

## **Automotive Lighting Market Size Analysis Report - Market Share, Forecast Trends and Outlook (2025-2034)**

Market Report | 2025-07-28 | 151 pages | EMR Inc.

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### **Report description:**

The global automotive lighting market reached a value of nearly USD 34.16 Billion in 2024. The market is assessed to grow at a CAGR of 6.10% during the forecast period of 2025-2034 to attain around USD 61.75 Billion by 2034. The automotive lighting market is experiencing significant growth globally, driven by rising demand for advanced vehicle lights. The global market is especially expanding in the Asia Pacific region, where vehicle production and technological advancements in automotive lighting solutions are rapidly progressing. With increasing focus on vehicle aesthetics and safety features, the shape and design of automotive lighting are evolving to meet modern consumer preferences.

Automotive lighting technology is becoming a key focus for car manufacturers, with innovations in car lights improving both functionality and style. Automotive lights, including headlights, taillights, and interior lighting, play a crucial role in enhancing the driving experience. The market is also benefiting from the shift towards energy-efficient lighting solutions, as manufacturers seek to reduce vehicle energy consumption while improving illumination performance.

Vehicle lights have seen significant advancements, particularly with the introduction of daytime running lights, HID headlights, and LED tail lights. Lighting technology continues to evolve, with innovations in halogen bulbs and the increasing use of LED lighting systems. These developments offer improved visibility and aesthetic appeal for vehicles, contributing to better road safety and energy efficiency. As automotive lighting technologies like adaptive lighting systems and smart headlights become more common, the demand for cutting-edge lighting technology in the automotive sector is expected to rise.

The role of vehicle lighting in road safety is crucial, as it ensures better visibility in various driving conditions. Specialized lighting systems such as adaptive headlights and LED lights contribute significantly to improving vehicle lighting and enhancing road safety. With increasing awareness of road safety, there is a growing demand for advanced vehicle lights that offer enhanced illumination and durability, providing a safer driving experience.

#### **Key Trends and Developments**

Growing adoption of adaptive lighting systems; rising demand for electric vehicles; technological advancements and innovations; and the increasing emphasis on sustainability are favouring the automotive lighting market expansion.

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November 2024

Melexis announced that Geely Automotive Group chose its devices and MeLiBu technology for the advanced daytime running lights (DRLs). The company also installed Melexis' RGB LED taillight with full-color lighting in its new Z10 model.

October 2024

Neolite ZKW inaugurated a new automotive lighting production facility in Pune, India, to enhance its production capabilities and support energy-efficient and sustainable manufacturing.

July 2023

Marelli, in collaboration with ams OSRAM, introduced the h-Digi microLED module, its latest innovation in automotive front lighting. The digital lighting solution, based on a new type of intelligent multipixel LED, enables fully dynamic and adaptive headlight image and operation projection and features nearly 40,000 LED pixels (20,000 per lamp).

January 2023

Nichia Corporation, along with Infineon Technologies AG, announced the launch of a fully integrated micro-LED light engine, featuring over 16,000 micro-LEDs, for high-definition (HD) adaptive driving beam applications.

#### Surging Adoption of Adaptive Lighting Systems

As per the global automotive lighting market analysis, there is a growing adoption of adaptive lighting systems, such as matrix LED lights and adaptive front lighting systems (AFS), as they provide better illumination by adjusting the light beam depending on the direction, speed, and environment of vehicles. Governments globally are implementing stringent regulations mandating the use of adaptive lighting systems to enhance road safety and meet safety standards. For instance, the European Union has mandated the use of adaptive lighting technologies in vehicles to improve nighttime visibility and reduce accidents. Moreover, there is a rising integration of adaptive lighting systems with other advanced driver assistance systems (ADAS) and autonomous driving technologies.

#### Rising Demand for Electric Vehicles

The increasing production and sales of electric vehicles are boosting the automotive lighting market revenue. In 2023, nearly 14 million new electric cars were registered globally whereas sales of EVs witnessed a y-o-y surge of 35% (3.5 million higher). In the same year, electric cars represented nearly 18% of all cars sold, up from 14% in 2022. China accounted for 60% of new electric car registrations, followed by Europe (25%) and the United States (10%). As energy efficiency is a crucial factor in electric vehicles, the demand for power-efficient lighting technologies, such as OLEDs and matrix LEDs, that consume minimal energy and offer superior illumination is surging. In the forecast period, advancements in autonomous electric vehicles that rely on communication systems and sensors are expected to lead to the development of innovative lighting solutions that can facilitate better communication between a vehicle and other road users and improve object detection in low-light conditions.

#### Technological Advancements and Innovations

Technological advancements and innovations are significantly driving the automotive lighting market development. The emergence of laser lights, matrix headlights, and adaptive lighting systems that can provide higher luminosity and a longer reach to improve the safety of vehicles is aiding the market. In January 2023, KYOCERA SLD Laser, Inc. introduced the world's first LaserLight™ Headlight Modules that offer improved brightness white and infrared (IR) dual illumination for night vision and sensing for increased safety and visibility in the automotive and mobility sectors. Furthermore, key players are exploring the usage of 3D printing technology to precisely and accurately manufacture customised and complex lighting solutions with unique designs and reduced production costs. Technologies like artificial intelligence (AI), machine learning (ML), and augmented/virtual reality (AR/VR) are also anticipated to improve the functionality, safety, and design of automotive lighting systems in the coming years.

#### Growing Focus on Sustainability

The growing focus of the automotive industry to reduce its carbon footprints is shaping the automotive lighting market trends and dynamics. Companies are increasingly using sustainable materials such as recyclable plastics, metals, and glass in manufacturing automotive lighting systems to improve their sustainability profiles and promote a circular economy. For instance, in May 2023, ZKW, along with JOANNEUM RESEARCH, University of Leoben, and the Polymer Competence Center Leoben, developed reusable materials, including polymers based on renewable raw materials, for use in the manufacturing of sustainable vehicle headlights. Besides, key players are also developing innovative production techniques to lower the energy consumption and weight of

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automotive lighting solutions. In January 2024, Marelli announced the launch of its LeanLight headlight and rear light concepts, featuring a 20% reduction in weight, up to 20% fewer components, and a 6 kg reduction in CO2 emissions.

#### Automotive Lighting Market Trends

##### Increasing Adoption of Advanced Vehicle Lighting Technologies to Drive Market Growth

The automotive lighting market is witnessing significant growth due to the rising adoption of advanced vehicle lighting technologies. The increasing demand for better energy efficiency, coupled with the integration of cutting-edge solutions like LED technology, is propelling this growth. LED headlights, with their superior brightness and longevity, are becoming increasingly common in vehicles. Additionally, tail lights and interior lighting have seen innovations that enhance both aesthetics and functionality. Adaptive lighting systems, offering enhanced visibility and safety, are also gaining traction. As consumers increasingly prefer more energy-efficient solutions, the shift towards advanced vehicle lighting technology continues to play a crucial role in shaping the automotive lighting market.

Laser lighting technology is a significant advancement that is transforming the automotive lighting sector. Laser headlights, equipped with laser diodes, provide greater illumination and allow for more compact designs, offering increased design flexibility. This cutting-edge lighting technology offers a brighter, more efficient lighting solution compared to conventional methods. Moreover, the development of smart lighting systems is enhancing the driving experience, with features such as automatic brightness adjustment and better night-time visibility. As laser lighting technology continues to evolve, it holds promise for making vehicles safer, more energy-efficient, and environmentally friendly.

##### Automotive Lighting Market Growth Factors

##### Stringent Vehicle Lighting Regulations to Enhance Visibility and Safety, Driving Market Growth

Governments around the world are introducing stringent lighting regulations to enhance road safety and ensure better visibility for vehicles. These rules are driving innovation within the vehicle lighting industry, with a growing emphasis on the implementation of advanced lighting systems such as Daytime Running Lights (DRLs). These regulations help improve road safety, making it easier for drivers to spot vehicles, especially under adverse conditions. As safety concerns continue to rise, these regulatory measures are contributing significantly to the growth of the automotive lighting market.

Government regulations have been instrumental in shaping the evolution of lighting systems in the automotive sector. With a focus on enhancing road safety, the automotive lighting market is seeing a shift towards adaptive lighting systems that adjust according to vehicle speed, weather, and road conditions. Furthermore, the widespread adoption of LED lights, known for their energy efficiency and durability, is becoming more prevalent. The push for advanced lighting technologies and innovative lighting solutions has been essential in meeting these government-imposed lighting standards, driving growth in the industry.

The rise in the adoption of Daytime Running Lights (DRLs) has played a significant role in improving road safety. By making vehicles more visible to other drivers during the day, DRLs contribute to reducing accidents and collisions. As the global automotive lighting market continues to evolve, the implementation of advanced lighting systems, including DRLs, is becoming a standard feature in modern vehicles. These lighting systems not only improve road safety but also drive the demand for more sophisticated vehicle lighting technologies. As a result, the market for automotive lighting is poised for continued growth.

##### Restraining Factors

##### High Cost of LED Lights is Limiting Market Growth

The high cost of LED lights remains a significant factor hindering the market's growth. While LED lights offer energy efficiency and long lifespan, their initial installation cost is relatively higher than traditional lighting solutions. This can deter consumers, particularly in price-sensitive markets, from opting for LED lighting, limiting market expansion. Despite the growing demand for energy-efficient solutions, the upfront investment required for LED lights and LED lamps continues to be a barrier, slowing the widespread adoption of these technologies. Consequently, addressing the cost issue could play a crucial role in enhancing market growth in the future.

##### Automotive Lighting Market Segmentation Analysis

##### By Vehicle Type Analysis

##### Rising Demand for Advanced Lighting Systems in Passenger Vehicles Drives Segment Growth

The growing demand for advanced lighting systems is propelling significant growth across various vehicle types. In passenger vehicles, the adoption of LED and adaptive lighting technologies is driven by consumer preferences for enhanced safety, improved

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visibility, and stylish vehicle designs. These systems are becoming increasingly essential for providing optimal road illumination and meeting evolving regulatory standards. Similarly, commercial vehicles, including trucks and buses, are adopting high-intensity discharge (HID) and LED lighting systems to meet stringent safety standards, improve driver visibility, and enhance operational efficiency, particularly for long-distance travel.

Electric vehicles (EVs) are also contributing to the growth of the automotive lighting market. As the demand for EVs increases, the need for energy-efficient, lightweight, and innovative lighting solutions has become crucial. LED and OLED technologies are being integrated into these vehicles to maximize battery life and ensure optimal performance. Additionally, the growing preference for aesthetically pleasing features, such as under-car and ambient lighting, is helping to make electric vehicles more visually appealing, setting them apart in a competitive market.

#### By Position Analysis

##### Front Lighting Segment Leads the Market with the Increasing Adoption of LED Headlamps

The automotive lighting market is driven by several key segments, with rear lighting playing an important role in enhancing vehicle safety. Rear lighting, including tail lights, brake lights, and reverse lights, ensures optimal visibility for other drivers. As safety regulations tighten and LED technology advances, there is growing demand for more efficient and durable rear lighting solutions, improving vehicle safety and contributing to the overall lighting system.

Front lighting remains the dominant segment, primarily driven by the rising adoption of LED headlamps. These advanced lighting systems offer superior brightness, energy efficiency, and longer lifespans compared to traditional halogen lights. The increasing demand for better visibility, safety, and aesthetically pleasing vehicle designs has made LED headlamps a popular choice for both consumers and automotive manufacturers, further propelling the front lighting segment.

Side and interior lighting segments are also witnessing steady growth, contributing to improved vehicle safety and user comfort. Side lighting, such as side markers and turn signals, enhances lateral visibility while supporting vehicle communication with pedestrians and other drivers. Meanwhile, interior lighting is becoming a focal point for vehicle customisation, with LED lights enhancing the aesthetic appeal and comfort of the interior. Smart lighting technologies are also emerging, allowing for an adaptive lighting experience, further driving demand in the market.

#### By Technology Analysis

##### The LED Segment Dominates the Market Due to Its Energy Efficiency and Superior Power Output

The LED segment leads the automotive lighting market, primarily due to its energy efficiency and superior power output. LEDs are widely preferred in modern automotive lighting due to their longer lifespan and low energy consumption, which significantly reduces maintenance costs. This makes LEDs an ideal choice for applications such as headlights, tail lights, and interior lighting, offering both performance and cost-effectiveness.

In comparison, halogen lights remain popular in more affordable vehicles due to their lower initial cost. While they provide good illumination, halogen lights consume more energy and have a shorter lifespan than LEDs. Xenon lights, on the other hand, are found in high-end vehicles due to their bright, clear illumination and enhanced visibility. Though more energy-efficient than halogen, their higher cost limits their widespread adoption.

#### By Sales Channel Analysis

OEM products play a significant role in the automotive lighting market as they are directly integrated into vehicles during the manufacturing process. These products are designed to meet specific standards and regulations, ensuring high performance and safety for new vehicles. With the growing demand for advanced lighting technologies, such as LED and adaptive headlights, OEM products are increasingly popular among automotive manufacturers, driving innovation and improving overall vehicle design. Aftermarket products represent a vital segment of the automotive lighting market, catering to vehicle owners seeking upgrades or replacements for existing lighting systems. These products include a wide range of lighting options such as LED, halogen, and xenon lamps, often focused on improving aesthetics, functionality, or energy efficiency. The growing trend of vehicle customization and advancements in lighting technology have contributed to the rising demand for aftermarket automotive lighting, allowing consumers to enhance their driving experience.

#### Regional Insights

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## Asia Pacific Dominates the Market Share Due to Rising Vehicle Production in the Region

Asia Pacific holds the highest market share in the automotive lighting industry, primarily due to the rapid increase in vehicle production, especially in emerging economies like China and India. The growing demand for commercial vehicles and the integration of LED lighting in vehicles contribute to the region's dominance. As automotive manufacturers in Asia Pacific focus on innovation and efficiency, the market for advanced lighting technologies such as LED lighting is expected to continue expanding, driven by both domestic production and export activities.

## North America

North America's automotive lighting market is witnessing steady growth, driven by the increasing demand for advanced LED lighting solutions in commercial vehicles. The adoption of energy-efficient lighting technologies, such as LED lighting, is prominent in the region due to the rising emphasis on fuel efficiency and environmental sustainability. North America remains a key player, supported by its well-established automotive manufacturing industry and a high rate of vehicle production, making it one of the largest markets for automotive lighting solutions.

## Europe

Europe's automotive lighting market is expanding as vehicle manufacturers focus on incorporating innovative LED lighting in their designs. With stringent regulations on vehicle safety and energy efficiency, Europe has become a hub for cutting-edge lighting technologies. The region is home to several automotive giants, enhancing the demand for advanced lighting systems, especially in commercial vehicles. The growing popularity of electric vehicles (EVs) also boosts the market, with energy-efficient LED lighting becoming a standard feature in many models.

## Latin America

Latin America's automotive lighting market is seeing growth with the rise in vehicle production, particularly in countries like Brazil and Mexico, which have established themselves as major automotive manufacturing hubs. The increasing focus on energy-efficient technologies, especially LED lighting, is enhancing market dynamics. The adoption of LED lighting in both commercial vehicles and passenger cars is rising, spurred by the need for cost-effective and durable solutions to meet consumer demands for better vehicle performance and safety.

## Middle East and Africa

The automotive lighting market in the Middle East and Africa is growing, driven by the increasing sales of commercial vehicles and the demand for advanced lighting systems. LED lighting is becoming more prevalent, as manufacturers focus on durability and efficiency for vehicles used in harsh environments. The region's growing automotive sector, combined with the rising focus on energy-efficient solutions, is set to enhance the market for automotive lighting. Investments in the automotive industry are further supporting growth across the Middle East and Africa.

## List of Key Companies in Automotive Lighting Market

### Strategic Collaborations and Partnerships Strengthen Magneti Marelli's Market Leadership

Magneti Marelli's strategic collaborations and partnerships have been crucial in reinforcing its dominant position within the global automotive lighting market. By aligning with key industry players and leveraging its innovative solutions, the company has effectively expanded its global market reach and solidified its reputation. These alliances have enabled Magneti Marelli to adapt to evolving industry demands, enhancing its competitiveness in the automotive lighting sector. As a result, the company continues to be a key player in shaping the future of automotive lighting technologies and solutions.

### HELLA GmbH & Co. KGaA

HELLA GmbH & Co. KGaA, founded in 1899 and headquartered in Lippstadt, Germany, is a global leader in automotive lighting and electronics. The company's lighting solutions, including matrix headlights, adaptive lighting systems, and LED lighting solutions, are used in a wide range of vehicles.

### Valeo SA

Valeo SA, founded in 1923, is a leading automotive company that is engaged in the design, production, and sales of advanced automotive components and systems. Headquartered in Paris, France, the company focuses on innovations aimed at improving vehicle safety, comfort, fuel efficiency, and sustainability.

### OSRAM GmbH

OSRAM GmbH, founded in 1919, is a leading company that offers lighting and optical solutions. Headquartered in Munich,

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Germany, the company offers advanced technologies and traditional lighting solutions for automotive lighting, industrial lighting, and smart cities.

Marelli Automotive Lighting Reutlingen (Germany) GmbH

Marelli Automotive Lighting Reutlingen (Germany) GmbH, headquartered in Reutlingen, Germany, is a company that is engaged in the production, design, and development of advanced automotive lighting and electrical components. The company is committed to developing energy-efficient lighting solutions that can reduce carbon emissions and support the shift towards sustainable mobility.

List of Key Companies Profiled:

☐☐HELLA GmbH & Co. KGaA

☐☐Valeo SA

☐☐

☐☐Hyundai Mobis Co.,Ltd.

☐☐Marelli Automotive Lighting Reutlingen (Germany) GmbH

☐☐KOITO MANUFACTURING CO., LTD.

☐☐STANLEY ELECTRIC CO., LTD.

☐☐Koninklijke Philips N.V.

☐☐Robert Bosch GmbH

☐☐Continental AG

☐☐

☐☐Others

Key Industry Developments

Robert Bosch GmbH

Robert Bosch GmbH, headquartered in Stuttgart, Germany, is a global leader in automotive components and technology solutions, including automotive lighting. The company is known for its high-quality lighting solutions that improve vehicle safety, visibility, and energy efficiency. Bosch's innovations in automotive lighting range from adaptive lighting systems to advanced LED solutions, aiming to enhance driving experiences. With a strong focus on sustainability, Bosch is actively involved in developing smart lighting systems and integrated solutions that align with the growing demand for electric vehicles and autonomous driving technologies.

OSRAM Licht AG

OSRAM Licht AG, based in Munich, Germany, is one of the leading companies in the global lighting industry, including automotive lighting. OSRAM provides a wide range of lighting solutions for vehicles, including advanced LED, Xenon, and OLED technologies. The company's products are designed to improve safety, energy efficiency, and aesthetic appeal in vehicles. OSRAM's commitment to innovation has led to the development of cutting-edge solutions for adaptive front lighting systems, matrix LED headlights, and interior lighting, which are crucial for enhancing the driving experience and safety of modern automobiles.

Koito Manufacturing Co., Ltd.

Koito Manufacturing Co., Ltd., based in Tokyo, Japan, is a prominent manufacturer of automotive lighting products. The company is well-known for producing high-performance headlamps, rear lamps, and other lighting solutions used in passenger cars, trucks, and motorcycles. Koito is a major supplier for several global automotive OEMs and is a pioneer in LED and adaptive lighting technologies. With a focus on safety, durability, and energy efficiency, Koito continues to innovate in the field of automotive lighting, developing advanced systems like auto-leveling headlights and intelligent lighting that improve visibility and driver comfort.

Marelli Corporation

Marelli Corporation, headquartered in Saitama, Japan, is a leading global supplier of automotive components, including innovative lighting solutions. The company provides a comprehensive range of automotive lighting products such as headlamps, taillights, signal lamps, and interior lighting. Marelli's focus on research and development allows it to create cutting-edge technologies like matrix LED lighting and smart lighting systems that enhance vehicle safety and performance. With an emphasis on sustainability, Marelli is working towards energy-efficient lighting solutions that cater to the growing demand for electric and autonomous

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vehicles.

#### Hyundai Mobis

Hyundai Mobis, based in Seoul, South Korea, is an integral part of the Hyundai Motor Group, providing advanced automotive parts, including lighting solutions. The company's lighting division focuses on the development of state-of-the-art LED and laser lighting technologies, designed to improve driving safety, visibility, and vehicle aesthetics. Hyundai Mobis also develops adaptive lighting systems that adjust to driving conditions and surroundings. With a commitment to sustainable mobility, Hyundai Mobis aims to offer environmentally friendly lighting solutions, supporting the automotive industry's shift toward electric vehicles and autonomous driving technologies.

#### Stanley Electric Co., Ltd.

Stanley Electric Co., Ltd., based in Tokyo, Japan, is a leading manufacturer of automotive lighting systems. The company produces a wide range of automotive lighting products, including headlamps, taillights, and signal lights, using advanced technologies like LED, OLED, and laser lighting. Stanley Electric is renowned for its innovative approach to lighting design, enhancing vehicle safety, energy efficiency, and visual appeal. The company has established a strong presence in the global automotive market by collaborating with major car manufacturers and continuously developing cutting-edge lighting solutions that align with the industry's growing demand for smarter and more sustainable vehicles.

#### Global Automotive Lighting Industry Segmentation

The EMR's report titled "Global Automotive Lighting Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

##### Market Breakup by Technology

- Halogens
- Xenon/HID
- LED
- Others

##### Market Breakup by Vehicle Type

- Passenger Vehicles
- Commercial Vehicles
- Electric Vehicles

##### Market Breakup by Position

- Front Lighting
  - Headlights
  - Fog Lights
  - Daytime Running Lights (DRLs)
- Interior Lighting
  - Dashboard
  - Glove Box
  - Reading Lights
  - Dome Lights
- Rear Lighting
  - Taillights
  - Centre High-Mount Stop Light (CHMSL)
  - License Plate Lamp
- Side Lighting
  - Sidelights
  - Side Rear View Mirror Indicator

##### Market Breakup by Sales Channel

- Original Equipment Manufacturers Products (OEMs Products)
- Aftermarket Products

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## Market Breakup by Region

- ☐☐ North America
- ☐☐ United States of America
- ☐☐ Canada
- ☐☐ Europe
- ☐☐ United Kingdom
- ☐☐ Germany
- ☐☐ France
- ☐☐ Italy
- ☐☐ Others
- ☐☐ Asia Pacific
- ☐☐ China
- ☐☐ Japan
- ☐☐ India
- ☐☐ ASEAN
- ☐☐ Australia
- ☐☐ Others
- ☐☐ Latin America
- ☐☐ Brazil
- ☐☐ Argentina
- ☐☐ Mexico
- ☐☐ Others
- ☐☐ Middle East and Africa
- ☐☐ Saudi Arabia
- ☐☐ United Arab Emirates
- ☐☐ Nigeria
- ☐☐ South Africa
- ☐☐ Others

## Table of Contents:

- 1 Executive Summary
  - 1.1 Market Size 2024-2025
  - 1.2 Market Growth 2025(F)-2034(F)
  - 1.3 Key Demand Drivers
  - 1.4 Key Players and Competitive Structure
  - 1.5 Industry Best Practices
  - 1.6 Recent Trends and Developments
  - 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
  - 2.1 Market Trends
  - 2.2 Key Verticals
  - 2.3 Key Regions
  - 2.4 Supplier Power
  - 2.5 Buyer Power
  - 2.6 Key Market Opportunities and Risks
  - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary

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- 3.1 GDP Outlook
- 3.2 GDP Per Capita Growth
- 3.3 Inflation Trends
- 3.4 Democracy Index
- 3.5 Gross Public Debt Ratios
- 3.6 Balance of Payment (BoP) Position
- 3.7 Population Outlook
- 3.8 Urbanisation Trends
- 4 Country Risk Profiles
  - 4.1 Country Risk
  - 4.2 Business Climate
- 5 Global Automotive Lighting Market Analysis
  - 5.1 Key Industry Highlights
  - 5.2 Global Automotive Lighting Historical Market (2018-2024)
  - 5.3 Global Automotive Lighting Market Forecast (2025-2034)
  - 5.4 Global Automotive Lighting Market by Technology
    - 5.4.1 Halogens
      - 5.4.1.1 Historical Trend (2018-2024)
      - 5.4.1.2 Forecast Trend (2025-2034)
    - 5.4.2 Xenon/HID
      - 5.4.2.1 Historical Trend (2018-2024)
      - 5.4.2.2 Forecast Trend (2025-2034)
    - 5.4.3 LED
      - 5.4.3.1 Historical Trend (2018-2024)
      - 5.4.3.2 Forecast Trend (2025-2034)
    - 5.4.4 Others
  - 5.5 Global Automotive Lighting Market by Vehicle Type
    - 5.5.1 Passenger Vehicles
      - 5.5.1.1 Historical Trend (2018-2024)
      - 5.5.1.2 Forecast Trend (2025-2034)
    - 5.5.2 Commercial Vehicles
      - 5.5.2.1 Historical Trend (2018-2024)
      - 5.5.2.2 Forecast Trend (2025-2034)
    - 5.5.3 Electric Vehicles
      - 5.5.3.1 Historical Trend (2018-2024)
      - 5.5.3.2 Forecast Trend (2025-2034)
  - 5.6 Global Automotive Lighting Market by Position
    - 5.6.1 Front Lighting
      - 5.6.1.1 Historical Trend (2018-2024)
      - 5.6.1.2 Forecast Trend (2025-2034)
      - 5.6.1.3 Breakup by Type
        - 5.6.1.3.1 Headlights
        - 5.6.1.3.2 Fog Lights
        - 5.6.1.3.3 Daytime Running Lights (DRLs)
    - 5.6.2 Interior Lighting
      - 5.6.2.1 Historical Trend (2018-2024)
      - 5.6.2.2 Forecast Trend (2025-2034)

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- 5.6.2.3 Breakup by Type
  - 5.6.2.3.1 Dashboard
  - 5.6.2.3.2 Glove Box
  - 5.6.2.3.3 Reading Lights
  - 5.6.2.3.4 Dome Lights
- 5.6.3 Rear Lighting
  - 5.6.3.1 Historical Trend (2018-2024)
  - 5.6.3.2 Forecast Trend (2025-2034)
  - 5.6.3.3 Breakup by Type
    - 5.6.3.3.1 Taillights
    - 5.6.3.3.2 Centre High-Mount Stop Light (CHMSL)
    - 5.6.3.3.3 License Plate Lamp
- 5.6.4 Side Lighting
  - 5.6.4.1 Historical Trend (2018-2024)
  - 5.6.4.2 Forecast Trend (2025-2034)
  - 5.6.4.3 Breakup by Type
    - 5.6.4.3.1 Sidelights
    - 5.6.4.3.2 Side Rear View Mirror Indicator
- 5.7 Global Automotive Lighting Market by Sales Channel
  - 5.7.1 Original Equipment Manufacturers Products (OEMs Products)
    - 5.7.1.1 Historical Trend (2018-2024)
    - 5.7.1.2 Forecast Trend (2025-2034)
  - 5.7.2 Aftermarket Products
    - 5.7.2.1 Historical Trend (2018-2024)
    - 5.7.2.2 Forecast Trend (2025-2034)
- 5.8 Global Automotive Lighting Market by Region
  - 5.8.1 North America
    - 5.8.1.1 Historical Trend (2018-2024)
    - 5.8.1.2 Forecast Trend (2025-2034)
  - 5.8.2 Europe
    - 5.8.2.1 Historical Trend (2018-2024)
    - 5.8.2.2 Forecast Trend (2025-2034)
  - 5.8.3 Asia Pacific
    - 5.8.3.1 Historical Trend (2018-2024)
    - 5.8.3.2 Forecast Trend (2025-2034)
  - 5.8.4 Latin America
    - 5.8.4.1 Historical Trend (2018-2024)
    - 5.8.4.2 Forecast Trend (2025-2034)
  - 5.8.5 Middle East and Africa
    - 5.8.5.1 Historical Trend (2018-2024)
    - 5.8.5.2 Forecast Trend (2025-2034)
- 6 North America Automotive Lighting Market Analysis
  - 6.1 United States of America
    - 6.1.1 Historical Trend (2018-2024)
    - 6.1.2 Forecast Trend (2025-2034)
  - 6.2 Canada
    - 6.2.1 Historical Trend (2018-2024)

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- 6.2.2 Forecast Trend (2025-2034)
- 7 Europe Automotive Lighting Market Analysis
  - 7.1 United Kingdom
    - 7.1.1 Historical Trend (2018-2024)
    - 7.1.2 Forecast Trend (2025-2034)
  - 7.2 Germany
    - 7.2.1 Historical Trend (2018-2024)
    - 7.2.2 Forecast Trend (2025-2034)
  - 7.3 France
    - 7.3.1 Historical Trend (2018-2024)
    - 7.3.2 Forecast Trend (2025-2034)
  - 7.4 Italy
    - 7.4.1 Historical Trend (2018-2024)
    - 7.4.2 Forecast Trend (2025-2034)
  - 7.5 Others
- 8 Asia Pacific Automotive Lighting Market Analysis
  - 8.1 China
    - 8.1.1 Historical Trend (2018-2024)
    - 8.1.2 Forecast Trend (2025-2034)
  - 8.2 Japan
    - 8.2.1 Historical Trend (2018-2024)
    - 8.2.2 Forecast Trend (2025-2034)
  - 8.3 India
    - 8.3.1 Historical Trend (2018-2024)
    - 8.3.2 Forecast Trend (2025-2034)
  - 8.4 ASEAN
    - 8.4.1 Historical Trend (2018-2024)
    - 8.4.2 Forecast Trend (2025-2034)
  - 8.5 Australia
    - 8.5.1 Historical Trend (2018-2024)
    - 8.5.2 Forecast Trend (2025-2034)
  - 8.6 Others
- 9 Latin America Automotive Lighting Market Analysis
  - 9.1 Brazil
    - 9.1.1 Historical Trend (2018-2024)
    - 9.1.2 Forecast Trend (2025-2034)
  - 9.2 Argentina
    - 9.2.1 Historical Trend (2018-2024)
    - 9.2.2 Forecast Trend (2025-2034)
  - 9.3 Mexico
    - 9.3.1 Historical Trend (2018-2024)
    - 9.3.2 Forecast Trend (2025-2034)
  - 9.4 Others
- 10 Middle East and Africa Automotive Lighting Market Analysis
  - 10.1 Saudi Arabia
    - 10.1.1 Historical Trend (2018-2024)
    - 10.1.2 Forecast Trend (2025-2034)

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- 10.2 United Arab Emirates
  - 10.2.1 Historical Trend (2018-2024)
  - 10.2.2 Forecast Trend (2025-2034)
- 10.3 Nigeria
  - 10.3.1 Historical Trend (2018-2024)
  - 10.3.2 Forecast Trend (2025-2034)
- 10.4 South Africa
  - 10.4.1 Historical Trend (2018-2024)
  - 10.4.2 Forecast Trend (2025-2034)
- 10.5 Others
- 11 Market Dynamics
  - 11.1 SWOT Analysis
    - 11.1.1 Strengths
    - 11.1.2 Weaknesses
    - 11.1.3 Opportunities
    - 11.1.4 Threats
  - 11.2 Porter's Five Forces Analysis
    - 11.2.1 Supplier's Power
    - 11.2.2 Buyer's Power
    - 11.2.3 Threat of New Entrants
    - 11.2.4 Degree of Rivalry
    - 11.2.5 Threat of Substitutes
  - 11.3 Key Indicators for Demand
  - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Trade Data Analysis (HS Code- 85122)
  - 13.1 Major Exporting Countries
    - 13.1.1 By Value
    - 13.1.2 By Volume
  - 13.2 Major Importing Countries
    - 13.2.1 By Value
    - 13.2.2 By Volume
- 14 Price Analysis
  - 14.1 North America Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 14.2 Europe Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 14.3 Asia Pacific Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 14.4 Latin America Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 14.5 Middle East and Africa Historical Price Trends (2018-2024) and Forecast (2025-2034)
- 15 Competitive Landscape
  - 15.1 Supplier Selection
  - 15.2 Key Global Players
  - 15.3 Key Regional Players
  - 15.4 Key Player Strategies
  - 15.5 Company Profiles
    - 15.5.1 HELLA GmbH & Co. KGaA
      - 15.5.1.1 Company Overview
      - 15.5.1.2 Product Portfolio

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- 15.5.1.3 Demographic Reach and Achievements
- 15.5.1.4 Certifications
- 15.5.2 Valeo SA
  - 15.5.2.1 Company Overview
  - 15.5.2.2 Product Portfolio
  - 15.5.2.3 Demographic Reach and Achievements
  - 15.5.2.4 Certifications
- 15.5.3 OSRAM GmbH
  - 15.5.3.1 Company Overview
  - 15.5.3.2 Product Portfolio
  - 15.5.3.3 Demographic Reach and Achievements
  - 15.5.3.4 Certifications
- 15.5.4 Hyundai Mobis Co.,Ltd.
  - 15.5.4.1 Company Overview
  - 15.5.4.2 Product Portfolio
  - 15.5.4.3 Demographic Reach and Achievements
  - 15.5.4.4 Certifications
- 15.5.5 Marelli Automotive Lighting Reutlingen (Germany) GmbH
  - 15.5.5.1 Company Overview
  - 15.5.5.2 Product Portfolio
  - 15.5.5.3 Demographic Reach and Achievements
  - 15.5.5.4 Certifications
- 15.5.6 KOITO MANUFACTURING CO., LTD.
  - 15.5.6.1 Company Overview
  - 15.5.6.2 Product Portfolio
  - 15.5.6.3 Demographic Reach and Achievements
  - 15.5.6.4 Certifications
- 15.5.7 STANLEY ELECTRIC CO., LTD.
  - 15.5.7.1 Company Overview
  - 15.5.7.2 Product Portfolio
  - 15.5.7.3 Demographic Reach and Achievements
  - 15.5.7.4 Certifications
- 15.5.8 Koninklijke Philips N.V.
  - 15.5.8.1 Company Overview
  - 15.5.8.2 Product Portfolio
  - 15.5.8.3 Demographic Reach and Achievements
  - 15.5.8.4 Certifications
- 15.5.9 Robert Bosch GmbH
  - 15.5.9.1 Company Overview
  - 15.5.9.2 Product Portfolio
  - 15.5.9.3 Demographic Reach and Achievements
  - 15.5.9.4 Certifications
- 15.5.10 Continental AG
  - 15.5.10.1 Company Overview
  - 15.5.10.2 Product Portfolio
  - 15.5.10.3 Demographic Reach and Achievements
  - 15.5.10.4 Certifications

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- 15.5.11 Varroc Engineering Limited
  - 15.5.11.1 Company Overview
  - 15.5.11.2 Product Portfolio
  - 15.5.11.3 Demographic Reach and Achievements
  - 15.5.11.4 Certifications
- 15.5.12 Others

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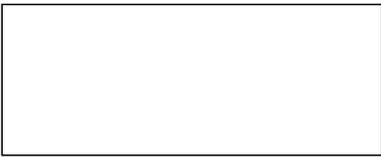
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