

Global UV-IR Biolighting Module Market Growth 2026-2032

<https://marketpublishers.com/r/G7907F0BF97CEN.html>

Date: July 2026

Pages: 145

Price: US\$ 3,660.00 (Single User License)

ID: G7907F0BF97CEN

Abstracts

The global UV-IR Biolighting Module market size is predicted to grow from US\$ 5362 million in 2025 to US\$ 13447 million in 2032; it is expected to grow at a CAGR of 14.1% from 2026 to 2032.

A UV-IR Biolighting Module is an optical-electronic lighting system that integrates ultraviolet (UV) and infrared (IR) light sources to regulate biological processes in plants, microorganisms, or biomedical applications. It is typically designed to provide wavelength-specific irradiation for functions such as plant growth regulation, sterilization, photomorphogenesis control, or therapeutic stimulation. The module often combines LED or laser-based UV (e.g., UVA/UVB/UVC) and IR (near-IR or far-IR) emitters with optical diffusion, thermal management, and intelligent control systems. In 2025, global UV-IR Biolighting Module production reached approximately 29.63 M units, with an average global market price of around US\$ 185 per unit. Annual production capacity is 35 M units. Gross Profit Margin: 37%. The UV-IR Biolighting Module industry chain is structured across upstream LED chip and optical material suppliers, midstream module and fixture manufacturers, and downstream application sectors such as controlled-environment agriculture, vertical farming, greenhouse cultivation, and biophotonic research. Upstream players provide UV, IR, and full-spectrum LED chips along with drivers and thermal components, while midstream manufacturers integrate spectrum control systems, PPFD calibration, and thermal management into standardized lighting modules. Downstream demand is driven by high-value crop production and precision agriculture systems that require stable spectral control and energy efficiency. The market development of UV-IR Biolighting Modules is increasingly shaped by spectrum precision, energy efficiency, and intelligent control integration. Product evolution is shifting from basic horticulture lighting toward multi-band spectral regulation systems combining UV stress control, IR thermal modulation, and real-time

adaptive PPFD management. From a commercial standpoint, competitive advantage is concentrated in companies capable of vertical integration across LED manufacturing, optical design, and smart agricultural control systems, enabling scalable deployment in industrial farming environments.

United States market for UV-IR Biolighting Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for UV-IR Biolighting Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for UV-IR Biolighting Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key UV-IR Biolighting Module players cover Signify, Ams Osram, Fluence By Signify, Heliospectra Ab, Valoya Oy, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "UV-IR Biolighting Module Industry Forecast" looks at past sales and reviews total world UV-IR Biolighting Module sales in 2025, providing a comprehensive analysis by region and market sector of projected UV-IR Biolighting Module sales for 2026 through 2032. With UV-IR Biolighting Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world UV-IR Biolighting Module industry.

This Insight Report provides a comprehensive analysis of the global UV-IR Biolighting Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on UV-IR Biolighting Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global UV-IR Biolighting Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for UV-IR Biolighting Module and breaks down the forecast by Spectrum Composition, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global UV-IR Biolighting

Module.

This report presents a comprehensive overview, market shares, and growth opportunities of UV-IR Biolighting Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Spectrum Composition:

UV-Dominant Module

Balanced UV-IR Module

IR-Assisted Module

Segmentation by Power Density:

Low Intensity Module(? 1 ? 10 W/m?)

Medium Intensity Module(? 10 ? 100 W/m?)

High Intensity Module(? 100 ? 500 W/m?)

Segmentation by Photon Flux:

Low PPFD Module: 50 ? 150 ?mol/m²/s

Medium PPFD Module: 150 ? 400 ?mol/m²/s

High PPFD Module: 400 ? 800 ?mol/m²/s

Ultra-High PPFD Module: 800 ? 1500 ?mol/m²/s

Segmentation by Application:

Greenhouse

Vertical Farming

Indoor Plant

Research / Lab

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Signify

Ams Osram

Fluence By Signify

Heliospectra Ab

Valoya Oy

Gavita International B.V.

Hortilux Schröder B.V.

Current Lighting Solutions Llc

Illumitex Inc.

California Lightworks Inc.

Lumigrow Inc.

Kessil Lighting

Senmatic A/S

Fionia Lighting A/S

Agrolux Nederland B.V.

Sananbio Co., Ltd.

Ohmax Optoelectronic

Cidly Technology Co., Ltd.

Nanolux Technology Inc.

Yaham Lighting Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global UV-IR Biolighting Module market?

What factors are driving UV-IR Biolighting Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do UV-IR Biolighting Module market opportunities vary by end market size?

How does UV-IR Biolighting Module break out by Spectrum Composition, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global UV-IR Biolighting Module Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for UV-IR Biolighting Module by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for UV-IR Biolighting Module by Country/Region, 2021, 2025 & 2032
- 2.2 UV-IR Biolighting Module Segment by Spectrum Composition
 - 2.2.1 UV-Dominant Module
 - 2.2.2 Balanced UV-IR Module
 - 2.2.3 IR-Assisted Module
 - 2.2.4 UV-IR Biolighting Module Sales by Spectrum Composition
 - 2.2.4.1 Global UV-IR Biolighting Module Sales Market Share by Spectrum Composition (2021-2026)
 - 2.2.4.2 Global UV-IR Biolighting Module Revenue and Market Share by Spectrum Composition (2021-2026)
 - 2.2.4.3 Global UV-IR Biolighting Module Sale Price by Spectrum Composition (2021-2026)
- 2.3 UV-IR Biolighting Module Segment by Power Density
 - 2.3.1 Low Intensity Module(? 1 ? 10 W/m?)
 - 2.3.2 Medium Intensity Module(? 10 ? 100 W/m?)
 - 2.3.3 High Intensity Module(? 100 ? 500 W/m?)
 - 2.3.4 UV-IR Biolighting Module Sales by Power Density
 - 2.3.4.1 Global UV-IR Biolighting Module Sales Market Share by Power Density (2021-2026)

2.3.4.2 Global UV-IR Biolighting Module Revenue and Market Share by Power Density (2021-2026)

2.3.4.3 Global UV-IR Biolighting Module Sale Price by Power Density (2021-2026)

2.4 UV-IR Biolighting Module Segment by Photon Flux

2.4.1 Low PPFD Module: 50 ? 150 ?mol/m²/s

2.4.2 Medium PPFD Module: 150 ? 400 ?mol/m²/s

2.4.3 High PPFD Module: 400 ? 800 ?mol/m²/s

2.4.4 Ultra-High PPFD Module: 800 ? 1500 ?mol/m²/s

2.4.5 UV-IR Biolighting Module Sales by Photon Flux

2.4.5.1 Global UV-IR Biolighting Module Sales Market Share by Photon Flux (2021-2026)

2.4.5.2 Global UV-IR Biolighting Module Revenue and Market Share by Photon Flux (2021-2026)

2.4.5.3 Global UV-IR Biolighting Module Sale Price by Photon Flux (2021-2026)

2.5 UV-IR Biolighting Module Segment by Application

2.5.1 Greenhouse

2.5.2 Vertical Farming

2.5.3 Indoor Plant

2.5.4 Research / Lab

2.5.5 Others

2.5.6 UV-IR Biolighting Module Sales by Application

2.5.6.1 Global UV-IR Biolighting Module Sale Market Share by Application (2021-2026)

2.5.6.2 Global UV-IR Biolighting Module Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global UV-IR Biolighting Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global UV-IR Biolighting Module Breakdown Data by Company

3.1.1 Global UV-IR Biolighting Module Annual Sales by Company (2021-2026)

3.1.2 Global UV-IR Biolighting Module Sales Market Share by Company (2021-2026)

3.2 Global UV-IR Biolighting Module Annual Revenue by Company (2021-2026)

3.2.1 Global UV-IR Biolighting Module Revenue by Company (2021-2026)

3.2.2 Global UV-IR Biolighting Module Revenue Market Share by Company (2021-2026)

3.3 Global UV-IR Biolighting Module Sale Price by Company

3.4 Key Manufacturers UV-IR Biolighting Module Producing Area Distribution, Sales Area, Product Type

- 3.4.1 Key Manufacturers UV-IR Biolighting Module Product Location Distribution
- 3.4.2 Players UV-IR Biolighting Module Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR UV-IR BIOLIGHTING MODULE BY GEOGRAPHIC REGION

- 4.1 World Historic UV-IR Biolighting Module Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global UV-IR Biolighting Module Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global UV-IR Biolighting Module Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic UV-IR Biolighting Module Market Size by Country/Region (2021-2026)
 - 4.2.1 Global UV-IR Biolighting Module Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global UV-IR Biolighting Module Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas UV-IR Biolighting Module Sales Growth
- 4.4 APAC UV-IR Biolighting Module Sales Growth
- 4.5 Europe UV-IR Biolighting Module Sales Growth
- 4.6 Middle East & Africa UV-IR Biolighting Module Sales Growth

5 AMERICAS

- 5.1 Americas UV-IR Biolighting Module Sales by Country
 - 5.1.1 Americas UV-IR Biolighting Module Sales by Country (2021-2026)
 - 5.1.2 Americas UV-IR Biolighting Module Revenue by Country (2021-2026)
- 5.2 Americas UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026)
- 5.3 Americas UV-IR Biolighting Module Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC UV-IR Biolighting Module Sales by Region

6.1.1 APAC UV-IR Biolighting Module Sales by Region (2021-2026)

6.1.2 APAC UV-IR Biolighting Module Revenue by Region (2021-2026)

6.2 APAC UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026)

6.3 APAC UV-IR Biolighting Module Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe UV-IR Biolighting Module by Country

7.1.1 Europe UV-IR Biolighting Module Sales by Country (2021-2026)

7.1.2 Europe UV-IR Biolighting Module Revenue by Country (2021-2026)

7.2 Europe UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026)

7.3 Europe UV-IR Biolighting Module Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa UV-IR Biolighting Module by Country

8.1.1 Middle East & Africa UV-IR Biolighting Module Sales by Country (2021-2026)

8.1.2 Middle East & Africa UV-IR Biolighting Module Revenue by Country (2021-2026)

8.2 Middle East & Africa UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026)

8.3 Middle East & Africa UV-IR Biolighting Module Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of UV-IR Biolighting Module

10.3 Manufacturing Process Analysis of UV-IR Biolighting Module

10.4 Industry Chain Structure of UV-IR Biolighting Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 UV-IR Biolighting Module Distributors

11.3 UV-IR Biolighting Module Customer

12 WORLD FORECAST REVIEW FOR UV-IR BIOLIGHTING MODULE BY GEOGRAPHIC REGION

12.1 Global UV-IR Biolighting Module Market Size Forecast by Region

12.1.1 Global UV-IR Biolighting Module Forecast by Region (2027-2032)

12.1.2 Global UV-IR Biolighting Module Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global UV-IR Biolighting Module Forecast by Spectrum Composition (2027-2032)

12.7 Global UV-IR Biolighting Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Signify

13.1.1 Signify Company Information

13.1.2 Signify UV-IR Biolighting Module Product Portfolios and Specifications

13.1.3 Signify UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Signify Main Business Overview

13.1.5 Signify Latest Developments

13.2 Ams Osram

13.2.1 Ams Osram Company Information

13.2.2 Ams Osram UV-IR Biolighting Module Product Portfolios and Specifications

13.2.3 Ams Osram UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Ams Osram Main Business Overview

13.2.5 Ams Osram Latest Developments

13.3 Fluence By Signify

13.3.1 Fluence By Signify Company Information

13.3.2 Fluence By Signify UV-IR Biolighting Module Product Portfolios and Specifications

13.3.3 Fluence By Signify UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Fluence By Signify Main Business Overview

13.3.5 Fluence By Signify Latest Developments

13.4 Heliospectra Ab

13.4.1 Heliospectra Ab Company Information

13.4.2 Heliospectra Ab UV-IR Biolighting Module Product Portfolios and Specifications

13.4.3 Heliospectra Ab UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Heliospectra Ab Main Business Overview

13.4.5 Heliospectra Ab Latest Developments

13.5 Valoya Oy

13.5.1 Valoya Oy Company Information

13.5.2 Valoya Oy UV-IR Biolighting Module Product Portfolios and Specifications

13.5.3 Valoya Oy UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Valoya Oy Main Business Overview

13.5.5 Valoya Oy Latest Developments

13.6 Gavita International B.V.

13.6.1 Gavita International B.V. Company Information

13.6.2 Gavita International B.V. UV-IR Biolighting Module Product Portfolios and Specifications

13.6.3 Gavita International B.V. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Gavita International B.V. Main Business Overview

13.6.5 Gavita International B.V. Latest Developments

13.7 Hortilux Schröder B.V.

13.7.1 Hortilux Schröder B.V. Company Information

13.7.2 Hortilux Schröder B.V. UV-IR Biolighting Module Product Portfolios and Specifications

13.7.3 Hortilux Schröder B.V. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Hortilux Schröder B.V. Main Business Overview

13.7.5 Hortilux Schröder B.V. Latest Developments

13.8 Current Lighting Solutions Llc

13.8.1 Current Lighting Solutions Llc Company Information

13.8.2 Current Lighting Solutions Llc UV-IR Biolighting Module Product Portfolios and Specifications

13.8.3 Current Lighting Solutions Llc UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Current Lighting Solutions Llc Main Business Overview

13.8.5 Current Lighting Solutions Llc Latest Developments

13.9 Illumitex Inc.

13.9.1 Illumitex Inc. Company Information

13.9.2 Illumitex Inc. UV-IR Biolighting Module Product Portfolios and Specifications

13.9.3 Illumitex Inc. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Illumitex Inc. Main Business Overview

13.9.5 Illumitex Inc. Latest Developments

13.10 California Lightworks Inc.

13.10.1 California Lightworks Inc. Company Information

13.10.2 California Lightworks Inc. UV-IR Biolighting Module Product Portfolios and Specifications

13.10.3 California Lightworks Inc. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 California Lightworks Inc. Main Business Overview

13.10.5 California Lightworks Inc. Latest Developments

13.11 Lumigrow Inc.

13.11.1 Lumigrow Inc. Company Information

- 13.11.2 Lumigrow Inc. UV-IR Biolighting Module Product Portfolios and Specifications
- 13.11.3 Lumigrow Inc. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.11.4 Lumigrow Inc. Main Business Overview
- 13.11.5 Lumigrow Inc. Latest Developments
- 13.12 Kessil Lighting
 - 13.12.1 Kessil Lighting Company Information
 - 13.12.2 Kessil Lighting UV-IR Biolighting Module Product Portfolios and Specifications
 - 13.12.3 Kessil Lighting UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Kessil Lighting Main Business Overview
 - 13.12.5 Kessil Lighting Latest Developments
- 13.13 Senmatic A/S
 - 13.13.1 Senmatic A/S Company Information
 - 13.13.2 Senmatic A/S UV-IR Biolighting Module Product Portfolios and Specifications
 - 13.13.3 Senmatic A/S UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Senmatic A/S Main Business Overview
 - 13.13.5 Senmatic A/S Latest Developments
- 13.14 Fionia Lighting A/S
 - 13.14.1 Fionia Lighting A/S Company Information
 - 13.14.2 Fionia Lighting A/S UV-IR Biolighting Module Product Portfolios and Specifications
 - 13.14.3 Fionia Lighting A/S UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Fionia Lighting A/S Main Business Overview
 - 13.14.5 Fionia Lighting A/S Latest Developments
- 13.15 Agrolux Nederland B.V.
 - 13.15.1 Agrolux Nederland B.V. Company Information
 - 13.15.2 Agrolux Nederland B.V. UV-IR Biolighting Module Product Portfolios and Specifications
 - 13.15.3 Agrolux Nederland B.V. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Agrolux Nederland B.V. Main Business Overview
 - 13.15.5 Agrolux Nederland B.V. Latest Developments
- 13.16 Sananbio Co., Ltd.
 - 13.16.1 Sananbio Co., Ltd. Company Information
 - 13.16.2 Sananbio Co., Ltd. UV-IR Biolighting Module Product Portfolios and Specifications

13.16.3 Sananbio Co., Ltd. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Sananbio Co., Ltd. Main Business Overview

13.16.5 Sananbio Co., Ltd. Latest Developments

13.17 Ohmax Optoelectronic

13.17.1 Ohmax Optoelectronic Company Information

13.17.2 Ohmax Optoelectronic UV-IR Biolighting Module Product Portfolios and Specifications

13.17.3 Ohmax Optoelectronic UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Ohmax Optoelectronic Main Business Overview

13.17.5 Ohmax Optoelectronic Latest Developments

13.18 Cidly Technology Co., Ltd.

13.18.1 Cidly Technology Co., Ltd. Company Information

13.18.2 Cidly Technology Co., Ltd. UV-IR Biolighting Module Product Portfolios and Specifications

13.18.3 Cidly Technology Co., Ltd. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Cidly Technology Co., Ltd. Main Business Overview

13.18.5 Cidly Technology Co., Ltd. Latest Developments

13.19 Nanolux Technology Inc.

13.19.1 Nanolux Technology Inc. Company Information

13.19.2 Nanolux Technology Inc. UV-IR Biolighting Module Product Portfolios and Specifications

13.19.3 Nanolux Technology Inc. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Nanolux Technology Inc. Main Business Overview

13.19.5 Nanolux Technology Inc. Latest Developments

13.20 Yaham Lighting Co., Ltd.

13.20.1 Yaham Lighting Co., Ltd. Company Information

13.20.2 Yaham Lighting Co., Ltd. UV-IR Biolighting Module Product Portfolios and Specifications

13.20.3 Yaham Lighting Co., Ltd. UV-IR Biolighting Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Yaham Lighting Co., Ltd. Main Business Overview

13.20.5 Yaham Lighting Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. UV-IR Biolighting Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. UV-IR Biolighting Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of UV-Dominant Module

Table 4. Major Players of Balanced UV-IR Module

Table 5. Major Players of IR-Assisted Module

Table 6. Global UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026) & (Units)

Table 7. Global UV-IR Biolighting Module Sales Market Share by Spectrum Composition (2021-2026)

Table 8. Global UV-IR Biolighting Module Revenue by Spectrum Composition (2021-2026) & (\$ million)

Table 9. Global UV-IR Biolighting Module Revenue Market Share by Spectrum Composition (2021-2026)

Table 10. Global UV-IR Biolighting Module Sale Price by Spectrum Composition (2021-2026) & (US\$/Unit)

Table 11. Major Players of Low Intensity Module(? 1 ? 10 W/m?)

Table 12. Major Players of Medium Intensity Module(? 10 ? 100 W/m?)

Table 13. Major Players of High Intensity Module(? 100 ? 500 W/m?)

Table 14. Global UV-IR Biolighting Module Sales by Power Density (2021-2026) & (Units)

Table 15. Global UV-IR Biolighting Module Sales Market Share by Power Density (2021-2026)

Table 16. Global UV-IR Biolighting Module Revenue by Power Density (2021-2026) & (\$ million)

Table 17. Global UV-IR Biolighting Module Revenue Market Share by Power Density (2021-2026)

Table 18. Global UV-IR Biolighting Module Sale Price by Power Density (2021-2026) & (US\$/Unit)

Table 19. Major Players of Low PPFD Module: 50 ? 150 ?mol/m²/s

Table 20. Major Players of Medium PPFD Module: 150 ? 400 ?mol/m²/s

Table 21. Major Players of High PPFD Module: 400 ? 800 ?mol/m²/s

Table 22. Major Players of Ultra-High PPFD Module: 800 ? 1500 ?mol/m²/s

Table 23. Global UV-IR Biolighting Module Sales by Photon Flux (2021-2026) & (Units)

Table 24. Global UV-IR Biolighting Module Sales Market Share by Photon Flux (2021-2026)

Table 25. Global UV-IR Biolighting Module Revenue by Photon Flux (2021-2026) & (\$ million)

Table 26. Global UV-IR Biolighting Module Revenue Market Share by Photon Flux (2021-2026)

Table 27. Global UV-IR Biolighting Module Sale Price by Photon Flux (2021-2026) & (US\$/Unit)

Table 28. Global UV-IR Biolighting Module Sale by Application (2021-2026) & (Units)

Table 29. Global UV-IR Biolighting Module Sale Market Share by Application (2021-2026)

Table 30. Global UV-IR Biolighting Module Revenue by Application (2021-2026) & (\$ million)

Table 31. Global UV-IR Biolighting Module Revenue Market Share by Application (2021-2026)

Table 32. Global UV-IR Biolighting Module Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global UV-IR Biolighting Module Sales by Company (2021-2026) & (Units)

Table 34. Global UV-IR Biolighting Module Sales Market Share by Company (2021-2026)

Table 35. Global UV-IR Biolighting Module Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global UV-IR Biolighting Module Revenue Market Share by Company (2021-2026)

Table 37. Global UV-IR Biolighting Module Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers UV-IR Biolighting Module Producing Area Distribution and Sales Area

Table 39. Players UV-IR Biolighting Module Products Offered

Table 40. UV-IR Biolighting Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global UV-IR Biolighting Module Sales by Geographic Region (2021-2026) & (Units)

Table 44. Global UV-IR Biolighting Module Sales Market Share Geographic Region (2021-2026)

Table 45. Global UV-IR Biolighting Module Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global UV-IR Biolighting Module Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global UV-IR Biolighting Module Sales by Country/Region (2021-2026) & (Units)

Table 48. Global UV-IR Biolighting Module Sales Market Share by Country/Region (2021-2026)

Table 49. Global UV-IR Biolighting Module Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global UV-IR Biolighting Module Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas UV-IR Biolighting Module Sales by Country (2021-2026) & (Units)

Table 52. Americas UV-IR Biolighting Module Sales Market Share by Country (2021-2026)

Table 53. Americas UV-IR Biolighting Module Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026) & (Units)

Table 55. Americas UV-IR Biolighting Module Sales by Application (2021-2026) & (Units)

Table 56. APAC UV-IR Biolighting Module Sales by Region (2021-2026) & (Units)

Table 57. APAC UV-IR Biolighting Module Sales Market Share by Region (2021-2026)

Table 58. APAC UV-IR Biolighting Module Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026) & (Units)

Table 60. APAC UV-IR Biolighting Module Sales by Application (2021-2026) & (Units)

Table 61. Europe UV-IR Biolighting Module Sales by Country (2021-2026) & (Units)

Table 62. Europe UV-IR Biolighting Module Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026) & (Units)

Table 64. Europe UV-IR Biolighting Module Sales by Application (2021-2026) & (Units)

Table 65. Middle East & Africa UV-IR Biolighting Module Sales by Country (2021-2026) & (Units)

Table 66. Middle East & Africa UV-IR Biolighting Module Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa UV-IR Biolighting Module Sales by Spectrum Composition (2021-2026) & (Units)

Table 68. Middle East & Africa UV-IR Biolighting Module Sales by Application

(2021-2026) & (Units)

Table 69. Key Market Drivers & Growth Opportunities of UV-IR Biolighting Module

Table 70. Key Market Challenges & Risks of UV-IR Biolighting Module

Table 71. Key Industry Trends of UV-IR Biolighting Module

Table 72. UV-IR Biolighting Module Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. UV-IR Biolighting Module Distributors List

Table 75. UV-IR Biolighting Module Customer List

Table 76. Global UV-IR Biolighting Module Sales Forecast by Region (2027-2032) & (Units)

Table 77. Global UV-IR Biolighting Module Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas UV-IR Biolighting Module Sales Forecast by Country (2027-2032) & (Units)

Table 79. Americas UV-IR Biolighting Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC UV-IR Biolighting Module Sales Forecast by Region (2027-2032) & (Units)

Table 81. APAC UV-IR Biolighting Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe UV-IR Biolighting Module Sales Forecast by Country (2027-2032) & (Units)

Table 83. Europe UV-IR Biolighting Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa UV-IR Biolighting Module Sales Forecast by Country (2027-2032) & (Units)

Table 85. Middle East & Africa UV-IR Biolighting Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global UV-IR Biolighting Module Sales Forecast by Spectrum Composition (2027-2032) & (Units)

Table 87. Global UV-IR Biolighting Module Revenue Forecast by Spectrum Composition (2027-2032) & (\$ millions)

Table 88. Global UV-IR Biolighting Module Sales Forecast by Application (2027-2032) & (Units)

Table 89. Global UV-IR Biolighting Module Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Signify Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 91. Signify UV-IR Biolighting Module Product Portfolios and Specifications

Table 92. Signify UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Signify Main Business

Table 94. Signify Latest Developments

Table 95. Ams Osram Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 96. Ams Osram UV-IR Biolighting Module Product Portfolios and Specifications

Table 97. Ams Osram UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Ams Osram Main Business

Table 99. Ams Osram Latest Developments

Table 100. Fluence By Signify Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 101. Fluence By Signify UV-IR Biolighting Module Product Portfolios and Specifications

Table 102. Fluence By Signify UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Fluence By Signify Main Business

Table 104. Fluence By Signify Latest Developments

Table 105. Heliospectra Ab Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 106. Heliospectra Ab UV-IR Biolighting Module Product Portfolios and Specifications

Table 107. Heliospectra Ab UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Heliospectra Ab Main Business

Table 109. Heliospectra Ab Latest Developments

Table 110. Valoya Oy Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 111. Valoya Oy UV-IR Biolighting Module Product Portfolios and Specifications

Table 112. Valoya Oy UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Valoya Oy Main Business

Table 114. Valoya Oy Latest Developments

Table 115. Gavita International B.V. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 116. Gavita International B.V. UV-IR Biolighting Module Product Portfolios and Specifications

Table 117. Gavita International B.V. UV-IR Biolighting Module Sales (Units), Revenue

(\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Gavita International B.V. Main Business

Table 119. Gavita International B.V. Latest Developments

Table 120. Hortilux Schröder B.V. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 121. Hortilux Schröder B.V. UV-IR Biolighting Module Product Portfolios and Specifications

Table 122. Hortilux Schröder B.V. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Hortilux Schröder B.V. Main Business

Table 124. Hortilux Schröder B.V. Latest Developments

Table 125. Current Lighting Solutions Llc Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 126. Current Lighting Solutions Llc UV-IR Biolighting Module Product Portfolios and Specifications

Table 127. Current Lighting Solutions Llc UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Current Lighting Solutions Llc Main Business

Table 129. Current Lighting Solutions Llc Latest Developments

Table 130. Illumitex Inc. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 131. Illumitex Inc. UV-IR Biolighting Module Product Portfolios and Specifications

Table 132. Illumitex Inc. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Illumitex Inc. Main Business

Table 134. Illumitex Inc. Latest Developments

Table 135. California Lightworks Inc. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 136. California Lightworks Inc. UV-IR Biolighting Module Product Portfolios and Specifications

Table 137. California Lightworks Inc. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. California Lightworks Inc. Main Business

Table 139. California Lightworks Inc. Latest Developments

Table 140. Lumigrow Inc. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 141. Lumigrow Inc. UV-IR Biolighting Module Product Portfolios and Specifications

Table 142. Lumigrow Inc. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Lumigrow Inc. Main Business

Table 144. Lumigrow Inc. Latest Developments

Table 145. Kessil Lighting Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 146. Kessil Lighting UV-IR Biolighting Module Product Portfolios and Specifications

Table 147. Kessil Lighting UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Kessil Lighting Main Business

Table 149. Kessil Lighting Latest Developments

Table 150. Senmatic A/S Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 151. Senmatic A/S UV-IR Biolighting Module Product Portfolios and Specifications

Table 152. Senmatic A/S UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Senmatic A/S Main Business

Table 154. Senmatic A/S Latest Developments

Table 155. Fionia Lighting A/S Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 156. Fionia Lighting A/S UV-IR Biolighting Module Product Portfolios and Specifications

Table 157. Fionia Lighting A/S UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Fionia Lighting A/S Main Business

Table 159. Fionia Lighting A/S Latest Developments

Table 160. Agrolux Nederland B.V. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 161. Agrolux Nederland B.V. UV-IR Biolighting Module Product Portfolios and Specifications

Table 162. Agrolux Nederland B.V. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 163. Agrolux Nederland B.V. Main Business

Table 164. Agrolux Nederland B.V. Latest Developments

Table 165. Sananbio Co., Ltd. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 166. Sananbio Co., Ltd. UV-IR Biolighting Module Product Portfolios and Specifications

Table 167. Sananbio Co., Ltd. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 168. Sananbio Co., Ltd. Main Business

Table 169. Sananbio Co., Ltd. Latest Developments

Table 170. Ohmax Optoelectronic Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 171. Ohmax Optoelectronic UV-IR Biolighting Module Product Portfolios and Specifications

Table 172. Ohmax Optoelectronic UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 173. Ohmax Optoelectronic Main Business

Table 174. Ohmax Optoelectronic Latest Developments

Table 175. Cidly Technology Co., Ltd. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 176. Cidly Technology Co., Ltd. UV-IR Biolighting Module Product Portfolios and Specifications

Table 177. Cidly Technology Co., Ltd. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 178. Cidly Technology Co., Ltd. Main Business

Table 179. Cidly Technology Co., Ltd. Latest Developments

Table 180. Nanolux Technology Inc. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 181. Nanolux Technology Inc. UV-IR Biolighting Module Product Portfolios and Specifications

Table 182. Nanolux Technology Inc. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 183. Nanolux Technology Inc. Main Business

Table 184. Nanolux Technology Inc. Latest Developments

Table 185. Yaham Lighting Co., Ltd. Basic Information, UV-IR Biolighting Module Manufacturing Base, Sales Area and Its Competitors

Table 186. Yaham Lighting Co., Ltd. UV-IR Biolighting Module Product Portfolios and Specifications

Table 187. Yaham Lighting Co., Ltd. UV-IR Biolighting Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 188. Yaham Lighting Co., Ltd. Main Business

Table 189. Yaham Lighting Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of UV-IR Biolighting Module
- Figure 2. UV-IR Biolighting Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global UV-IR Biolighting Module Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global UV-IR Biolighting Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. UV-IR Biolighting Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. UV-IR Biolighting Module Sales Market Share by Country/Region (2025)
- Figure 10. UV-IR Biolighting Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of UV-Dominant Module
- Figure 12. Product Picture of Balanced UV-IR Module
- Figure 13. Product Picture of IR-Assisted Module
- Figure 14. Global UV-IR Biolighting Module Sales Market Share by Spectrum Composition in 2026
- Figure 15. Global UV-IR Biolighting Module Revenue Market Share by Spectrum Composition (2021-2026)
- Figure 16. Product Picture of Low Intensity Module(? 1 ? 10 W/m?)
- Figure 17. Product Picture of Medium Intensity Module(? 10 ? 100 W/m?)
- Figure 18. Product Picture of High Intensity Module(? 100 ? 500 W/m?)
- Figure 19. Global UV-IR Biolighting Module Sales Market Share by Power Density in 2026
- Figure 20. Global UV-IR Biolighting Module Revenue Market Share by Power Density (2021-2026)
- Figure 21. Product Picture of Low PPFD Module: 50 ? 150 ?mol/m²/s
- Figure 22. Product Picture of Medium PPFD Module: 150 ? 400 ?mol/m²/s
- Figure 23. Product Picture of High PPFD Module: 400 ? 800 ?mol/m²/s
- Figure 24. Product Picture of Ultra-High PPFD Module: 800 ? 1500 ?mol/m²/s
- Figure 25. Global UV-IR Biolighting Module Sales Market Share by Photon Flux in 2026
- Figure 26. Global UV-IR Biolighting Module Revenue Market Share by Photon Flux (2021-2026)
- Figure 27. UV-IR Biolighting Module Consumed in Greenhouse
- Figure 28. Global UV-IR Biolighting Module Market: Greenhouse (2021-2026) & (Units)

Figure 29. UV-IR Biolighting Module Consumed in Vertical Farming

Figure 30. Global UV-IR Biolighting Module Market: Vertical Farming (2021-2026) & (Units)

Figure 31. UV-IR Biolighting Module Consumed in Indoor Plant

Figure 32. Global UV-IR Biolighting Module Market: Indoor Plant (2021-2026) & (Units)

Figure 33. UV-IR Biolighting Module Consumed in Research / Lab

Figure 34. Global UV-IR Biolighting Module Market: Research / Lab (2021-2026) & (Units)

Figure 35. UV-IR Biolighting Module Consumed in Others

Figure 36. Global UV-IR Biolighting Module Market: Others (2021-2026) & (Units)

Figure 37. Global UV-IR Biolighting Module Sale Market Share by Application (2025)

Figure 38. Global UV-IR Biolighting Module Revenue Market Share by Application in 2025

Figure 39. UV-IR Biolighting Module Sales by Company in 2025 (Units)

Figure 40. Global UV-IR Biolighting Module Sales Market Share by Company in 2025

Figure 41. UV-IR Biolighting Module Revenue by Company in 2025 (\$ millions)

Figure 42. Global UV-IR Biolighting Module Revenue Market Share by Company in 2025

Figure 43. Global UV-IR Biolighting Module Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global UV-IR Biolighting Module Revenue Market Share by Geographic Region in 2025

Figure 45. Americas UV-IR Biolighting Module Sales 2021-2026 (Units)

Figure 46. Americas UV-IR Biolighting Module Revenue 2021-2026 (\$ millions)

Figure 47. APAC UV-IR Biolighting Module Sales 2021-2026 (Units)

Figure 48. APAC UV-IR Biolighting Module Revenue 2021-2026 (\$ millions)

Figure 49. Europe UV-IR Biolighting Module Sales 2021-2026 (Units)

Figure 50. Europe UV-IR Biolighting Module Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa UV-IR Biolighting Module Sales 2021-2026 (Units)

Figure 52. Middle East & Africa UV-IR Biolighting Module Revenue 2021-2026 (\$ millions)

Figure 53. Americas UV-IR Biolighting Module Sales Market Share by Country in 2025

Figure 54. Americas UV-IR Biolighting Module Revenue Market Share by Country (2021-2026)

Figure 55. Americas UV-IR Biolighting Module Sales Market Share by Spectrum Composition (2021-2026)

Figure 56. Americas UV-IR Biolighting Module Sales Market Share by Application (2021-2026)

Figure 57. United States UV-IR Biolighting Module Revenue Growth 2021-2026 (\$

millions)

Figure 58. Canada UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC UV-IR Biolighting Module Sales Market Share by Region in 2025

Figure 62. APAC UV-IR Biolighting Module Revenue Market Share by Region
(2021-2026)

Figure 63. APAC UV-IR Biolighting Module Sales Market Share by Spectrum
Composition (2021-2026)

Figure 64. APAC UV-IR Biolighting Module Sales Market Share by Application
(2021-2026)

Figure 65. China UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 66. Japan UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Korea UV-IR Biolighting Module Revenue Growth 2021-2026 (\$
millions)

Figure 68. Southeast Asia UV-IR Biolighting Module Revenue Growth 2021-2026 (\$
millions)

Figure 69. India UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 70. Australia UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 71. China Taiwan UV-IR Biolighting Module Revenue Growth 2021-2026 (\$
millions)

Figure 72. Europe UV-IR Biolighting Module Sales Market Share by Country in 2025

Figure 73. Europe UV-IR Biolighting Module Revenue Market Share by Country
(2021-2026)

Figure 74. Europe UV-IR Biolighting Module Sales Market Share by Spectrum
Composition (2021-2026)

Figure 75. Europe UV-IR Biolighting Module Sales Market Share by Application
(2021-2026)

Figure 76. Germany UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 77. France UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 78. UK UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 79. Italy UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 80. Russia UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 81. Middle East & Africa UV-IR Biolighting Module Sales Market Share by
Country (2021-2026)

Figure 82. Middle East & Africa UV-IR Biolighting Module Sales Market Share by
Spectrum Composition (2021-2026)

Figure 83. Middle East & Africa UV-IR Biolighting Module Sales Market Share by
Application (2021-2026)

Figure 84. Egypt UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Africa UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 86. Israel UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 87. Turkey UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 88. GCC Countries UV-IR Biolighting Module Revenue Growth 2021-2026 (\$ millions)

Figure 89. Manufacturing Cost Structure Analysis of UV-IR Biolighting Module in 2026

Figure 90. Manufacturing Process Analysis of UV-IR Biolighting Module

Figure 91. Industry Chain Structure of UV-IR Biolighting Module

Figure 92. Channels of Distribution

Figure 93. Global UV-IR Biolighting Module Sales Market Forecast by Region (2027-2032)

Figure 94. Global UV-IR Biolighting Module Revenue Market Share Forecast by Region (2027-2032)

Figure 95. Global UV-IR Biolighting Module Sales Market Share Forecast by Spectrum Composition (2027-2032)

Figure 96. Global UV-IR Biolighting Module Revenue Market Share Forecast by Spectrum Composition (2027-2032)

Figure 97. Global UV-IR Biolighting Module Sales Market Share Forecast by Application (2027-2032)

Figure 98. Global UV-IR Biolighting Module Revenue Market Share Forecast by Application (2027-2032)

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