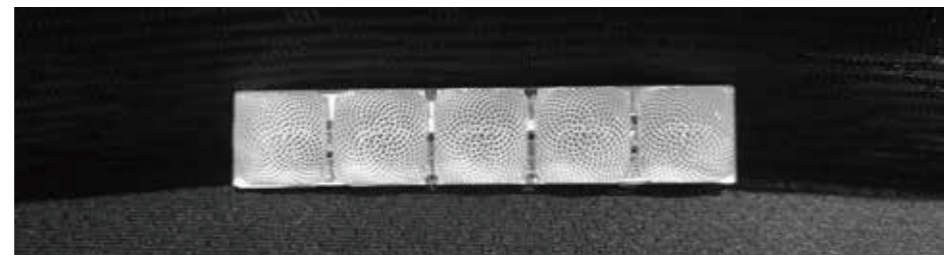




FIREFLY SERIES

Grille-free design, ultra-low glare, excellent lens surface illumination uniformity.

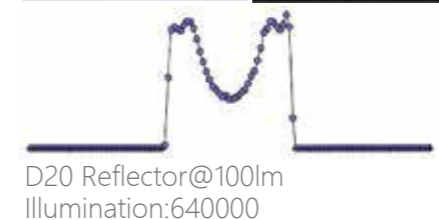


Development Background

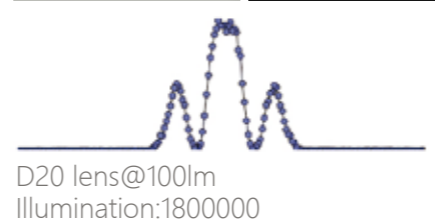
Currently, linear light on the market are all in the form of lens + grille, or reflector + grille, which are combined by buckles.



Reflector + Louver



Lens + Louver



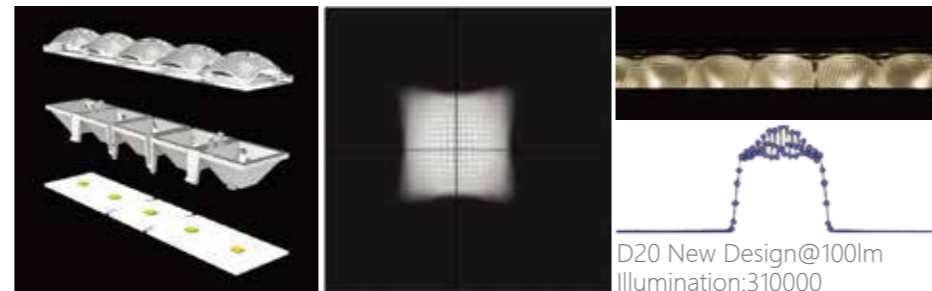
Advantage:
Glare control is better.

Disadvantage: the center light is uncontrollable, the design height is very high, and the center of the surface illumination is sunken.

Advantage: Both center light and edge light can be controlled, the design height is relatively high.

Disadvantage: the surface uniformity is very low, the center brightness is huge, and not anti-glare.

New Solution Design Principles



First optics: Collect light and blend it together.
Second optics: Re-adjust the light correction to achieve even light distribution.

Surface Illumination Comparison



Regular solutions on the market

Ordinary lens or reflector with grille. The surface brightness is not uniform. The lens/reflector is blinding when seen over the grille.

HercuLux solution

Firefly series lens, precise light control at the same time, **the surface illumination uniformity is very good**, when you look directly at the lens is not glare.

FIREFLY SERIES

FIREFLY SERIES

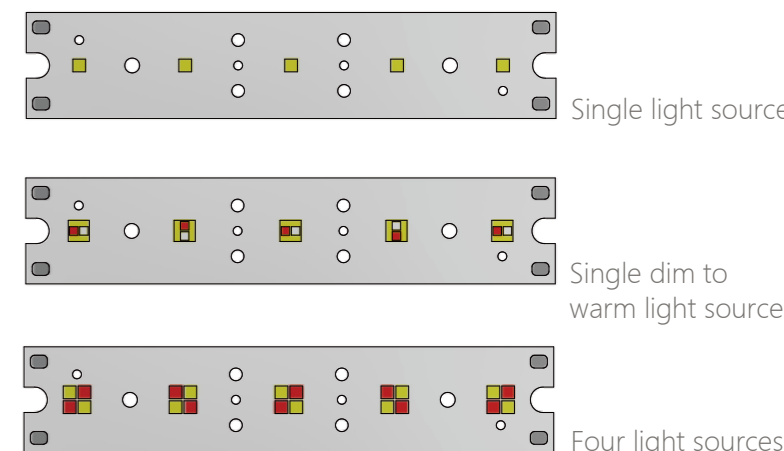
Width (mm)	Specification (mm)		Angle							LED	
			24deg square	24deg round	40deg	60deg	80deg	wall washing	louver		holder
10	7 in 1 59.3X11X11.59										1X3030
	14 in 1 118.3X11X11.59										1X3030 1X3535
15	2 in 1 31.8X15X17.6										1X3030 1X3535
	3 in 1 47.8X15X17.6										1X3030 1X3535
	5 in 1 79.8X15X17.6										1X3030 1X3535
	6 in 1 95.8X15X17.6										1X3030 1X3535
19	2 in 1 39.8X19X21.1										1X3030 1X3535 2X3030 2X3535 4XCSP.1.0X1.0
	3 in 1 59.8X19X21.1										1X3030 1X3535 2X3030 2X3535 4XCSP.1.0X1.0
	5 in 1 99.8X19X21.1										1X3030 1X3535 2X3030 2X3535 4XCSP.1.0X1.0
	5 in 1 (R300) 103.8X19X21.1										1X3030 1X3535 2X3030 2X3535 4XCSP.1.0X1.0
25	6 in 1 119.8X19X21.1										1X3030 1X3535 2X3030 2X3535 4XCSP.1.0X1.0
	1 in 1 24.8X25X26.5										4X3030 4X2835 4X3535 4XCSP.1.9X1.9
	2 in 1 49.8X25X26.5										4X3030 4X2835 4X3535 4XCSP.1.9X1.9
25G	3 in 1 74.8X25X26.5										4X3030 4X2835 4X3535 4XCSP.1.9X1.9
	5 in 1 124.8X25X26.5										4X3030 4X2835 4X3535 4XCSP.1.9X1.9
	1 in 1 24.8X24.8X19.3										1X3030 1X3535
	2 in 1 49.8X24.8X19.3										1X3030 1X3535
25G	3 in 1 74.8X24.8X19.3										1X3030 1X3535
	5 in 1 124.8X25X19.2										1X3030 1X3535
	6 in 1 149.8X24.8X19.3										1X3030 1X3535

FIREFLY SERIES

Width (mm)	Specification (mm)		Angle							LED	
			24deg square	24deg round	40deg	60deg	80deg	wall washing	louver		holder
30G	1 in 1 29.8X29.8X21.8										1X3030,1X3535 2X3030,2X3535 4XCSP.1.0X1.0
	2 in 1 59.8X29.8X21.8										1X3030,1X3535 2X3030,2X3535 4XCSP.1.0X1.0
	3 in 1 89.8X29.8X21.8										1X3030,1X3535 2X3030,2X3535 4XCSP.1.0X1.0
	5 in 1 148.8X29.8X21.8										1X3030,1X3535 2X3030,2X3535 4XCSP.1.0X1.0
40G	7 in 1 279.25X40X26										4X3030,4X2835 4X3535 4XCSP.1.9X1.9

■ Indicate: Mass production
 ■ Indicate: Mold casting
 ■ Indicate: Not Available

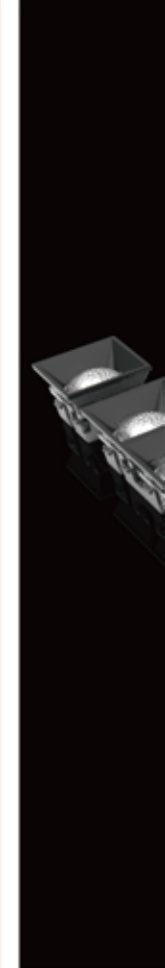
Light Source Arrangement



This drawing is only as a dual-colour light source layout of the schematic, does not limit the use of light sources such as: 3030, 2835, etc., and does not limit the light source layout spacing.

STARRY OPTICAL PLATFORM Firefly & Hidden Series

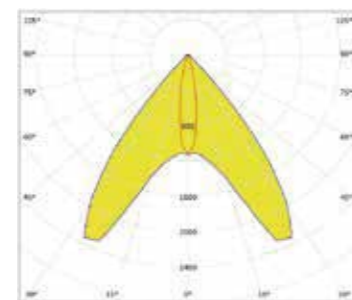
HercuLux Optics focuses on the design and manufacture of optics for LED lighting, LED Automotive headlamp, UV LED precision light distribution, laser ultra-short-throw projector matching screen who is a modern high-tech enterprise that provides professional secondary light distribution solutions



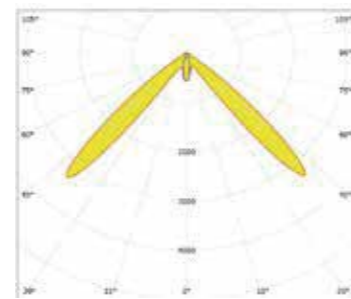
FIREFLY SERIES

Recommended application

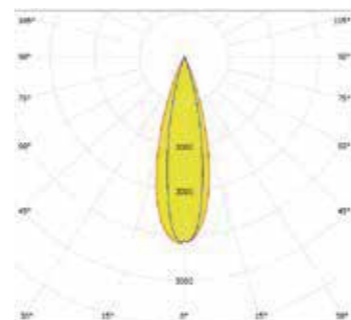
— Supermarket Shelves
(with double asymmetric film)



— Indoor double asymmetric lighting
(with double asymmetric film)

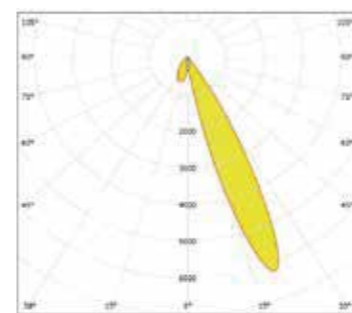


— Office lighting
20°+30° linear film



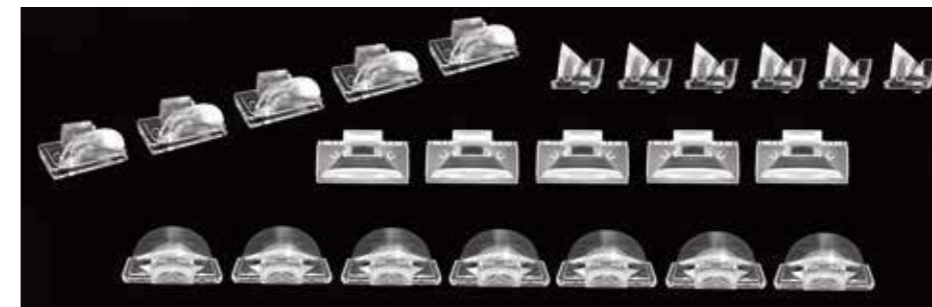
FIREFLY SERIES

— Outdoor wall washing lighting
(with single asymmetric)



HIDDEN SERIES

A lens that bends the light.

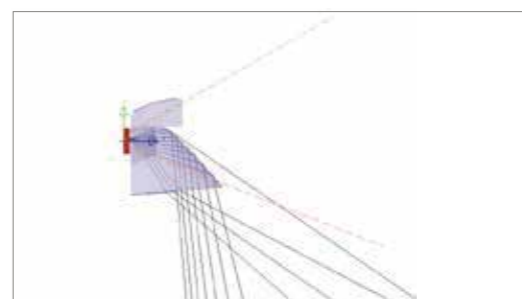
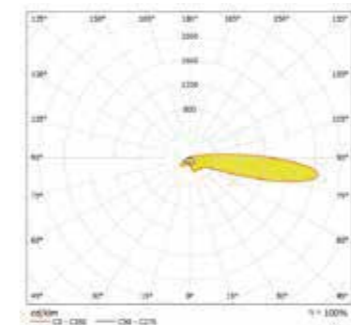


Development Background

What is indirect lighting? Indirect lighting, also known as reflected lighting, refers to the lighting effect in which lamps or light sources do not directly cast light on the object to be illuminated, but are reflected through walls, mirrors or floors. But without exception, the optics of this type of lamps exist through traces of physical obstruction, either through the lamp body itself or the architectural structure.

Is there a way to use direct lighting to approach or achieve the requirements for indirect lighting? A lens that deflects most of the light energy so that the direction of light illumination is not in the same direction as the front direction of the LED should be able to solve the problems of illumination distance and glare.

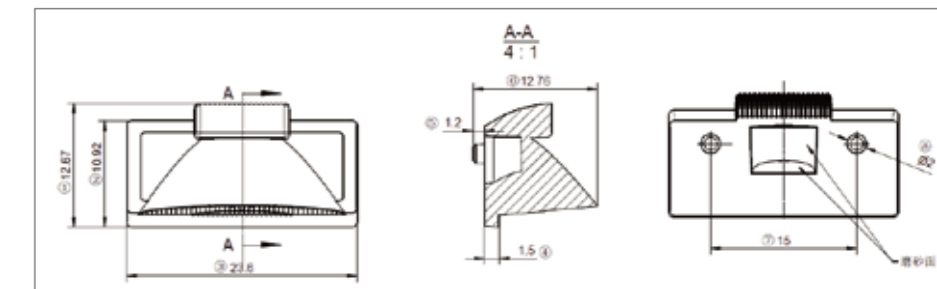
The design uses total reflection to deflect part of the light energy of the LED and emit it, so that the direction of most of the light energy deviates from the direction of the LED surface, thereby achieving indirect lighting.



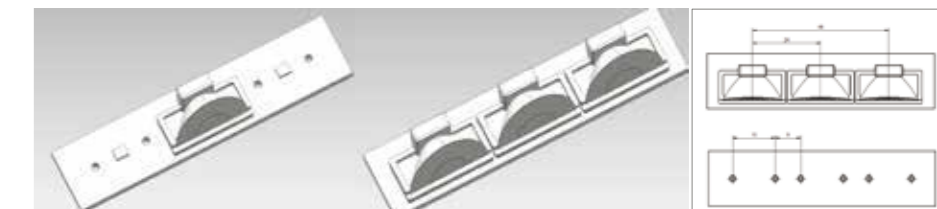
HIDDEN SERIES

Appearance

The design uses an asymmetric structure, and the appearance is more recognizable.



Assembly instructions



Recommended application

— Washing the curtain



— Washing the floor



Chengdu HercuLux Photoelectric Technology Co., Ltd.



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