

ELFB Series Instruction Guide



Thank you for purchasing a CCS product. To ensure proper use of the product, please read this instruction guide before use and keep it for your reference.

1 Important Information for Equipment Safety

This product has been designed with full consideration of safety. However, incorrect usage of the product may result in fire, electric shock, or other serious damages. Please ensure to follow the conditions below.

Warning

Do not look directly or with any optical instrument into the light beam	Do not try to fix any damages to the product by yourself
Avoid any contact with the LED or with the projection lens	Make sure you are using a correct power supply before connecting the device
IP50 version: Limited dust ingress protection, no protection from liquids	Do not inverse the electrical polarity. Check your connections before turning on the power supply
IP67 version: Total dust protection, do not immerse the product deeper than 1 meter into water	Do not use user-made cables, only dedicated EL Series cables
Do not use the device in an environment with oil fumes and steam	Do not touch the light unit and cables with wet hands
Make sure that the light unit is free of moisture or any liquid. Exposure to water may result in fire or electric shock	Do not drop the light unit or subject it to impact

Do not use the light in the following situations:

- Under no conditions or in an environment not described in this instruction guide
- In applications involving serious risk to life or property, particularly application demanding a high level of safety.
- Do not use this device outside an environment temperature of 0°C to 50°C with no excessive moisture levels. High humidity and high temperature could damage the device. Just check with the temperature on the datasheet.

Always observe the following precautions when performing maintenance.

- Before performing maintenance, always turn off the power. Otherwise, burn injuries or electric shock may occur.
- Wipe the light unit with a dry cloth. Do not wipe the light unit with a cloth that contains water or volatile agents, such as thinner or benzene, or spray the light units with insecticide. Doing so may result in discoloration or damage.
- Periodically clean the light unit so that dust does not collect on it.

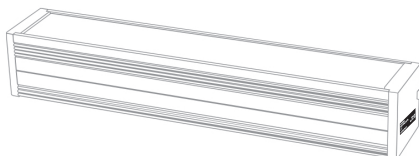
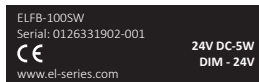
Cleaning

- When changing the optical configuration of the ELFB Series, please exercise caution. Wearing gloves is strongly recommended.
- When cleaning the optical components, use compressed air if there is any dust.
- To remove marks on the lens or diffuser plate, please use lens clearing fluids.
- Two drops on a cleaning tissue will suffice. Please use a gentle circular motion when clearing.
- Disconnect the light

2 Confirming Product Information

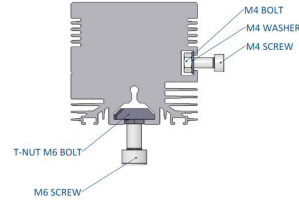
The following sticker is attached to the light unit. The sticker indicates the color of the light, model number, power consumption unit, and serial number. Be sure to check the contents before using the light units and handle the sticker with care. If the label is missing or damaged and the contents cannot be checked, please contact your CCS representative.

Example image



3 Installation

This product has been designed with full consideration of safety. However, incorrect usage of the product may result in fire, electric shock, or other serious damages. Please ensure to follow the conditions below.



4 Main Specifications

Power consumption is given for white products. Power consumption for other wavelengths may differ. The power consumption will be specified on the products.

Series	Part Number	Color	Wavelength / Color temperature	Max Power Consumption	Connector	Weight
ELFB	ELFB-100SW	White	5500 K ± 500 K	5 W	M12	400 g
ELFB	ELFB-100BL	Blue	465 nm			
ELFB	ELFB-100GR	Green	525 nm			
ELFB	ELFB-100RD	Red	625 nm			
ELFB	ELFB-100IR	Infrared	850 nm			
ELFB	ELFB-200SW	White	5500 K ± 500 K	10 W	M12	700 g
ELFB	ELFB-200BL	Blue	465 nm			
ELFB	ELFB-200GR	Green	525 nm			
ELFB	ELFB-200RD	Red	625 nm			
ELFB	ELFB-200IR	Infrared	850 nm			
ELFB	ELFB-300SW	White	5500 K ± 500 K	15 W	M12	1000 g
ELFB	ELFB-300BL	Blue	465 nm			
ELFB	ELFB-300GR	Green	525 nm			
ELFB	ELFB-300RD	Red	625 nm			
ELFB	ELFB-300IR	Infrared	850 nm			
ELFB	ELFB-400SW	White	5500 K ± 500 K	20 W	M12	1300 g
ELFB	ELFB-400BL	Blue	465 nm			
ELFB	ELFB-400GR	Green	525 nm			
ELFB	ELFB-400RD	Red	625 nm			
ELFB	ELFB-400IR	Infrared	850 nm			
ELFB	ELFB-500SW	White	5500 K ± 500 K	25 W	M12	1600 g
ELFB	ELFB-500BL	Blue	465 nm			
ELFB	ELFB-500GR	Green	525 nm			
ELFB	ELFB-500RD	Red	625 nm			
ELFB	ELFB-500IR	Infrared	850 nm			
ELFB	ELFB-600SW	White	5500 K ± 500 K	30 W	M12	1900 g
ELFB	ELFB-600BL	Blue	465 nm			
ELFB	ELFB-600GR	Green	525 nm			
ELFB	ELFB-600RD	Red	625 nm			
ELFB	ELFB-600IR	Infrared	850 nm			
ELFB	ELFB-700SW	White	5500 K ± 500 K	35 W	M12	2200 g
ELFB	ELFB-700BL	Blue	465 nm			
ELFB	ELFB-700GR	Green	525 nm			
ELFB	ELFB-700RD	Red	625 nm			
ELFB	ELFB-700IR	Infrared	850 nm			
ELFB	ELFB-800SW	White	5500 K ± 500 K	40 W	M12	2500 g
ELFB	ELFB-800BL	Blue	465 nm			
ELFB	ELFB-800GR	Green	525 nm			
ELFB	ELFB-800RD	Red	625 nm			
ELFB	ELFB-800IR	Infrared	850 nm			
ELFB	ELFB-900SW	White	5500 K ± 500 K	45 W	M12	2800 g
ELFB	ELFB-900BL	Blue	465 nm			
ELFB	ELFB-900GR	Green	525 nm			
ELFB	ELFB-900RD	Red	625 nm			
ELFB	ELFB-900IR	Infrared	850 nm			
ELFB	ELFB-1000SW	White	5500 K ± 500 K	50 W	M12	3100 g
ELFB	ELFB-1000BL	Blue	465 nm			
ELFB	ELFB-1000GR	Green	525 nm			
ELFB	ELFB-1000RD	Red	625 nm			
ELFB	ELFB-1000IR	Infrared	850 nm			
ELFB	ELFB-1100SW	White	5500 K ± 500 K	55 W	M12	3400 g
ELFB	ELFB-1100BL	Blue	465 nm			
ELFB	ELFB-1100GR	Green	525 nm			

