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kadision FL-50C2-50-D

kadision LED Flood Light FL-50C2-50-D User Manual

Model: FL-50C2-50-D | Brand: kadision

1. PRODUCT OVERVIEW

The kadision LED Flood Light, model FL-50C2-50-D, is designed for outdoor illumination. This 50-watt fixture provides 6500 lumens of 5000K white light, serving as an energy-efficient alternative to traditional 400W incandescent bulbs. It features a built-in dusk-to-dawn photocell for automatic operation and an adjustable knuckle mount for directional lighting.



Figure 1: kadision 50W LED Flood Light, model FL-50C2-50-D.

2. KEY FEATURES

- **High Efficiency Illumination:** Delivers 6500 lumens of 5000K (Daylight) light with 50 watts of power.
- **Dusk-to-Dawn Photocell:** Integrated sensor automatically turns the light on at dusk and off at dawn, optimizing energy use and convenience.
- **Adjustable Knuckle Mount:** A 180-degree adjustable swivel arm allows precise vertical positioning of the light head.
- **Durable Construction:** Constructed from aluminum with a powder-coated finish, ensuring resistance to various weather conditions.
- **Weatherproof Design:** IP65 rated for wet locations, providing protection against dust and water ingress.
- **Wide Voltage Range:** Operates efficiently within a 100-277V input voltage range.
- **ETL Listed:** Certified for safety and quality standards.

3. INSTALLATION INSTRUCTIONS

Safety First: Before beginning installation, ensure the power supply to the installation area is turned off at the circuit breaker to prevent electrical shock.

1. **Prepare Mounting Surface:** This flood light is designed for wall mount installation using a 1/2 NTP arm mount. Ensure the mounting surface is sturdy and capable of supporting the fixture's weight. A suitable junction box (not included) is required for wiring.
2. **Attach Mounting Arm:** Secure the 1/2 NTP arm mount to the junction box or mounting surface. Ensure it is tightened properly to prevent movement.
3. **Wiring Connections:**
 - Connect the black wire from the fixture to the live (hot) wire from the power supply.
 - Connect the white wire from the fixture to the neutral wire from the power supply.
 - Connect the green or bare copper wire from the fixture to the ground wire from the power supply.

Ensure all connections are secure using appropriate wire connectors and are enclosed within the junction box.

4. **Mount the Fixture:** Attach the flood light fixture to the mounting arm. Tighten all screws to secure the light in place.
5. **Adjust Light Direction:** Utilize the 180-degree adjustable knuckle to direct the light beam to the desired area. Tighten the adjustment screw once the desired angle is achieved.
6. **Restore Power:** Once installation is complete and all connections are secure, restore power at the circuit breaker.

180° ADJUSTABLE KNUCKLE

Easy to Change Light Direction

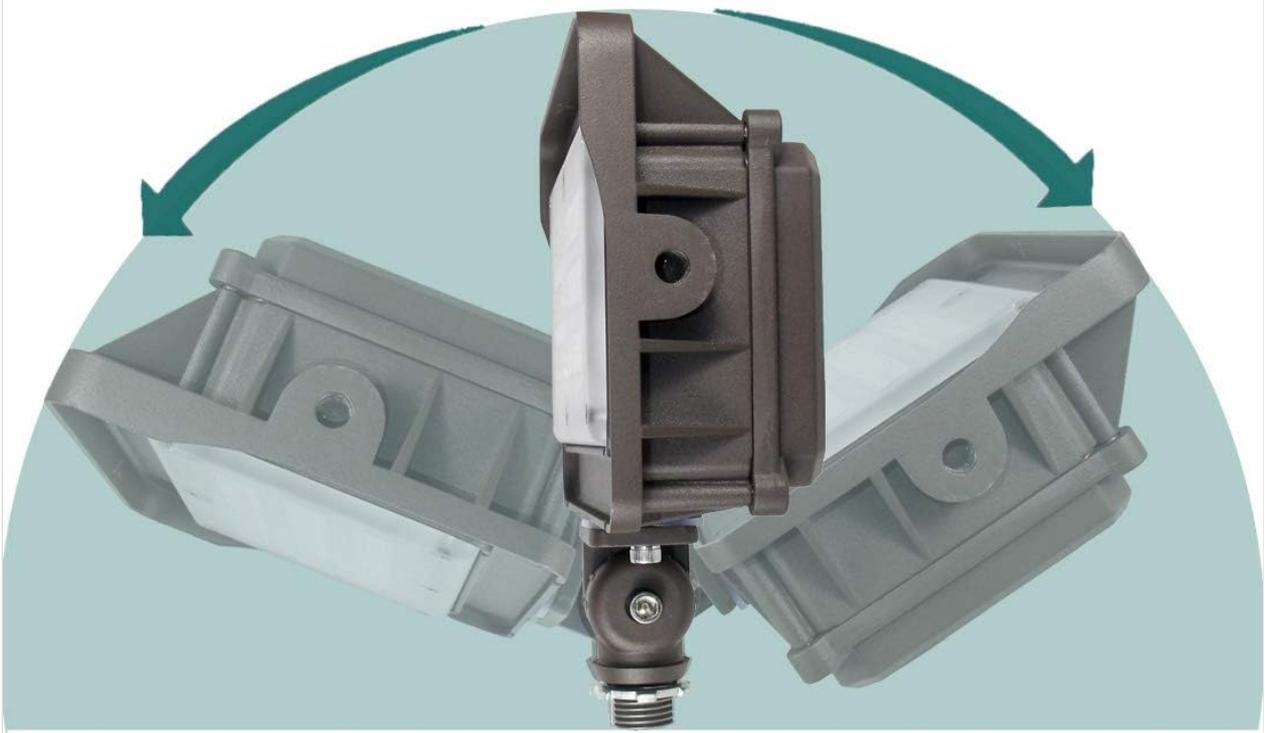


Figure 2: The 180-degree adjustable knuckle allows for precise light direction.

LED Flood Light Dimension

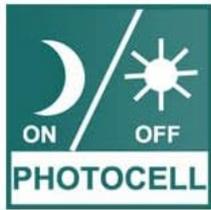


Figure 3: Product dimensions for installation planning (7.3"L x 2.4"W x 7.2"H).

4. OPERATING INSTRUCTIONS

The kadision LED Flood Light is equipped with a built-in dusk-to-dawn photocell for automatic operation.

- **Automatic On/Off:** Once installed and powered, the photocell sensor will detect ambient light levels. The flood light will automatically turn on when it detects insufficient natural light (dusk) and turn off when sufficient natural light is present (dawn).
- **No Manual Control Required:** This feature eliminates the need for manual switching or external timers.
- **Photocell Placement:** Ensure the photocell sensor (typically a small clear dome on the fixture) is not obstructed by objects, dirt, or other light sources, as this can interfere with its proper function.



Photocell Dusk to Dawn Auto On and Off



Figure 4: Location of the photocell sensor for automatic operation.

5. MAINTENANCE

The kadision LED Flood Light is designed for minimal maintenance. Regular cleaning and inspection will help ensure optimal performance and longevity.

- **Cleaning:** Periodically clean the lens and the photocell sensor with a soft, damp cloth to remove dirt, dust, or debris that may accumulate. Avoid abrasive cleaners or solvents.
- **Inspection:** Annually inspect the fixture for any signs of damage, loose connections, or wear. Ensure the mounting arm remains securely fastened.
- **No User-Serviceable Parts:** The LED light source is integrated and not user-replaceable. Do not attempt

to open the sealed housing.



Figure 5: The IP65 rating ensures durability against outdoor elements, simplifying maintenance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on at dusk.	<ul style="list-style-type: none">• No power supply.• Photocell obstructed or faulty.• Wiring error.	<ul style="list-style-type: none">• Check circuit breaker and power connections.• Clean photocell sensor. Ensure no external light source is shining directly on it.• Verify wiring connections as per installation instructions.

Problem	Possible Cause	Solution
Light stays on during the day.	<ul style="list-style-type: none"> • Photocell obstructed or faulty. • Insufficient ambient light reaching the photocell. 	<ul style="list-style-type: none"> • Clean photocell sensor. Ensure no objects are casting shadows on it. • Relocate the fixture if it's in a perpetually shaded area.
Light flickers or dims.	<ul style="list-style-type: none"> • Loose wiring connection. • Voltage fluctuations. 	<ul style="list-style-type: none"> • Check and secure all wiring connections. • Consult an electrician to check power supply stability.

7. SPECIFICATIONS

Attribute	Detail
Brand	kadision
Model Number	FL-50C2-50-D
Wattage	50 watts
Brightness	6500 Lumens
Color Temperature	5000 Kelvin (Cold White/Daylight)
Voltage	100-277 Volts
Material	Aluminum (Housing), Polycarbonate (Shade)
Color	Dark Grey (Fixture), Transparent (Shade)
Product Dimensions	7.3"L x 2.4"W x 7.2"H
Item Weight	2.2 pounds
Water Resistance Level	IP65 Waterproof
Special Features	Dusk-to-Dawn Photocell Auto On/Off, Adjustable Knuckle, Hardwired
Installation Type	Wall Mount (Arm-mount)
Light Source Type	LED
Specification Met	ETL Listed
Included Components	Built-in Photocell, Mounting Arm (J-box Cover Not Included)

8. WARRANTY AND SUPPORT

kadision provides a **5-year warranty** for this LED Flood Light. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or any questions regarding your product, please contact kadision customer support through the retailer's messaging service or visit the official kadision website.

Contact Information:

- Online: [kadision Store on Amazon](#)
- Refer to your purchase documentation for specific contact details.