

ELF-C39 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	Make sure you are using a correct power supply before connecting the device
Avoid any contact with the LED or with the projection lens	Do not inverse the electrical polarity. Check your connections before turning on the power supply
IP50: Limited dust ingress protection, no protection from liquids	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 try to fix any damages to the product by yourself	

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.

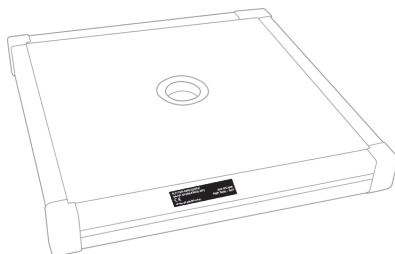
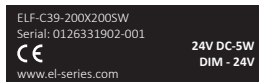
Cleaning

- When changing the optical configuration of the ELF-C39 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

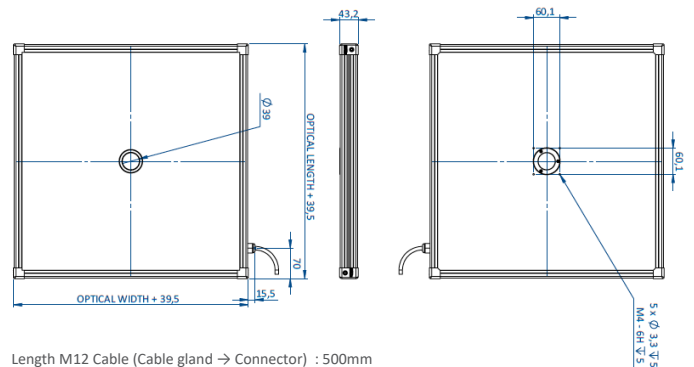


3 Main Specifications

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
ELF-C39	ELF-C39-200x200SW	White	5500 K ± 500 K	30 W	M12	1900 g
ELF-C39	ELF-C39-200x200RD	Red	625 nm			
ELF-C39	ELF-C39-200x200IR	Infrared	850 nm			
ELF-C39	ELF-C39-200x200BL	Blue	465 nm			
ELF-C39	ELF-C39-300x300SW	White	5500 K ± 500 K	65 W	M12	3500 g
ELF-C39	ELF-C39-300x300RD	Red	625 nm			
ELF-C39	ELF-C39-300x300IR	Infrared	850 nm			
ELF-C39	ELF-C39-300x300BL	Blue	465 nm			
ELF-C39	ELF-C39-400x400SW	White	5500 K ± 500 K	110 W	M12P	5000 g
ELF-C39	ELF-C39-400x400RD	Red	625 nm			
ELF-C39	ELF-C39-400x400IR	Infrared	850 nm			
ELF-C39	ELF-C39-400x400BL	Blue	465 nm			
ELF-C39	ELF-C39-500x500SW	White	5500 K ± 500 K	175 W	M12P	7900 g
ELF-C39	ELF-C39-500x500RD	Red	625 nm			
ELF-C39	ELF-C39-500x500IR	Infrared	850 nm			
ELF-C39	ELF-C39-500x500BL	Blue	465 nm			
ELF-C39	ELF-C39-600x600SW	White	5500 K ± 500 K	250 W	M12P	12800 g
ELF-C39	ELF-C39-600x600RD	Red	625 nm			
ELF-C39	ELF-C39-600x600IR	Infrared	850 nm			
ELF-C39	ELF-C39-600x600BL	Blue	465 nm			

4 Dimensions Diagram (mm)



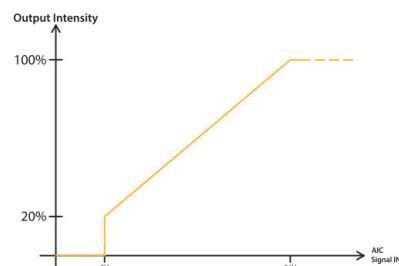
5 Electronical consideration

When using the ELF-C39 Series, please use a 24V DC. Please note that needs AIC contact to be connected when using the ELF-C39 Series.

Contact arrangement

Contact arrangement	Number	Color contact	Designation
 M12 Male connector M12 Power Male connector Connector depends on electrical power consumption	1	Brown	+24V
	2	White	n.a.
	3	Blue	GND
	4	Black	AIC: Analog Intensity Control for Dimming Control Consumption depending on the size (between 0.3mA to 10mA) Suggested dimming range: min 5V - max 24V

Dimming control feature



EU RoHS Directive

The RoHS Directive is short for the “Restriction of use of certain Hazardous Substances in electrical and electronic equipment.” As a directive, it restricts the use of specific hazardous substances for new electrical and electronic equipment marketed in the EU on or after July 1, 2006, and restricts the use of six substances, which are (1) lead, (2) mercury, (3) cadmium, (4) hexavalent chromium, (5) polybrominated biphenyl (PBB), and (6) polybrominated diphenyl ether (PBDE).

*Standards for “RoHS Directive-Compliant Products”

Lead	Mercury	Cadmium	Hexavalent chromium	PBB	PBDE
1000ppm max.	1000ppm max.	1000ppm max.	1000ppm max.	1000ppm max.	1000ppm max.

(Items that are exempted in the RoHS Directive are excluded from these standards.)

Warranty Information

EXCEPT FOR THE EXPRESS WARRANTIES STATED IN THIS DOCUMENT, CCS MAKES NO ADDITIONAL WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, AS TO ANY MATTER WHATSOEVER. IN PARTICULAR, ANY AND ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.
EXCEPT AS EXPRESSLY SET FORTH HEREIN, CCS MAKES NO WARRANTIES WITH RESPECT TO THE PRODUCTS.

WARRANTY PERIOD: EL SERIES PRODUCTS HAVE A WARRANTY OF 2 YEARS (ONE YEAR FOR RADIANT QUANTITY) FROM THE DATE THE PRODUCT IS SHIPPED FROM THE MANUFACTURER. EXCEPTIONS ARE UV PRODUCTS (WAVELENGTH UNDER 420NM) WHICH HAVE A WARRANTY OF 1 YEAR, AND POLARIZERS WHICH HAVE NO WARRANTY.

CCS Inc. WILL REPAIR OR REPLACE THE PRODUCT FREE OF CHARGE IF IT SHOULD FAIL TO FUNCTION OR IF THE RADIANT QUANTITY OF THE PRODUCT SHOULD DROP TO 50% OR LESS OF ITS INITIAL RADIANT QUANTITY WITHIN THE SPECIFIED WARRANTY PERIOD. IF EITHER OF THESE CONDITIONS OCCURS, PLEASE TAKE THE PRODUCT TO YOUR CCS SALES REPRESENTATIVE.

WARRANTY TERMS

- CCS Inc. WILL REPAIR OR REPLACE THE PRODUCT FREE OF CHARGE IF IT SHOULD FAIL TO FUNCTION UNDER USE ON OUR SPECIFIED CONDITION IN ACCORDANCE WITH THE INSTRUCTION GUIDE AND OTHER WRITTEN CAUTIONS DURING THE INDICATED WARRANTY PERIOD OF TWO YEARS.
- CCS Inc. WILL REPAIR OR REPLACE THE PRODUCT FREE OF CHARGE IF ITS RADIANT QUANTITY SHOULD DROP TO 50% OR LESS OF ITS INITIAL RADIANT QUANTITY UNDER USE ON OUR SPECIFIED CONDITION IN ACCORDANCE WITH THE INSTRUCTION GUIDE AND OTHER WRITTEN CAUTIONS DURING THE INDICATED WARRANTY PERIOD OF ONE YEAR.
- CCS Inc. WILL CHARGE A REPAIR FEE UNDER THE FOLLOWING CONDITIONS:
 - IF THE PRODUCT HAS BEEN SUBJECTED TO MISUSE, UNAUTHORIZED REPAIRS, OR MODIFICATION FROM ITS ORIGINAL DESIGN.
 - IF THE PRODUCT HAS BEEN DAMAGED FROM IMPACTS DUE TO INAPPROPRIATE HANDLING.
 - IF DAMAGE TO THE PRODUCT RESULTS FROM EXTERNAL CAUSES INCLUDING ACCIDENTS, FIRE, POLLUTION, RIOTS, COMMUNICATION FAILURES, EARTHQUAKES, THUNDERSTORMS, WIND AND FLOOD DAMAGE, OR ANY OTHER ACT OF PROVIDENCE, OR FROM ANY EXTRAORDINARY CONDITIONS SUCH AS ELECTRICAL SURGES, WATER LEAKAGE, CONDENSATION, OR THE USE OF CHEMICALS.
 - IF THE DAMAGE RESULTS FROM CONNECTION TO ANY POWER SUPPLY OR TO ANY EQUIPMENT WHICH CCS Inc. DOES NOT MANUFACTURE OR DOES NOT SPECIFY FOR USE.
- CCS ASSUMES NO LIABILITY FOR ANY PURCHASER'S SECONDARY DAMAGE (DAMAGE OF EQUIPMENT, LOSS OF OPPORTUNITIES, LOSS OF PROFITS, ETC.) OR ANY OTHER DAMAGE RESULTING FROM A FAILURE OF OUR PRODUCT.

THIS WARRANTY INFORMATION PROVIDES THE SCOPE OF CCS'S PRODUCT WARRANTY WITHIN THE SPECIFIED PERIOD, AND DOES NOT INDICATE OR IMPLY ANY FURTHER GUARANTEE BEYOND THE WARRANTY TERMS.

CONTACT CCS FOR INQUIRIES OR INFORMATION ON REPAIRS TO THE PRODUCT AFTER THE EXPIRATION OF THE WARRANTY.

NOTE: THE RADIANT QUANTITY REFERS TO THE WATTAGE OF PHYSICAL ENERGY RADIATED FROM AN LED. IT REFERS TO THE RADIATION LUMINOSITY OF THE LED MEASURED UNDER CONDITIONS SPECIFIED BY CCS OR THE RADIATION ILLUMINATION OF THE LED UNDER SPECIFIED IRRADIATION CONDITIONS. CCS SPECIFIES THE RADIANT QUANTITY FOR EACH LED LIGHT BECAUSE THE MEASUREMENT AND IRRADIATION CONDITIONS VARY FROM THE FORM, THE APPLICATION AND THE IRRADIATION WAVELENGTH.

- Contents of this Instruction Guide may be changed without prior notice.
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Instruction Guide and Dimensional Diagrams in PDF or CAD can be downloaded from the CCS website.
<http://www.el-series.com>

Ask any product queries to the following address or to your nearest CCS representative.



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Use our website to find nearest CCS representative

<http://www.ccs-grp.com/mvad>