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› [Aurora - 30 Inch Off Road LED Light Bar - Single Row - Lumens 12,840-150 Watts User Manual](#)

### Aurora ALO-S1-30-P7E7J

## Aurora 30 Inch Off Road LED Light Bar User Manual

Model: ALO-S1-30-P7E7J

### INTRODUCTION

Thank you for choosing the Aurora 30 Inch Off Road LED Light Bar. This manual provides essential information for the proper installation, operation, and maintenance of your new light bar. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.



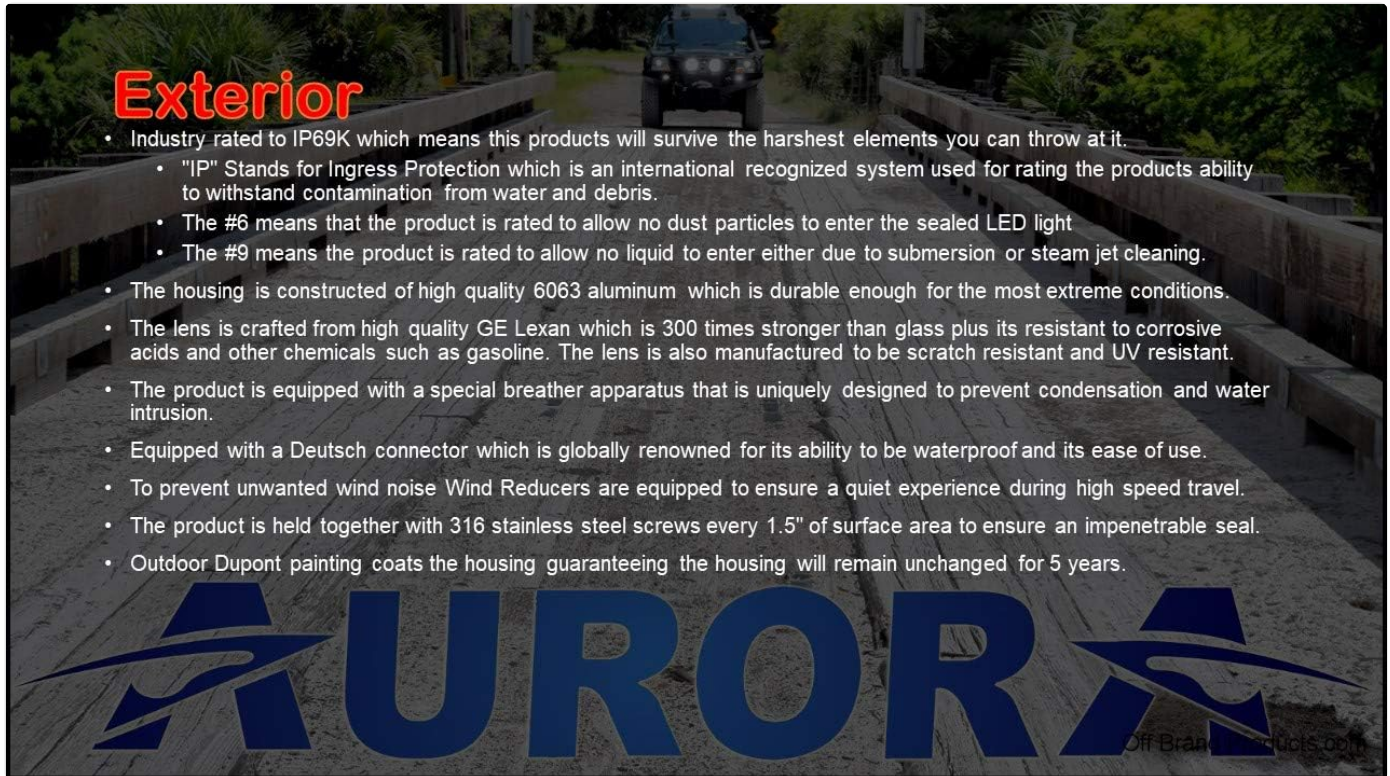
Front view of the Aurora 30-inch single row LED light bar, showcasing its sleek black housing and bright LED array.

### PRODUCT FEATURES

The Aurora 30 Inch Off Road LED Light Bar is engineered for extreme durability and superior performance, featuring advanced design and high-quality components:

- **IP69K Rating:** 100% sealed against dust and foreign contaminants, capable of withstanding high-pressure, high-temperature washdowns.
- **Robust Housing:** Constructed from high-quality 6063 aluminum, sealed with 316 stainless steel screws every 1.5 inches for an impenetrable seal.
- **Durable Lens:** Crafted from high-quality GE Lexan, 300 times stronger than glass, resistant to corrosive acids, chemicals (like gasoline), scratches, and UV radiation.
- **Advanced Breather Apparatus:** Uniquely designed to prevent condensation and water intrusion within the light bar.
- **Deutsch Connector:** Equipped with a globally renowned waterproof connector for ease of use and secure electrical connections.

- **Wind Reducers:** Integrated to prevent unwanted wind noise during high-speed travel.
- **Dupont Painting:** Outdoor Dupont painting coats the housing, ensuring color retention and protection for up to 5 years.
- **Cree LED Chips:** Utilizes USA-made Cree LED chips for low forward voltage, low heat generation, long life, and high ESD tolerance and resistance.
- **PCBA Protection:** The Printed Circuit Board Assembly (PCBA) features unique temperature, voltage, and current protection designs to maximize efficiency and increase durability, preventing electromagnetic interference with other vehicle electronics.
- **Overvoltage Protection:** Installed to prevent premature failure from accidental voltage fluctuations.




## Exterior

- Industry rated to IP69K which means this products will survive the harshest elements you can throw at it.
  - "IP" Stands for Ingress Protection which is an international recognized system used for rating the products ability to withstand contamination from water and debris.
  - The #6 means that the product is rated to allow no dust particles to enter the sealed LED light
  - The #9 means the product is rated to allow no liquid to enter either due to submersion or steam jet cleaning.
- The housing is constructed of high quality 6063 aluminum which is durable enough for the most extreme conditions.
- The lens is crafted from high quality GE Lexan which is 300 times stronger than glass plus its resistant to corrosive acids and other chemicals such as gasoline. The lens is also manufactured to be scratch resistant and UV resistant.
- The product is equipped with a special breather apparatus that is uniquely designed to prevent condensation and water intrusion.
- Equipped with a Deutsch connector which is globally renowned for its ability to be waterproof and its ease of use.
- To prevent unwanted wind noise Wind Reducers are equipped to ensure a quiet experience during high speed travel.
- The product is held together with 316 stainless steel screws every 1.5" of surface area to ensure an impenetrable seal.
- Outdoor Dupont painting coats the housing guaranteeing the housing will remain unchanged for 5 years.

# AURORA

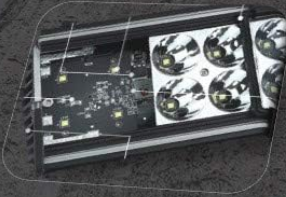
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Informational graphic detailing the exterior features of the light bar, such as its IP69K rating, 6063 aluminum housing, GE Lexan lens, and Dupont painting.



## Interior

- These products are all made with Cree LED chips (Made in the USA) which allow for low forward voltage, low heat generation, long life and high ESD tolerance and resistance.
- The PCBA (Printed Circuit Board Assembly) is engineered with unique temperature protection, voltage protection and current protection designs to maximize efficiency and increase durability. This unique design means no electromagnetic interference with other nearby electronics on your vehicle.
- Over voltage protection is installed prevent premature failure from accidental voltage fluctuations.



# AURORA

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Informational graphic explaining the interior components, including Cree LED chips and the advanced PCBA with temperature, voltage, and current protection.

## SPECIFICATIONS

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Detailed technical specifications for the Aurora 30 Inch Off Road LED Light Bar:

Size	30 inches
Beam Type	Combination
Dimensions (L x W x H)	31.9 x 3.2 x 1.8 inches
Number of LEDs	30
Number of LED Rows	1
Operating Temperature	-40 to 145 degrees Fahrenheit
Wattage	150 Watts
Operating Voltage	10-30V DC
Amp Draw	7.3 Amps
Lumens	12,840 lm
IP Rating	IP69
Life Span	50,000 hours
Housing Color	Black
Overall Height (when mounted)	2.5 inches
Item Weight	1.06 pounds (481.94 Grams)
Material	6063 Aluminum, 316 Stainless Steel, GE Lexan





## Aurora 30" LED Light Bar

- Size: 30"
- Beam Type: Combination
- Dimensions: 31.9" x 3.2" x 1.8"
- # of LED's: 30
- # of LED Rows: 1
- Operating temperature: -40 to 145 degrees
- Wattage: 150w
- Operating Voltage: 10-30V DC
- Amp Draw: 7.3A
- Lumens: 12,840lm
- IP Rating: IP69
- Life Span: 50,000 hours
- Housing color: Black
- Overall Height when mounted: 2.5"

Image displaying key specifications of the Aurora 30-inch LED light bar, including size, beam type, dimensions, number of LEDs, wattage, lumens, and IP rating.

## INSTALLATION

Proper installation is crucial for the performance and safety of your light bar. It is recommended to have this product installed by a qualified professional.

### Components Included:

- Aurora 30 Inch Single Row LED Light Bar
- Stainless Steel Mounting Brackets
- Torx Head Bolts (for theft prevention)
- Deluxe Wiring Harness (with Deutsch connector)

### Mounting Instructions:

1. **Choose Mounting Location:** Select a secure and stable location on your vehicle's exterior that provides adequate clearance and optimal light projection.
2. **Attach Brackets:** Secure the stainless steel mounting brackets to the light bar using the provided hardware. Ensure they are firmly tightened.
3. **Position Light Bar:** Place the light bar with attached brackets onto your chosen mounting surface. Mark the drilling points for the bracket bolts.
4. **Drill Holes:** Carefully drill pilot holes at the marked locations. Ensure the drill bit size is appropriate for the mounting hardware.
5. **Secure Light Bar:** Fasten the light bar to the vehicle using the Torx head bolts and security nuts. Tighten all bolts securely to prevent movement and theft.

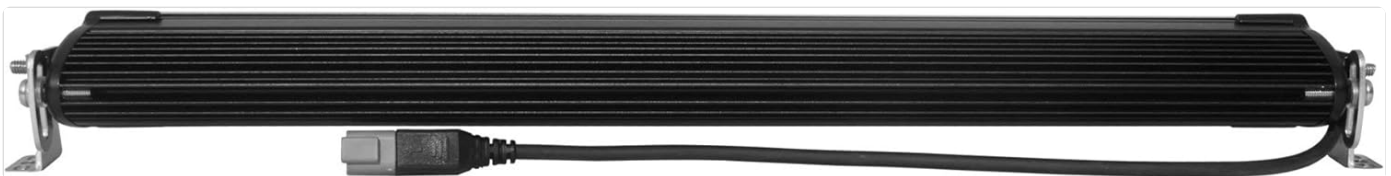
## Product Photos



Close-up of the stainless steel mounting bracket and the included Torx head bolt, designed for secure and theft-resistant installation.

### Wiring Instructions:

1. **Disconnect Battery:** Before beginning any electrical work, disconnect the vehicle's battery to prevent accidental short circuits.
2. **Connect Wiring Harness:** Connect the Deutsch connector from the light bar to the corresponding connector on the deluxe wiring harness. Ensure a secure, waterproof connection.
3. **Route Wiring:** Carefully route the wiring harness from the light bar to the vehicle's power source (e.g., battery, fuse box), ensuring it is protected from sharp edges, heat, and moving parts.
4. **Connect to Power:** Connect the positive (+) wire of the harness to a fused 12V/24V power source and the negative (-) wire to a suitable ground point on the vehicle chassis.
5. **Install Switch:** Connect the switch provided with the wiring harness to a convenient location inside the vehicle.
6. **Reconnect Battery:** Once all connections are secure and verified, reconnect the vehicle's battery.



Rear view of the Aurora 30-inch LED light bar, highlighting the ribbed heat sink design and the integrated Deutsch connector for secure wiring.

## OPERATION

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Operating your Aurora LED Light Bar is straightforward:

- **Power On/Off:** Use the installed switch to turn the light bar on or off.
- **Beam Pattern:** The light bar features a combination beam pattern, providing both a wide flood for peripheral vision and a focused spot for long-distance illumination.
- **Optimal Use:** This light bar is designed for off-road use and auxiliary lighting. Always check local regulations regarding the use of auxiliary lighting on public roads.

## CARE AND MAINTENANCE

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To ensure the longevity and optimal performance of your Aurora LED Light Bar, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the lens with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the GE Lexan lens or Dupont coating.
- **Inspection:** Periodically inspect the mounting hardware and wiring connections for any signs of loosening, corrosion, or damage. Tighten any loose bolts and repair or replace damaged wiring as needed.
- **Coating Protection:** The Dupont painting is designed to protect the housing for up to 5 years. Avoid scratching or chipping the coating to maintain its protective properties.
- **Breather Valve:** Do not obstruct the breather apparatus, as it is essential for preventing condensation buildup inside the light bar.

## TROUBLESHOOTING

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If you encounter issues with your Aurora LED Light Bar, refer to the following common troubleshooting steps:

- **Light Bar Not Turning On:**
  - Check all wiring connections for looseness or corrosion.
  - Verify that the vehicle's battery has sufficient charge.
  - Inspect the fuse in the wiring harness; replace if blown.
  - Test the switch for proper functionality.
- **Dim or Flickering Light:**
  - Ensure proper voltage supply (10-30V DC). Low voltage can cause dimming.
  - Check for loose or corroded ground connections.
  - Inspect wiring for any damage or short circuits.
- **Condensation Inside Lens:**
  - Ensure the breather apparatus is not obstructed.
  - Verify that the Deutsch connector is fully seated and sealed.
  - If condensation persists, contact customer support.

If these steps do not resolve the issue, please contact Aurora customer support for further assistance.

## TESTING AND CERTIFICATIONS

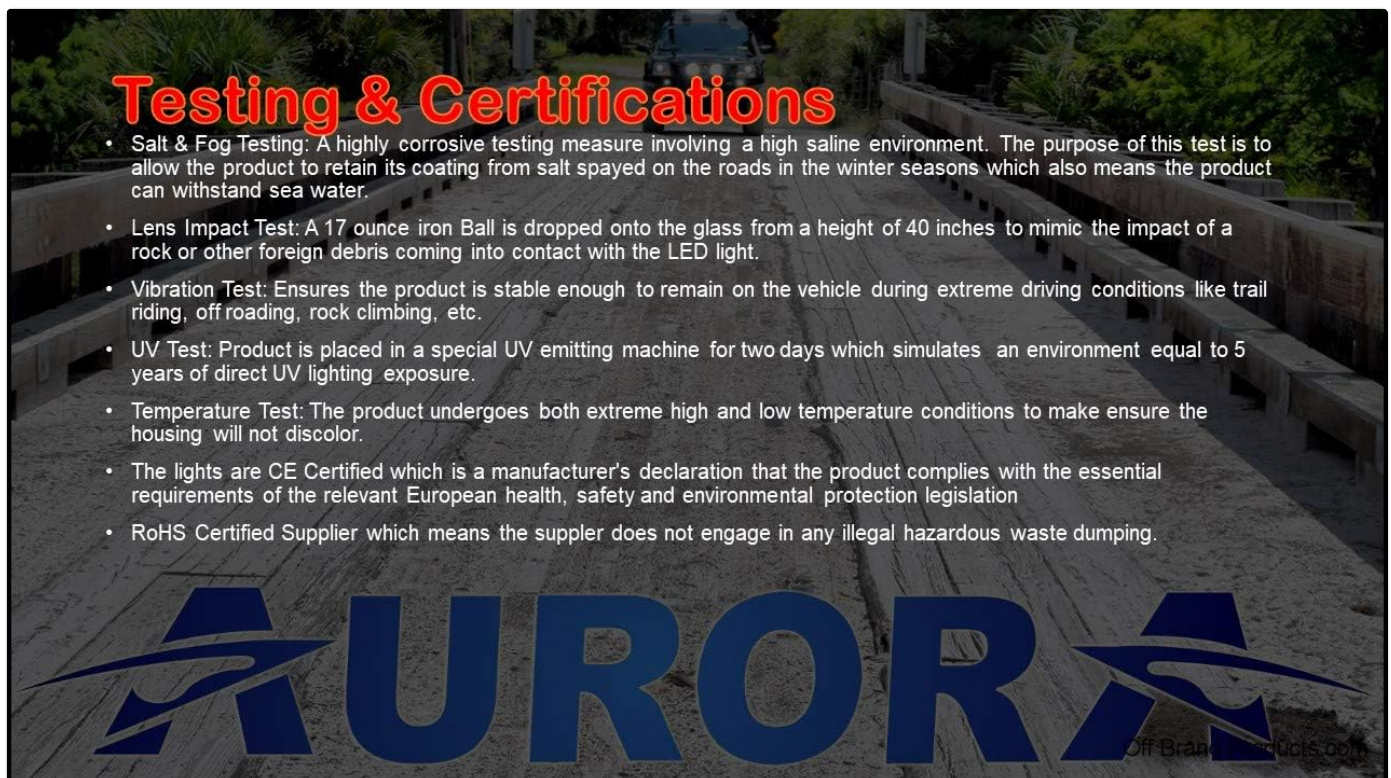
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Aurora LED Light Bars undergo rigorous testing and adhere to strict certification standards to ensure quality and reliability:

- **Salt & Fog Testing:** A highly corrosive testing measure involving a high saline environment. This test ensures the product

retains its coating from salt exposure on roads in winter seasons and withstands sea water.

- **Lens Impact Test:** A 17-ounce iron ball is dropped onto the glass from a height of 40 inches to mimic the impact of a rock or other foreign debris coming into contact with the LED light.
- **Vibration Test:** Ensures the product is stable enough to remain on the vehicle during extreme driving conditions like trail riding, off-roading, and rock climbing.
- **UV Test:** The product is placed in a special UV emitting machine for two days, simulating an environment equal to 5 years of direct UV lighting exposure.
- **Temperature Test:** The product undergoes both extreme high and low temperature conditions to ensure the housing will not discolor.
- **CE Certified:** The lights are CE Certified, which is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety, and environmental protection legislation.
- **RoHS Certified:** RoHS Certified Supplier means the supplier does not engage in any illegal hazardous waste dumping.



Informational graphic outlining the rigorous testing and certifications, such as Salt & Fog, Lens Impact, Vibration, UV, Temperature, CE, and RoHS.

## WARRANTY AND SUPPORT

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Aurora stands behind the quality of its products. While specific warranty details may vary, general product warranties typically cover manufacturing defects under normal use. For detailed warranty information, please refer to the documentation included with your purchase or visit the official Aurora website.





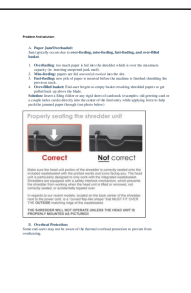

### Protection Plans:

Extended protection plans may be available for purchase to provide additional coverage beyond the standard manufacturer's warranty. These plans can offer peace of mind against accidental damage or extended mechanical failures.

- **3-Year Protection Plan:** Available for one-time purchase.
- **Complete Protect:** A monthly plan covering eligible past and future purchases.

For inquiries regarding your product, technical support, or warranty claims, please contact Aurora customer service through their official channels.

## Related Documents - ALO-S1-30-P7E7J

	<p><a href="#">50" Slim LED Light Bar 2.0 User Manual   Aurora</a></p> <p>Comprehensive user manual for the Aurora 50" Slim LED Light Bar 2.0. Includes installation guides, wiring diagrams, safety warnings, kit contents, and technical specifications for vehicle lighting.</p>
	<p><a href="#">Aurora AU120MB Paper Shredder User Manual - Operation, Maintenance, and Troubleshooting</a></p> <p>Comprehensive user manual for the Aurora AU120MB paper shredder, covering installation, operation, maintenance, troubleshooting, and warranty information. Learn how to safely and effectively use your Aurora shredder.</p>
	<p><a href="#">Aurora Public Safety Official and First Responder Interaction Plan: Toyota Sienna Hybrid</a></p> <p>This guide provides essential information for public safety officials and first responders on interacting with Aurora's self-driving Toyota Sienna Hybrid vehicles, covering identification, operational procedures, emergency response, and towing.</p>
	<p><a href="#">Aurora AU-R6CWSBF LED Downlight: Installation Guide and Specifications</a></p> <p>This document provides installation instructions for the Aurora AU-R6CWSBF LED downlight. It details safety precautions, wiring, wattage and colour temperature selection, and environmental disposal information. Ensure proper installation by a qualified electrician for optimal performance and safety.</p>
	<p><a href="#">Aurora AU870MA Shredder Troubleshooting Guide: Paper Jams and Overheating</a></p> <p>Troubleshooting guide for the Aurora AU870MA 8-Sheet Micro-Cut Paper Shredder, covering solutions for paper jams, miss-feeding, fast-feeding, over-filled baskets, and overheating issues.</p>
	<p><a href="#">Aurora EN-FLC Series High Power LED Floodlights Installation Guide &amp; Warranty</a></p> <p>Installation guide and warranty information for Aurora EN-FLC Series High Power LED Floodlights (models EN-FLC30, EN-FLC50, EN-FLC80, EN-FLC100, EN-FLC150, EN-FLC200). Details include electrical specs, safety, mounting, wiring, IP65 rating, Class I, and a 5-year guarantee. Covers environmental WEEE compliance.</p>



