

PATLITE®
LED Work Light
TYPE CWF
INSTRUCTION MANUAL

[95100064_02]
 [Installation]
 [Operation]
 [Maintenance]

Notice to Customer Thank you very much for purchasing our product.
 • Request the installation and wiring be performed by a professional contractor if construction work is involved.
 • Prior to installation, read this manual thoroughly before using this product to ensure correct use.
 • After reviewing this manual, if there are any questions regarding this product, please contact the nearest PATLITE office listed at the end of this manual.
Notice to Contractor Read this manual carefully prior to installation.
 • Be sure to return this manual to the customer.

Safety Precautions
 In order to prevent any damage to the user and other personnel or to assets, note the following:
 • The indications for warning are divided into the following classes according to the degree of danger or damage incurred when the warning is not taken into consideration and the product is not correctly used.

- ▲ Warning** Indicates an imminently dangerous condition:
 Failure to follow the instructions may lead to death or serious injury.
- ▲ Caution** Indicates a potentially dangerous condition:
 Failure to follow the instructions may lead to slight injury or property damage.
- ◆ The following symbols indicate and explain the nature of the information to be observed.
- ⊘** This symbol indicates "Prohibited", which should not be carried out by all means.
- ⓘ** This symbol indicates "Enforced", which should be observed and carried out by all means.

1 Read this First (Safety Precautions)

- ▲ Warning**
 - Do not disassemble or modify this product. Failure to comply may result in falling shock or fire.
 - Always use the correct method when climbing onto this product to climb onto a machine, or to get anything snagged onto this product while it is mounted on equipment, etc. Failure to comply may result in falling off the machinery or product damage may occur.
 - Do not pour water, nor cut it in water.
 - This may cause fire, short circuit and/or electric shock.
- ⓘ**
 - Be sure to disconnect the power when wiring, mounting, exchanging, or repairing the product. Failure to comply may result in damage of the internal circuitry and the danger of electric shock, due to short-circuiting.
 - Request the installation and wiring to be accompanied by a professional electrician. Failure to comply may result in electric shock, fire, or falling from high places.
 - When this product is used for security purposes, it should be inspected daily, and to be used in conjunction with other security products, in case a malfunction should occur.
 - Verify the installation location is a firm location which can handle the weight of the product and has no adverse vibrations. If installed in a place where vibration is frequent and/or exceeds the specifications, damage to the product may occur.
 - The designated screws should be used for installation. Any parts used that are not specified may result in product damage or personal injury.
 - Make sure this product is properly installed and wired.
 - Improper wiring and installation may result in fire, short circuiting and/or electric shock.

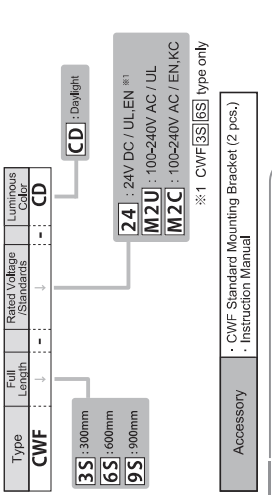
▲ Caution

- In order to avoid danger to the eyes, do not stare into the beam, do not view directly into the optical instrument, and don't turn the beam towards someone's eyes.
- The LED beam is hazardous to the eyes.
- Do not loosen any body screws. It will have an adverse effect on the protection rating.
- Verify that the specified operating voltage is not exceeded.
- For safety measures, be sure to connect an external fuse to protect from overcurrents or overvoltages from mis-wiring, etc.
- The product can be protected by short-circuiting due to mis-wiring and overcurrents or overvoltages which can damage it.
- Avoid installation in the following locations:
 • In locations where temperatures are present.
 • In locations where chemical or explosive gasses, etc., are present.

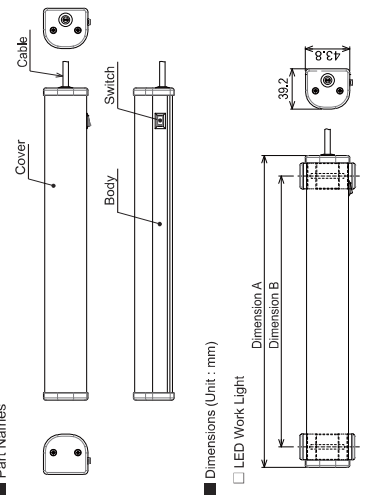
Notice

- To ensure proper safety while using the LED work light, observe the following:
 • Perform periodic pre-maintenance.
 • As a precaution against problems occurring, use this product together with other equipment.
 • Be sure to disconnect the power before handling static sensitive parts of this product.
 • To prevent damage from static electricity, touch hands or other body parts to metals (to earth ground to discharge the body from static charge).
 • Use a soft cloth moistened with water when the LED unit or body must be cleaned up. (Do not use thinner, benzene, gasoline or oil.)
 • To ensure safety when this product is installed onto equipment, observe the following:
 • Do not use the product in a place where it is not intended to be removed from this product.
 • Do not modify or disassemble this product.

2 Model Number Configuration



3 Part Names and Dimensions



[Table 1. Dimensions]

| Model | Dimension A | Dimension B |
|------------|-------------|-------------|
| CWF3S-□-CD | 300 | 260 |
| CWF6S-□-CD | 600 | 560 |
| CWF9S-□-CD | 900 | 860 |

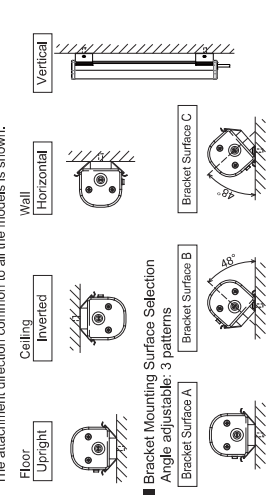
| Model | Body Length | Bracket Pitch |
|------------|-------------|---------------|
| CWF3S-□-CD | 300 | 260 |
| CWF6S-□-CD | 600 | 560 |
| CWF9S-□-CD | 900 | 860 |

□ CWF Standard Mounting Bracket (Tilt type)

4 How to Install

- ▲ Warning**
 - Do not modify or disassemble the product. Failure to comply may result in electric shock or fire.
 - After installing this product, be careful not to use this product to climb onto a machine, or to get anything snagged onto this product while it is mounted on equipment, etc. Failure to comply may result in falling off the machinery or product damage may occur.
 - To prevent from electrocution, disconnect power prior to mounting or performing maintenance.
 - Verify the installation location is a firm location which can handle the weight of the product and has no adverse vibrations. If installed in a place where vibration is frequent and/or exceeds the specifications, damage to the product may occur.
 - The designated screws should be used for installation. Any parts used that are not specified may result in product damage or personal injury.
- ⊘**
 - Ensure this product is securely mounted, to prevent from falling, etc.
 - This product is for indoor use only. (Not for outdoor use)

Product Mounting Direction



Installation Location

1. **SUITABLE FOR DAMP LOCATIONS.**
 - Select a damp location that is not exposed to water spray or mist.
 - Attach the bracket to the mounting surface.
 - After tapping the mounting holes onto a flat and sturdy surface, use two M4 screws for mounting.
 - Attach an M4 screw in the desired "Mounting Rail" and tighten.
2. Attach the product to the bracket.
 - Recommended torque: 1.5 N.m
 - Mounting screws not included.
3. Attach the product to the bracket.
 - After the bracket is mounted to a sturdy surface, snap the product into place.

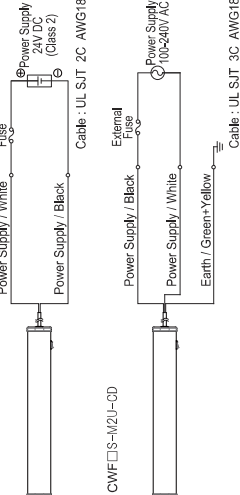
5 Wiring

- ▲ Warning**
 - Be sure to disconnect the power when wiring, mounting, exchanging, or repairing the product. Failure to do so may result in damage of the internal circuitry and the danger of electric shock due to short-circuiting.
- ▲ Caution**
 - Check that the proper voltage is connected before applying power.
 - Do not pull on the cable, or try to push it inside the unit.
 - Possible cause of failure may occur. In addition, allow a margin of slack for the wire and cable to prevent stress.
 - Use a constant-voltage regulated power supply.
 - Install a fuse to protect it from the power supply. The product can be protected by short-circuiting due to mis-wiring and overcurrents or overvoltages which can damage it.

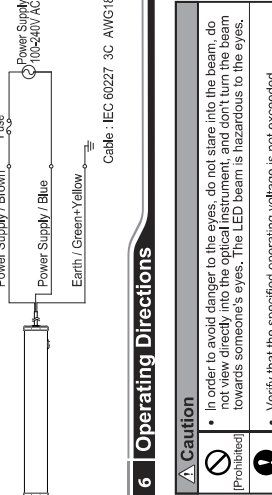
Notice

- Use a UL authenticated Class 2 power supply unit to connect power to this product.
- The power supply unit is a constant voltage type, [Z2] type only.)
- This product contains a ZA (slow-blow) fuse inside.
- Use an external fuse rated for the machine, which is connected to the product, to protect the machine from damage.

Wiring Method



CWF□S-M2C-0D



6 Operating Directions

- ▲ Caution**
 - In order to avoid danger to the eyes, do not stare into the beam, do not view directly into the optical instrument, and don't turn the beam towards someone's eyes. The LED beam is hazardous to the eyes.
 - Verify that the specified operating voltage is not exceeded.
- ⓘ**
 - Switch Operation-
 Light OFF
 Light ON

7 Maintenance and Inspection

If the product does not work after referring to the table below, please request to PATLITE Sales Representative for repair. PATLITE will do the repair, when wiring, mounting, exchanging, or repairing the product can only be made by the PATLITE, our service agent or similarly qualified person (professional contractor). In addition, if there are any questions concerning this product, feel free to contact your PATLITE Sales Representative.

| Problem | Where to Check | What to Do |
|-------------------|---------------------------------|---|
| Does not light up | Is the power properly supplied? | Verify the voltage has been connected. Verify the proper polarity. Verify the proper voltage is supplied. (24V DC / 100-240V AC) Verify the external fuse has not been burned-out. |

8 Specifications

| Model | CWF3S-24 | CWF6S-24 | CWF9S-M2 | CWF6S-M2 | CWF9S-M2 |
|-------------------------------|---------------------------------|---------------------------|----------------------------|------------|-----------------|
| Color Temperature (typ.) | 165 K | 320 K | 150 K | 320 K | 445 K |
| Illuminance (typ.) (Center) | 1.0m | 500 lm | 1000 lm | 1000 lm | 1500 lm |
| Total Luminous Flux (typ.) | 24V DC | 24V DC | 100-240V AC (50/60Hz) | 90-264V AC | |
| Rated Voltage | 24V DC | 24V DC | 100-240V AC (50/60Hz) | 90-264V AC | |
| Operating Voltage Range | Rated Voltage ± 10% | | | | |
| Rated Power Consumption | 5 W | 10 W | 5 W | 10 W | 15 W |
| Operating Ambient Temperature | -25 °C ~ +60 °C | | | | -20 °C ~ +50 °C |
| Operation Ambient Humidity | 90% RH or less, no condensation | | | | |
| Mounting Location | Indoor | | | | |
| Mounting Direction | All Directions | | | | |
| Protection Rating | IP20 | | | | |
| Mass (Tolerance ± 10%) | M2U:0.53 kg M2C:0.46 kg | M2U:0.68 kg M2C:0.6 kg | M2U:0.84 kg M2C:0.76 kg | | |

(Note) • Dimensions and specifications may change without notice due to every LED and every product.
 • The specifications are subject to change according to the specified conditions or unregulated time, the protection rating is not guaranteed for an extended period of time.
 • PATLITE and the PATLITE logo is a trademark, or registered trademark of the PATLITE Corporation of Japan and each country.

PATLITE Corporation GSG
 PATLITE Corporation ※Head office ■ <http://www.patlite.com/>
 4-1-3, Kyutonomachi, Chuo-ku, Osaka 541-0056, Japan
 PATLITE (U.S.A.) Corporation ■ <http://www.patlite.eu/>
 PATLITE Europe GmbH ■ <http://www.patlite.eu/>
 PATLITE (SINGAPORE) PTE LTD ■ <http://www.patlite.com/>
 PATLITE (CHINA) Corporation ■ <http://www.patlite.cn/>
 PATLITE KOREA CO., LTD. ■ <http://www.patlite.co.kr/>
 PATLITE TAIWAN CO., LTD. ■ <http://www.patlite.tw/>
 PATLITE (THAILAND) CO., LTD. ■ <http://www.patlite.co.th/>

(Importer for EU)
 PATLITE Europe GmbH, Am Seidnermoos 8, D-85359 Hallbergmoos, Germany