

BESUN LED LIMITED

2023

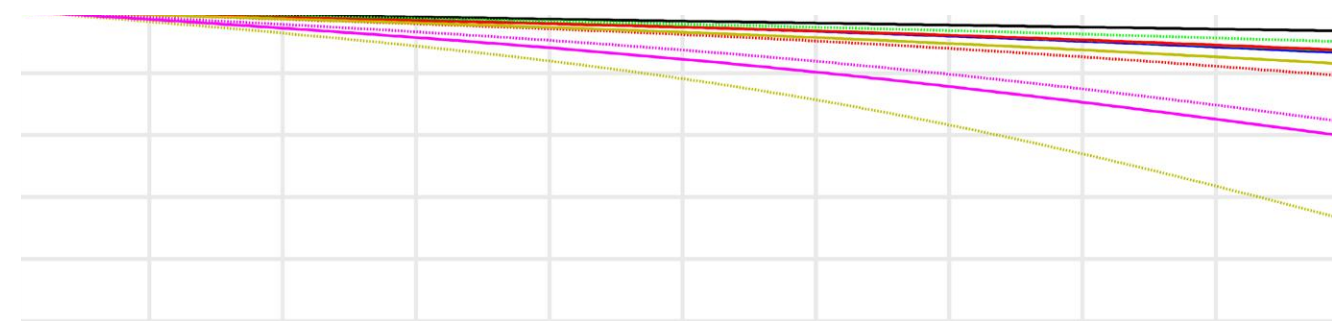
Come from BESUN, go for BEing SUN



BESUN[®] LED LIMITED
深圳市冰晟光电科技有限公司

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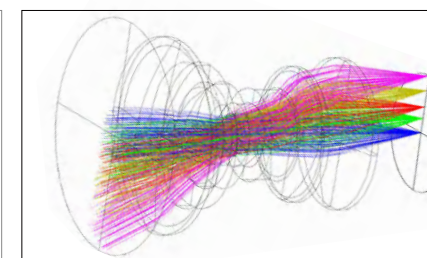
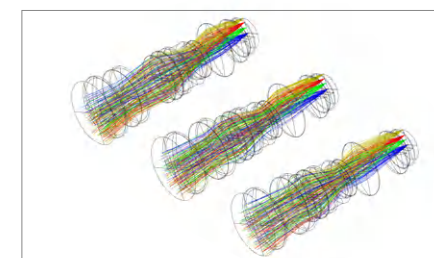


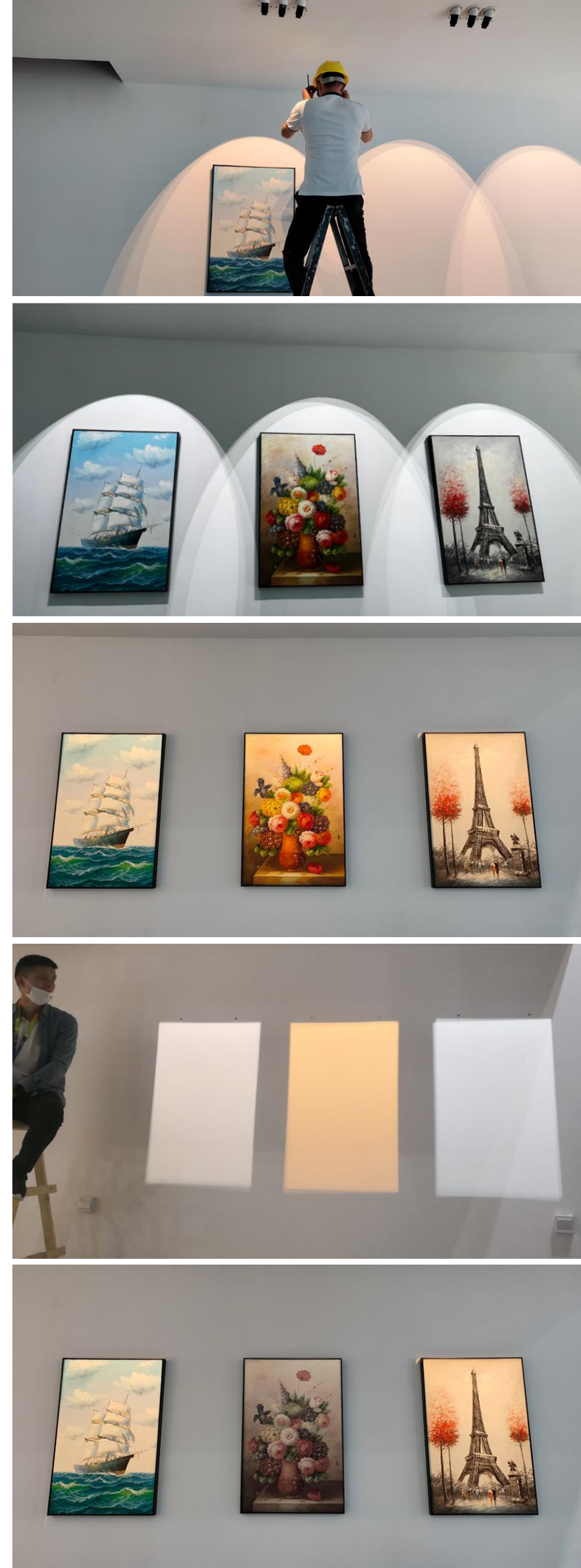
COMPANY PROFILE

As a leader in imaging optical lighting technology, BESUN LED LIMITED. is one of the earliest domestic companies focusing on the field of imaging optical lighting. With the corporate vision of "becoming the world's leading professional product and service provider in the field of imaging lighting", BESUN continues to focus on providing professional precise optical design, optical products, optical accessories, optical control and related services.

Along with the start-up development of China's LED lighting industry, BESUN LED has maintained a leading position in the Chinese market for more than 10 consecutive years. We are one of the companies with the earliest entry into the domestic imaging lighting field, the deepest technical reserves, and the most complete industrial layout. BSUN has formed a complete strategic layout of imaging optical lighting, and has R&D and manufacturing capabilities from core technology research and development such as algorithms, design, and materials to various terminal applications. With rich practical experience, BESUN LED has taken the lead in realizing the application of imaging optical systems in multiple industries or fields, such as imaging lighting optical, machine vision, military industry, lithography machine optical, etc., and has developed a large number of imaging lighting fields for more than ten years. Be the first to witness, promote and lead the development of China's imaging lighting market.

Based on the foundation of years of global development, BESUN LED has formed a global business layout and service capabilities, has allocated global resources with a global perspective, and built domestic and foreign product research and development centers including China, the United States, Russia, Germany, Italy, and South Korea. , production and marketing system, with more than 10 international patents, technology covers design, optical, material science, high-precision machining, software and multi-system combination of hardware, software and various algorithms, products are exported to more than 90 countries around the world and regions, laying a solid foundation for promoting the development of global imaging optical lighting.





KP series magnetic contour spotlight



KP series Magnetic contour spotlight (M1003K) has equipped with our newly developed 55° fixed-focus wide-angle optical lens and 15~36 ° constant zoom optical lens, compatible with ϕ 38mm mini size radiator and magnetic track adapter. Ultra-small size, excellent performance.

- Ultra-high-definition projection.
- Millimeter-level precise Spot shaping, uniform illumination.
- Fixed-focus / zoom lens can be switched arbitrarily (It truly integrates fixed-focus optics and zoom optics mutually. Maximize the optical properties of fixed-focus and zoom lens).

Applications

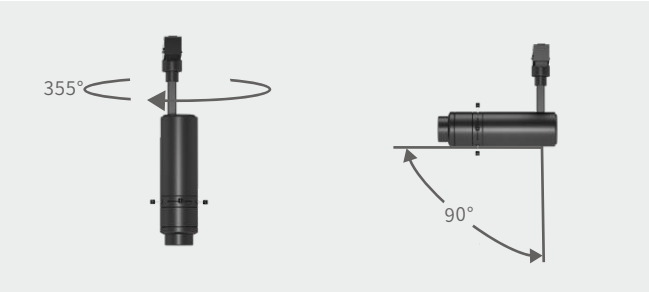
Museum, art gallery, home decoration, hotel, restaurant, machine vision lighting and other creative commercial lighting.

Dimming and CCT changing via Smart Control

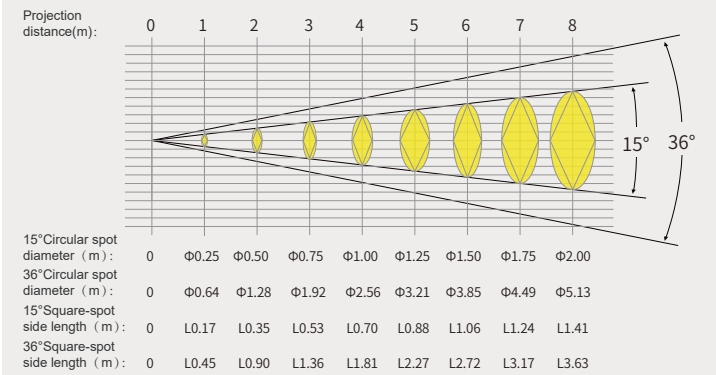
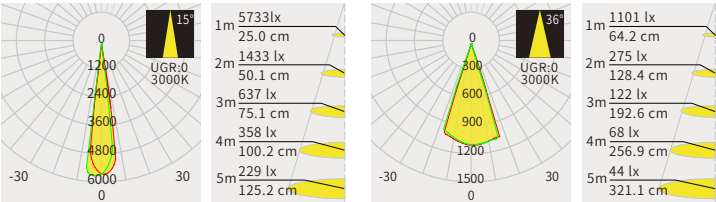
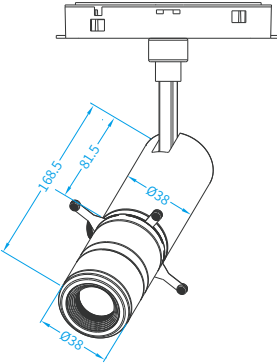
Single / tunnable white via MIJIA / TUYA Bluetooth / TMALL / TIGIDIGITAL / DALI / ORVIBO Zigbee / TUYA Zigbee / 1-10V dim, etc.



KP series magnetic contour spotlight has the features of flexible rotation and precisely projection, supporting vertical 90° rotation and horizontal 355° rotation. (As shown below)

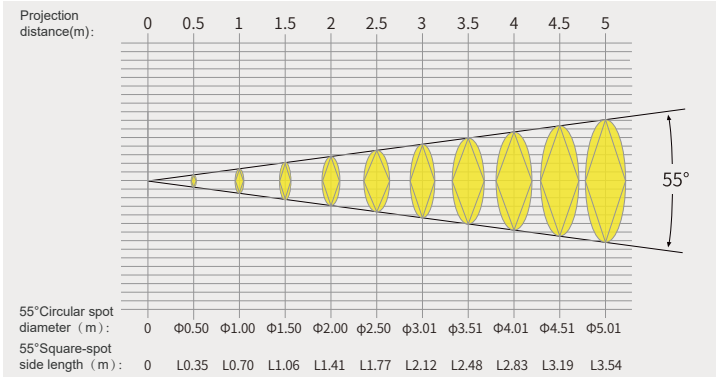
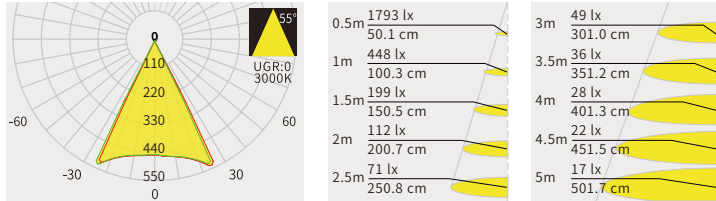
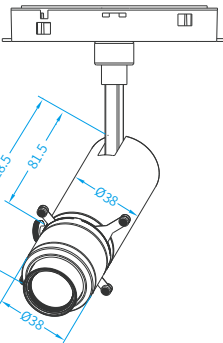


M1003K-3836B



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
M1003K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	15°~36°	nonsupport	0.35Kg	Black/white

M1003K-3855



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
M1003K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	0.29Kg	Black/white

KP series stretching embedded contour spotlight



KP series stretching embedded contour spotlight has equipped with our latest developed 55 ° fixed focus wide-angle optical lens and 15 ~ 36 ° constant zoom optical lens. compatible with φ 38mm mini size radiator and 70mm stretching embedded device. Ultra-small size, excellent performance.

- Ultra-high-definition projection.
- Millimeter-level precise Spot shaping, uniform illumination.
- Fixed-focus / zoom lens can be switched arbitrarily (It truly integrates fixed-focus optics and zoom optics mutually. Maximize the optical properties of fixed-focus and zoom lens).

Applications

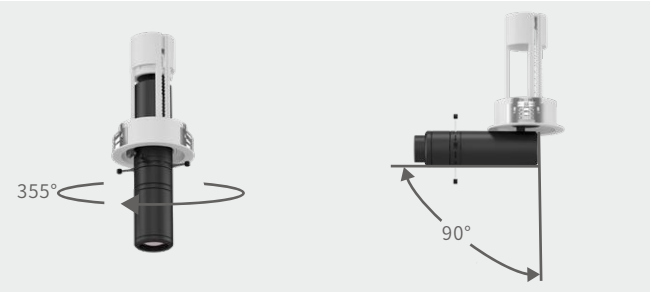
Museum, art gallery, home decoration, hotel, restaurant, machine vision lighting and other creative commercial lighting.

Dimming and CCT changing via Smart Control

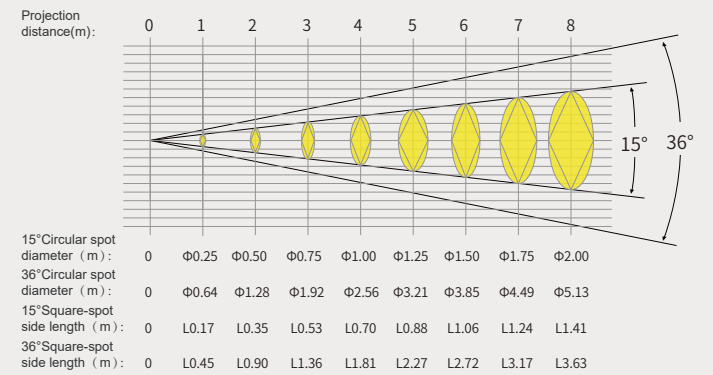
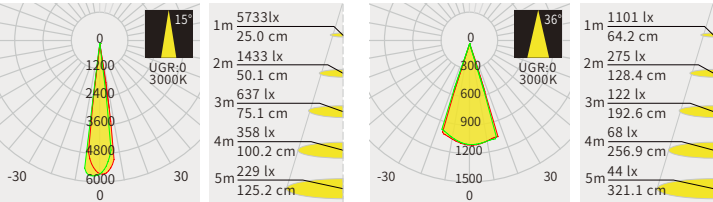
Single / tunnable white via MIJIA / TUYA Bluetooth / TMALL / TIGIDIGITAL / DALI / ORVIBO Zigbee / TUYA Zigbee / 1-10V dim, etc.



KP series stretching embedded contour spotlight has the features of flexible rotation and precisely projection, supporting vertical 90° rotation and horizontal 355° rotation. (As shown below)

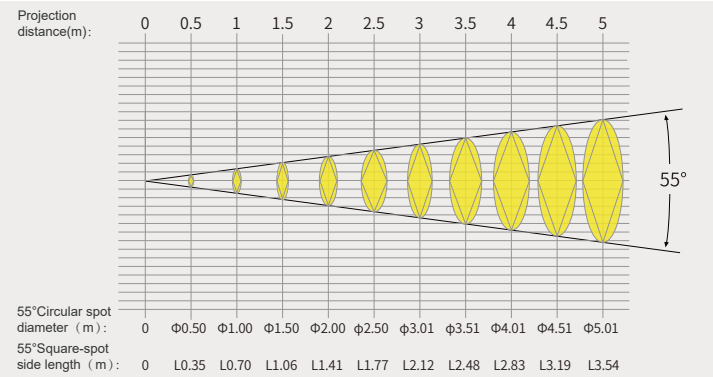
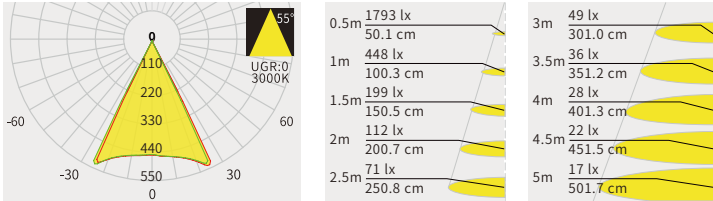
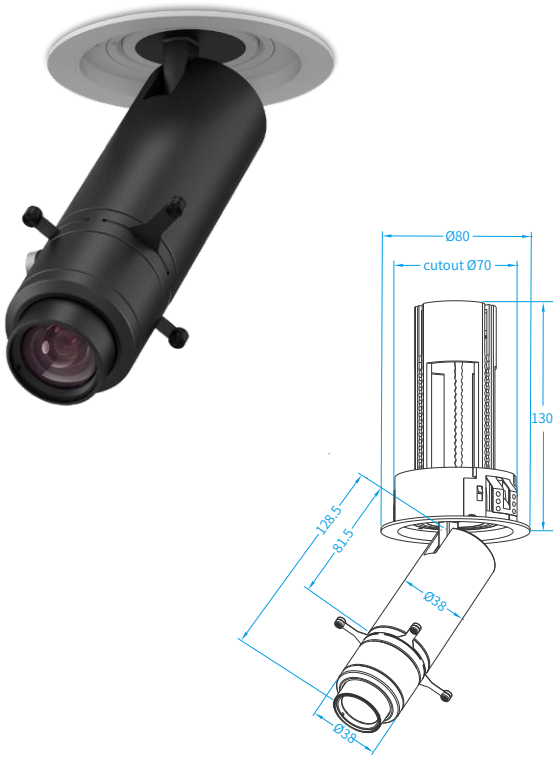


D1070K-3836B



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
D1070K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	15°~36°	nonsupport	0.49Kg	Black/white

D1070K-3855



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
D1070K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	0.42Kg	Black/white



KP series embedded contour gimbal light



BESUN 倍晨
 KP series Contour Spotlight
 (Gobo Projector)

KP series embedded contour gimbal light (G1075K , G2095K , G30125K) has equipped with our latest developed 55° fixed-focus wide-angle optical lens and 15 ~ 36 ° constant zoom optical lens. Compatible with φ 75mm , φ 95mm, φ 125mm cutout gimbal radiator, excellent performance.

- Ultra-high-definition projection.
- Millimeter-level precise Spot shaping, uniform illumination.
- Fixed-focus / zoom lens can be switched arbitrarily (It truly integrates fixed-focus optics and zoom optics mutually. Maximize the optical properties of fixed-focus and zoom lens).

Applications

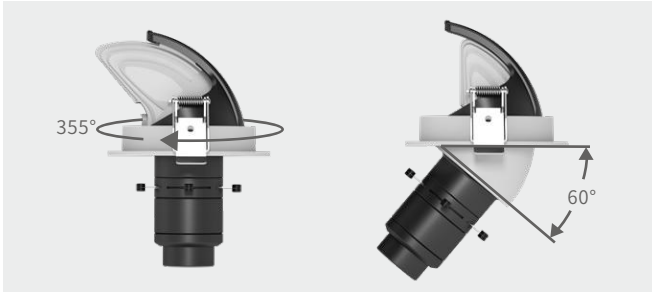
Museum, art gallery, home decoration, hotel, restaurant, machine vision lighting and other creative commercial lighting.

Dimming and CCT changing via Smart Control

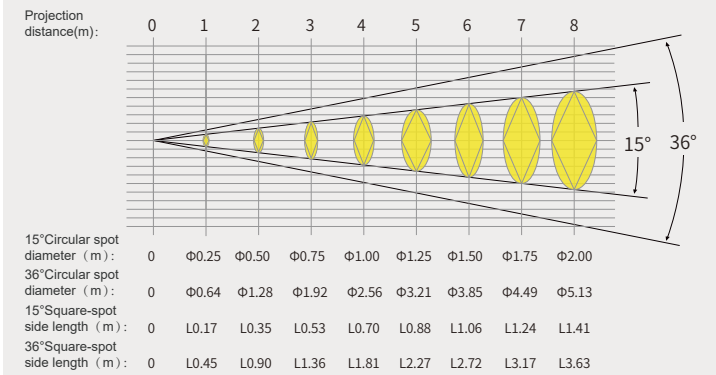
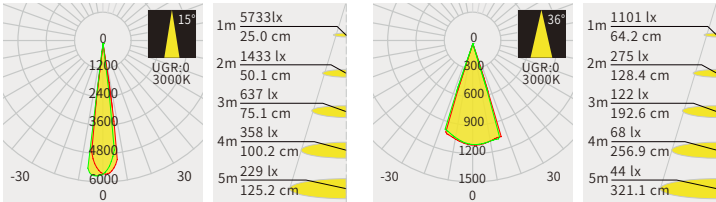
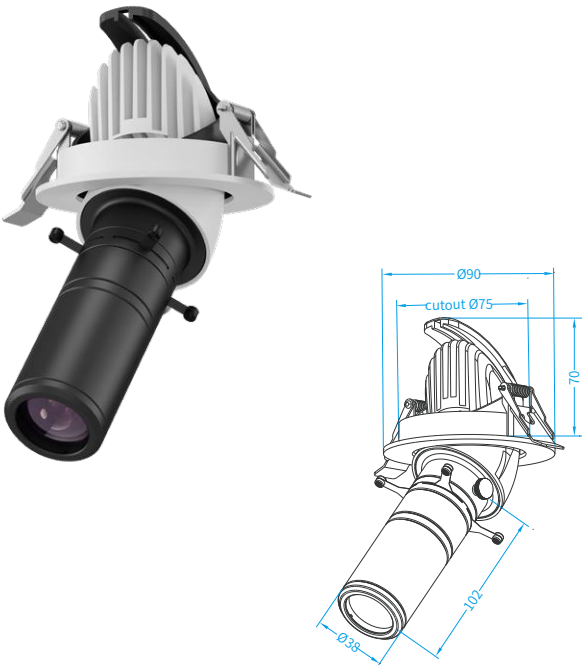
Single / tunnable white via MIJIA / TUYA Bluetooth / TMALL / TIGIDIGITAL / DALI / ORVIBO Zigbee / TUYA Zigbee / 1-10V dim, etc.



KP series embedded contour gimbal light has the features of flexible rotation and precisely projection, supporting vertical 60° rotation and horizontal 355° rotation. (As shown below)

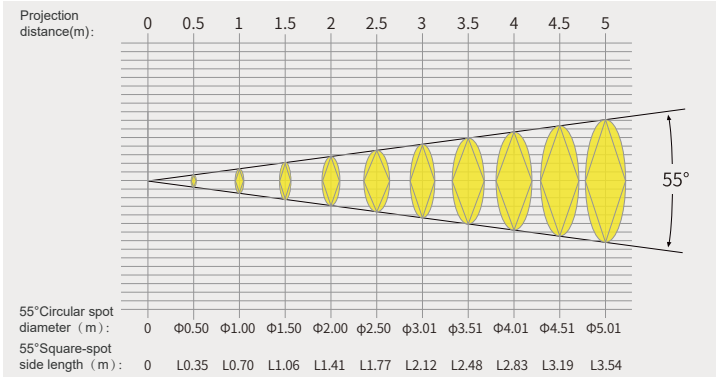
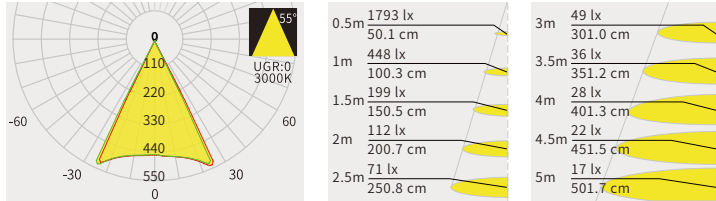
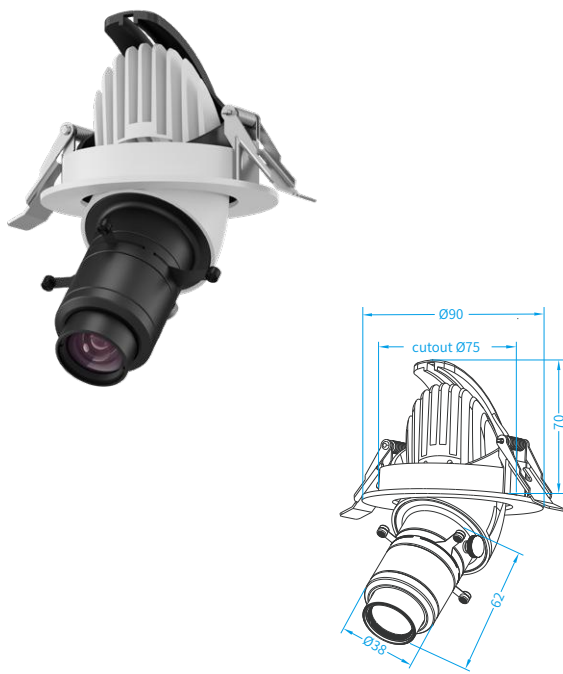


G1075K-3836B



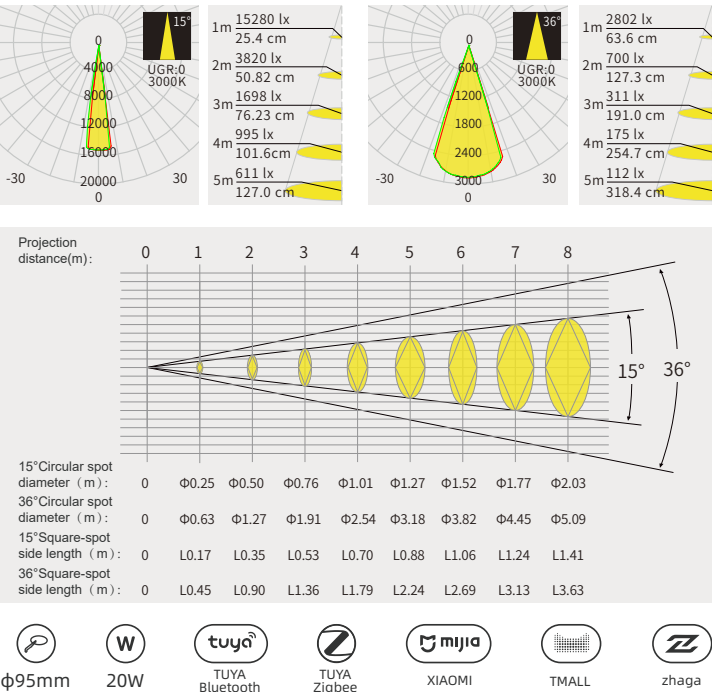
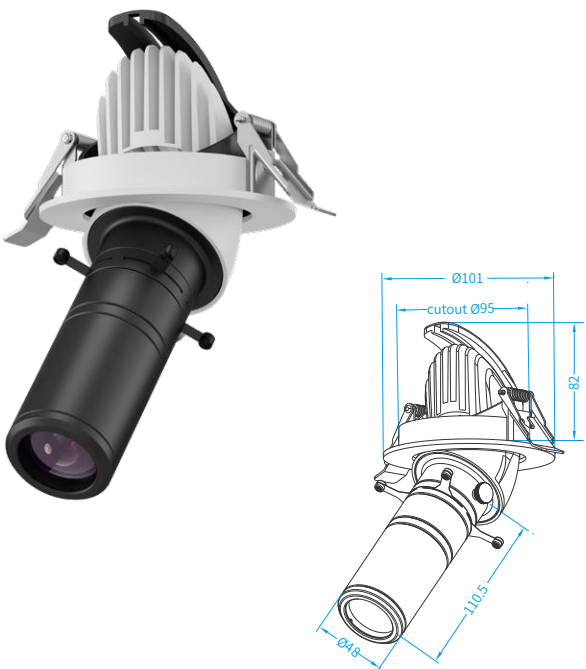
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
G1075K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	15°~36°	nonsupport	0.49Kg	Black/white

G1075K-3855



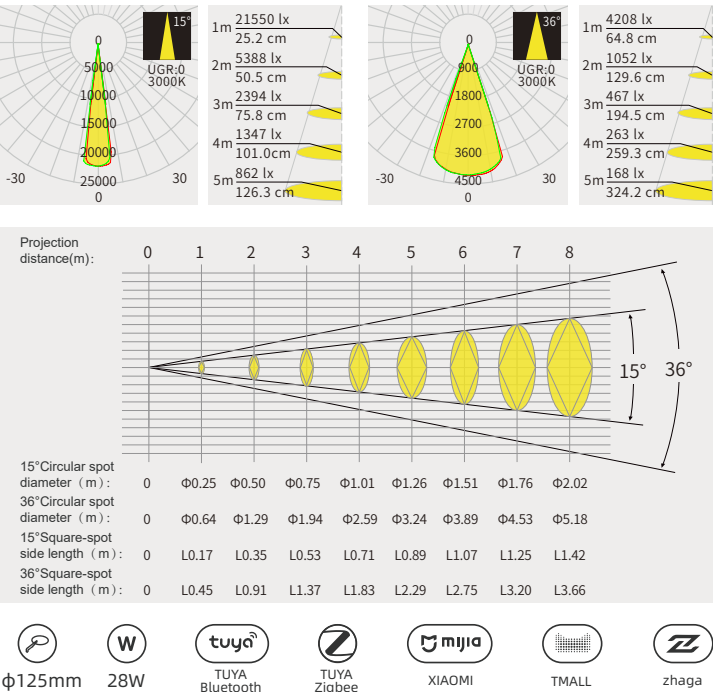
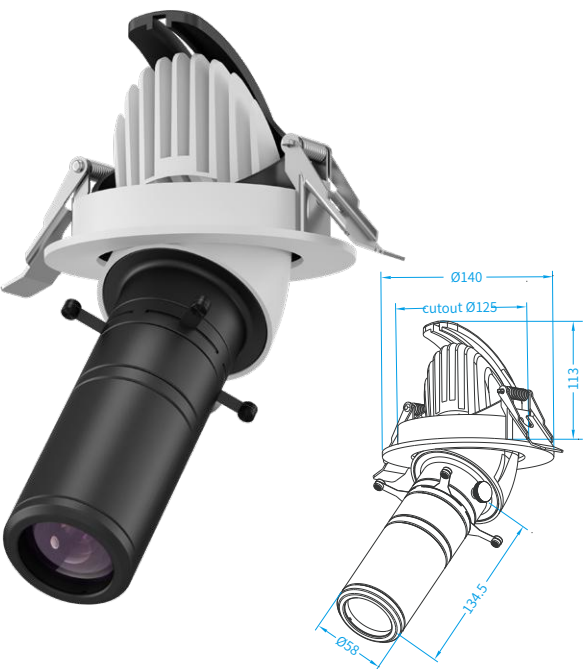
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
G1075K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	0.40Kg	Black/white

G2095K-4836B



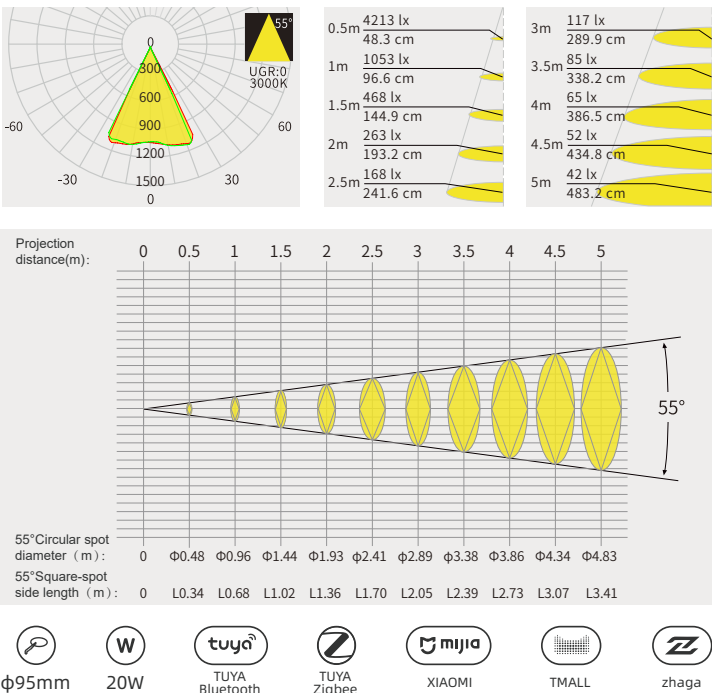
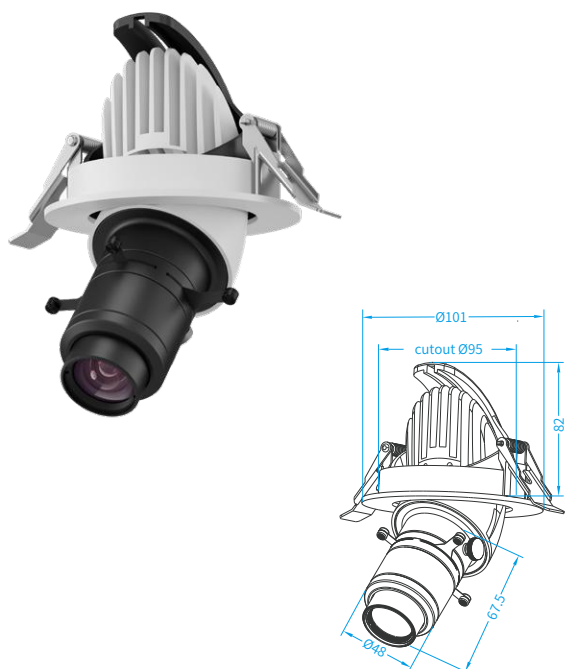
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	Casing color
G2095K	20W	850~900LM	Ra≥97	2700K/3000K/4000K	15°~36°	nonsupport	Black/white

G30125K-5836B



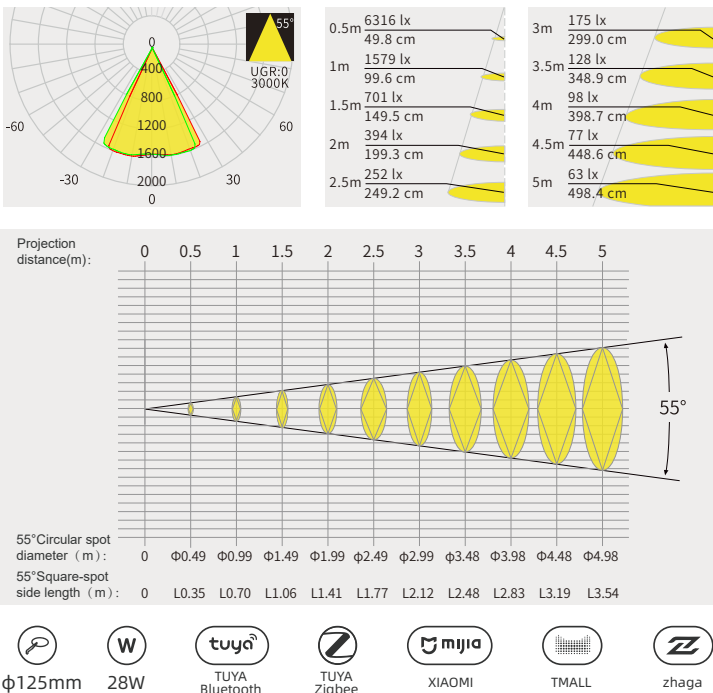
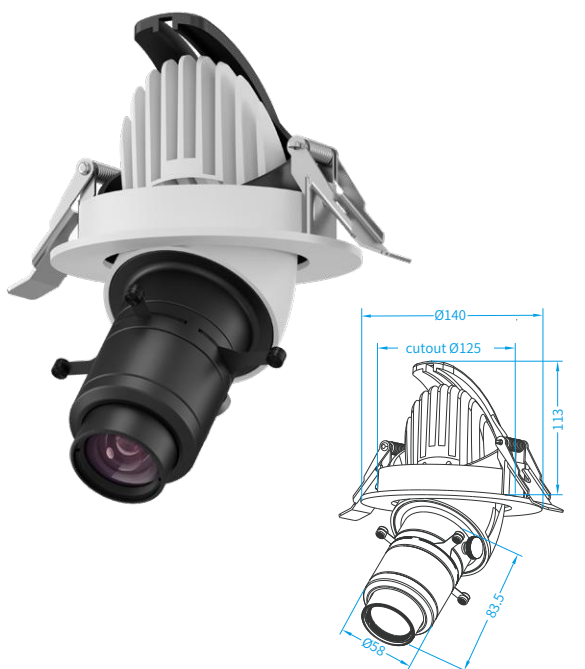
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	Casing color
G30125K	28W	1100~1300LM	Ra≥97	2700K/3000K/4000K	15°~36°	nonsupport	Black/white

G2095K-4855



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	Casing color
G2095K	20W	800~850LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	Black/white

G30125K-5855



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	Casing color
G30125K	28W	1100~1200LM	Ra≥97	2700K/3000K/4000K	55°	nonsupport	Black/white



KP full series contour spotlights belong to the II generation optical products, which have the following characteristics compared with I generation.

- 1.The four sides with the same sharp, square spot or rectangular spot can be achieved on all four sides of the same sharpness.
- 2.Full-size zoom (15-36, frame size 1:0.26-0.63) and large wide-angle (55 degrees, frame size 1:1) , frame shaping and GOBO projection are both available. It can be used for lighting and high-definition projection.
- 3.Dust-free at all focal lengths. no matter sharp or soft light state, are not in the display of stray points, no distortion, no blue edge.

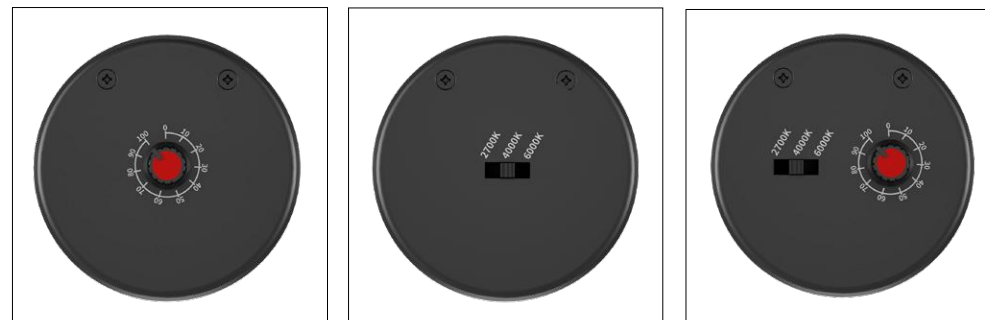


The module built-in driver control methods are generally the following

a, Single lamp 0-10V knob dimming module features continuous dimming

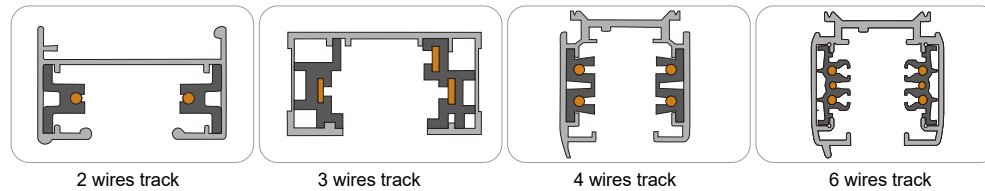
b, DIP select color temperature module
2700K/4000K/6000K
3000K/4000K/5700K

c, DIP CCT + 0-10V knob dimming

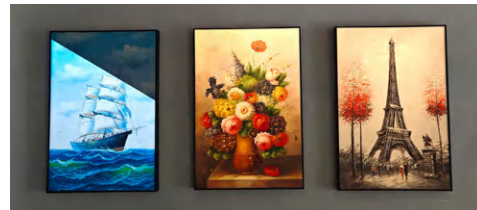


The KP series shapeable track light has the features of flexible rotation and precisely projection, supporting vertical 355° rotation and horizontal 355° rotation. (As shown below)

Track Support



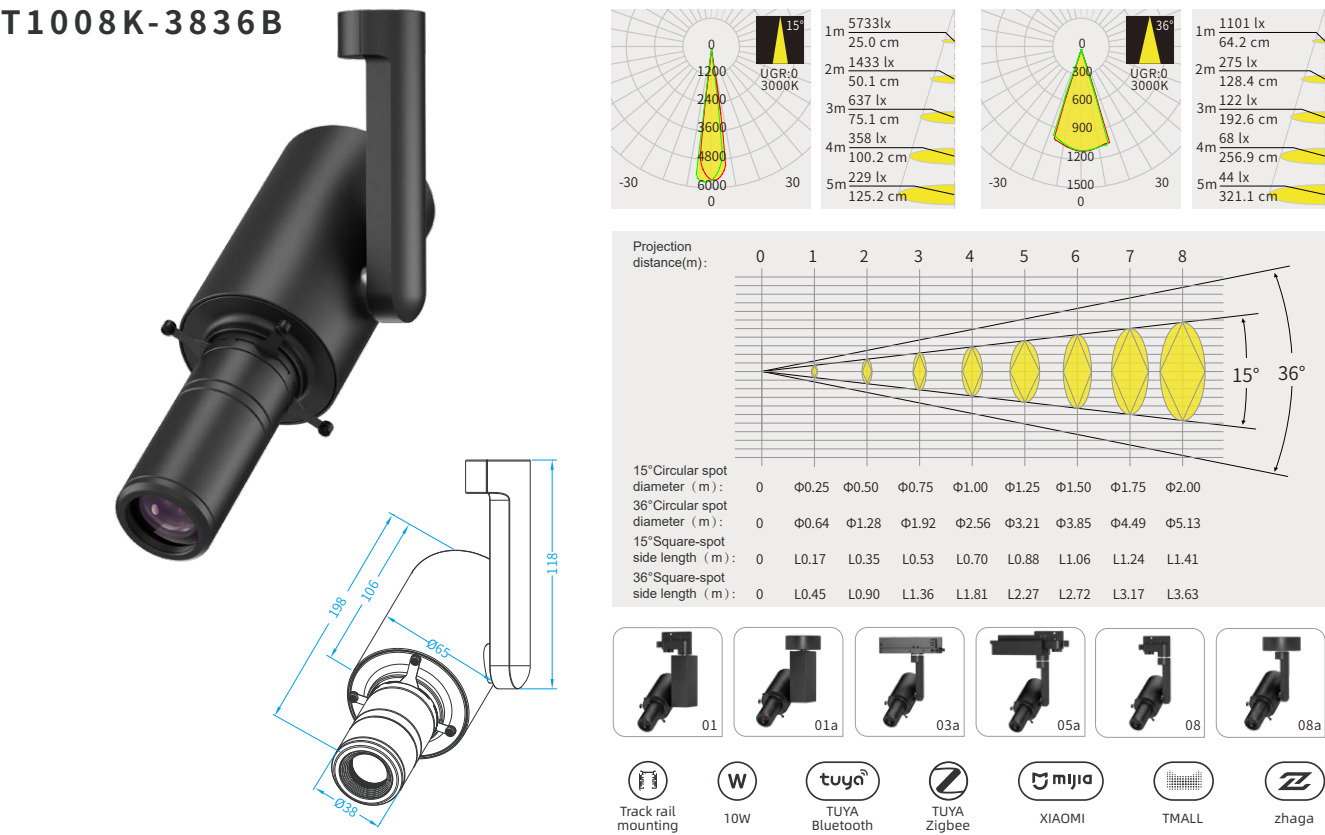
Installation effect



Spot effect

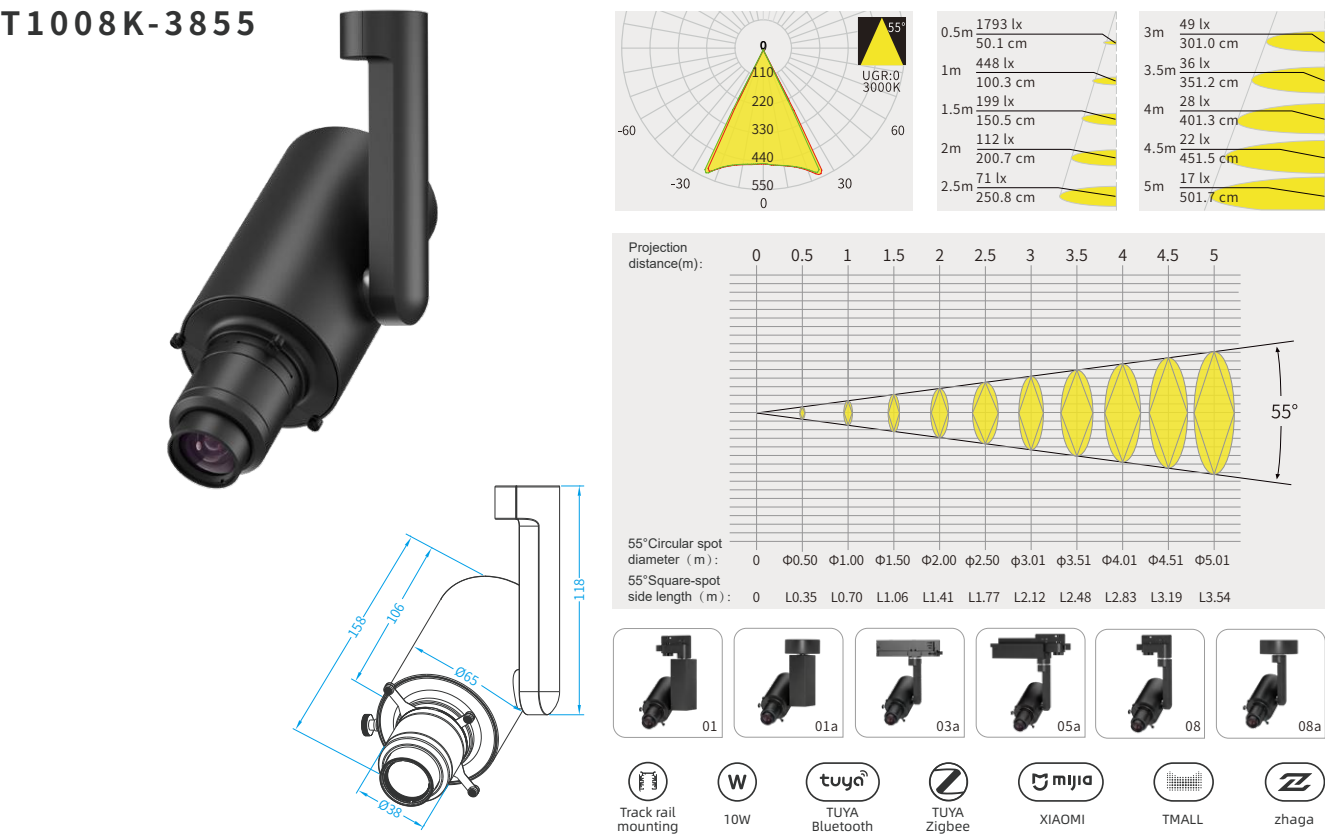


T1008K-3836B



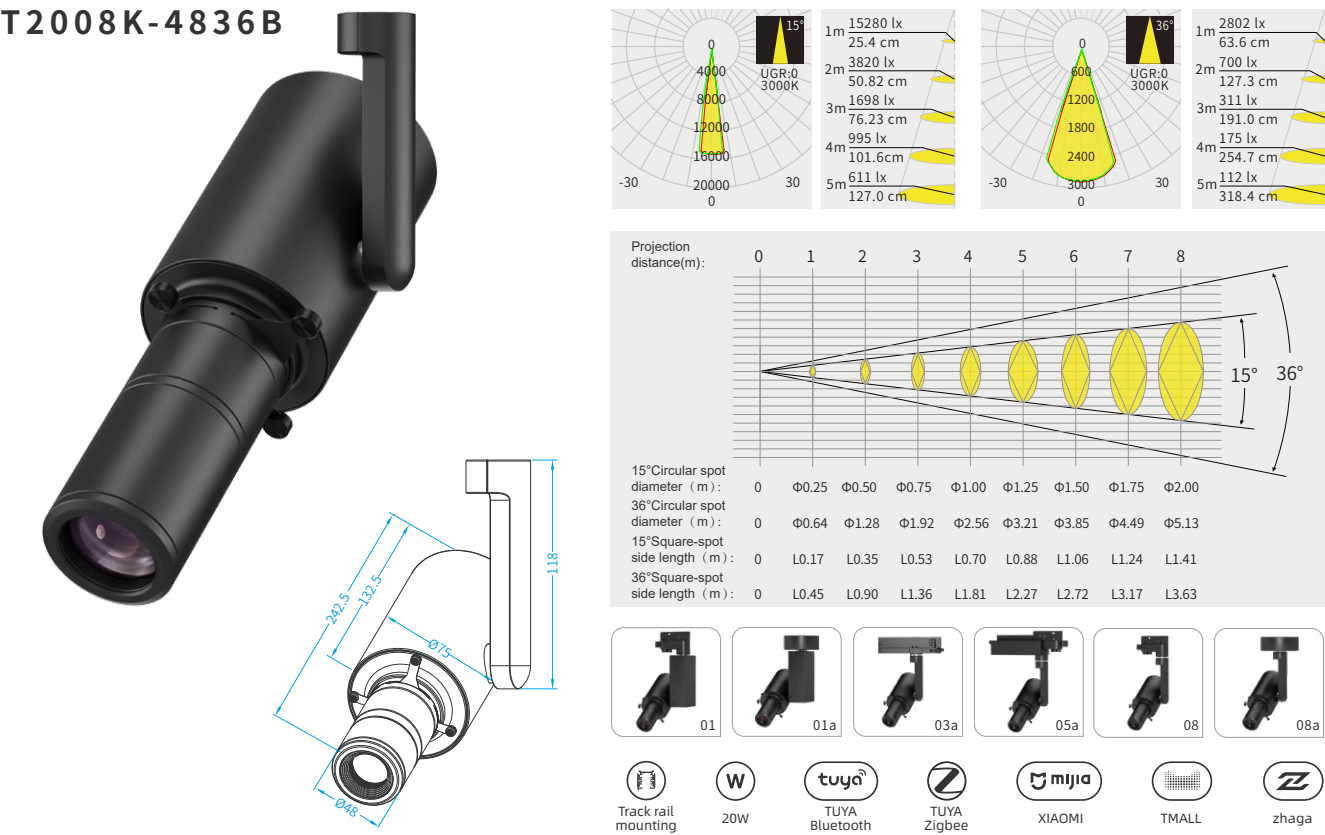
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
T1008K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	15°~36°	Support	0.67Kg	Black/white

T1008K-3855



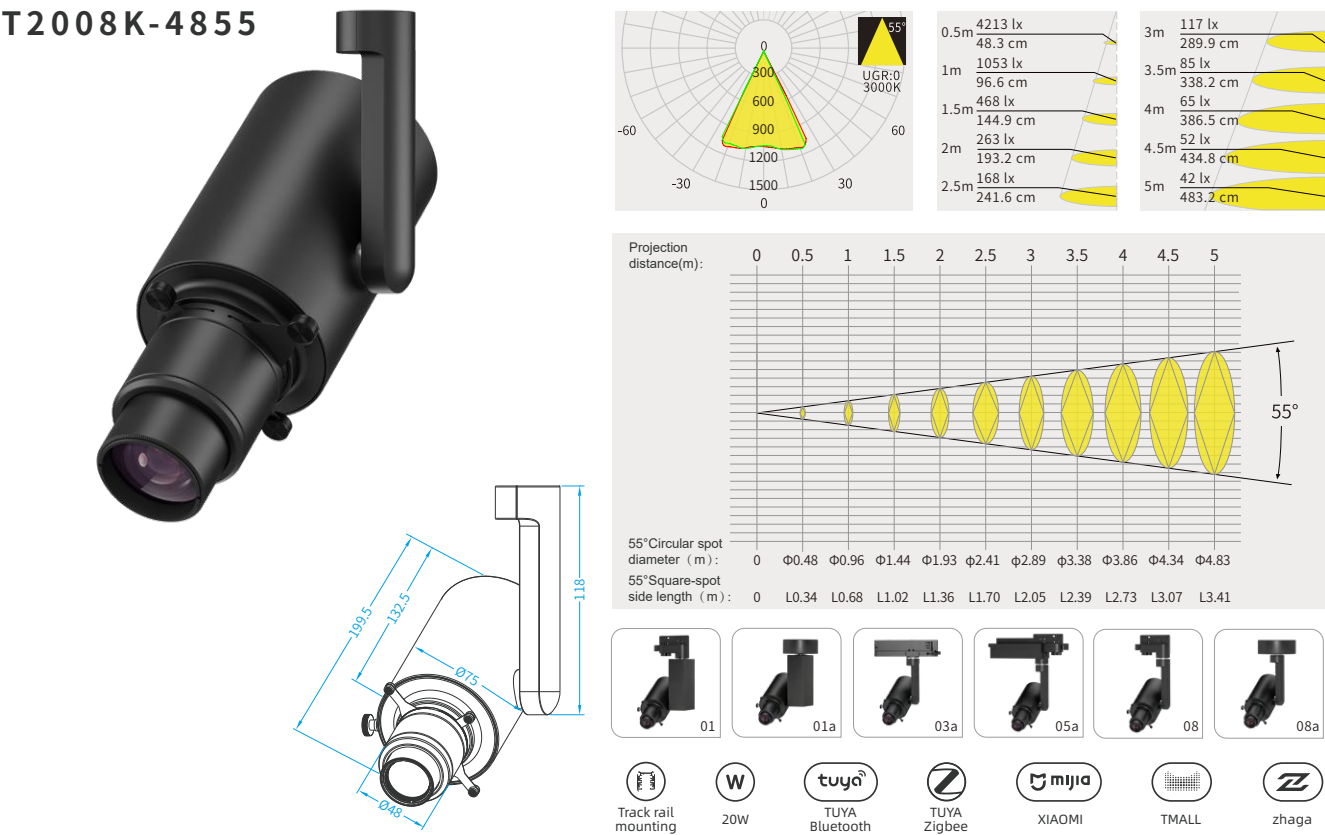
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Casing color
T1008K	10W	300~350LM	Ra≥97	2700K/3000K/4000K	55°	Support	0.59Kg	Black/white

T2008K-4836B



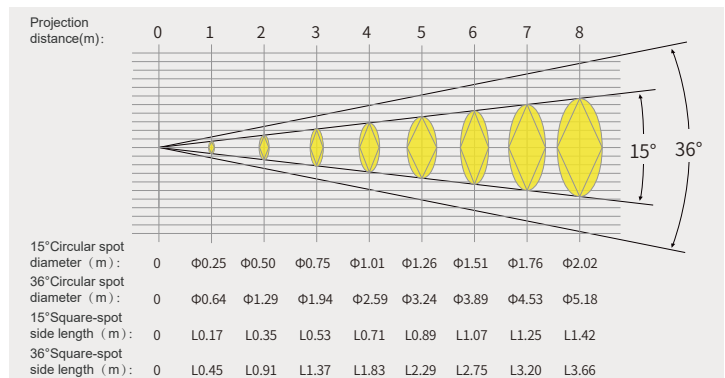
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	Casing color
T2008K	20W	850~900LM	Ra≥97	2700K/3000K/4000K	15°~36°	Support	Black/white

T2008K-4855

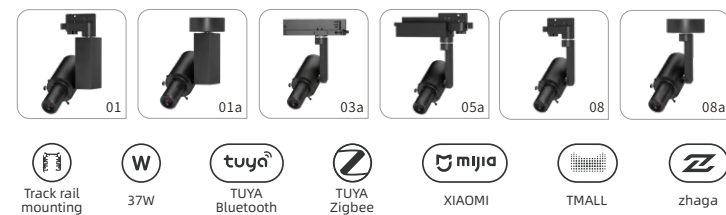
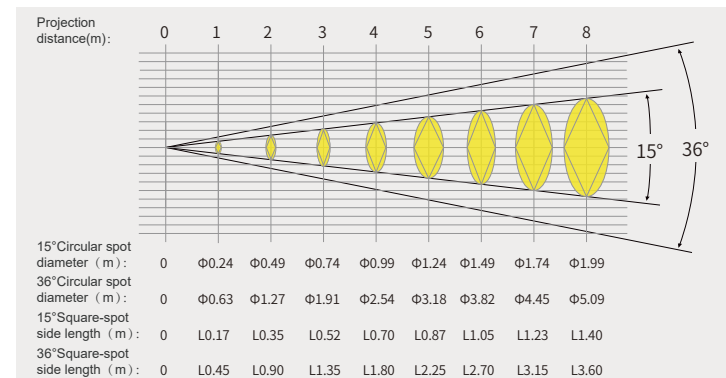
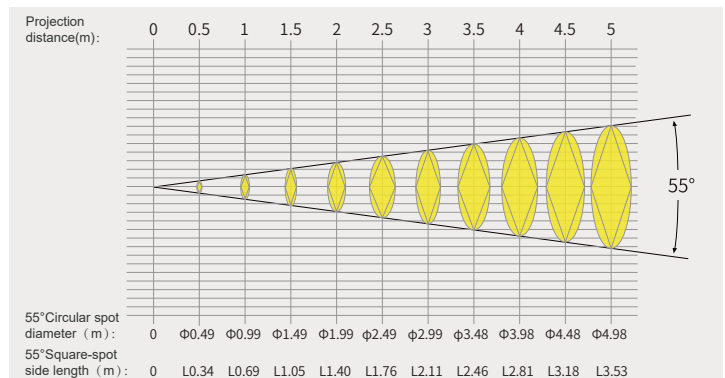


Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	Casing color
T2008K	20W	800~850LM	Ra≥97	2700K/3000K/4000K	55°	Support	Black/white

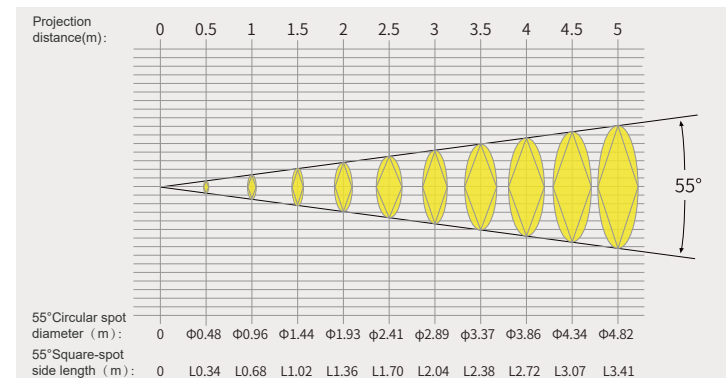
T3008K-5836B



T3008K-5855



T4008K-5855

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Projection Functions

The operation and maintenance of GOBO projection is the same as of KP series embedded contour gimbal light, magnetic contour spotlight and shapeable track light. Take the shapeable track light (T1008K-3855) as an example (as shown below)

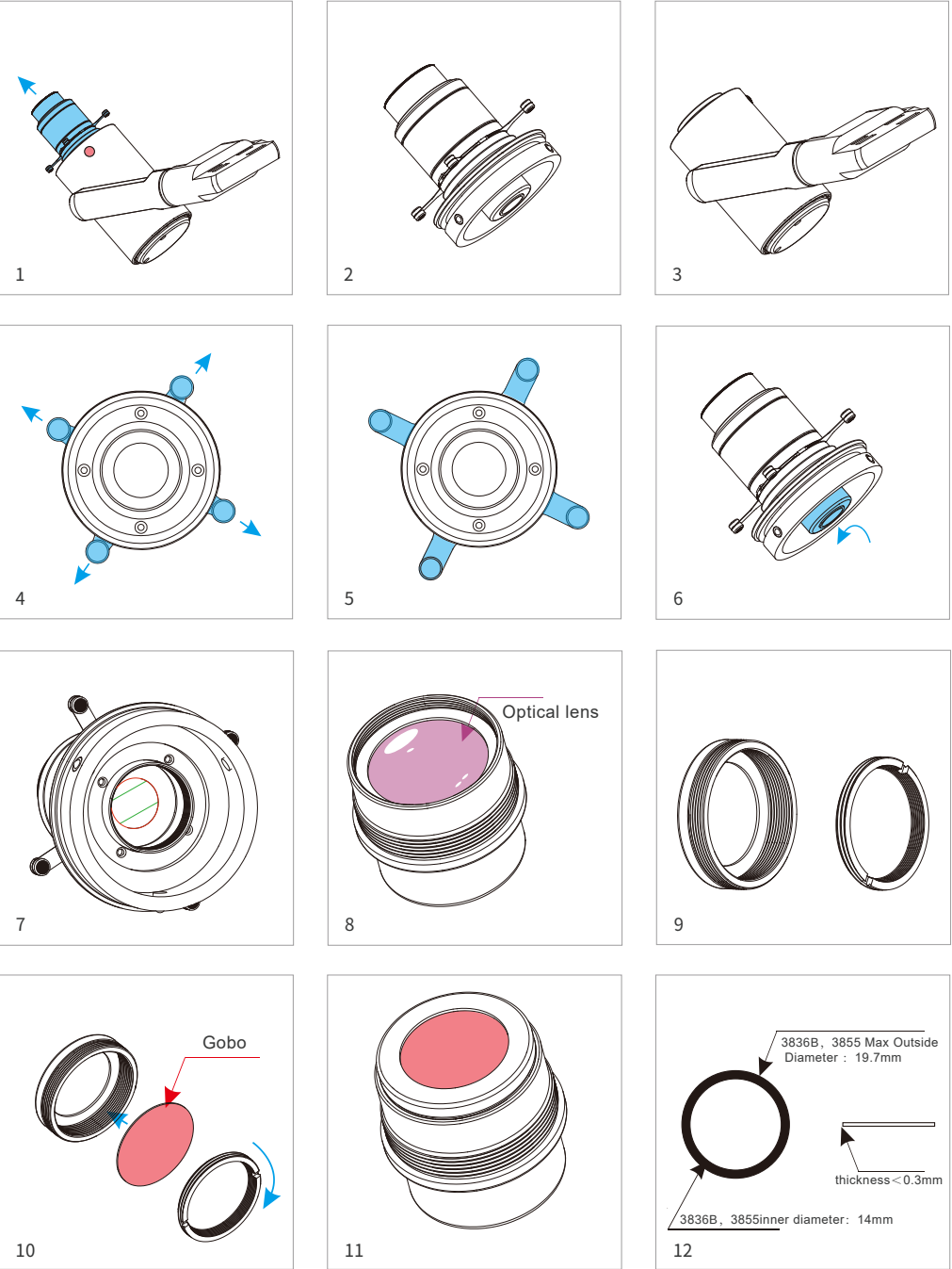
I. First loosen and pull out the hand screw (red part) shown in FIG. 1, and then pull out the main part of the lens (blue area) and separate it from the lamp body; Figure 2 shows the part of the optical lens after separation, and Figure 3 shows the part of the lamp body after separation.

II . Stretch the four diaphragm sheets on the optical lens of Figure 4 outward to the maximum extent, as shown in Figure 5.

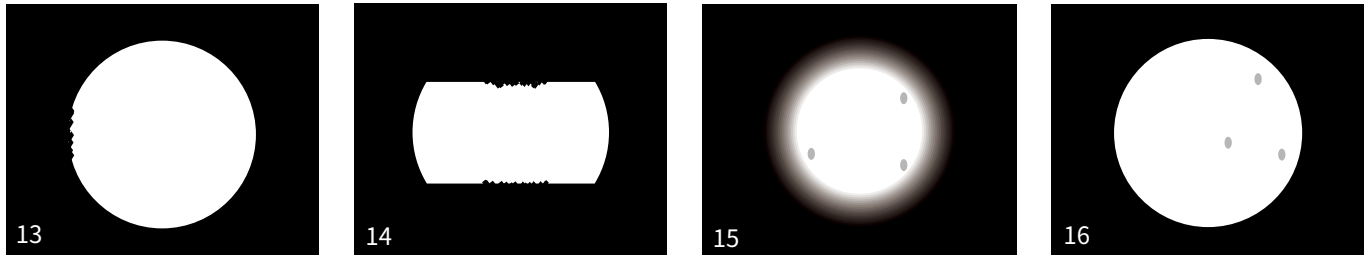
III. Unscrew the blue part of the optical components at the bottom of the lens in Figure 6, and separate it as shown in Figures 7 and 8.

IV . Find the gobo device delivered by the manufacturer (the red part in Figure 10), install the gobo device as shown in Figure 10, and then reinstall the optical lens as shown in Figure 11, and then reinstall the lens as shown in Figure 6, and then reinstall the lamp body as shown in Figure 1. The LOGO lamp assembly is complete.

IV. You can design and make a variety of image gobo. The specifications are shown in Figure 12.



Daily maintenance

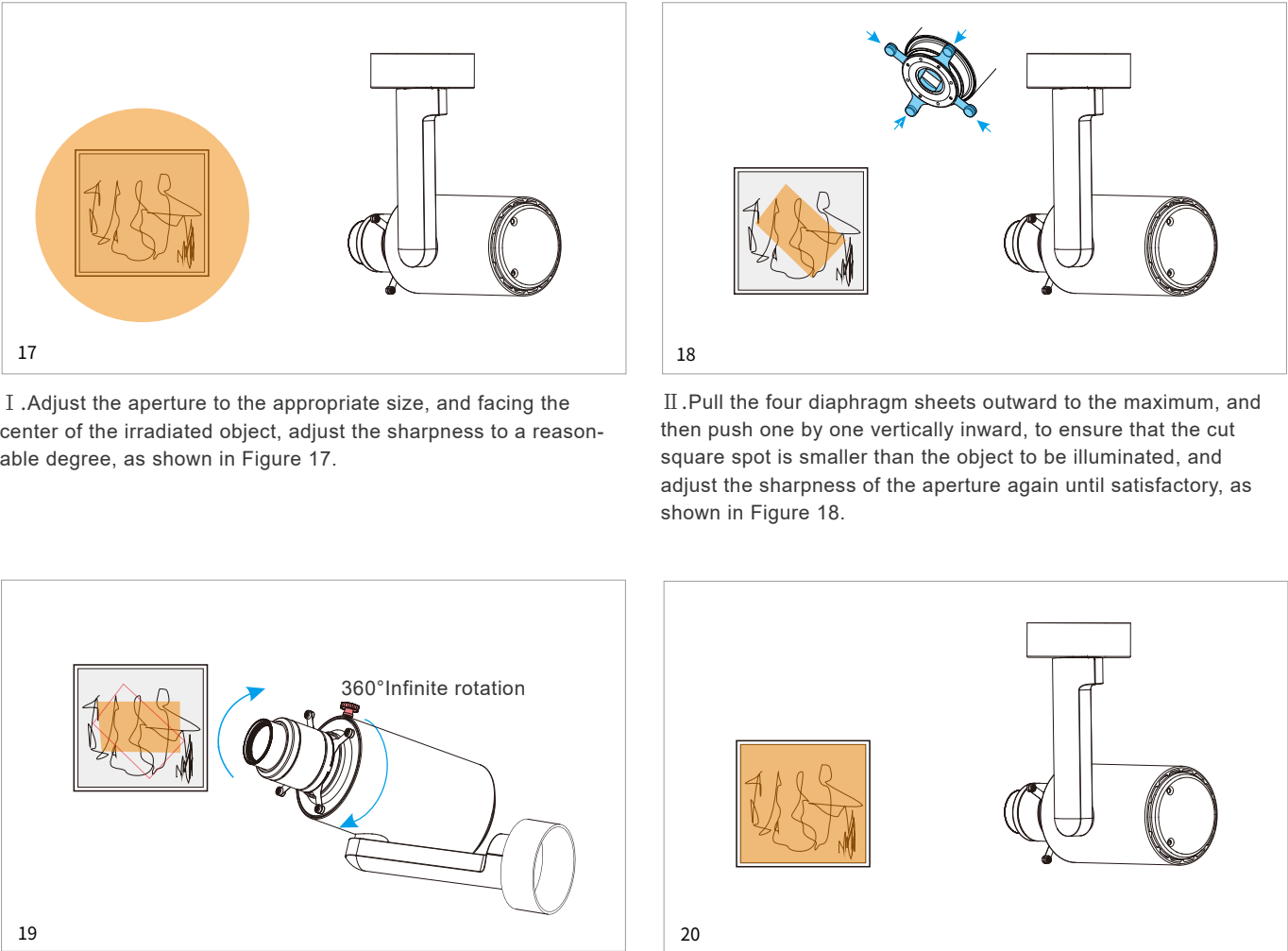


I .When the edge of the circular spot becomes rough or granular (Figure 13), please open the lens and wipe the red part in Figure 7 with a dust-free cloth or eyeglass cloth.

II .When the edge of the square spot becomes rough or granular (Figure 14), please open the lens and wipe the green edge in Figure 7 with a dust-free cloth or eyeglass cloth.

III. When small shadows or particles appear in the middle or edge of any spot (Figure 15, 16), open the lens and wipe the optical lens in Figure 8 with a dust-free cloth or eyeglass cloth.

Instruction Manual



I .Adjust the aperture to the appropriate size, and facing the center of the irradiated object, adjust the sharpness to a reasonable degree, as shown in Figure 17.

II .Pull the four diaphragm sheets outward to the maximum, and then push one by one vertically inward, to ensure that the cut square spot is smaller than the object to be illuminated, and adjust the sharpness of the aperture again until satisfactory, as shown in Figure 18.

III.If the shape of the spot does not match the object to be illuminated, first loosen the hand screw at the red mark, rotate the blue part of the lens, adjust the edge of the spot to be parallel to the edge of the object to be illuminated, and finally tighten the hand screw. As shown in Figure 19, the LOGO projection direction not matching can also be adjusted to the ideal direction using this method.

IV.Stretch the diaphragm sheet one by one outward until the spot size is substantially consistent with the object, as shown in Figure 20. If you are not satisfied with the effect, it is recommended to repeat the operation according to the above steps to bring up the spot effect you are happy with.

Important Notes

1. When replacing the projector, be sure to pull all four diaphragm sheets outward to the maximum extent and then load the projection device. Otherwise, it may damage the lens parts, affecting the spot shaping effect.
2. Do not remove the rest of the lens except for replacing the projection unit and routine lens maintenance. If the lens cannot be used normally due to manual disassembly, the company does not provide maintenance and warranty services.
3. Track-type shapeable track light is generally heavier than ordinary track lights. Please determine whether the installation conditions are allowed before installation.
4. The lens does not contain any repair accessories. Please do not disassemble the lens without permission. Unauthorized disassembly will not be repaired or returned.