

BESUN LED LIMITED

2023

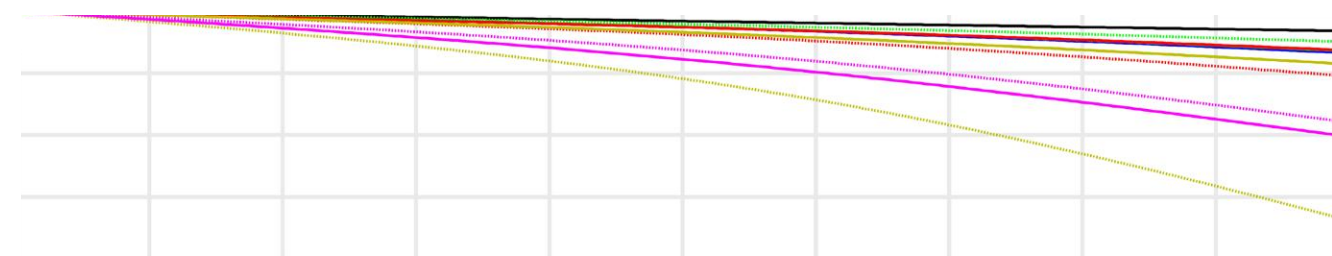
Come from BESUN, go for BEing SUN



BESUN[®] LED LIMITED
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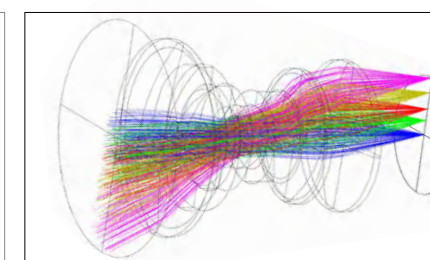
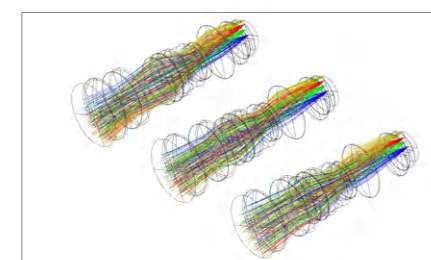


COMPANY PROFILE

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.





A decade of originality

Spot shaping/ Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!

Our products result from both professionalism and love!





GZ series shapeable track lights

Spot shaping/ Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!

Dry stepless linear zooming and spot shaping. Frame size 1: 0.8

There can never be only one lighting design solution. The possibilities in the design are limitless. Moreover, the spirit of the times, cultural background, abstract concepts, and even the personal characteristics of the designer can be different and diverse. We look for the most suitable way of light expression in this infinite possibility.

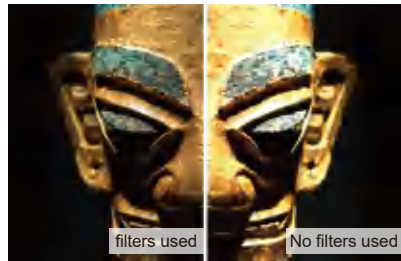


Color filter



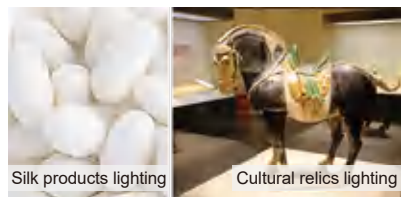
The luminous color of the lamp can be adjusted according to your needs.

ND filter



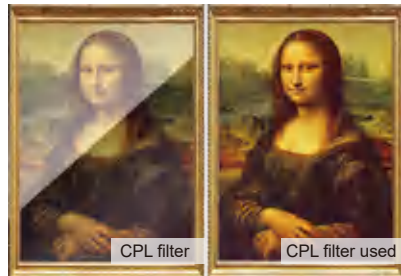
With electronic dimming, the small-angle illumination can be reduced to less than 75LUX, which is generally used for authentic lighting.

UV filter



It can effectively filter UV rays in LED lamps and lanterns, thus protecting the illuminated object. It delivers superior performance in silk products lighting and cultural relics lighting.

CPL filter



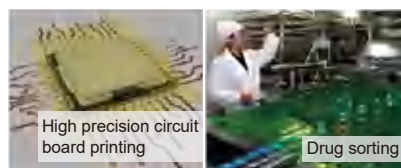
It can eliminate the reflection of the object's surface so that the object in a high luminosity environment can also display its original appearance.

GND filter



GND filter are used to alter the light ratio into the lens. For example, in illuminating the oblique side of the square position of the object, the use of gradient filters allows the even and constant illumination of the object.

Other filter



Various filters in special bands can be customized according to your actual needs. They can be used in various unique places, such as wafer cutting, high-precision circuit board printing, and drug sorting.

GZ series shapeable track lights

Spot shaping/ Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!

Dry stepless linear zooming and spot shaping. Frame size 1: 0.8



Industrial Grade Optical Filter

It can match a variety of industrial-grade optical filters and support the customization of special narrowband and ultra narrowband optical filters. Some filter functions can be superimposed, such as HD UV+color filter, HD UV+soft filter, amongst others.



GZ series shapeable track lights

Spot shaping/ Zoom / Projection / Smart control

Fully independent intellectual property rights, global patents, global certification!

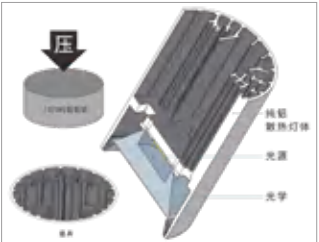
Dry stepless linear zooming and spot shaping. Frame size 1: 0.8



① Cold forging integrated radiator design

A radiator made of 1070#pure aluminum and molded by molding pressure. It has high thermal conductivity, low-temperature differences, low light failure, and long service life.

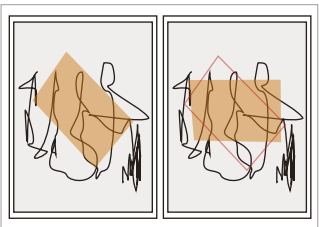
Thermal conductivity 226W/m.K



② 360° manual rotation design

Loosen the manual screw and turn the lens to achieve the 360°spot rotation adjustment function.

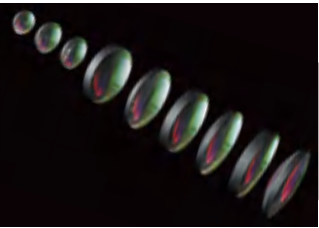
Device to solve the 360° rotation of the projection and light spot.



③ High-definition optical lens design

It is formed by a plurality of high-definition coated optical lenses. The whole lamp has the characteristics of high luminous efficiency, high spot uniformity, minor distortion, extensive linear zoom range, good spot cut-off line, etc..

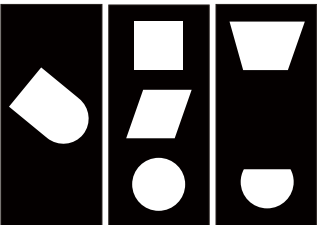
A new optical path specially designed for COB light sources.



④ Optical-grade variable aperture design

An optical diaphragm made of high-precision special material with no blurring and freezing.

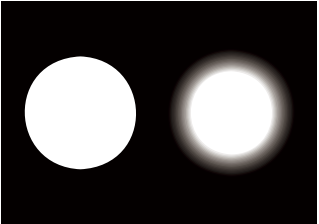
Manual insertion and removal of the light cutting device can freely change the shape of the spot.



⑤ Multi-layer dry damping design

The invention is a focusing device not requiring the application of lubricating oil and has a silky feel. It is stable, reliable, wear-resistant, resistant to high temperatures, and does not wear off after extended use.

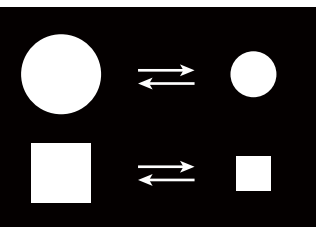
Rotating the device can change the sharpness of the spot.



⑥ Multi-layer dry damping design

Short stroke, considerable focal length, high short-focus and long-focus recognition, visible to the naked eye, linear zoom is enhanced and more convenient.

Rotate the device to adjust the spot size.



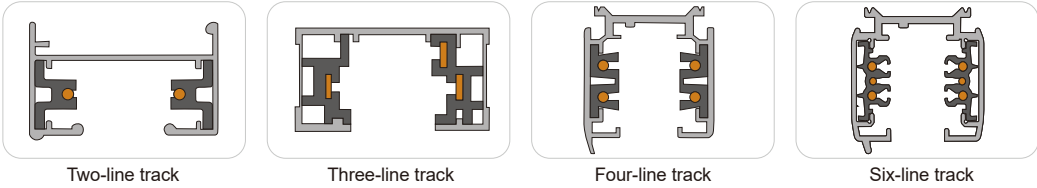
GZ series shapeable track lights



GZ series shapeable track light features a compact design, with dry mechanical damping system. It achieves stable and reliable front and rear zoom, spot shaping and projection, ultra-high cost performance, very suitable for the current new commercial lighting design and no main lamp design. Its photo-electric performance is the same as DQ Series.



Track Support



Installation effect



Spot effect



DIP color temperature coupled with the single lamp knob dimming design can easily achieve single lamp dimming, spot shaping and color temperature adjustment. It can be used alone or can alternatively be equipped with other dimming devices.



Control support

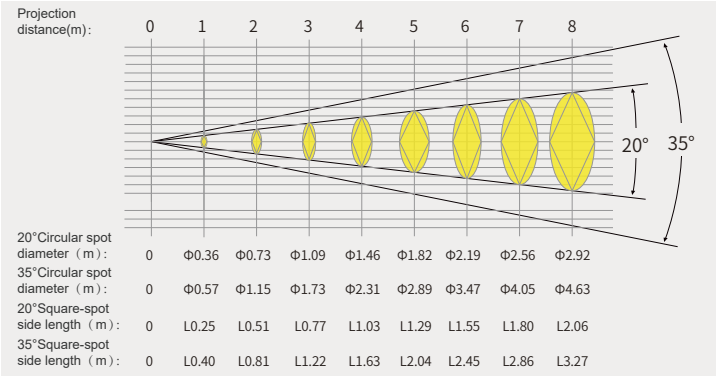
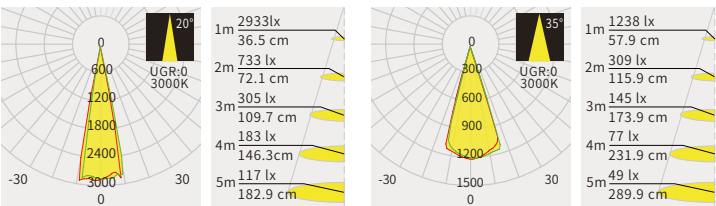


Support 1-10V, DMX, DALI, ZGEBI, and other mainstream control. Can also be connected with Huawei, Tuya, Xiaomi, Tmall Elf, Amazon, Google, and other smart AI control systems.

Projection support

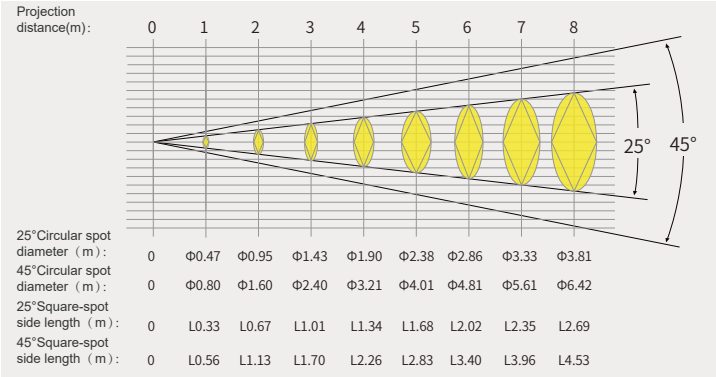
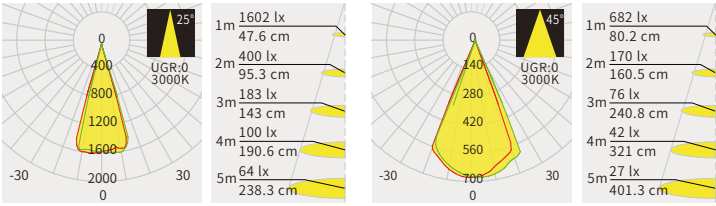


GZ series shapeable track lights
T1008L-3635



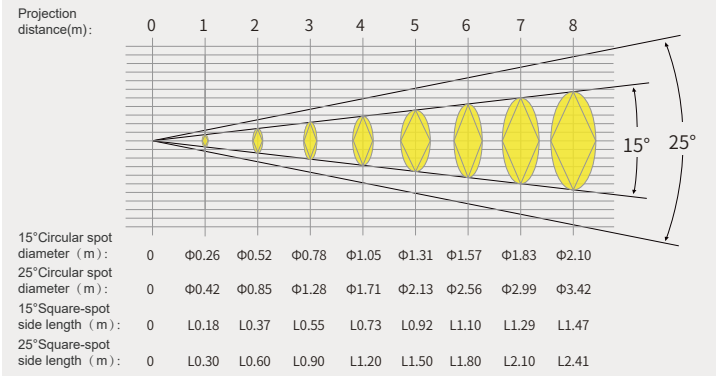
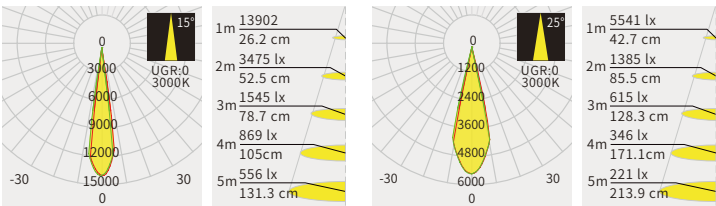
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T1008L	10W	300~350LM	Ra≥97	2700K/3000K/4000K	20°~35°	Support (pick one from two)	0.61Kg	32mm	Black/white

GZ series shapeable track lights
T1008L-3645



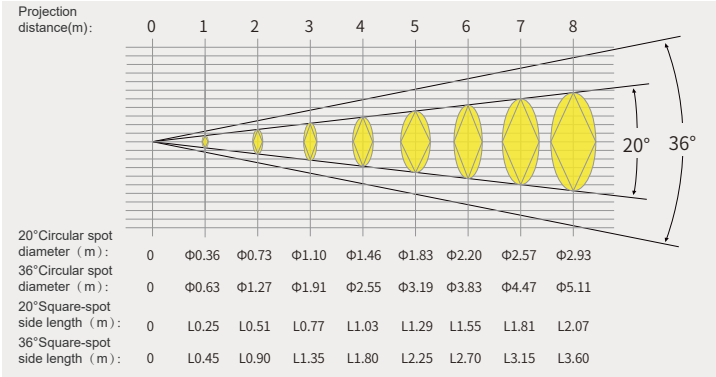
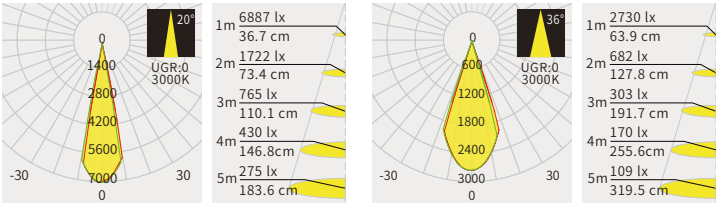
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T1008L	10W	300~350LM	Ra≥97	2700K/3000K/4000K	25°~45°	Support (pick one from two)	0.61Kg	32mm	Black/white

GZ series shapeable track lights
T2008L-6025



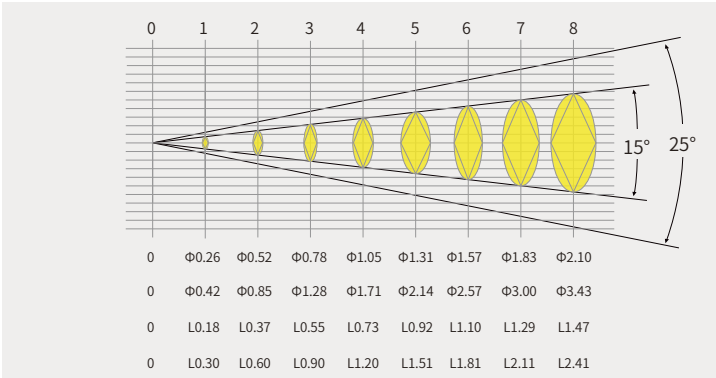
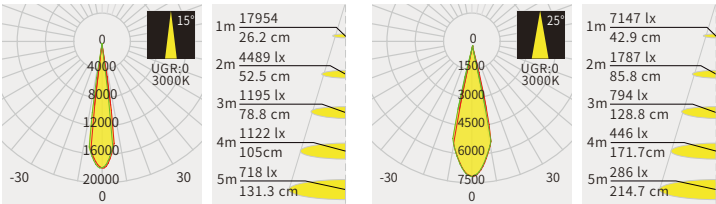
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T2008L	20W	650~750LM	Ra≥97	2700K/3000K/4000K	15°~25°	Support	1.21Kg	58mm	Black/white

GZ series shapeable track lights
T2008L-6036



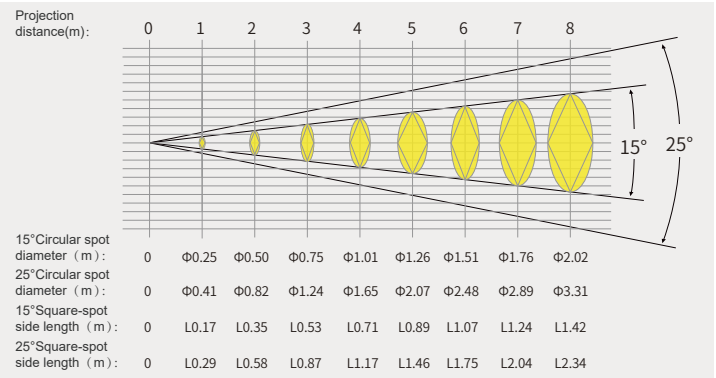
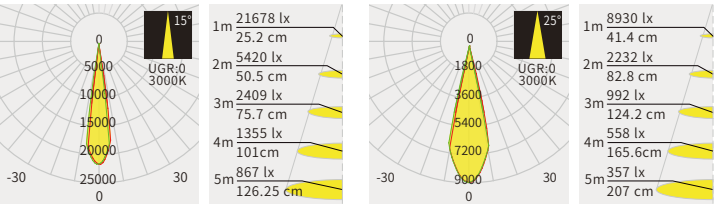
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T2008L	20W	650~750LM	Ra≥97	2700K/3000K/4000K	20°~36°	Support	1.21Kg	58mm	Black/white

GZ series shapeable track lights
T3008L-6025



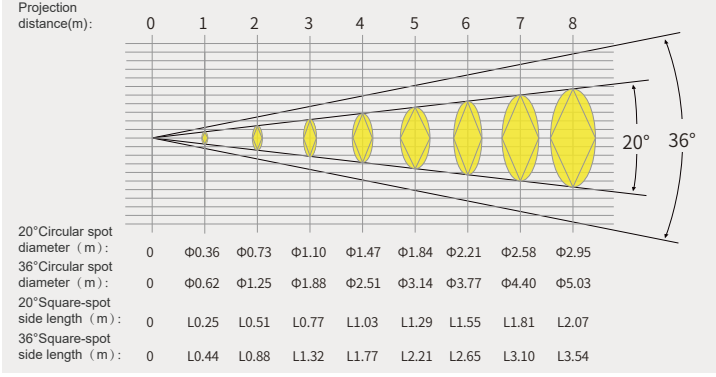
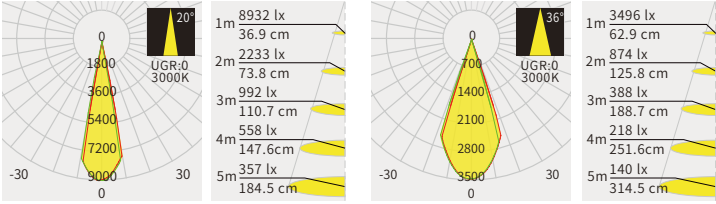
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T3008L	28W	850~950LM	Ra≥97	2700K/3000K/4000K	15°~25°	Support	1.29Kg	58mm	Black/white

GZ series shapeable track lights
T4008L-6025



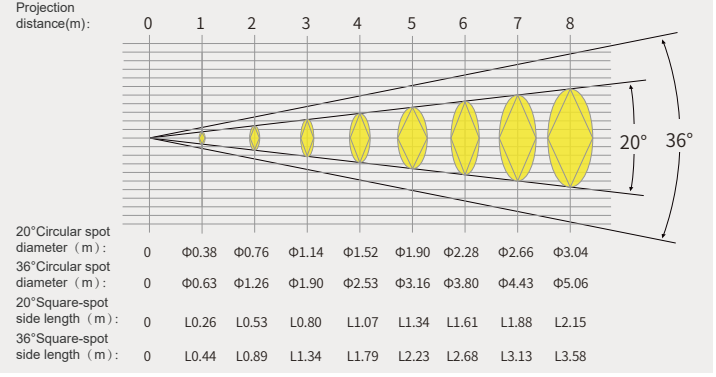
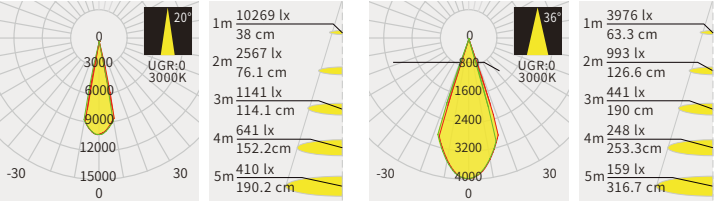
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T4008L	37W	1050~1200LM	Ra≥97	2700K/3000K/4000K	15°~25°	Support	1.41Kg	58mm	Black/white

GZ series shapeable track lights
T3008L-6036



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T3008L	28W	850~950LM	Ra≥97	2700K/3000K/4000K	20°~36°	Support	1.29Kg	58mm	Black/white

GZ series shapeable track lights
T4008L-6036



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
T4008L	37W	1050~1200LM	Ra≥97	2700K/3000K/4000K	20°~36°	Support	1.41Kg	58mm	Black/white

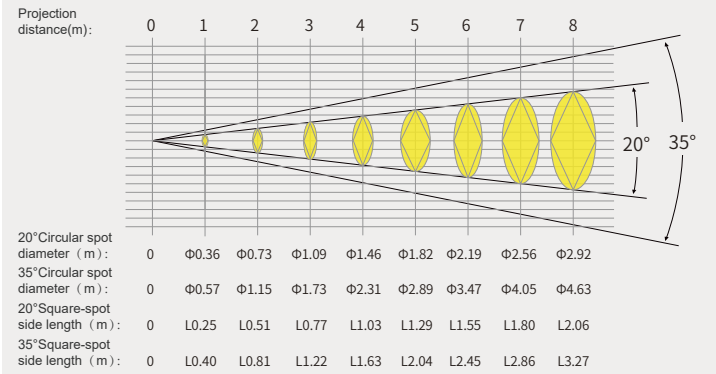
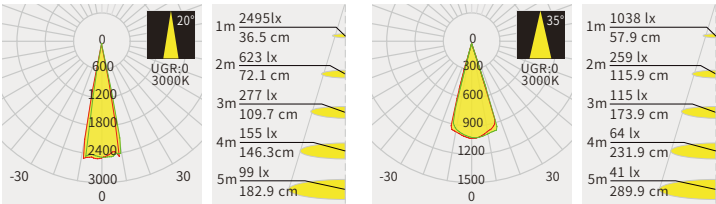
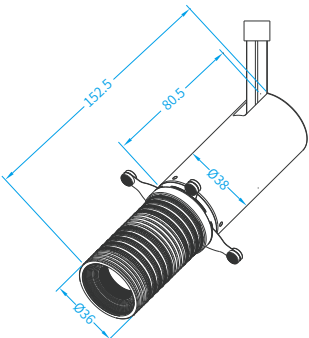
GZ series shapeable track lights



A mini shapeable track light with a maximum diameter of only 36mm, the maximum angle of up to 45 degrees. Suitable for any commercial lighting. Support embedded installation, magnetic installation, and track installation. Photoelectric performance is the same to the DQ series.

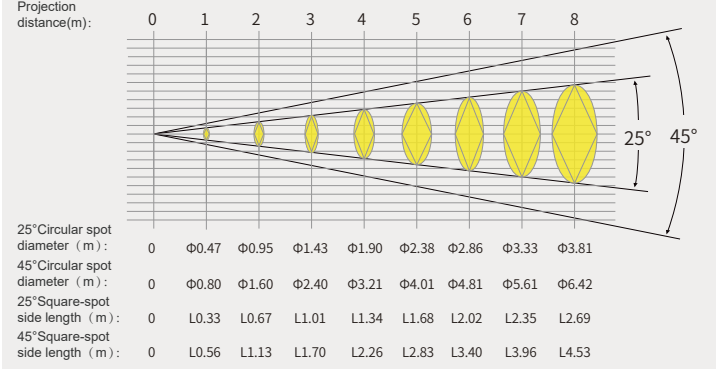
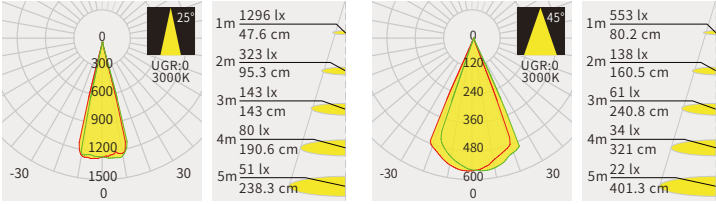
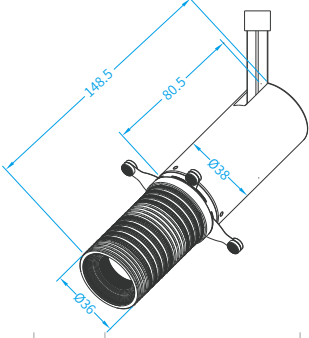


GZ series shapeable track lights
D0870L-3635



Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
D0870L	8W	250~300LM	Ra≥97	2700K/3000K/4000K	20°~35°	nonsupport	0.37Kg	32mm	Black/white

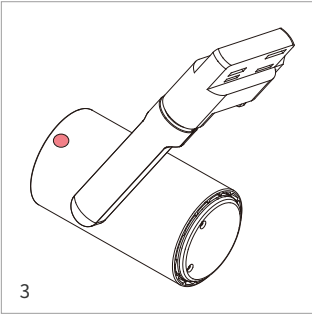
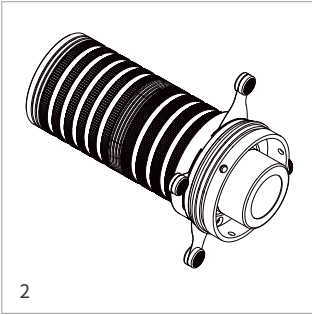
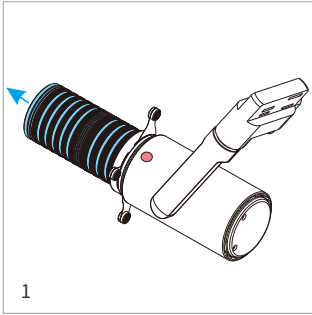
GZ series shapeable track lights
D0870L-3645



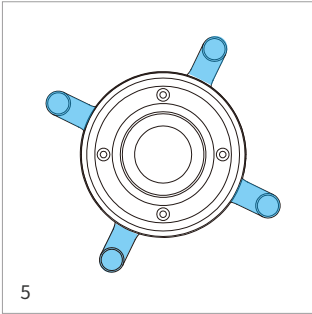
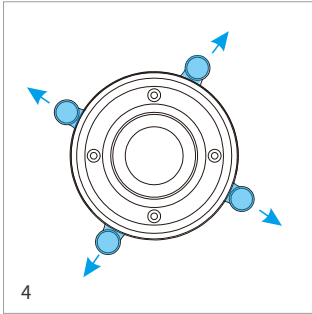
Model	Power	Luminous flux	Ra	Color temperature	Zoom range	DIP CCT single lamp dimming	G.W.	Filter Specifications	Casing color
D0870L	8W	250~300LM	Ra≥97	2700K/3000K/4000K	25°~45°	nonsupport	0.37Kg	32mm	Black/white

Projection Functions

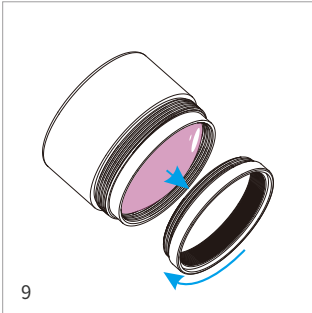
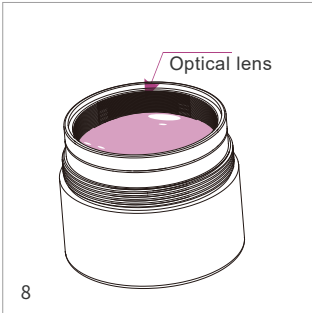
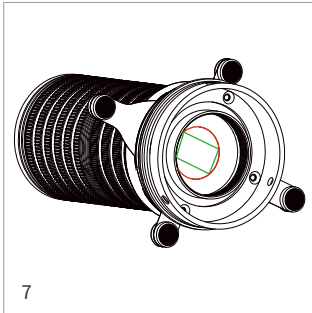
I. First loosen and pull out the hand screw (red part) shown in FIG. 1, and then pull out the main part of the lens (blue area) and separate it from the lamp body; Figure 2 shows the part of the optical lens after separation, and Figure 3 shows the part of the lamp body after separation.



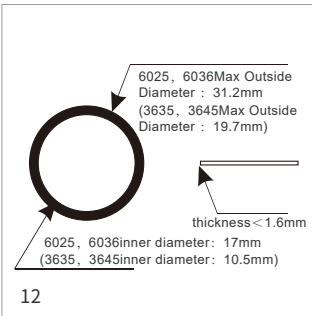
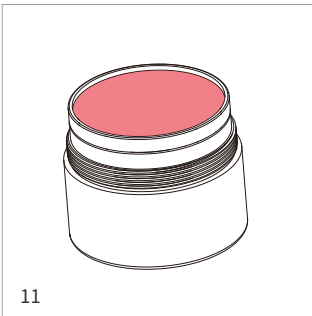
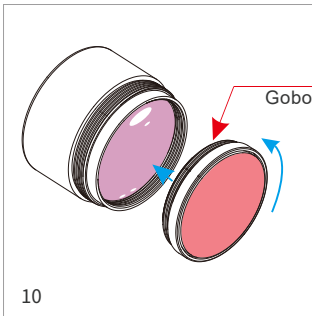
II. Stretch the four diaphragm sheets on the optical lens of Figure 4 outward to the maximum extent, as shown in Figure 5.



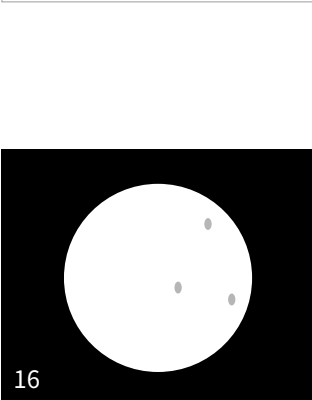
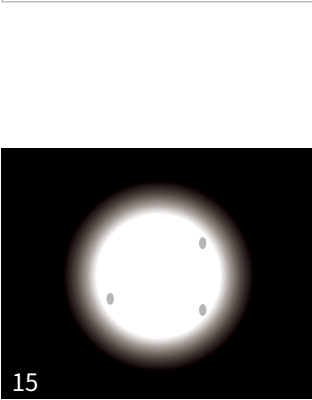
III. Unscrew the blue part of the optical components at the bottom of the lens in Figure 6, and separate it as shown in Figures 7 and 8. Then separate the lens face ring in FIG. 8 as shown in FIG. 9.



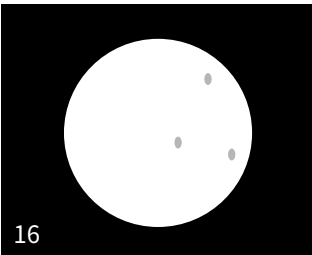
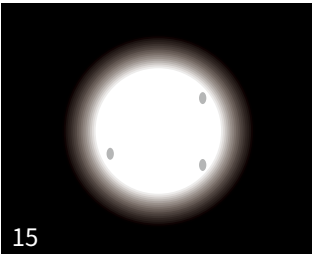
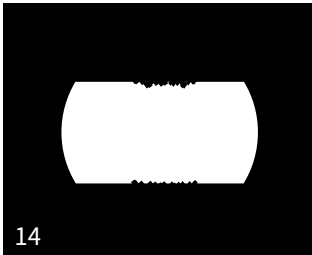
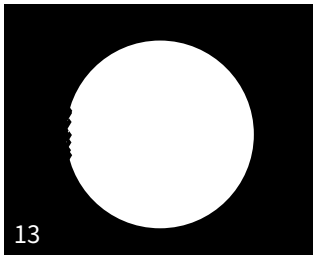
IV. Find the gobo device delivered by the manufacturer (the red part in Figure 10), install the gobo device as shown in Figure 10, and then reinstall the optical lens as shown in Figure 11, and then reinstall the lens as shown in Figure 6, and then reinstall the lamp body as shown in Figure 1. The LOGO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



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



Daily maintenance

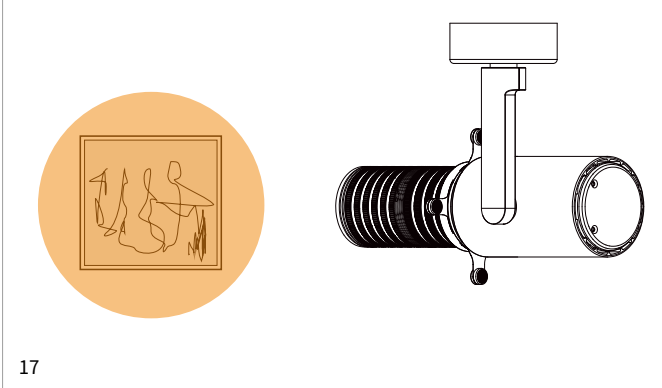


I. When the edge of the circular spot becomes rough or granular (Figure 13), please open the lens and wipe the red part in Figure 7 with a dust-free cloth or eyeglass cloth.

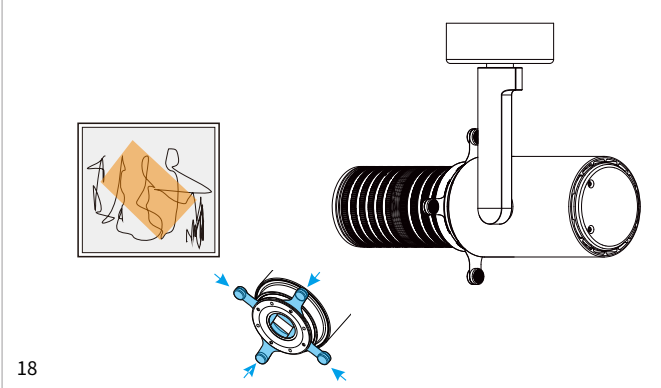
II. When the edge of the square spot becomes rough or granular (Figure 14), please open the lens and wipe the green edge in Figure 7 with a dust-free cloth or eyeglass cloth.

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.

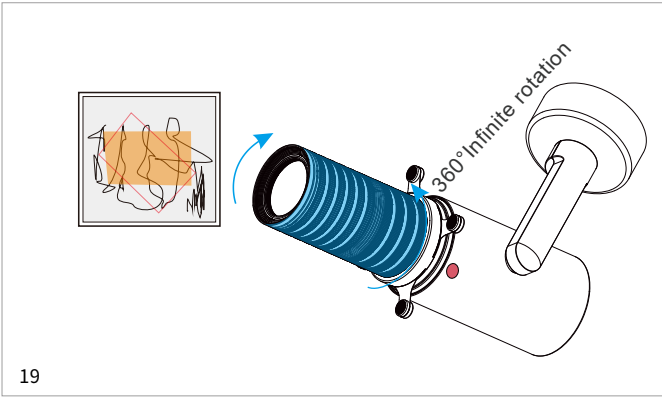
Instruction Manual



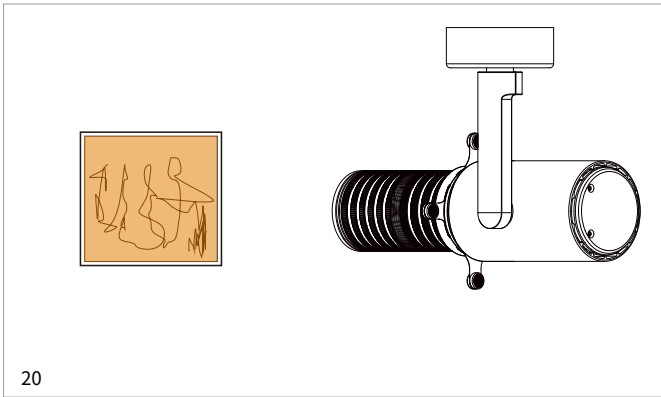
I. Adjust the aperture to the appropriate size, and facing the center of the irradiated object, adjust the sharpness to a reasonable degree, as shown in Figure 17.



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.