



Kirin Optical Platform

Chengdu HercuLux Optics Technology Co., Ltd. is a high-tech enterprise dedicated to providing system solutions for LED lighting, UV curing, laser projection, AOI machine vision inspection and other applications
National Specialized, Specialized and New "Small Giant" High-tech Enterprises.

OPTICAL ENERGY · DESIGN · DEVICES



LinkedIn



Website



WeChat

Chengdu HercuLux Photoelectric Technology Co., Ltd.

Add: Room 501-510, Comprehensive Service Building,
Innovation Industrial Park, Nanshan Cloud Valley, Nanshan District,
Shenzhen City, Guangdong P.R. China, Zip code: 518055
Tel: +86 755 2640 6841
Fax: +86 755 2907 5140
Email: sales@herculux.com
Website: <http://www.herculux.com/en>

Chengdu HercuLux Photoelectric Technology Co., Ltd.

is a high-tech Specialized and Sophisticated SMEs dedicated to providing system solutions for applications such as LED lighting, UV curing, laser projection, and AOI machine vision inspection.

We have a R&D team with the background in the Institute of Optics and Electronics, Chinese Academy of Sciences, consisting of experts who have been working for decades in the fields of optics, precision optical molds and precision optical injection molding, fine chemicals and electronic control, as well as a highly efficient and passionate marketing team, which ensures fast product innovation, stable and reliable quality of the products, and fast and considerate service.

Since the start of our company, in order to address the secondary light distribution problems in many LED applications, the company has introduced products such as calculus anti-glare lens, nearly 100% efficiency of the adaptive colloidal street lamp lens, very small angle (less than 3 deg) outdoor spotlight lens, ultra-thin (thickness of less than 8mm) triple total reflection lens, the angle and spot shape of the optical lens module can be changed, efficiency of more than 90% of the zoom series, CCT changing COB can be matched full stroke high efficiency (greater than 80%) high center light intensity of the zoom optical module, MOS film, high temperature-resistant silicone materials and lens, anti-glare firefly series; For the AOI machine vision inspection field, the introduction of photolithography plate plane shadowless light source, to fill the gaps in the domestic market; for the printing curing field, the world's first introduction of full UV (A \ B \ C) LED direct contact with the large-scale printing press curing modules and systems, not only for the printing industry to save energy, but also for the printing industry to save energy, and the printing industry to save energy. system, not only for the printing industry energy saving and environmental protection to provide a perfect solution and further enhance the printing overprint accuracy and significantly reduce the odor of printed materials due to ozone.



National High tech Enterprise

Established in 2013; Obtained the national high-tech enterprise qualification in 2014; Obtaining the national high-tech enterprise qualification in 2014 was the first enterprise in Sichuan to obtain the national high-tech enterprise qualification the following year after its establishment.

Computer Software Copyright

To ensure the perfect presentation of design theoretical values on actual products, HercuLux has independently developed specialized optical conversion software and injection molding analysis precision compensation software.

Patents

The company has applied for more than 330 patents and has obtained 222 patent authorizations, including 11 authorized invention patents, 106 utility model patents, 105 appearance patents, and is currently applying for 3 PCT patents.

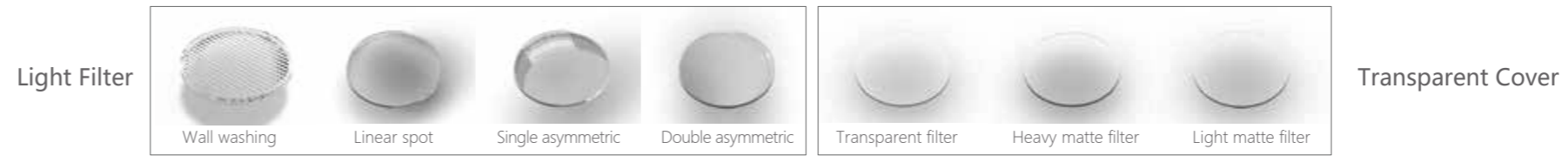
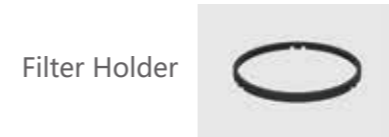
R & D capabilities

The R&D team of the company is composed of a team of experts with a background in the Institute of Optoelectronics, Chinese Academy of Sciences. There are 32 R&D personnel, accounting for 26.45% of the total number of employees. Among them, there are 8 full-time optical design engineers, including one senior engineer, three master's, and four undergraduate students.

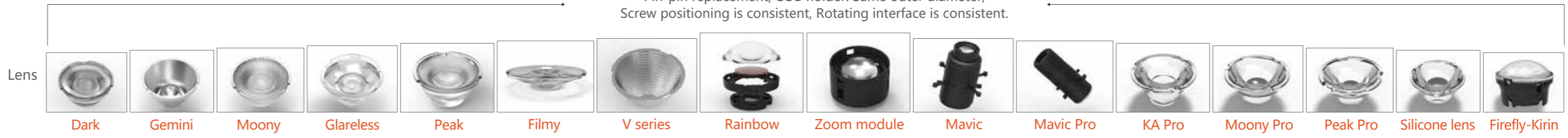


Products Code Rule



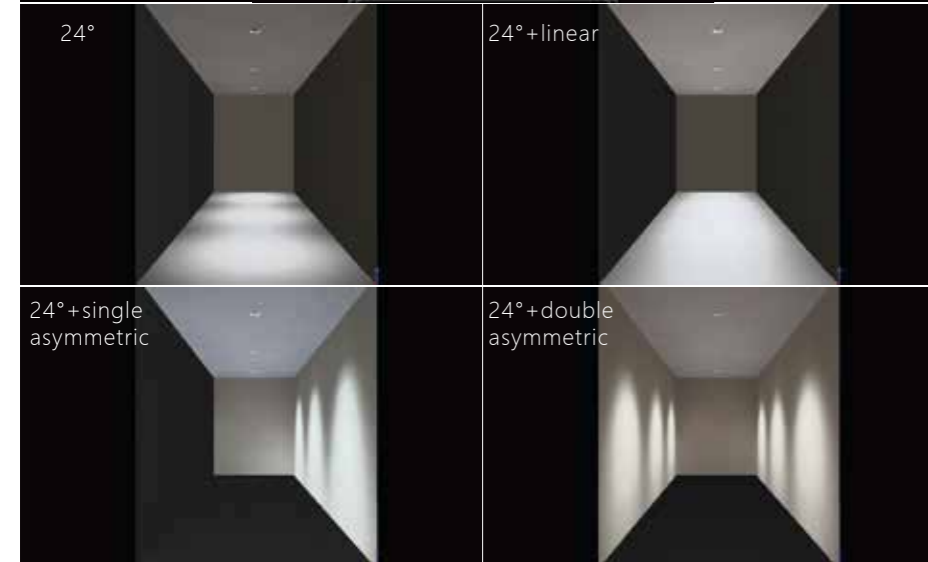
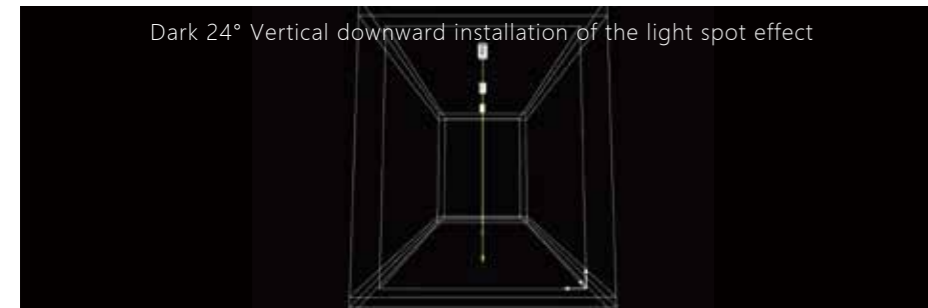


Pin-pin replacement; COB holder: Same outer diameter, Screw positioning is consistent, Rotating interface is consistent.



DARK SERIES

A lens for the high-quality spot of the hotel's deep anti-glare wall washing spotlight

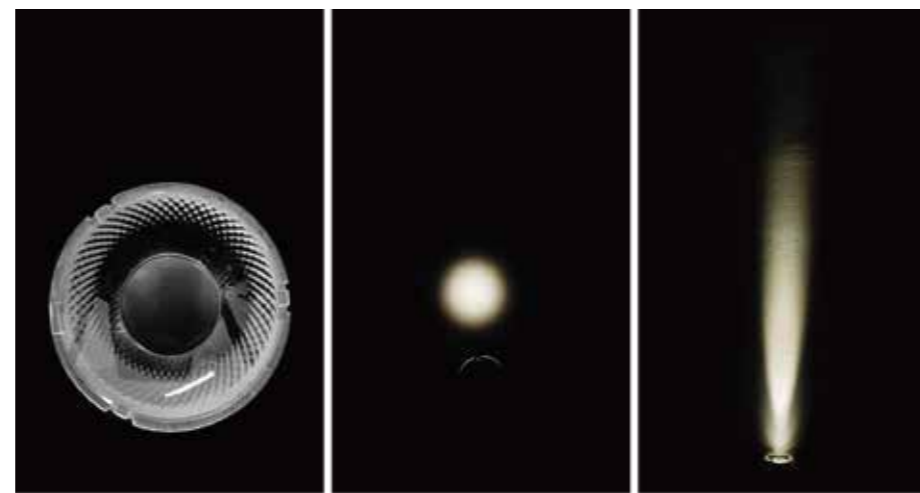


In the design process of the Dark series, the light on the reflective surface and the light on the refracting surface are cross-distributed to achieve the effect of deep anti-glare.

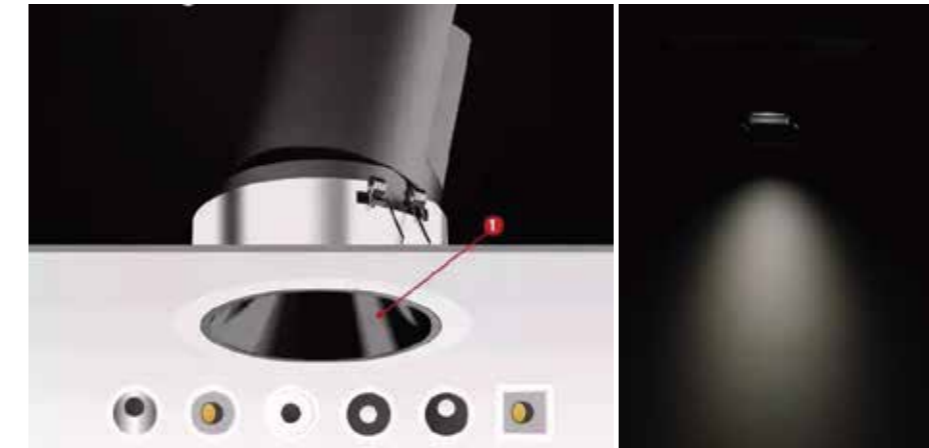
Based on the cross-light distribution design, coupled with the two-dimensional uniform light micro-structure, the light spot can be softer, while the controllable light contributes relatively little to the background light, which makes the background light of the

In order to achieve the best effect of the whole lamp, we will develop matching hoods on some lenses to make the optics of the lamp reach the best condition.

The unique optical design of the narrow beam angle makes the spot more concentrated while less glare. It also supports custom corporate colours.

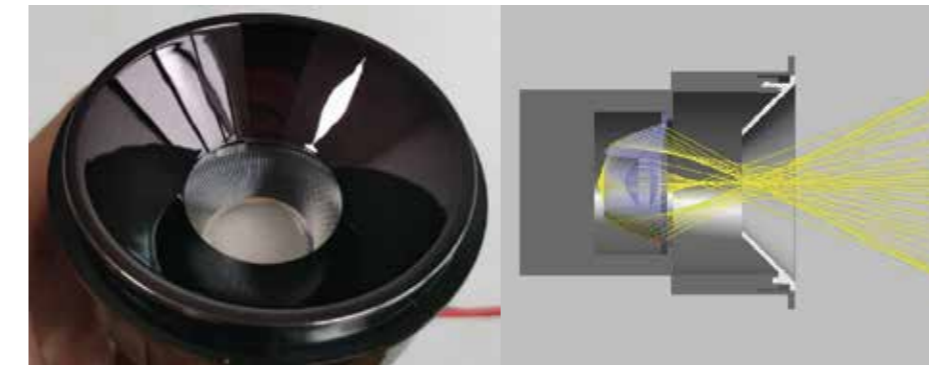


Hotel wall washer spotlight, deep anti-glare structure



Cross-lighting for the ultimate in anti-glare

The cross-lighting design principle makes the lamps and lanterns with light holes smaller than the optical diameter, together with the small holes of the hood, hiding deeper and better control of glare, and the optical efficiency has little impact, but also to ensure that the spot effect.



Assembly size of small hole hood

Lens dia(mm)	Hood height(mm)	Hood small hole dia(mm)	Distance from hole to lens(mm)
25	13	17	6
30	16	19	8
35	16	23	9
45	21	29	12
50	24	35	14
55	25	38	19
62	30	46	20
68	32	48	22
75	35	52	25
83	40	65	29



DARK SERIES



DARK 20@11 (3030)

φ: 19mm H: 11mm
Material: PMMA
FWHM: 15°/24°/36°/50°
Efficiency: 91%



DARK 20@12 (3535)

φ: 20mm H: 12mm
Material: PMMA
FWHM: 15°/24°/36°/50°
Efficiency: 91%



DARK 25@13

φ: 25mm H: 13mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 91%



DARK 30@16

φ: 30mm H: 16mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 91%



DARK 35@16

φ: 35mm H: 16mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 91%



DARK 45@21

φ: 45mm H: 21mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 91%



DARK 50@24

φ: 50mm H: 24mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 91%



DARK 55@25

φ: 55mm H: 25mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 91%

DARK SERIES



DARK 62@30

φ: 62mm H: 30mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 93%



DARK 68@32

φ: 68mm H: 32mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°
Efficiency: 91%



DARK 75@35

φ: 75mm H: 35mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°/70°
Efficiency: 91%



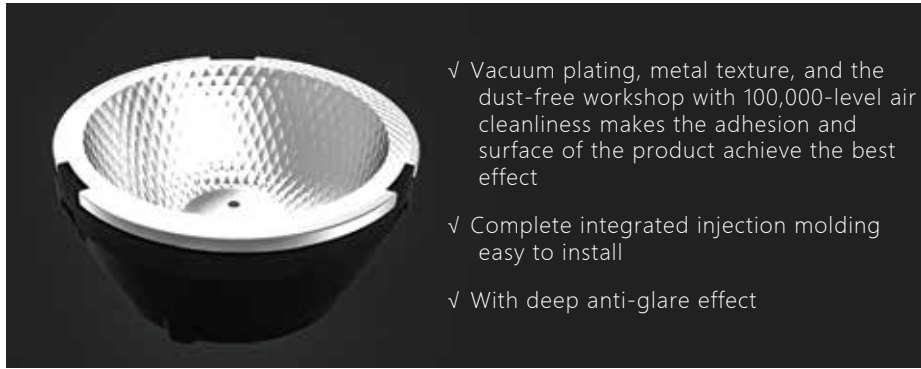
DARK 83@40

φ: 83mm H: 40mm
Material: PMMA
FWHM: 10°/15°/24°/36°/50°/70°
Efficiency: 91%

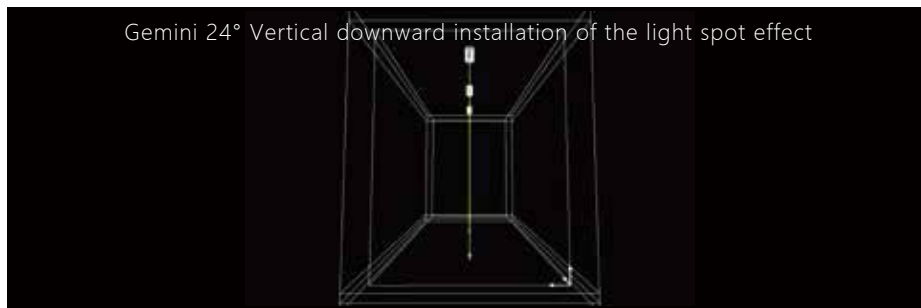
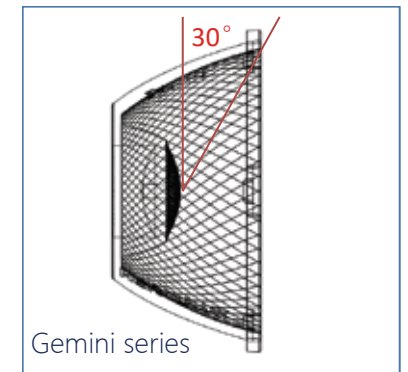
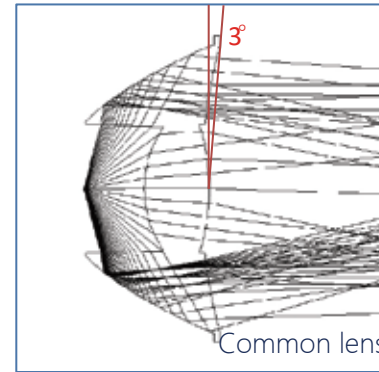


GEMINI SERIES

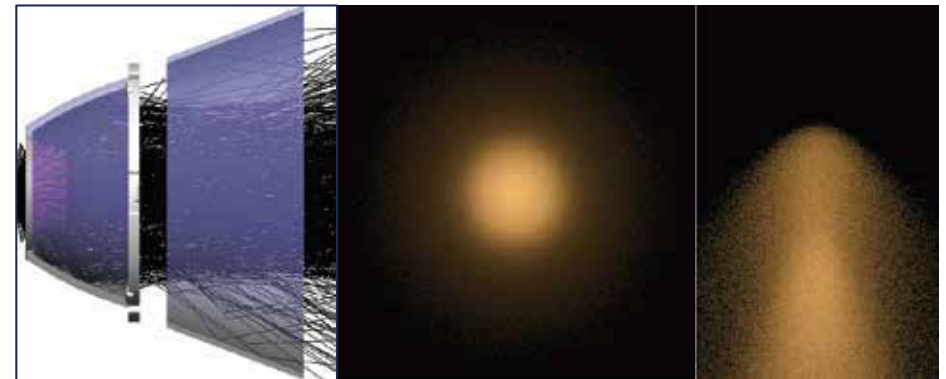
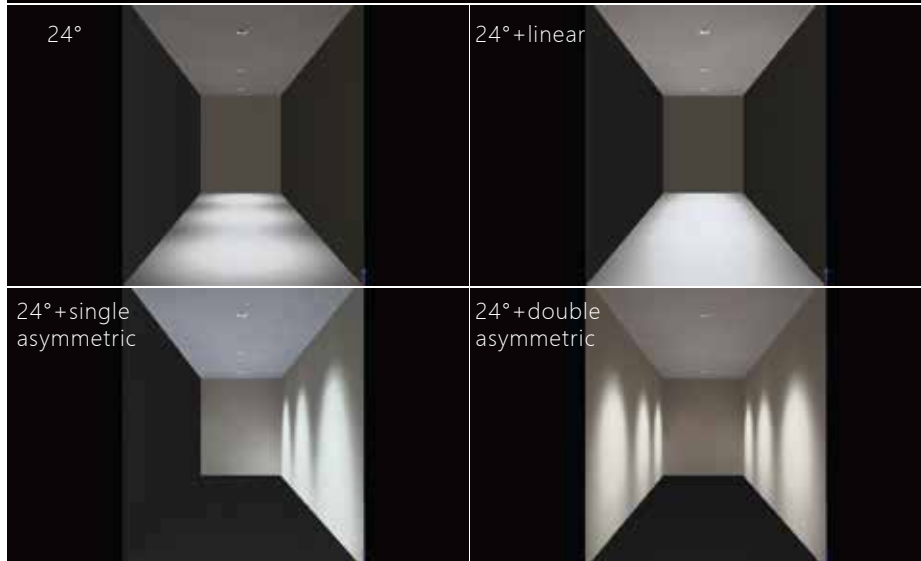
A reflector combined with a lens and a reflector



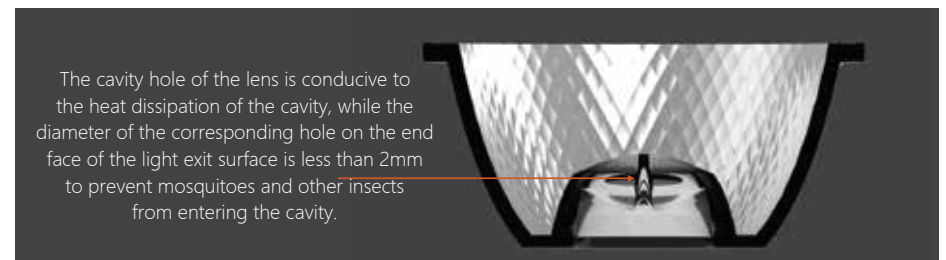
Comes with 30° anti-glare angle



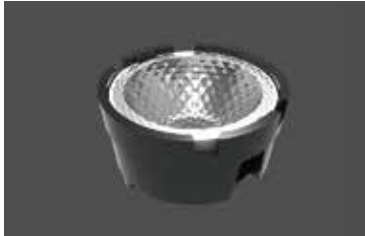
Through the cross light distribution and the control of the proportion of the intermediate light, the wall washing light spot is also relatively clean.



Cross light control, reasonable light control



GEMINI SERIES



GEMINI 25@13

φ: 25mm H: 13mm
Material: Vacuum Aluminum Plating PC
FWHM: 18°/24°/36°/50°
Efficiency: 80%



GEMINI 30@16

φ: 30mm H: 16mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



GEMINI 35@16

φ: 35mm H: 16mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



GEMINI 45@21

φ: 45mm H: 21mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



GEMINI 50@24

φ: 50mm H: 24mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



GEMINI 55@25

φ: 55mm H: 25mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



GEMINI 62@30

φ: 62mm H: 30mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%

GEMINI SERIES



GEMINI 68@32

φ: 68mm H: 32mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



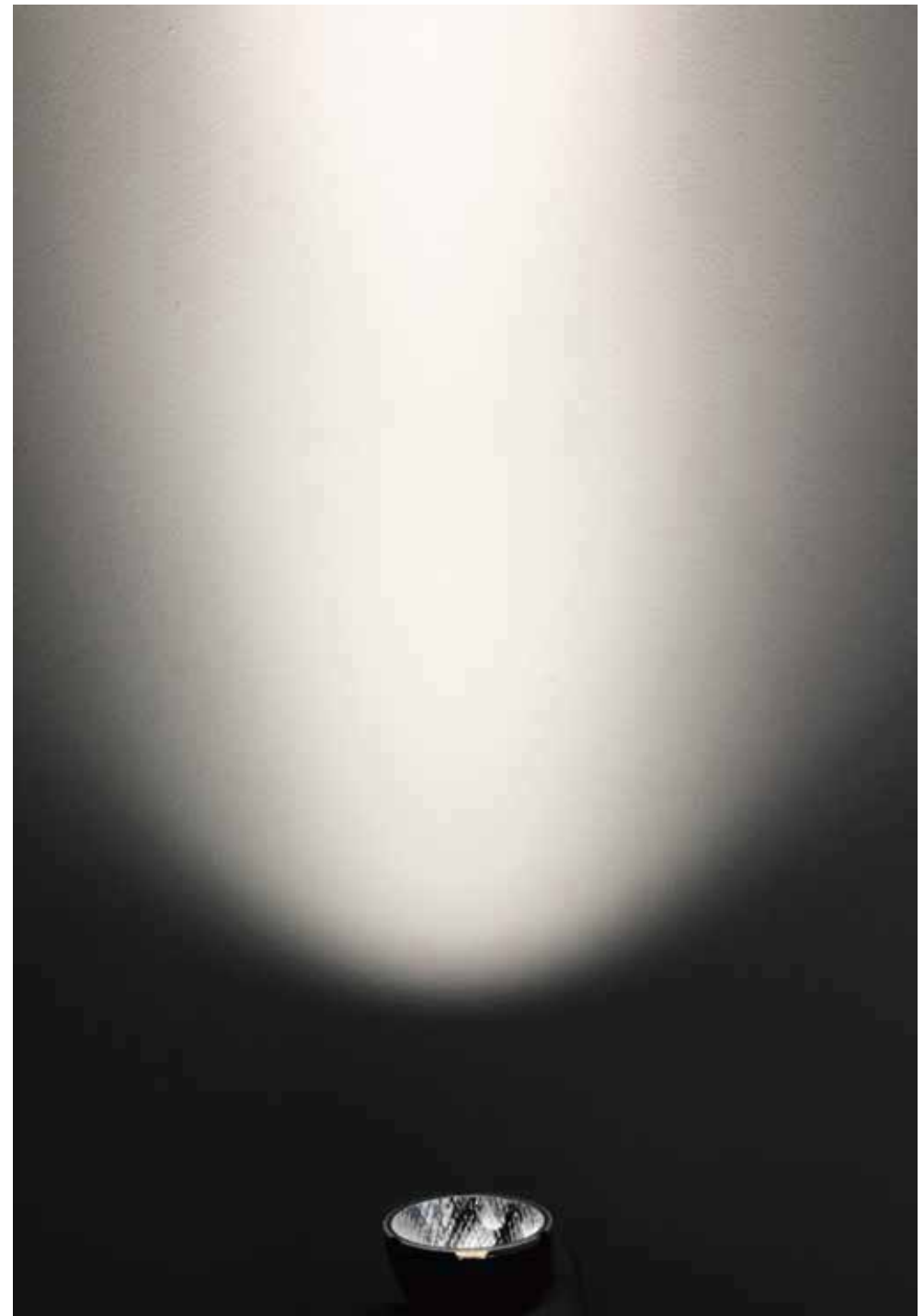
GEMINI 75@35

φ: 75mm H: 35mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



GEMINI 83@40

φ: 83mm H: 40mm
Material: Vacuum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 80%



MOONY SERIES

A clean wall washer lens can match with CCT changing COB

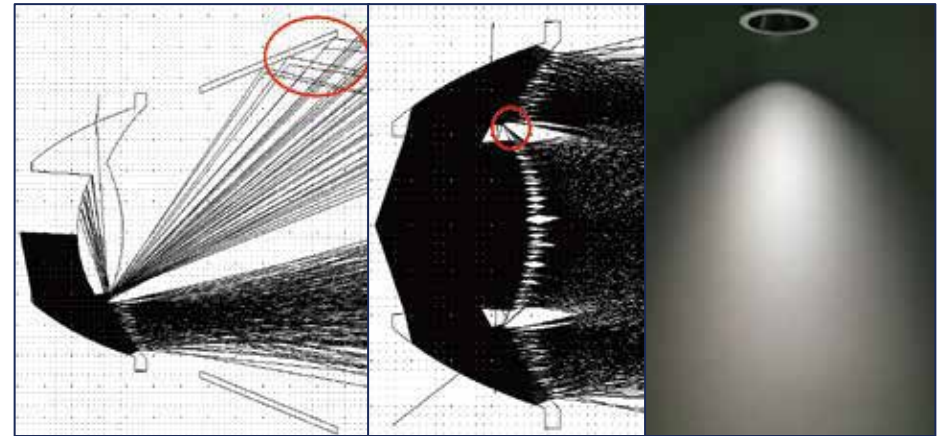


Moony series can achieve similar wall wash effect of reflector, with clean edge cutoff, even transition and no delamination, and can also be matched with CCT changing COB for smart lighting applications.



Smooth surface treatment, more conducive to anti glare

By strengthening the light on the receiving surface of the light emitting surface, this part of the light is forcibly cut off by the anti glare cover when passing through it, resulting in a clear cut-off line when washing the wall.

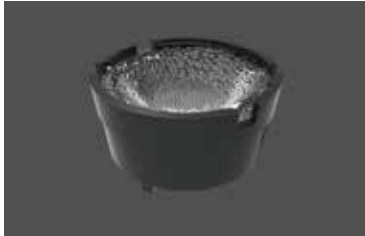


CCT changing COB can be matched

The light is split and concentrated through the microstructure of the lens, so that the color mixing of the light spot is more uniform.



MOONY SERIES



MOONY 25@13

φ: 25mm H: 13mm

Material: PC/PMMA

FWHM: 18°/24°/36°/50°

Efficiency: 88%



MOONY 30@15

φ: 30mm H: 15mm

Material: PC

FWHM: 15°/24°/36°/50°

Efficiency: 88%



MOONY 50@24

φ: 50mm H: 24mm

Material: PC

FWHM: 15°/24°/36°/50°

Efficiency: 88%



MOONY 35@16

φ: 35mm H: 16mm

Material: PC

角度: 15°/24°/36°/50°

Efficiency: 88%



MOONY 45@21

φ: 45mm H: 21mm

Material: PC

角度: 15°/24°/36°/50°

Efficiency: 88%



MOONY 55@25

φ: 55mm H: 25mm

Material: PC

FWHM: 15°/24°/36°/50°

Efficiency: 88%



MOONY 62@30

φ: 62mm H: 30mm

Material: PC

FWHM: 15°/24°/36°/50°

Efficiency: 88%

MOONY SERIES



MOONY 68@32

φ: 68mm H: 32mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



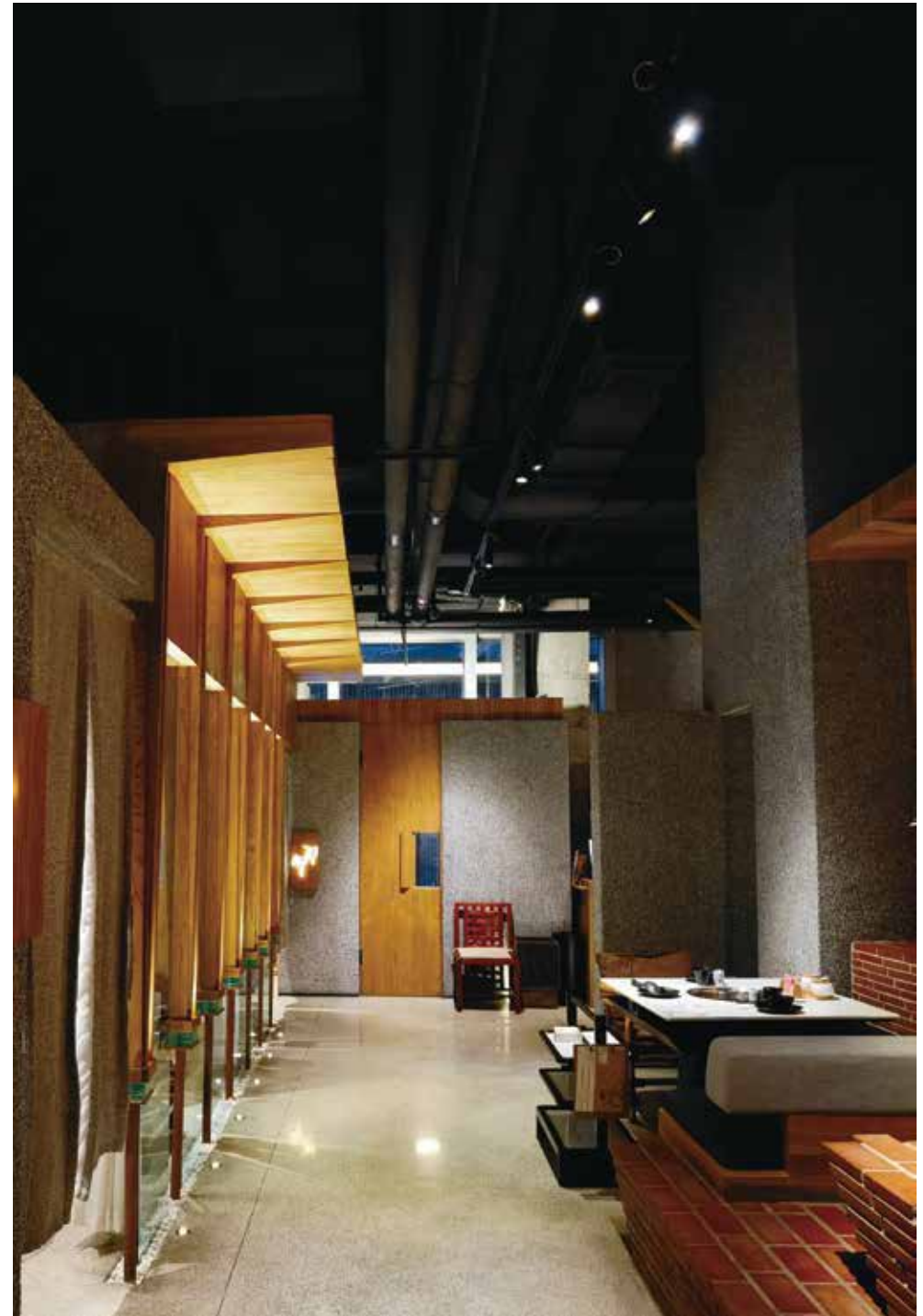
MOONY 75@35

φ: 75mm H: 35mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



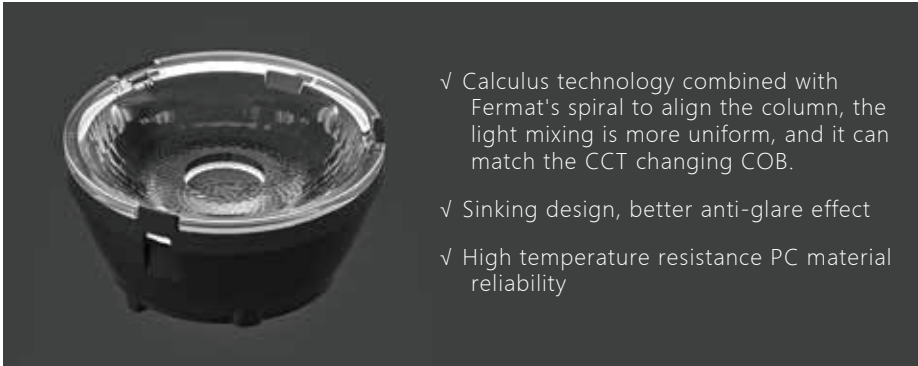
MOONY 83@40

φ: 83mm H: 40mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%

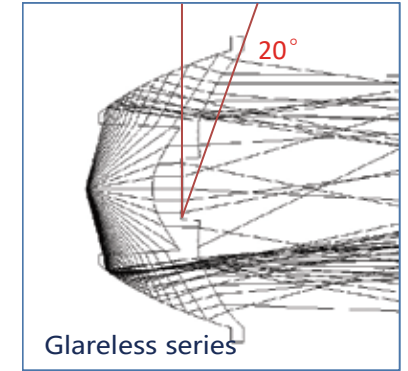
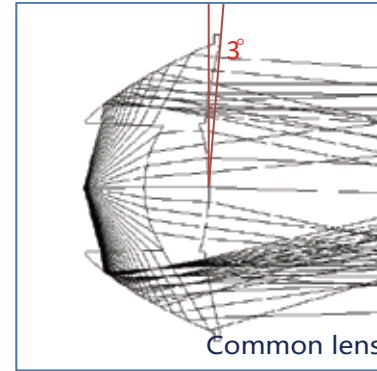


GLARELESS SERIES

A lens with anti-glare effect



Come with 20° anti-glare angle



Smooth the surface, more conducive to anti-glare

The light-emitting surface is smoothly treated, and there is no matte, sun-stripe and other structures, so that the light-emitting surface is no stray light and no glare.

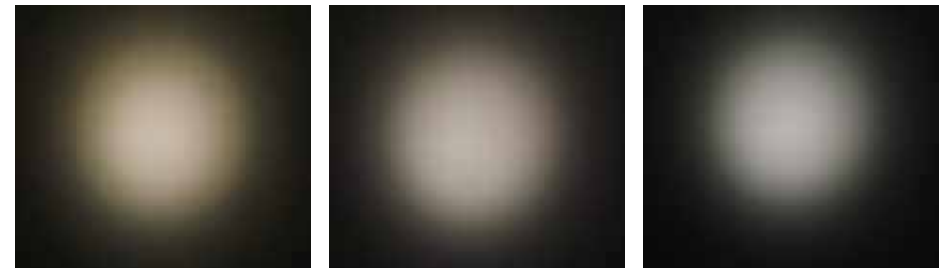


CCT changing COB can be matched

The reflective surface adopts calculus technology, so that the lens can match with CCT changing COB, and the spot is more uniform.



Spot effect



GLARELESS SERIES



GLARELESS 25@13

φ: 25mm H: 13mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 30@16

φ: 30mm H: 16mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 50@24

φ: 50mm H: 24mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 55@25

φ: 55mm H: 25mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 35@16

φ: 35mm H: 16mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 45@21

φ: 45mm H: 21mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 62@30

φ: 62mm H: 30mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%

GLARELESS SERIES



GLARELESS 68@32

φ: 72mm H: 22mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 75@35

φ: 75mm H: 35mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



GLARELESS 83@40

φ: 83mm H: 40mm
Material: PC
FWHM: 15°/24°/36°/60°
Efficiency: 88%



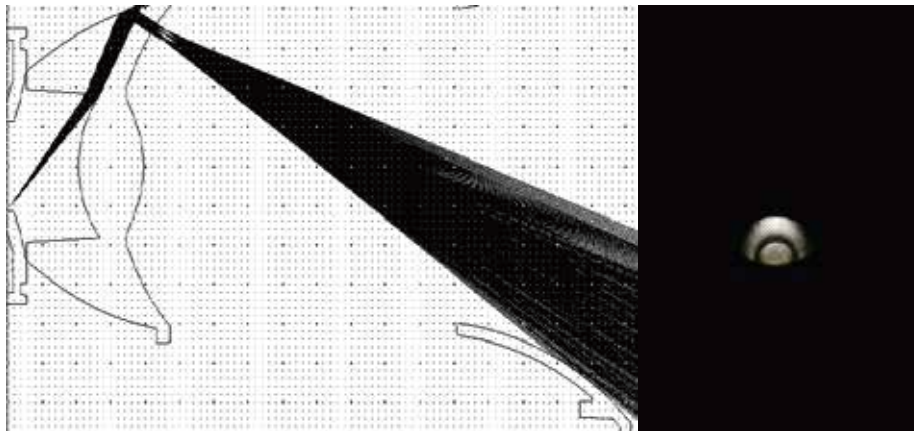
PEAK SERIES

A clean wall-washing and extremely deep anti-glare lens



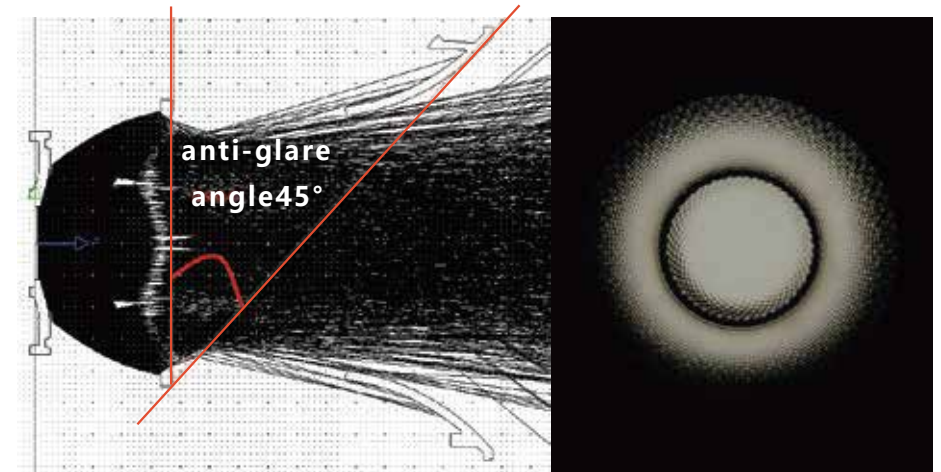
Surface treatment, directional light control

Special treatment of the light in certain positions of the Peak series lens so that with the glare shield, some of the light just passes over the edge of the large opening of the glare shield, making it a more obvious cut-off line between light and dark when washing the wall.



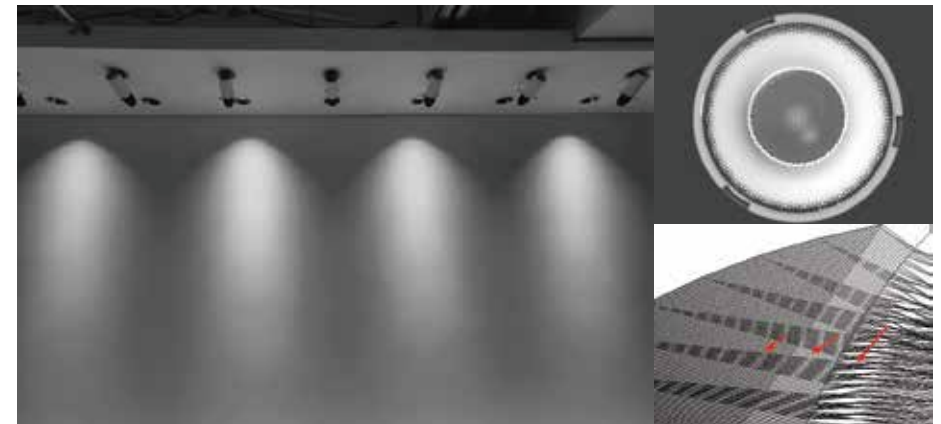
Matching with light hood to achieve ultimate anti-glare

Adding microstructure on the surface of the lens makes the light cross-mix more evenly on the surface of the lens, and with the anti-glare cover developed by our company, the light spot of the wall washing is more even.



More uniform light spot

The reflective surface treatment allows some of the light to cross-mix in multiple places within the lens and then mix again at the exit surface, resulting in a more uniform overall light spot.



PEAK SERIES



PEAK/ PEAK V 25@13

φ: 25mm H: 13mm
Material: PMMA
FWHM: 15°/24°/36°/50°
(PEAK V not have 50 °)
Efficiency: 90%



PEAK/ PEAK V 35@16

φ: 35mm H: 16mm
Material: PMMA
FWHM: 15°/24°/36°/50°
(PEAK V not have 50 °)
Efficiency: 90%



PEAK 30@15

φ: 30mm H: 15mm
Material: PMMA
FWHM: 15°/24°/36°/50°
Efficiency: 90%



PEAK/ PEAK V 40@19

φ: 40mm H: 19mm
Material: PMMA
FWHM: 15°(developing)/24°/36°/50°
(PEAK V not have 50 °)
Efficiency: 90%



PEAK/ PEAK V 45@21

φ: 45mm H: 21mm
Material: PMMA
FWHM: 15°/24°/36°/50°
(PEAK V not have 50 °)
Efficiency: 90%



PEAK 55@25

φ: 55mm H: 25mm
Material: PMMA
FWHM: 15°/24°/36°/50°
Efficiency: 90%



PEAK 68@32

φ: 68mm H: 32mm
Material: PMMA
FWHM: 15°/24°/36°/50°
Efficiency: 90%

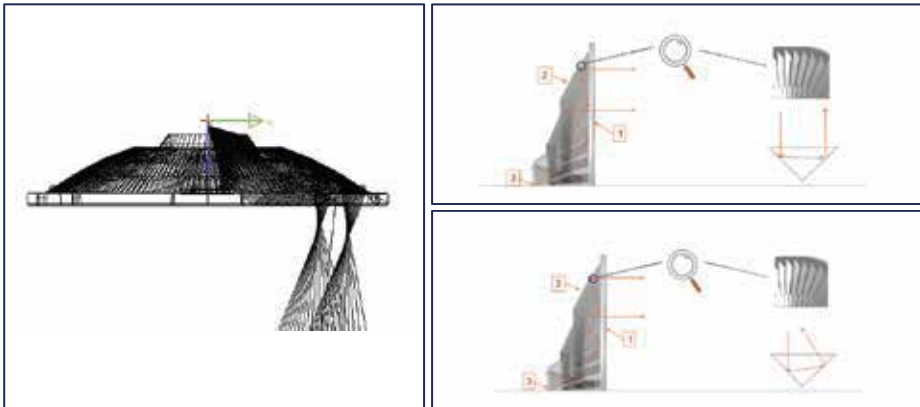
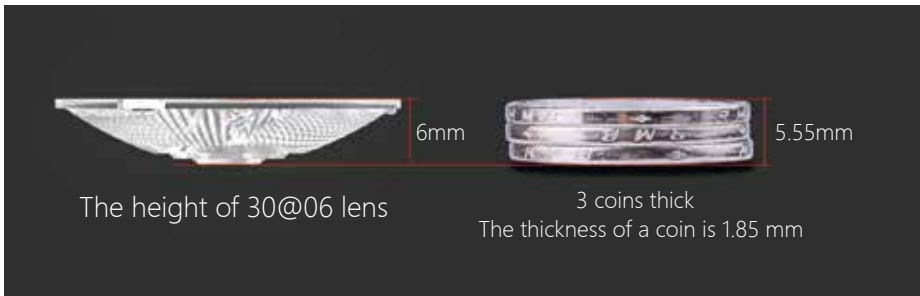
FILMY SERIES

A lens as thin as a cicada wing



Ultra-thin design

In the limited optical space, through triple total reflection technology, the optical path is increased to control lights effectively.



Beautiful appearance

Combining calculus with three total reflections, the lens looks like a blooming flower, which is quite exquisite as the appearance of lamps.



Triple total reflection technology: narrow angle can also match CCT changing COB



FILMY SERIES



FILMY 30@06

φ: 30mm H: 6mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



FILMY 35@07

φ: 35mm H: 7mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



FILMY 45@09

φ: 45mm H: 9mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



FILMY 50@10

φ: 50mm H: 10mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



FILMY 55@11

φ: 55mm H: 11mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



FILMY 62@13

φ: 62mm H: 13mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



FILMY 68@13

φ: 68mm H: 13mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%

FILMY SERIES



FILMY 75@15

φ: 75mm H: 15mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



FILMY 83@17

φ: 83mm H: 17mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



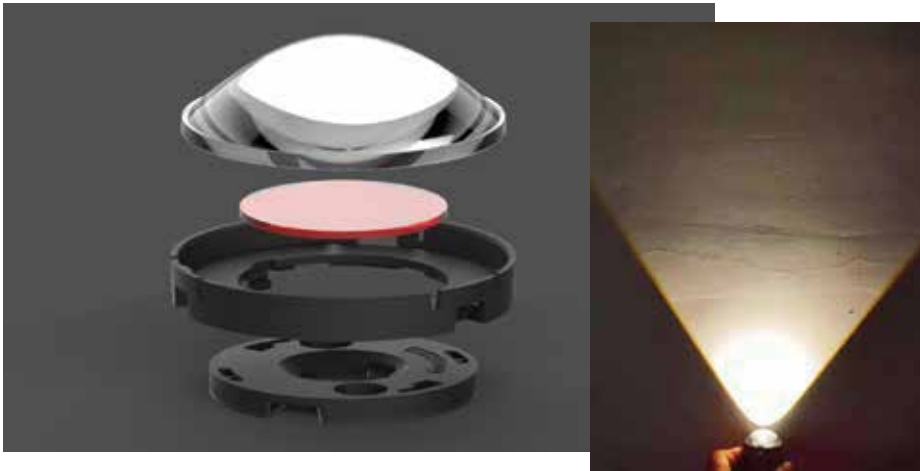
FILMY 90@18

φ: 90mm H: 18mm
Material: PC
FWHM: 10°/15°/24°/36°/60°
Efficiency: 85%



RAINBOW SERIES

A lens like an eye



Aspherical design:

Adjust the internal structure of the convex aspherical surface to make the light spot cut-off and uniform.



Suitable for Kirin optical platform:

The size is from 20-83mm. By using our customized lens holders, it can be assembled on our COB holders and realize a convenient replacement. It can also match with various COB brands through the corresponding COB holders.

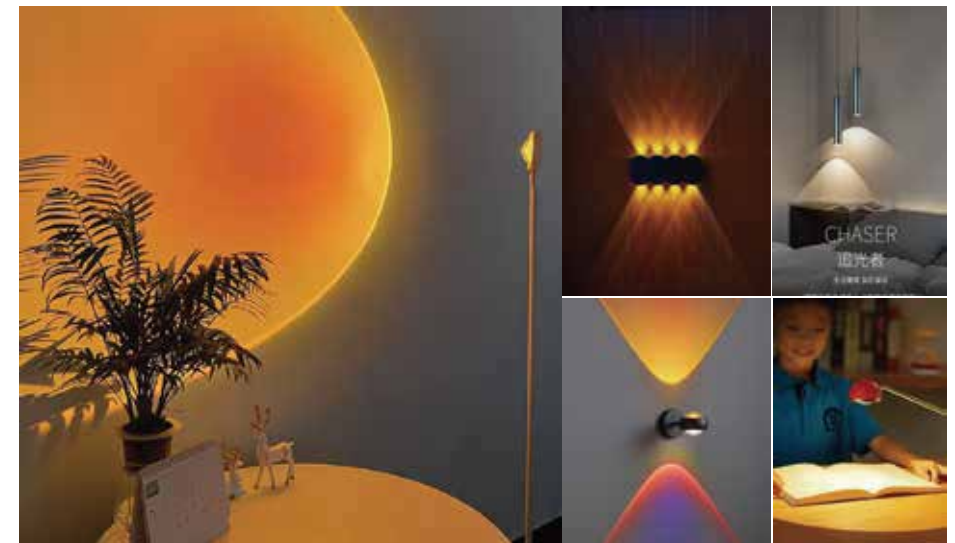
Sunset effect:

By adding color filter, the color of the light spot can be changed to achieve different lighting effects.

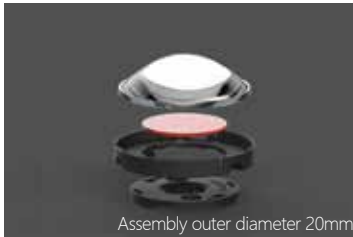
There are three sizes of sunset red color-changing filters, which can be applied to sunset lights, wall lights, atmosphere lights, etc. You can also customize different colors filters according to your own needs.

The specific parameters of the color filters are as follows:

Color filter	Size	Matching optics	Matching COB holder
Ø17.8	17.8@1.1	Rainbow lens D20/D25	D24 COB holder
Ø27	27@1.1	Rainbow lens D35/D45/D50/D55/D62/D68	D35 COB holder
Ø49.8	49.8@1.1	Rainbow lens D83/D75	D50 COB holder

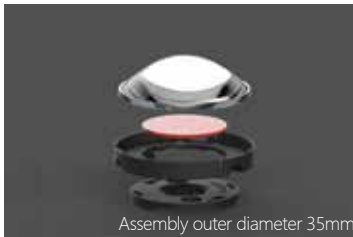


RAINBOW SERIES



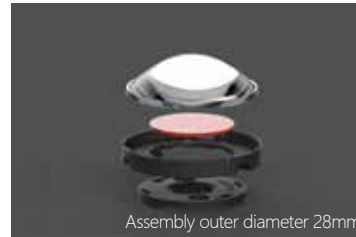
RAINBOW 18@05

φ : 18mm H: 5mm
Material: PC
FWHM: 75°
Efficiency: 88%



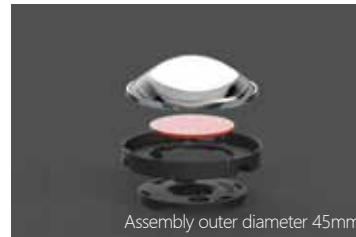
RAINBOW 32@09

φ : 32mm H: 9mm
Material: PC
FWHM: 75°
Efficiency: 88%



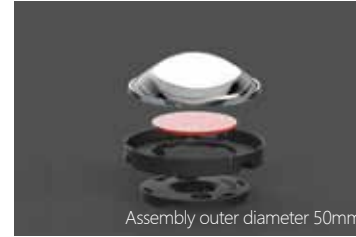
RAINBOW 25@06

φ : 25mm H: 6mm
Material: PC
FWHM: 75°
Efficiency: 88%



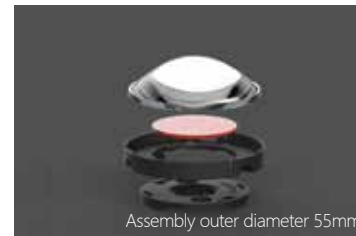
RAINBOW 42@12

φ : 42mm H: 12mm
Material: PC
FWHM: 75°
Efficiency: 88%



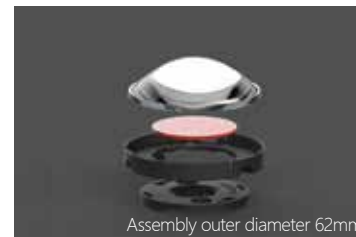
RAINBOW 47@15

φ : 47mm H: 15mm
Material: PC
FWHM: 75°
Efficiency: 88%



RAINBOW 52@15

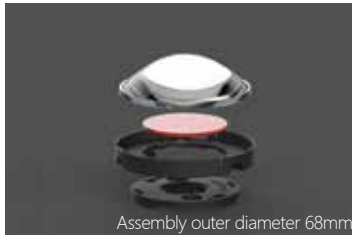
φ : 52mm H: 15mm
Material: PC
FWHM: 75°
Efficiency: 88%



RAINBOW 58@16

φ : 58mm H: 16mm
Material: PC
FWHM: 75°/95°
Efficiency: 88%

RAINBOW SERIES



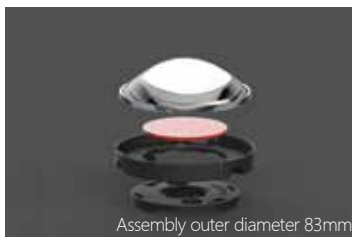
RAINBOW 64@19

φ : 64mm H: 19mm
Material: PC
FWHM: 75°
Efficiency: 88%



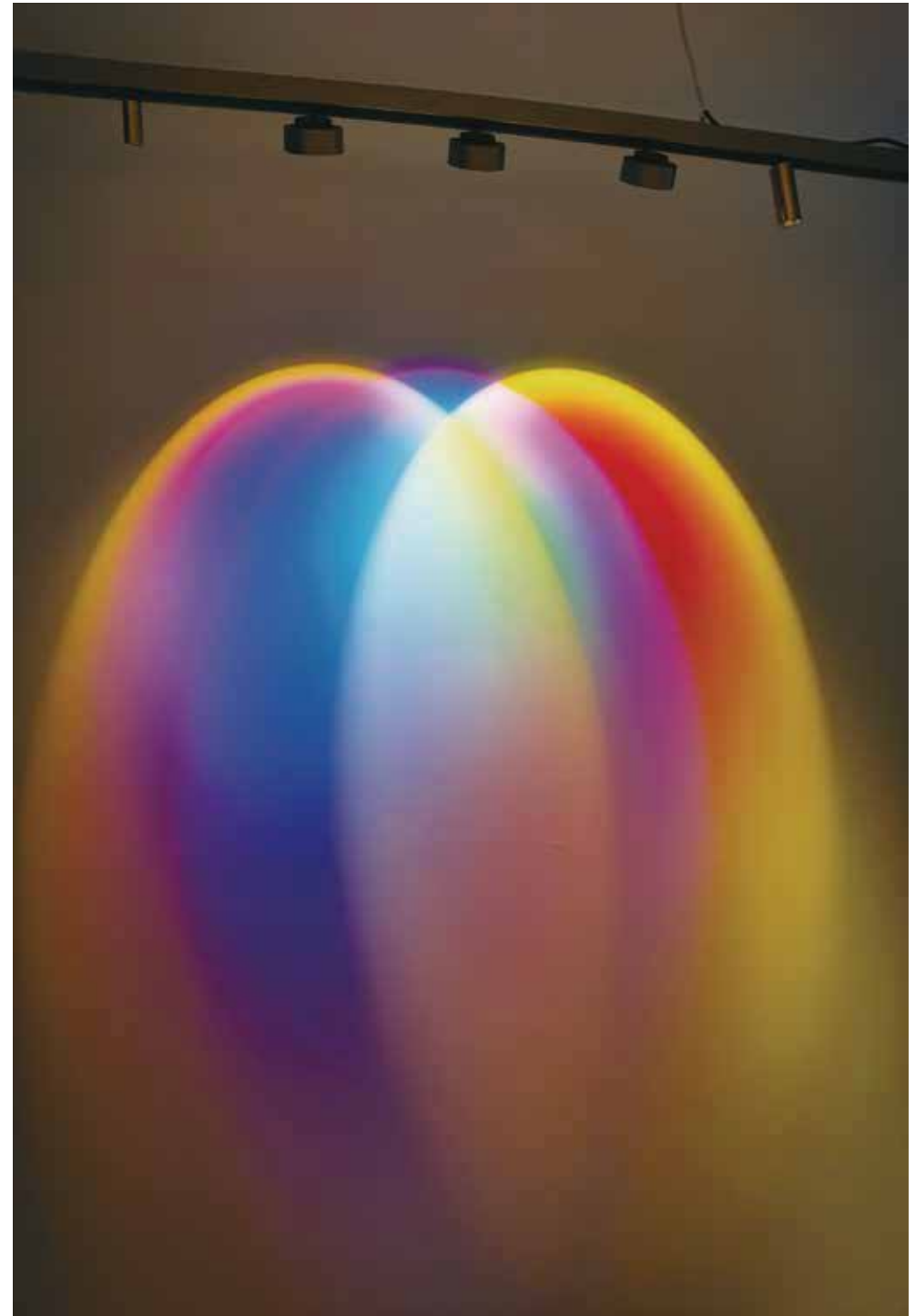
RAINBOW 71@18

φ : 71mm H: 18mm
Material: PC
FWHM: 75°
Efficiency: 88%



RAINBOW 79@18

φ : 79mm H: 18mm
Material: PC
FWHM: 80°
Efficiency: 88%



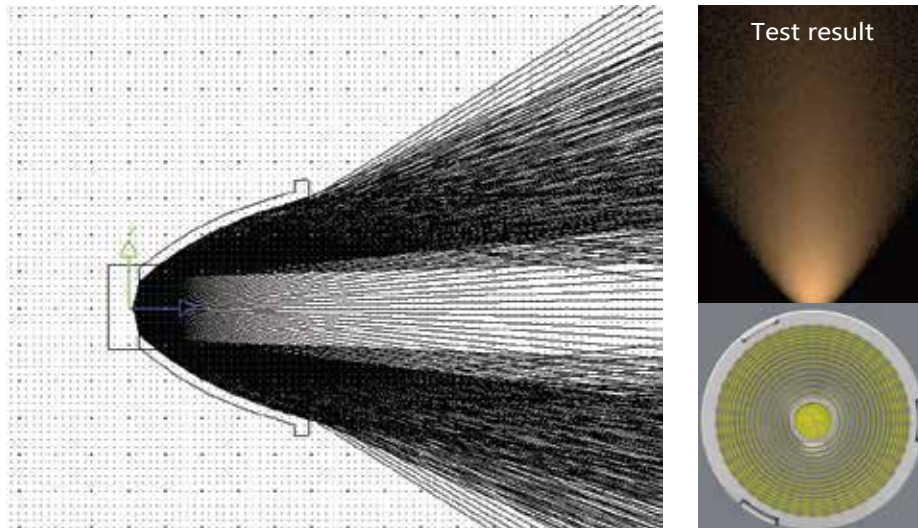
V SERIES

A reflector with anti-glare effect



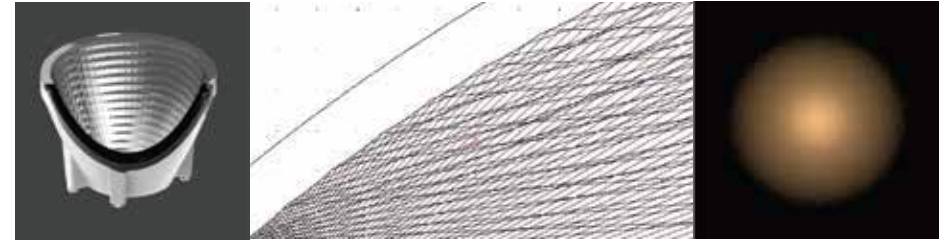
Distribute lights appropriately

In order to uniform the wall-washing lights without delamination, for reflectors of different diameters, it's necessary to accurate the reflector's height, distribute the lights appropriately, and control the lights on the reflecting surface precisely. .



Light spot uniformity

On the basis of the reasonable distribution of the middle light and the light of the reflective surface, coupled with the reflective surface of the scaled surface differential structure, the light spot becomes more soft, and at the same time, it can be accurately controlled on the light of the reflective surface to avoid the occurrence of stratification. Dark ring and other



Spot contrast

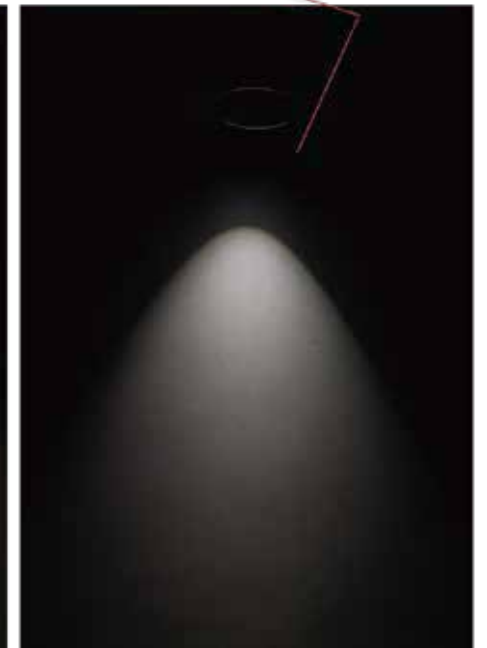
Common reflector

The transition between the main spot and the side spot is uneven and there is a dark areas



HercuLux V series

The transition between the main spot and the side spot is uniform, no dark areas, and the edges are cut off



V SERIES



V 25@17

φ: 25mm H: 17mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



V 30@19

φ: 30mm H: 19mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



V 50@36

φ: 50mm H: 36mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



V 35@23

φ: 35mm H: 23mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



V 45@34

φ: 45mm H: 34mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



V 55@36

φ: 55mm H: 36mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



V 62@41

φ: 62mm H: 41mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%

V SERIES



V 68@45

φ: 68mm H: 45mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



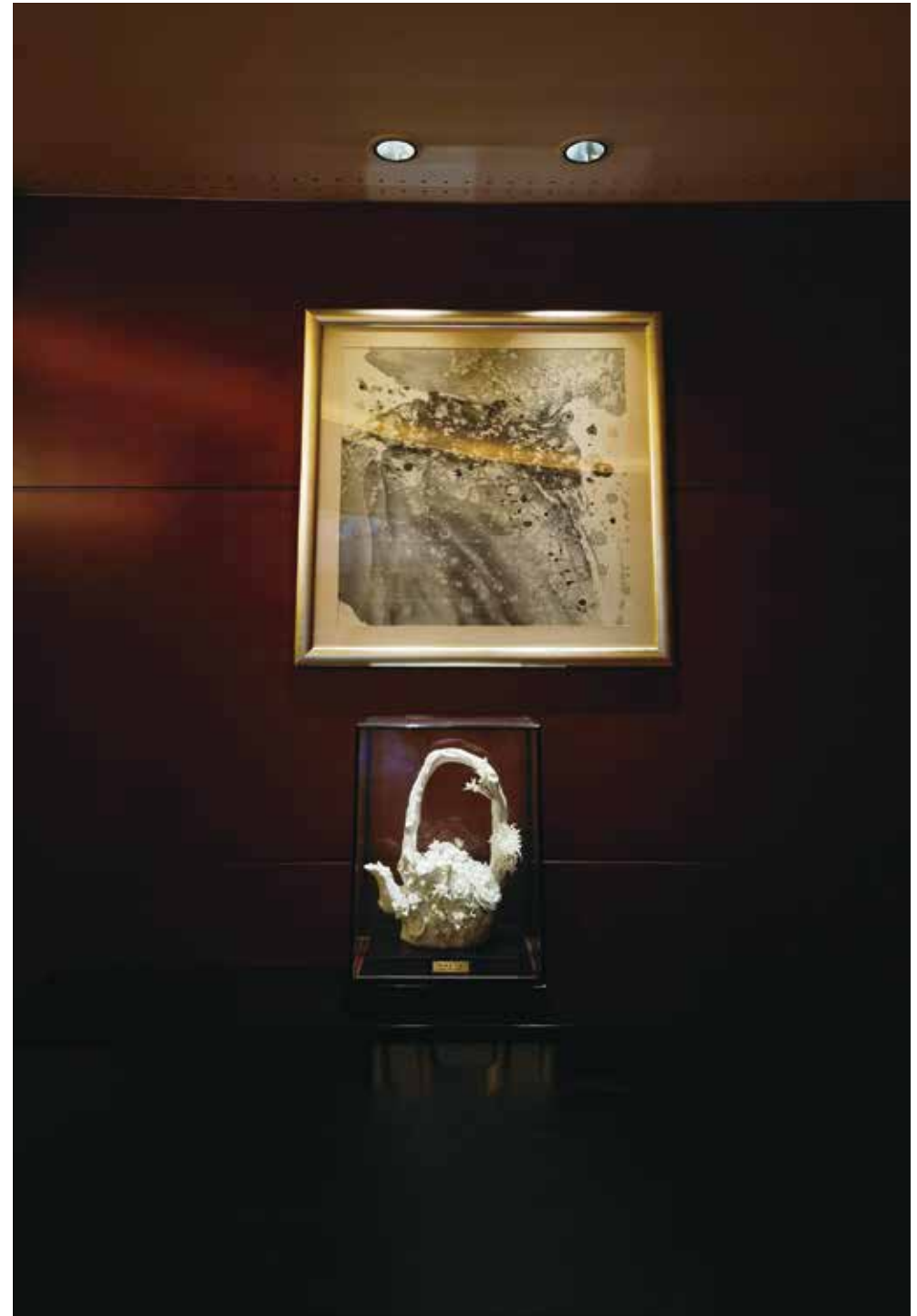
V 75@47

φ: 75mm H: 47mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



V 83@60

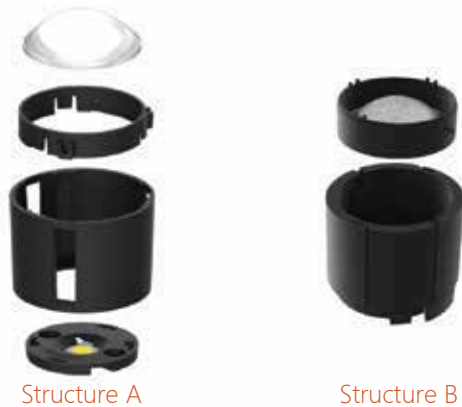
φ: 83mm H: 60mm
Material: Vaccum Aluminum Plating PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



ZOOM

The main zoom product in the Kirin Optical Platform, zoom without changing sizes

The zoom module is composed of a lens, a lens holder, and a fixed holder, wherein the lens holder drives the lens to move back and forth in the fixed holder to realize the change of the focal length of the lens relative to the position of the LED, thereby realizing the change of the angle. In the zoom module development plan, the outer diameter is consistent with other dimensions of the Kirin Optical Platform. The total planned outer diameters are 30, 35, 45, 50, 55, 62, 75.



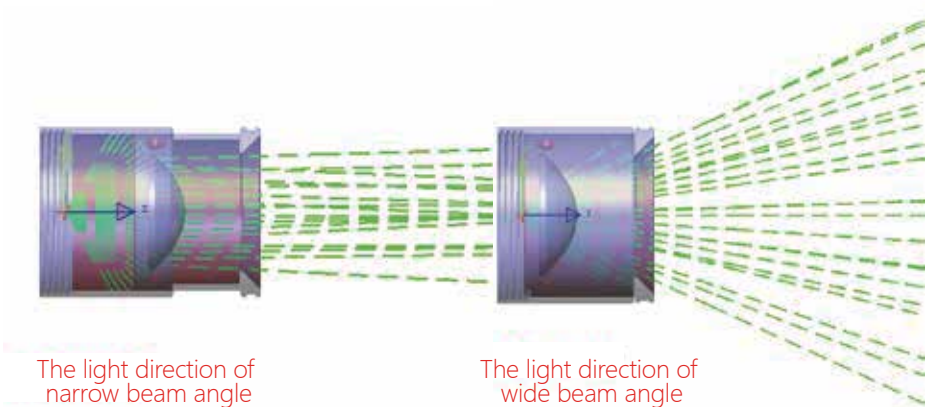
Easy install

After the customer gets the zoom module, they only need to add a zoom connection structure and fix it on the lens holder with screws, that is, the module can be rotated on the Kirin Optical Platform holder, and the front part of the lamp can be completed by adding the lamp shell, and the structure is simple.



Fermat microstructure design

The convex lens is partially designed with Fermat microstructure, which makes the overall light spot soft and cut off, and the transition light spot is more natural.

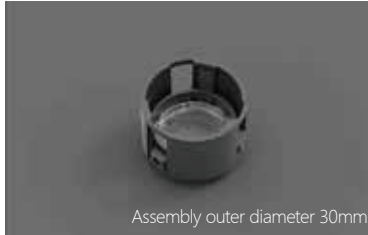


Anti-glare effect

The zoom module has an anti-glare angle of 38° itself, and the anti-glare angle remains unchanged during the entire zooming process, so that the zoom module can achieve excellent anti-glare effect at all angles. The following pictures are the real shot effect of the small, medium and large angle.

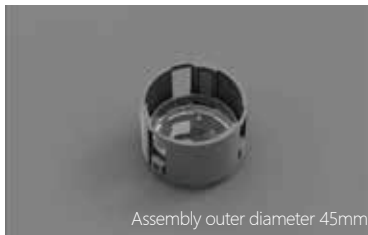


ZOOM



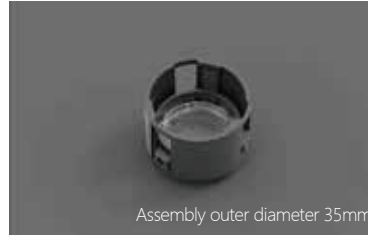
ZOOM 22@06

φ: 22mm H: 6mm
Material: PC
FWHM: 10°~45°
Efficiency: /



ZOOM 37@12

φ: 37mm H: 12mm
Material: PC
FWHM: 10°~45°
Efficiency: /



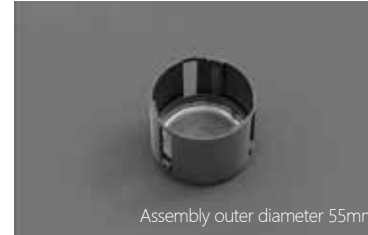
ZOOM 27@08

φ: 27mm H: 8mm
Material: PC
FWHM: 10°~45°
Efficiency: /



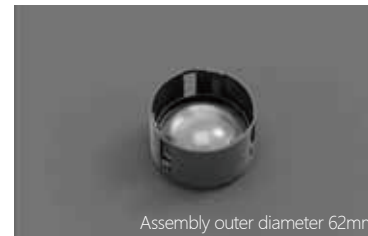
ZOOM 42@13

φ: 42mm H: 13mm
Material: PC
FWHM: 10°~45°
Efficiency: /



ZOOM 47@15

φ: 47mm H: 15mm
Material: PC
FWHM: 10°~45°
Efficiency: /



ZOOM 54@16

φ: 54mm H: 16mm
Material: PC
FWHM: 10°~45°
Efficiency: /



ZOOM 65@19

φ: 65mm H: 19mm
Material: PC
FWHM: 10°~45°
Efficiency: /

MAVIC & MAVIC PRO

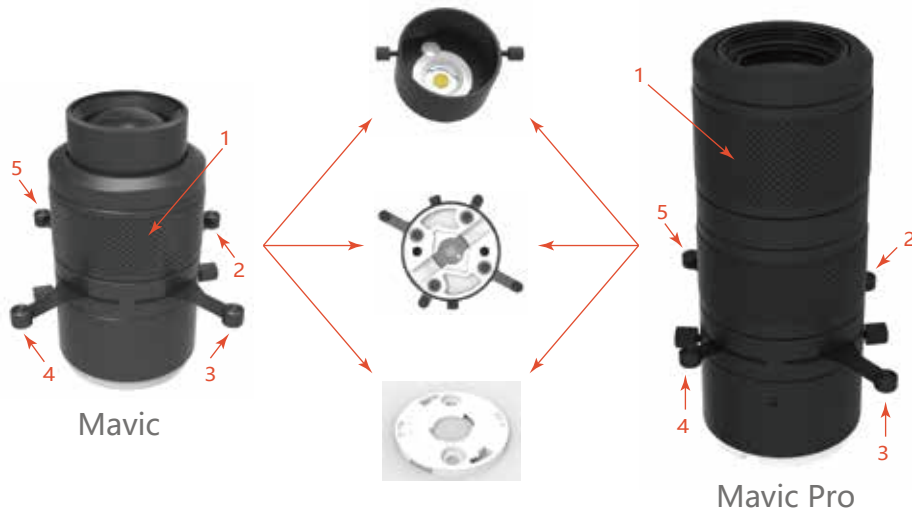
A lens with ultra small size and clean light spot



Mavic

Mavic Pro

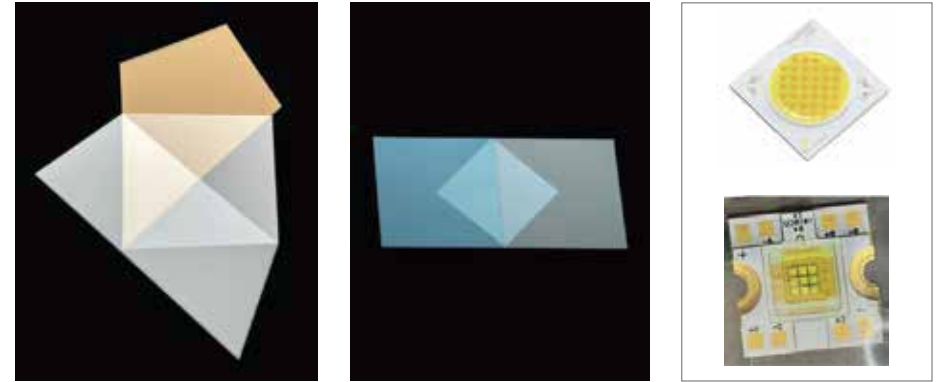
Same base, consistent with the screw hole position of the Qilin platform D35 light source bracket.



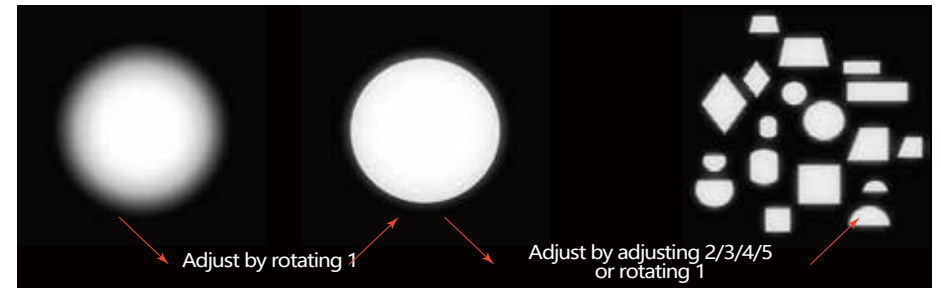
Mavic

Mavic Pro

Suitable for monochrome and bicolor light sources smaller than 6mm.



Can cut any shape and rotate 360 degrees.



High precision, showcasing more details.



MAVIC & MAVIC PRO

Easy assembly and strong compatibility

Step 1: Unscrew the screws and replace the conventional light source bracket 6.

Step 2: Install component 7 directly onto the light source and lock the screws.

Step 3: Install component 8 onto component 7, with the screws on the side of the screws.

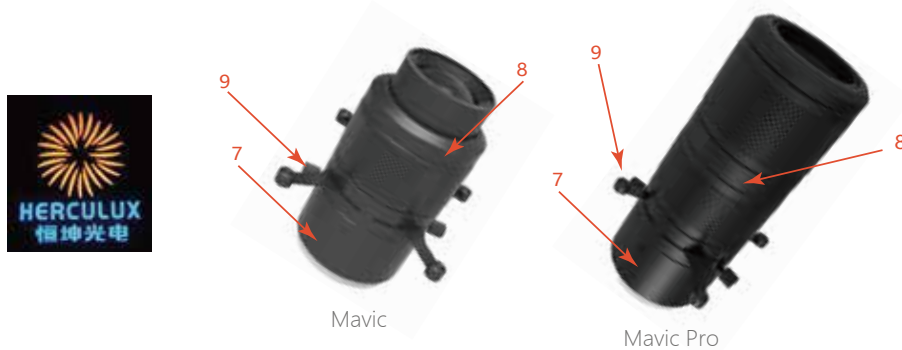


Mavic

Mavic Pro

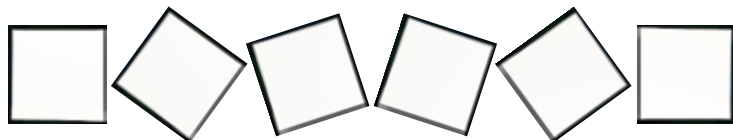
The lens can rotate 360 degrees and can be used for logos

Loosen the hand screws 9 on both sides, and the lamp 8 can rotate 360° around accessory 7, making it flexible and adaptable to the needs of multiple views and angles. It can also be used for logo lights, and the logo sheet needs to be customized separately.

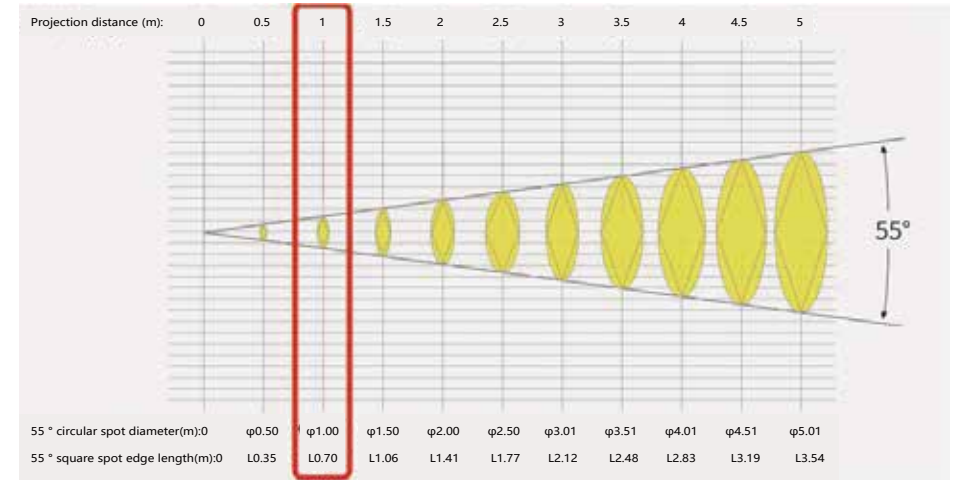


Mavic

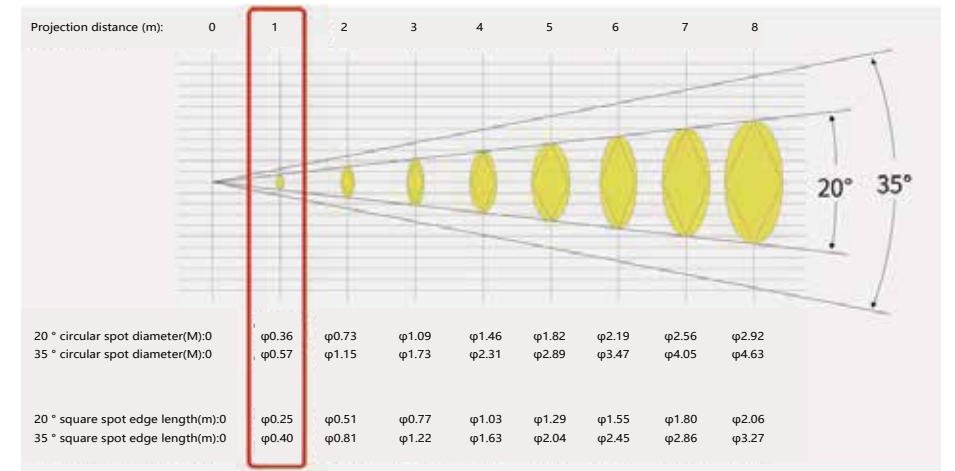
Mavic Pro



Differences: Different projection ratios



Mavic : Circular spot diameter at 1 meter: 1 meter



Mavic Pro : Spot diameter at 1 meter: 0.36-0.57 meters.

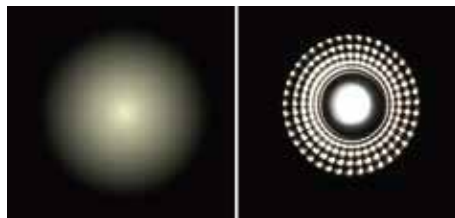
The spot size of Mavic Pro is adjustable

KA PRO SERIES

The KA Pro is a major upgrade based on Calculus technology. Compared to the KA series, the KA pro offers a significant increase in main center light intensity and efficiency.



KA Pro Product Features



- ✓ Calculus technology with uniform spot and cut-off
- ✓ High light intensity in the main center
- ✓ Higher light efficiency
- ✓ Superior color mixing ability
- ✓ Perfectly adapted to Kirin Optical Platform

Color mixing ability:

The reflective surface adopts calculus technology, so that the lens can match with CCT changing COB, and the spot is more uniform.

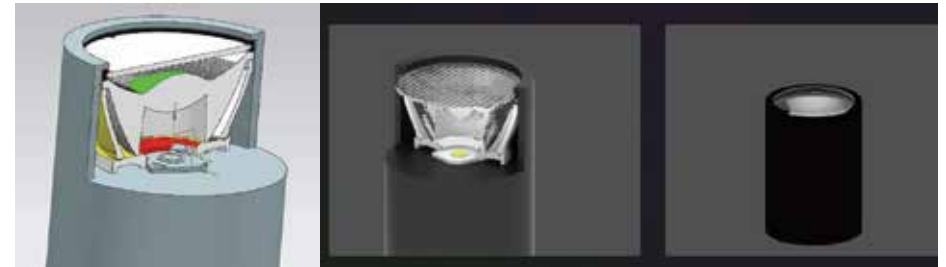


Test Situation

Series	Diameter	Height	Materials	Angle	K-value	Efficiency
KA-Pro series	50	24	PMMA	24°	5.3	93.7%
KA series				24°	4.6	92.8%
KA-Pro series				36°	3.0	94.3%
KA series				36°	2.5	91.3%

Matching filter

KA PRO series, matched with different variable filter to realize different lighting effects, single asymmetric, double asymmetric, linear, wall wash, transparent filter. Track light + wall washer, suitable for track light fixtures, no need to add deeper light hood.



Comparison Application

Luminaire spacing	1M	1M	1M
Distance from wall	1M	1M	1M
Wall height	3.6M	3.6M	3.6M
Base lens	12°	24°	36°
Luminaire Offset Angle	35	35	35
Light distribution curve			

KA PRO SERIES



KA PRO 35@12

φ: 35mm H: 12mm
Material: PMMA
FWHM: 15°/60° (24°/36°developing)
Efficiency: 92%



KA PRO 50@16

φ: 50mm H: 16mm
Material: PMMA
FWHM: 15°/60° (24°/36°developing)
Efficiency: 92%



KA PRO 40@13

φ: 40mm H: 13mm
Material: PMMA
FWHM: 15°/24°/36°/60°
Efficiency: 92%



KA Pro 55@21

φ: 55mm H: 21mm
Material: PMMA
FWHM: 15°/24°/36°/60°
Efficiency: 92%



KA PRO 45@16

φ: 45mm H: 16mm
Material: PMMA
FWHM: 15°/60° (24°/36°developing)
Efficiency: 92%



KA PRO 62@24

φ: 62mm H: 24mm
Material: PMMA
FWHM : 15°/24°/36°/60°
Efficiency: 92%

KA PRO SERIES



KA PRO 68@25

φ: 68mm H: 25mm
Material: PMMA
FWHM: 15°/60° (24°/36°developing)
Efficiency: 92%



KA PRO 75@30

φ: 75mm H: 30mm
Material: PMMA
FWHM: 15°/60° (24°/36°developing)
Efficiency: 92%



KA PRO 83@32

φ: 83mm H: 32 mm
Material: PMMA
FWHM: 15°/60° (24°/36°developing)
Efficiency: 92%



MOONY Pro SERIES

Hard grazing wall

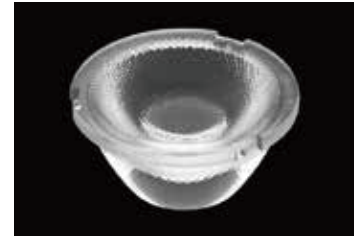
Grazing wall as a unique category (no sub-light spots, clear light and shadow, sharp spots, layered) gives users a unique experience and is loved by many users. Some users prefer hard grazing wall, but others favor soft grazing wall.

The Moony Pro Series (soft grazing wall) and Peak Pro Series (hard grazing wall) are great additions to the Kirin Optical platform, offering more beautiful designs and personalized needs for the field of home lighting without main lights.



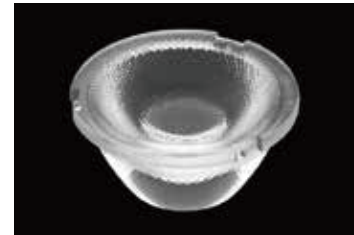
COB Compatible

Both regular color temperatures and dual-color temperature light sources on the market can be compatible, easily controlled.



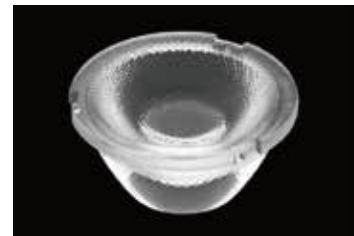
MOONY PRO 28@13

φ: 28mm H: 13mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



MOONY PRO 35@18

φ: 35mm H: 18mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



MOONY PRO 45@21

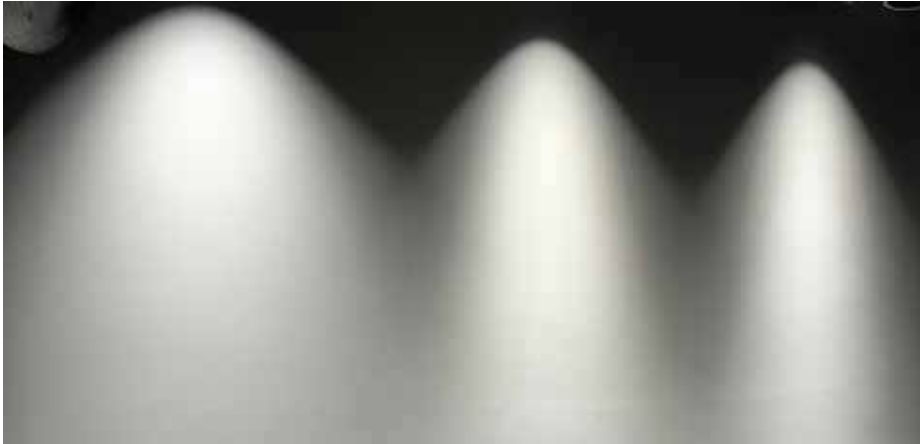
φ: 45mm H: 21mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%

PEAK PRO SERIES

Soft grazing wall

Grazing wall as a unique category (no sub-light spots, clear light and shadow, sharp spots, layered) gives users a unique experience and is loved by many users. Some users prefer hard grazing wall, but others favor soft grazing wall.

The Moony Pro Series (soft grazing wall) and Peak Pro Series (hard grazing wall) are great additions to the Kirin Optical platform, offering more beautiful designs and personalized needs for the field of home lighting without main lights.



COB Compatible

Both regular color temperatures and dual-color temperature light sources on the market can be compatible, easily controlled.



PEAK PRO 28@14

φ: 28mm H: 14mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



PEAK PRO 35@17

φ: 35mm H: 17mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%



PEAK PRO 45@21

φ: 45mm H: 21mm
Material: PC
FWHM: 15°/24°/36°/50°
Efficiency: 88%

SOFTY SERIES

Advantages of silicone lens



- ✓ High Temp, 200°C up can be used in high-power lamps.
- ✓ Zero InnerStress, completely prevent stress cracking.
- ✓ High Molding Accuracy, molecular-level replication between the silicone and the mold, surface precision can achieve μ -level.
- ✓ High toughness, the material is soft and elastic, making it easy to form and unmold complex structures.
- ✓ High weatherability, HercuLux self-innovate silicon, high aging resistance, yellowing resistance and optical stability, long service life.
- ✓ Recyclable, liquid silicone can be recycled into silicone oil, environmentally friendly.
- ✓ Same dimensions as all Kirin platform, and can be directly interchanged.

Long service life.: In the process of synthesizing silica gel, we strictly control the content of chloride ions in the silicone resin, controlling it to be less than 1 ppm, and allow the platinum salt initiator to fully react during the synthesis. So the degree of yellowing of our silicone lenses is almost negligible!

How to verify the yellowing resistance of silicone lens: leave it at 150°C for more than 240 hours to verify its anti-yellowing performance.

Comparison of HercuLux silicone lens and other brands after being placed in a 150°C environment for 500 hours.



Other bands

HercuLux Softy



SOFTY 35@16

φ : 35mm H: 16mm

材料: PMMA

角度: 24° (15°/36°/60°developing)

效率: 94%



SOFTY 45@21

φ : 45mm H: 21mm

材料: PMMA

角度: 24°/36° (15°/60°developing)

效率: 94%



SOFTY 62@30

φ : 62mm H: 30mm

材料: PMMA

角度: 24° (15°/36°/60°developing)

效率: 94%



SOFTY 83@40

φ : 83mm H: 40mm

材料: PMMA

角度: 24° (15°/36°/60°developing)

效率: 94%

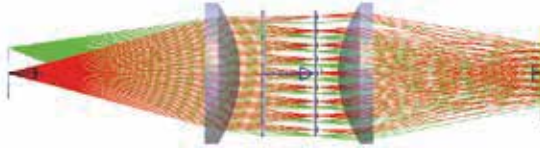
Male moulded products are under continuous development and can be customised.

FIREFLY-KIRIN SERIES

Development Background

At present, in commercial lighting and hotel lighting, there are very few optics with good color mixing, especially nowadays, it is difficult to guarantee the spot quality after the color COB comes out, and secondly, the spot quality is not good, and it's very harsh.

Firefly-Kirin series, using Herculux patented "Light cone correction technology" technology. Comply with Zhaga standard, super color mixing ability.



Light cone correction technology, The design concept comes from imaging optics, which combines imaging optics with energy optics.
To achieve the following two objectives:
1: Uniform irradiance on the exit surface.
2: Expanding LEDs from point light sources to surface light sources.

Conforms to Zhaga standards:

From the time of project approval, we require the design of the whole series of products to meet the pin to pin replacement with Kirin optical platform products, fully in line with Zhaga standards.



Superb color mixing ability and ultra-high center light intensity:

Herculux's patented "light cone correction technology" achieves excellent color uniformity, high illuminance uniformity on the lens surface to achieve high CBCP, excellent light distribution angle and ultra-low glare performance.



Parameter comparison:

Test conditions	COB: 6mm Tunable CCT COB			Power:7.1W		
Product series	Angle(50%)	Angle(10%)	LM	CBCP	K value	Efficiency
Firefly-Kirin $\phi 35-24^\circ$	23.9	42.7	564LM	2739CD	4.85	86%
Other bands $\phi 35-24^\circ$	24.9	44.4	552LM	2251CD	4.07	84%
Firefly-Kirin $\phi 35-36^\circ$	35.7	57	554LM	1428CD	2.57	85%
Other bands $\phi 35-36^\circ$	35.6	60.7	541LM	1236CD	2.28	83%
Firefly-Kirin $\phi 35-60^\circ$	59.8	78	558LM	596CD	1	85%
Other bands $\phi 35-60^\circ$	52.9	93.6	483LM	518.8CD	1.07	74%

Spot Comparison:



FIREFLY-KIRIN SERIES



FIREFLY-KIRIN 28@19

φ: 28mm H: 19mm
Material: PMMA+PC Electroplating
FWHM: (24°/36°/60°developing)
效率: 92%



FIREFLY-KIRIN 30@17

φ: 30mm H: 17mm
Material: PMMA+PC Electroplating
FWHM: 24° (36°/60°developing)
效率: 92%



FIREFLY-KIRIN 35@25

φ: 35mm H: 25mm
Material: PMMA+PC Electroplating
FWHM: 24°/36°/60°
效率: 92%



FIREFLY-KIRIN 40@30

φ: 40mm H: 30mm
Material: PMMA+PC Electroplating
FWHM: 24°/36°/60°
效率: 92%



FIREFLY-KIRIN 45@34

φ: 45mm H: 34mm
Material: PMMA+PC Electroplating
FWHM: 24°/36°/60°
效率: 92%



FIREFLY-KIRIN 50@38

φ: 50mm H: 38mm
Material: PMMA+PC Electroplating
FWHM: 24°/36°/60°
效率: 92%



FIREFLY-KIRIN 55@39

φ: 55mm H: 39mm
Material: PMMA+PC Electroplating
FWHM: 24°/36°/60°
效率: 92%

COB HOLDER

Can buckle with the lens holder; Same COB holder can match different COB Substrate size and COB brand.

	
D35 COB HOLDER	
Outer diameter	35mm
Hight	3.5mm
Screw holde distance	25mm
Type	18
Matchable potics	
Series	Optical diameter
Dark series	D25/D30/D35/D45/D50/D55/D62/D68
Glareless series	D25/D30/D35/D45/D50/D55/D62/D68
Gemini series	D25/D30/D35/D45/D50/D55/D62/D68
Moony series	D25/D30/D35/D45/D50/D55/D62/D68
Peak series	D30/D35/D45/D50/D55/D62/D68
Filmy series	D30/D35/D45/D50/D55/D62/D68
V series	D30/D35/D45/D50/D55/D62/D68
Rainbow series	D35/D45/D50/D55/D62/D68
Zoom Module	D35/D45/D50

Meet the assembly standards of ZHAGA. Interchangeable with solder free brackets such as BJB,with consistent outer diameter,screw positioning,and rotating interface.

			
D24 COB HOLDER		D50 COB HODER	
Outer diameter	24mm	Optical diameter	50mm
Hight	3.4mm	Hight	5.2mm
Screw holde distance	19mm	Screw holde distance	35mm
Type	6	Type	13
Matchable potics		Matchable potics	
Series	Optical diameter	Series	Optical diameter
Dark series	D25/D30/D35	Dark series	D75/D83
Glareless series	D25/D30/D35	Glareless series	D75/D83
Gemini series	D25/D30/D35	Gemini series	D75/D83
Moony series	D25/D30/D35	Moony series	D75/D83
Peak series	D25/D30/D35	Peak series	D75/D83
Filmy series	D30	Filmy series	D75/D83
V series	D35	V series	D75/D83
		Rainbow series	D75/D83
		Zoom Module	D75/D83

LENS HOLDER

Twisting method, can be rotated with BJB solderless holder and other **ZHAGA** solderless holders. Three colours, different colours, different effects.

Size: $\phi 45/\phi 50/\phi 55/\phi 62/\phi 68/\phi 75$



Install the lens at the buckle position

Rotate and fix it at the buckle position

Test Comparison:

Test condition: $\phi 45$; Test COB: $\phi 9$

	Black	White	Crystal	Black	White	Crystal	Black	White	Crystal	Black	White	Crystal	Black	White	Crystal
Standard angle(°)	10			15			24			36			50		
Measured angle(°)	18.1	18.1	17.9	18.8	18.7	18.4	23.3	23.2	22.9	35.9	35.9	35.4	51.9	51	50.4
K value(cd/lm)	8.04	6.97	7.01	6.68	6.25	6.26	5.35	5.09	5.18	2.74	2.62	2.69	1.36	1.37	1.38
Efficiency	63.85%	74.33%	73.13%	90.61%	92.59%	91.37%	90.61%	95.63%	94.81%	88.71%	93.17%	92.32%	88.81%	94%	92.34%

UGR Comparison:



測試項目	測試方法	測試結果
UGR	14.4	8.5

測試項目	測試方法	測試結果
UGR	14.4	8.5

測試項目	測試方法	測試結果
UGR	14.4	8.5

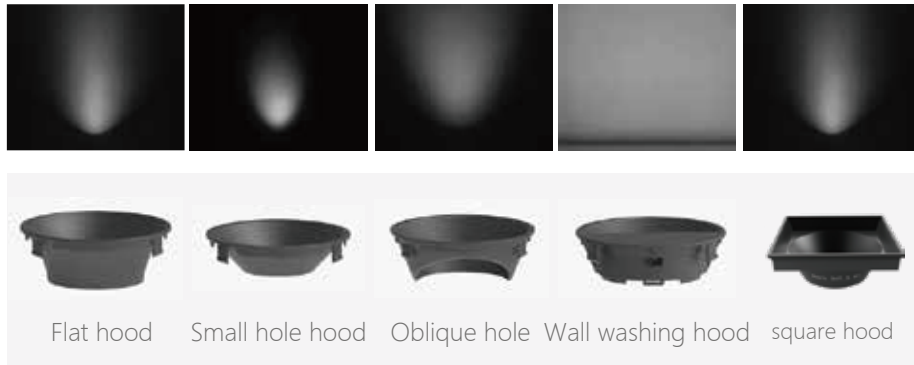
Glare Comparison:



LIGHT HOOD

Various types are choosable

Small hole hood, oblique hole hood, flat hood, wall washing hood Various forms of hoods, switch at will. The installation method is the same, can be switched at will.



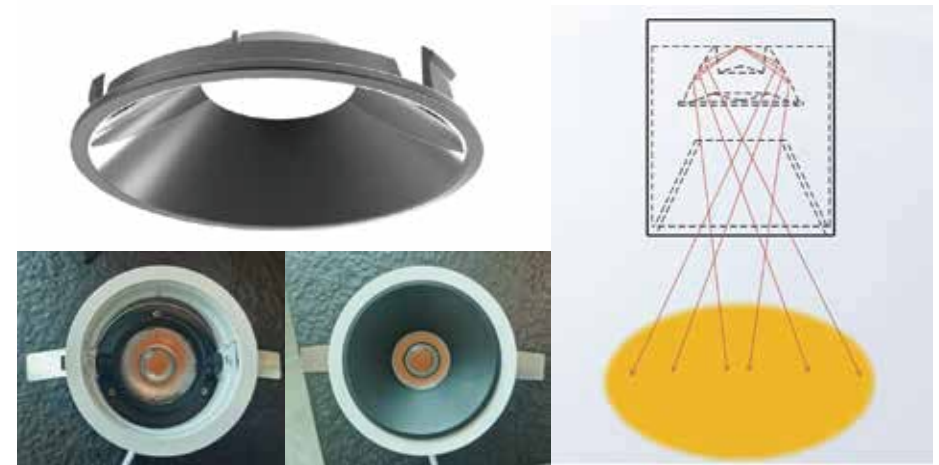
Multiple colors available and customizable

There are currently four colors available: bright black, bright gold, bright silver, and matte black. Customization of other colors is also acceptable.



Small hole hood

The cross-light design principle makes the light output hole of the lamp smaller than the optical diameter. With the small hole hood, it can be hidden deeper, the glare can be better controlled, and the optical efficiency has little effect, and the light spot effect can be guaranteed. The small hole hood perfectly solves the phenomenon of butterfly spots when deflecting the wall and washing the wall.



Types & Color	Size	Distance between light-hood & lens	Small hole Diameter	Adaptable lens	Adaptable filter	
Oblique: Matte Black/ Bright Black/ Bright Gold/ Bright Silver	D: 33.5mm H: 10.68mm	h: 5.2mm	/	Dark25/Gemini25/ Moony25/Peak25	Single asymmetric/ Double asymmetric/ Linear spot/ Matte filter	
	D: 50mm H: 9.65mm	h: 12mm	/	Dark30/Gemini30/ Moony30/Peak30		
	D: 50mm H: 17.89mm	h: 5.2mm	/	Dark35/Gemini35/ Moony35/Peak35		
	D: 68mm H: 23.45mm	h: 5mm	/	Dark35/Gemini35/ Moony35/Peak35		
	D: 68mm H: 25mm	h: 5.17mm	/	Dark45/Gemini45/ Moony45/Peak45		
	D: 70mm H: 28mm	h: 5.2mm	/	Dark50/Gemini50/ Moony50/Peak50		
	D: 100mm H: 36.3mm	h: 7mm	/	Dark55/Gemini55/ Moony55/Peak55		
	D: 100mm H: 37mm	h: 8mm	/	Dark62/Gemini62/ Moony62/Peak62		
	D: 145mm H: 50.9mm	h: 8mm	/	Dark68/Gemini68/ Moony68/Peak68		
	D: 145mm H: 52.07mm	h: 10mm	/	Dark75/Gemini75/ Moony75/Peak75		
	Small hole: Matte Black/ Bright Black/ Bright Gold/ Bright Silver	D: 68mm H: 20.77mm	h: 9mm	d: 23mm		Dark35/Gemini35/ Moony35/Peak35
		D: 68mm H: 17.77mm	h: 12.4mm	d: 29mm		Dark45/Gemini45/ Moony45/Peak45

LIGHT HOOD

Peak series lens & Flat hood

Kirin Optical Platform Peak series lens with flat hood Wall washing is clean, without delamination, and the light spot is uniform.



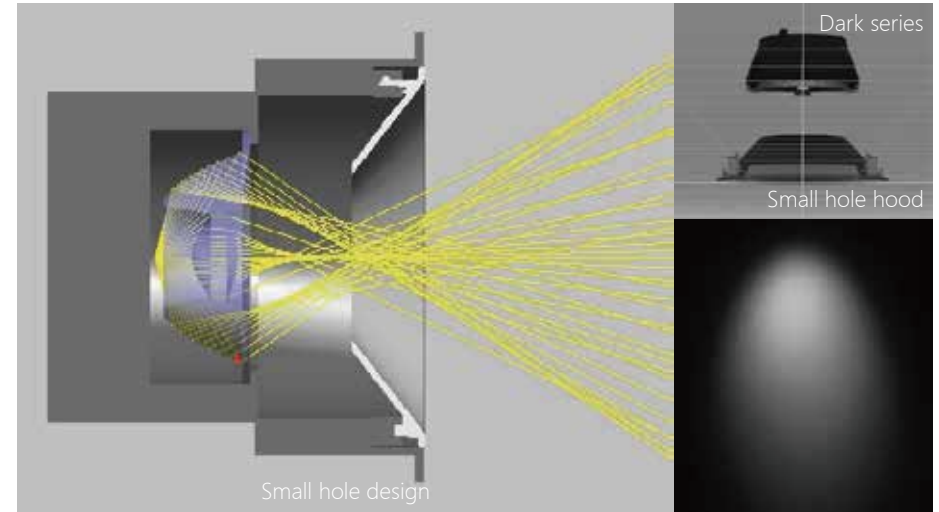
Flat hood matching information sheet



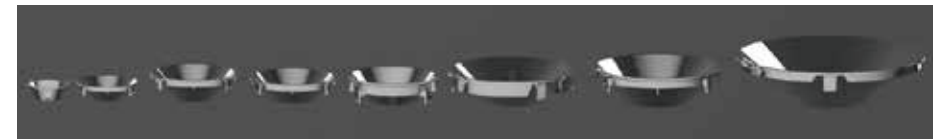
MN	1.07.23184	1.07.23141	1.07.23142	1.07.23190	1.07.23161	1.07.23217	1.07.23083
Flat Hood Diameter	33.5	50	50	50	68	68	68
Peak Diameter	PEAK 20@10	PEAK 25@13	PEAR 30@15	PEAK 35@16		PEAK 40@19	PEAK 45@21
15°				1.01.23222			1.01.23307(D6)
24°	1.01.23154	1.01.13050	1.01.13021	1.01.12962		1.01.23216	1.01.12657(D6) 1.01.23096(D9)
36°	1.01.23163	1.01.23143	1.01.23139	1.01.13016			1.01.23067(D6) 1.01.23137(D9)
50°				1.01.23212			1.01.23319(D6) 1.01.23319(D9)

Dark series lens & Small hole hood

麒麟光学平台黑光系列透镜搭配小孔防眩罩，光斑均匀，更深防眩。



Small hole hood matching information sheet

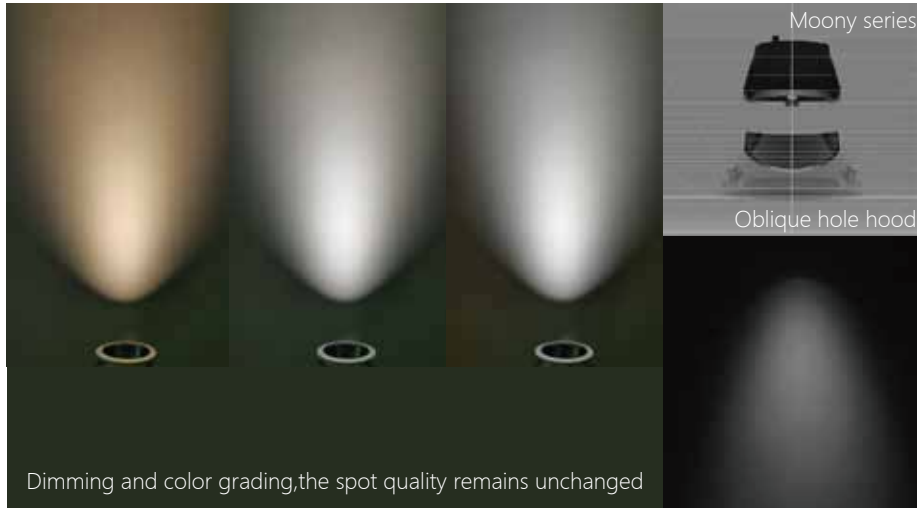


Hood Diameter	33.5	50	50	68	68	68	70	100	90	100	145
Hood MN	1.07.12752	1.07.12663	1.07.12745	1.07.02471	1.07.92058 (D6)	1.07.12764 (D9)	1.07.23079	1.07.12670	1.07.12813	1.07.12665	1.07.12731
Matching Dark Diameter	25	30	35	35	45	45	50	55	62	62	68

LIGHT HOOD

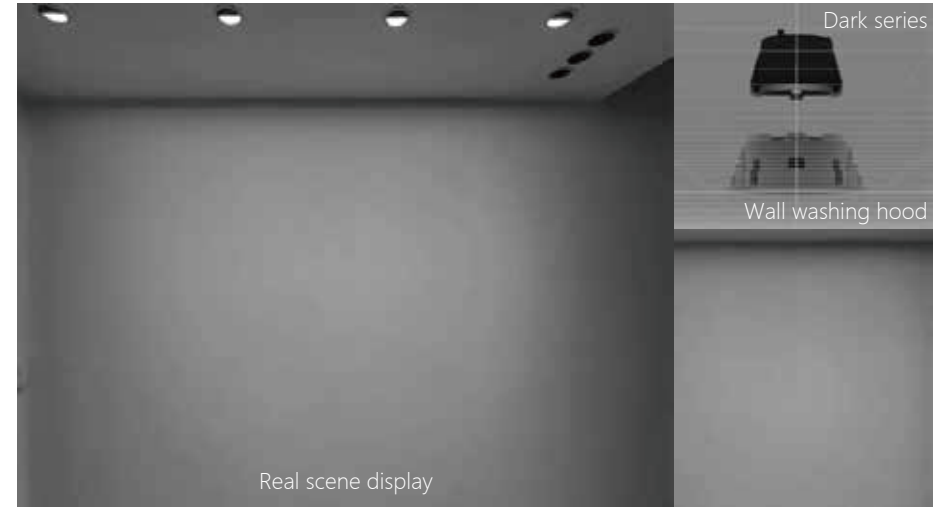
Dark/Moony & Oblique hole hood

Kirin Optical Platform Moony/Dark series lenses with oblique hole hood, The edge of the spot is cut off cleanly and the transition is even.



Dark series lens & Wall washing hood solution

Kirin Optical Platform Dark series lenses with wall washing hood, The entire wall has uniform brightness and the skyline is clear.



Oblique hole hood matching information sheet

Hood Diameter	50	68	68	70	100	100	145	145
Hood MN	1.07.92096	1.07.02440	1.07.02335	1.07.92097	1.07.92135	1.07.92104	1.07.92118	1.07.92102
Matching Dark/Moony diameter	35	35	45	50	55	62	68	75

Recommended wall washing hood solution

	35 Opening scheme	55 Opening scheme	75 Opening scheme	95 Opening scheme
Wall Washing Hood MN	1.07.23206 /1.07.23206	1.07.23295_A /1.07.23295_B	1.07.23130	1.01.23310
Recommended optics	Dark D25-15° 1.01.92131	Dark D35-15° 1.01.91997	Dark D45-15° 1.01.91887	Dark D50-15° 1.01.92006

CUSTOMIZED SOLUTIONS

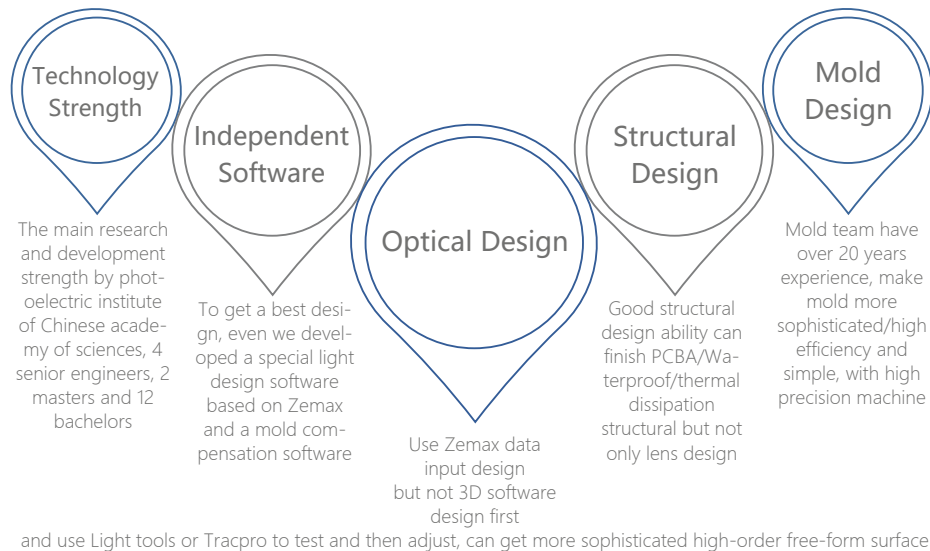
In addition to the standard mold products introduced in the catalogue, HercuLux can also provide customized solution services. With a professional design team and a complete industrial chain, tailor-made for customers, seeking the best solution for the project.

Extended Polynomial Lens

The Extended Polynomial surface shape is defined by:

$$z = \frac{cr^2}{1 + \sqrt{1 - (1+k)c^2r^2}} + \sum_{i=1}^N A_i E_i(x, y).$$

HercuLux adopts imaging optical design software: Zemax to do data input level design to achieve more accurate chip level design.



Quick response for Design: Optical design → Structural design → Optical simulation → Mold assess → Injection molding analysis.

Optical design, structural design, mold design, injection molding production, quality inspection, HercuLux has a complete industrial chain to ensure that optical products can be independently controlled in each link, so that product quality, appearance, performance and other aspects are the best state!

Custom Process

Kindly provide detail requirements:

1. Lens size requirement; 2. Optical requirement(FWHM),Target IES will be better; 3. Lens Efficiency; 4. Assembly drawing sharing; 5. LED; 6. Material: PC or PMMA; 7. Application; 8. Other special information.

Optical Design Report:

Our R&D will process to optical designing according to your optical requirement, designing in 2-5 days and we will share you the design report.

Structure Design:

If you are satisfied with the optical report, we could process to structure designing. Please kindly provide the assembly drawing, structure drawing and any file is helpful for us to design structure.

Structure Confirm:

Confirm the structure (Step file): 1. Whether the lens structure conflict with the PCB; 2. Whether the lens structure conflict with the Lamp's structure; 3. Whether the lens structure conflict with the component location; 4. etc.

Quotation:

Quotation for Mold and product: 1. It depends on the mold size and its complexity; 2. Quotation includes Test Mold fee and Final Mold fee and price for unit product. (Test Mold is not absolutely necessary, it is according to the complexity of the mold.)

Customer PO Arrangement:

After you confirm the quotation, please kindly share your PO.

PI and Payment Arrangement:

We will arrange PI and we process to payment issue. After payment is done, we will process to mold production.

Mold Production:

We need 30-35 working days to produce the mold, then will send you the samples which mold produce when the mold finished.

Confirm The Samples:

Whether the samples is same with the optical design and structure design.

Mass Production:

If the samples checking is OK, Procedure as below, 1. Your mass order; 2. Our PI arrangement; 3. Your payment arrangement; 4. Mass production.

Self-built 2000m² HercuLux park



More than 100 precision injection machines



Complete mold processing chain with a constant temp precision processing area



Self-built PC vacuum aluminum plating workshop, One spraying production line, two vacuum plating machine, 1000 level purification workshop

