

Lithonia Lighting BGR ALO SWW2 MVOLT PER DNA M2

Lithonia Lighting BarnGuard LED Barn Light

Model: BGR ALO SWW2 MVOLT PER DNA M2

Brand: Lithonia Lighting

1. INTRODUCTION

This manual provides comprehensive instructions for the safe installation, operation, and maintenance of your Lithonia Lighting BarnGuard LED Barn Light. This versatile outdoor fixture features adjustable brightness and color temperature, along with an integrated dusk-to-dawn sensor for efficient operation. Please read this manual thoroughly before proceeding with installation or use to ensure proper functionality and safety.

2. IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power at the fuse or circuit breaker before installation or servicing.

- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Ensure the fixture is properly grounded to avoid potential electrical hazards.
- Do not look directly into the LED light source when the fixture is powered on, as this may cause eye damage.
- Do not attempt to modify or disassemble the fixture beyond what is described in this manual.
- Wear appropriate personal protective equipment (PPE) during installation, including safety glasses and gloves.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- BarnGuard LED Barn Light Fixture
- Integrated Twist-Lock Photocell (Dusk-to-Dawn Sensor)
- Lag Bolts (for mounting)
- LED Lens (pre-installed)

4. SETUP AND INSTALLATION

The BarnGuard LED Barn Light is designed for wall or pole mounting and is sealed for durability in wet locations. An optional mounting arm (sold separately) may be required for certain pole installations.

4.1. Tools Required (Not Included)

- Screwdriver
- Wire strippers
- Drill (for pilot holes)
- Adjustable wrench
- Voltage tester

4.2. Installation Steps

1. **Disconnect Power:** Before starting any electrical work, ensure the power supply to the installation area is turned off at the circuit breaker or fuse box. Verify with a voltage tester.
2. **Choose Mounting Location:** Select a suitable location on a wall or pole that provides the desired illumination coverage and is structurally sound to support the fixture's weight.
3. **Mount the Fixture:**
 - **Wall Mount:** Use the included lag bolts to securely fasten the fixture's mounting bracket to the wall. Pre-drill pilot holes if necessary.
 - **Pole Mount:** If using an optional mounting arm (e.g., Lithonia Lighting OMA M6), attach the arm to the pole according to its instructions, then secure the BarnGuard fixture to the arm.
4. **Wiring Connections:**
 - Connect the fixture's black wire to the incoming hot (line) wire.
 - Connect the fixture's white wire to the incoming neutral wire.
 - Connect the fixture's green or bare copper wire to the incoming ground wire.
 - Ensure all connections are secure using appropriate wire connectors. This fixture operates on MVOLT 120-277V.
5. **Secure Wiring:** Tuck all wires neatly into the junction box or fixture housing, ensuring no wires are pinched.
6. **Restore Power:** Once installation is complete and all connections are secure, restore power at the circuit breaker.



Image: The BarnGuard LED Barn Light showing its integrated mounting bracket, suitable for wall or pole attachment. An optional mounting arm may be used for specific pole installations.

5. OPERATING INSTRUCTIONS

The BarnGuard LED Barn Light features automatic dusk-to-dawn operation and adjustable light settings.

5.1. Dusk-to-Dawn Functionality

The fixture is equipped with a twist-lock photocell that automatically detects ambient light levels. The light will turn on at dusk and turn off at dawn, providing energy-efficient operation without manual intervention.



Image: Top view of the BarnGuard light, highlighting the blue twist-lock photocell which enables automatic dusk-to-dawn operation.

5.2. Adjustable Brightness (Lumens)

The light output can be adjusted to suit your specific needs. Locate the lumen adjustment dial on the fixture. You can select between 6,000 lumens (low) or 10,000 lumens (high) settings.

5.3. Adjustable Color Temperature

The color temperature of the light can also be customized. Use the color temperature adjustment dial on the fixture to choose from three options:

- **3000K:** Warm White
- **4000K:** Cool White
- **5000K:** Daylight



Switchable Color Temperatures

3000K Warm White
4000K Cool White
5000K Daylight

Adjustable Lumen Output

Low
Medium
High



Image: A close-up view of the BarnGuard light, illustrating the two distinct dials for adjusting lumen output and selecting the desired color temperature (3000K, 4000K, or 5000K).

5.4. Removable Diffuser

The fixture includes a removable lower diffuser. This diffuser can be removed to provide some up-light and additional glare control, depending on your preference and application.



Image: An exploded view of the BarnGuard light, detailing the internal LED array and the transparent, removable lower diffuser.

6. MAINTENANCE

The Lithonia Lighting BarnGuard LED Barn Light is designed for minimal maintenance due to its durable construction and long-lasting LED components.

- **Cleaning:** Periodically clean the exterior of the fixture and the lens with a soft, damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or lens.
- **Inspection:** Annually inspect the fixture for any signs of physical damage, loose mounting hardware, or frayed wiring. Address any issues promptly.
- **Photocell:** Ensure the photocell is free from obstructions (e.g., leaves, dirt, snow) that could interfere with its light-sensing capabilities.

There are no user-serviceable parts inside the sealed LED compartment. Do not attempt to open the LED housing.

7. TROUBLESHOOTING

If your BarnGuard LED Barn Light is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	No power to the fixture. Photocell obstructed or faulty. Incorrect wiring.	Check circuit breaker/fuse. Ensure photocell is clear of debris/obstructions. Test photocell functionality. Verify wiring connections are correct and secure.
Light stays on during the day.	Photocell receiving insufficient light. Photocell faulty.	Ensure no artificial light source is shining on the photocell. Check photocell for damage or replace if necessary.
Light flickers or dims intermittently.	Loose wiring connection. Unstable power supply.	Check and tighten all electrical connections. Consult an electrician to check the power supply.
Light output is too low or too high.	Lumen setting is incorrect.	Adjust the lumen selection dial to the desired brightness (6,000 or 10,000 lumens).
Light color is not as desired.	Color temperature setting is incorrect.	Adjust the color temperature selection dial to 3000K, 4000K, or 5000K.

8. SPECIFICATIONS

Feature	Detail
Model Number	BGR ALO SWW2 MVOLT PER DNA M2
Dimensions (D x W x H)	11.42" x 9.45" x 9.13"
Weight	4.8 lbs
Voltage	MVOLT 120-277V
Light Source	Integrated LED
Material	Die-cast Aluminum Housing, Polycarbonate Lens
Mounting Type	Wall Mount, Pole Mount (with optional arm)
Brightness	Adjustable (6,000 or 10,000 Lumens)
Color Temperature	Switchable (3000K Warm White, 4000K Cool White, 5000K Daylight)
Control Method	Dusk-to-Dawn Photocell
Environmental Rating	UL Wet Location Rated
Certifications	DLC Qualified
Warranty	5-Year Limited Warranty

9. WARRANTY INFORMATION

The Lithonia Lighting BarnGuard LED Barn Light is backed by a **5-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service. For complete details regarding warranty coverage, limitations, and how to file a claim, please refer to the official Lithonia Lighting warranty documentation available on their website or contact customer support.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting guidance, or any other inquiries regarding your Lithonia Lighting BarnGuard LED Barn Light, please visit the official Lithonia Lighting website or contact their customer service department.

Lithonia Lighting Store: [Visit the Lithonia Lighting Store on Amazon](#)

Please have your model number (BGR ALO SWW2 MVOLT PER DNA M2) and date of purchase available when contacting support.

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