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Automotive Commercial Vehicle Light Bars Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product Type (LED Light Bars, OLED Light Bars), By Application Type (OEM, Aftermarket), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/AA25D95CEC94EN.html
Date: January 2026
Pages: 180
Price: US$ 4,500.00 (Single User License)
ID: AA25D95CEC94EN

Abstracts

The Global Automotive Commercial Vehicle Light Bars Market is projected to expand from USD 17.01 Billion in 2025 to USD 28.12 Billion by 2031, achieving a Compound Annual Growth Rate (CAGR) of 8.74%. These high-intensity auxiliary lighting systems are essential for trucks, utility vans, and heavy machinery, providing critical visibility during low-light operations and within hazardous environmental conditions. Growth is primarily driven by strict government safety regulations that demand superior vehicular conspicuity to lower accident risks in industrial settings. Additionally, the ongoing growth of the global logistics and construction sectors necessitates 24/7 vehicle operations, creating a fundamental need for durable lighting solutions that uphold safety standards during nighttime or off-road tasks.

However, the market faces significant obstacles due to volatile raw material costs and supply chain inconsistencies, which can increase manufacturing expenses and complicate pricing strategies. Despite these economic challenges, certain vehicle segments remain resilient, driving the demand for upfitting equipment. For instance, the European Automobile Manufacturers? Association (ACEA) reported that new commercial van registrations in the European Union rose by 8.3 percent in 2024, totaling nearly 1.6 million units. This growth in the commercial fleet base directly supports a sustained need for auxiliary lighting installations to satisfy operational safety requirements.

Market Driver

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The worldwide expansion of construction and infrastructure development serves as a major catalyst for the light bars market, as heavy machinery must frequently operate in hazardous or low-light environments to meet strict deadlines. Large-scale government initiatives, particularly those focusing on road repairs and urban development, require the use of high-intensity auxiliary lighting on equipment such as excavators, loaders, and graders to maintain site safety and comply with occupational visibility regulations. This increase in activity fuels the procurement of ruggedized lighting solutions designed to endure high vibration and debris. Supporting this outlook, the Association of Equipment Manufacturers reported in February 2025 that global construction demand is expected to increase by 2.77 percent in 2025, indicating a strong pipeline of infrastructure projects that will require continuous equipment illumination.

Simultaneously, the shift toward electric commercial vehicles is transforming the market by demanding low-power, energy-efficient lighting solutions that maximize battery range. As fleet operators replace internal combustion engines with electric powertrains, there is a crucial need for LED light bars that provide high lumen output without depleting the vehicle's energy reserves. This transition is highlighted by major manufacturers increasing their deliveries of zero-emission units; according to Daimler Truck?s 'Annual Report 2024' released in March 2025, sales of battery-electric vehicles rose by 17 percent to 4,035 units in 2024. Furthermore, the logistics sector bolsters this demand through recovering freight volumes, with the American Trucking Associations forecasting in January 2025 that truck freight volumes will grow by 1.6 percent in 2025, suggesting a revitalized transport landscape that will sustain the need for auxiliary lighting retrofits and upgrades.

Market Challenge

Significant fluctuations in raw material costs and supply chain inconsistencies pose a major restraint on the Global Automotive Commercial Vehicle Light Bars Market. Manufacturers of these high-intensity lighting systems depend heavily on materials such as aluminum, high-grade plastics, and semiconductors, all of which have recently been subject to unpredictable price variations. This economic instability drives up production costs and complicates financial planning, making it challenging for companies to uphold competitive pricing while preserving profitability. Consequently, when manufacturing expenses rise unexpectedly, producers often find it difficult to adjust their pricing models rapidly enough to mitigate the financial impact.

Furthermore, unreliable supply chains hinder the timely delivery of these critical safety

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components to the logistics and construction sectors. This friction restricts suppliers' ability to meet the ongoing operational demands of commercial fleets, resulting in bottlenecks within market fulfillment. The gravity of this issue is reflected across the broader supply sector; according to the European Association of Automotive Suppliers (CLEPA), 74 percent of suppliers in 2024 identified the difficulty of passing increased operating costs on to original equipment manufacturers as a primary operational challenge. This inability to effectively manage cost structures directly obstructs market growth and limits the capital available for essential innovation.

Market Trends

The move toward Sensor-Integrated Lighting for Advanced Safety is revolutionizing auxiliary light bars by converting them into multifunctional housings for autonomous technologies. Manufacturers are increasingly incorporating LiDAR components and high-resolution cameras directly into ruggedized light bar casings, a design advancement that shields delicate sensor hardware from severe industrial conditions while leveraging the elevated vantage point required for optimal data collection. This convergence enables commercial fleet operators to implement Advanced Driver Assistance Systems (ADAS) without the need for cluttered external mounts, effectively simplifying vehicle upfitting. The market appetite for these sophisticated visibility systems is strong; according to Valeo's 'Q3 2024 Sales' press release in October 2024, the Valeo Light division surpassed global automotive production performance by 4 percentage points, driven by the acceleration of advanced lighting and perception technologies.

Concurrently, the adoption of Dynamic and Intelligent Beam Control Features is addressing the essential safety challenge of managing high-intensity illumination on shared roads. In contrast to traditional static light bars that risk blinding oncoming traffic, these next-generation systems employ Adaptive Driving Beam (ADB) technology and matrix LED configurations to selectively dim specific light segments, creating shadow tunnels around other vehicles while maintaining maximum illumination elsewhere. This functionality is especially critical for heavy commercial vehicles operating in mixed traffic, as it ensures adherence to evolving road safety regulations while optimizing driver visibility during long-haul trips. This technological evolution is financially underpinning the sector; according to FORVIA HELLA?s 'Annual Report 2024' from March 2025, sales in the Lighting Business Group rose by 2.8 percent to ?4.0 billion, bolstered by new series launches of complex lighting projects.

Key Market Players

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Hella GmbH & Co. KGaA

Grote Industries, Inc.

Truck-Lite Co., LLC

Osram GmbH

Whelen Engineering Company, Inc.

Federal Signal Corporation

ECCO Safety Group

Baja Designs Inc.

Rigid Industries LED Lighting, Inc.

KC HiLiTES, Inc.

Report Scope

In this report, the Global Automotive Commercial Vehicle Light Bars Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automotive Commercial Vehicle Light Bars Market, By Product Type

LED Light Bars

OLED Light Bars

Automotive Commercial Vehicle Light Bars Market, By Application Type

OEM

Aftermarket

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Automotive Commercial Vehicle Light Bars Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

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Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Commercial Vehicle Light Bars Market.

Available Customizations:

Global Automotive Commercial Vehicle Light Bars Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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