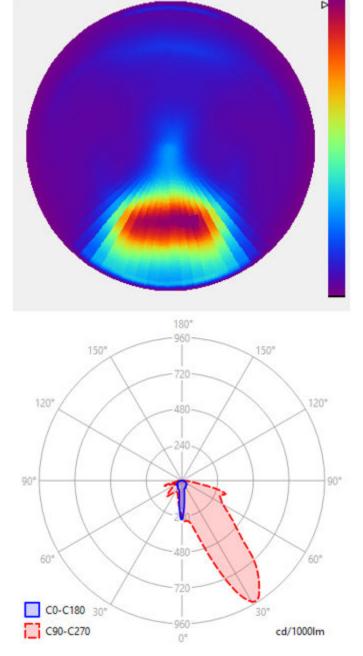




LLC25A







UFO45A

ASYMMETRICAL LENSES Photometry



LLK59CW59A*



LED : OSRAM Ref : OSTAR STAGE S2WN

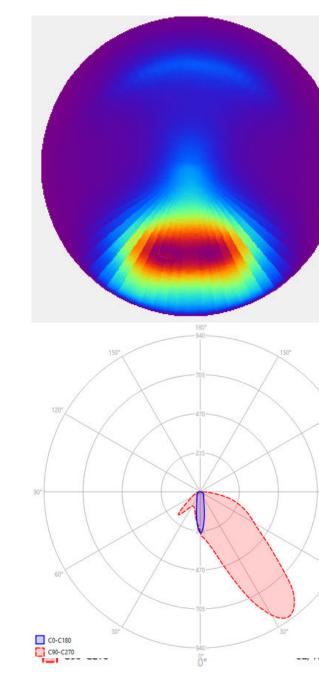
- LOR front (wall) 82%
- Intensity peak front 953 cd/klm

LLK59NW59A*



LED : OSRAM Ref : OSTAR STAGE S2WN

- LOR front (wall) 81%
- Intensity peak front 1026 cd/klm

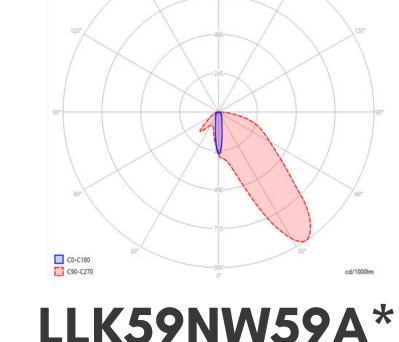


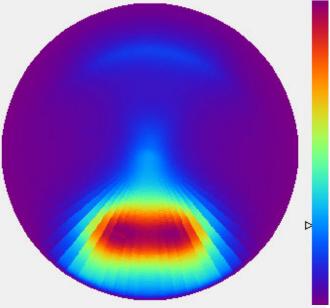
LLK59CW59A*

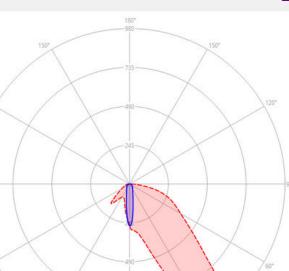














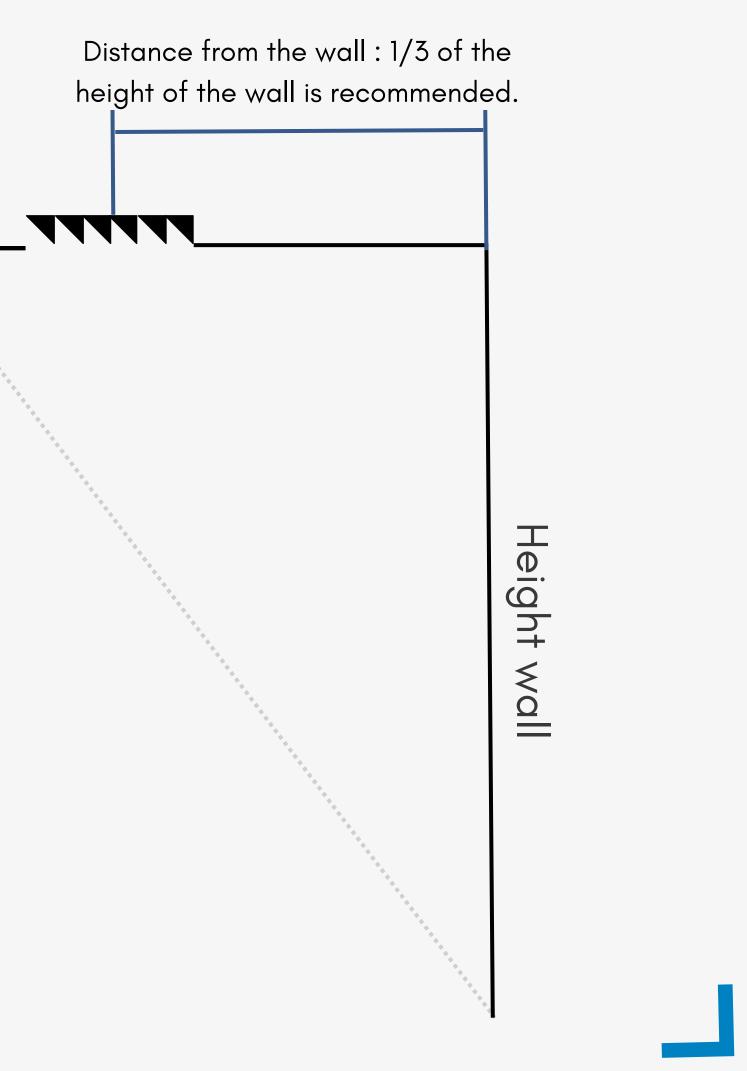
ARCHITECTURAL APPLICATION EXAMPLE

For the light to start as close to the wall as possible from the ceiling, the ideal distance from the wall is 1 meter.

The spacing of the luminaires should be equal or up to 1.2x to the distance from the wall.

LLC25A

The spacing of the luminaires should be equal or up to 0.6x to the distance from the wall. Integration



ASYMMETRICAL LENSES Installation

UFO45A

LED : Citizen - Ref : CLU702

- 1300 Im per LED with 4 x UFO45A
- Projection at 1 m from the wall
- Spacing 1.2 meter
- Wall height 2.6 meters

LLC25A

LED : Cree - Ref : XHP35B HI (flat top)

- 800lm per LED with 6 x LLC25A
- Projection at 1 m from the wall
- Spacing 60 cm
- Wall height 2.6 m

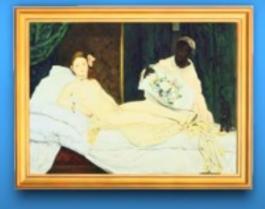














L C 2 5 A

ASYMMETRICAL LENSES Installation

LLK59CW59A*

LED : OSRAM Ref : OSTAR STAGE S2WN

- 800 Im per LED with 4 x LLK59CW59A*
- Projection at 1 m from the wall
- Spacing 1.2 meter
- Wall height 2.8 meters



LED : OSRAM Ref : OSTAR STAGE S2WN

- 800lm per LED with 6 x LLK59NW59A*
- Projection at 1 m from the wall
- Spacing 1.2 meter
- Wall height 2.8 meters





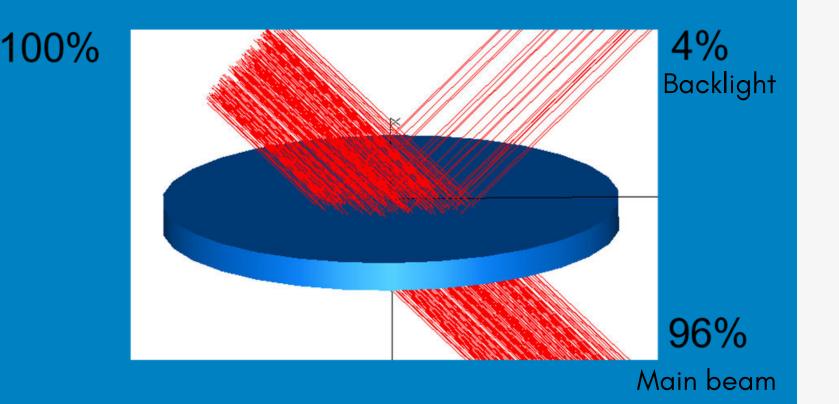






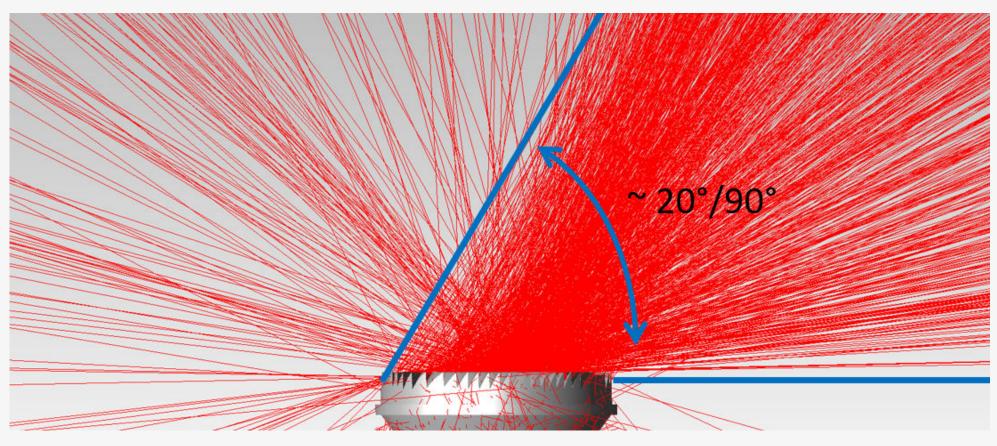
L 5 9 **N** W

When light reaches an optical surface that separates two transparent materials, like plastic and air, around 96% of the light is transmitted and around 4% is reflected. This physical phenomenon is known as « Fresnel losses » and it happens each time the light travels through a transparent surface. The asymetrical lenses LLC25A and UFO45A are bonded to this physical phenomenon and 4% of the incident light is reflected onto the asymetrical optical structure instead of being transmitted. This reflected light is what creates the backlight.

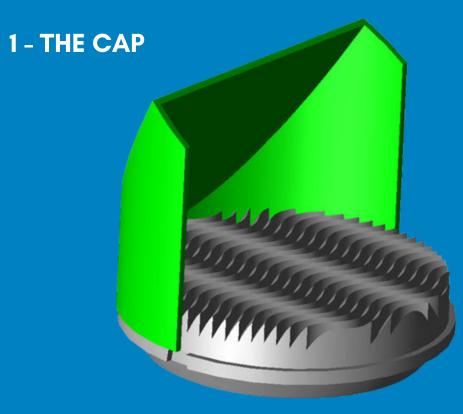


Focus on backlight

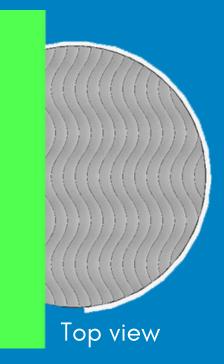
Even if the optical system is extremely well designed, there may be some unwanted light coming out of the optic. This light are rings around the main **beam** and they are not intended to the design, but the effect is **inevitable with** the highest intensity beams.



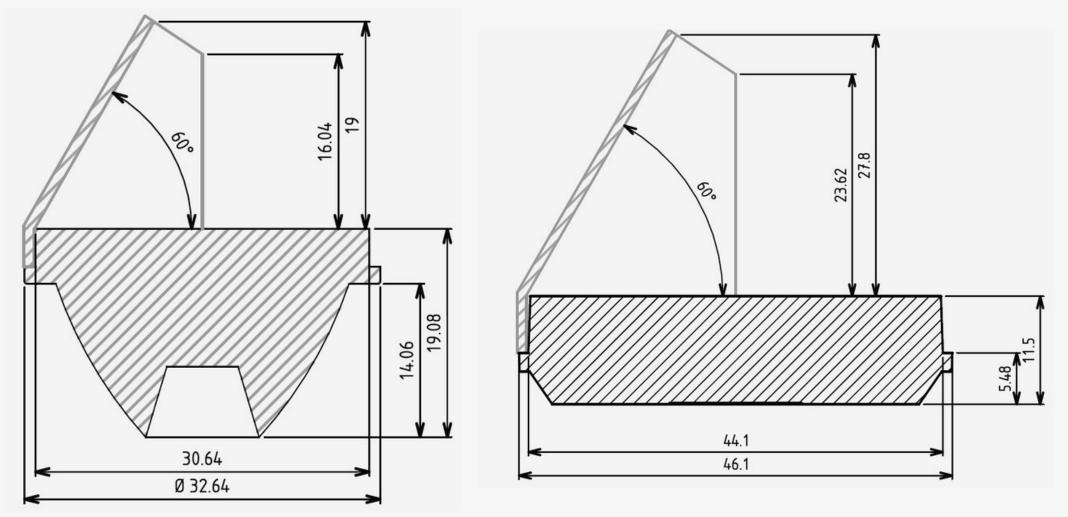
To make this backlight disappear, we have created two concepts.



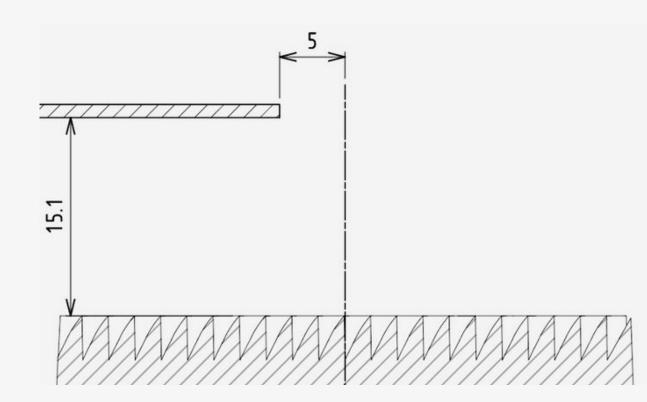
2 - THE PLATFORM



How to avoid it?







UFO45A

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