

**bsi**  
**iOTTO SERIES**  
Light Elements and  
Bollards



# SMART LIGHTING TRENDS

BSI® Lighting Technologies follows smart, sustainable and ecologically responsible outdoor lighting principles using new technologies and best practices in lighting design and production.

We provide the most current research and information to our clients on smart lighting solutions based on their performance and real effectiveness.



## Total lighting solution

BSI® Lighting Technologies lighting luminaires combine high technology and stylish design, from classic to modern, with high-efficiency LED technology.

Our portfolio brings in optimal lighting solutions for architectural, architainment, commercial and public applications. All products from urban, roadway lighting to residential, parking, area, pedestrian, tunnel & underpass, flood, landscape and indoor lighting are specifically designed to provide efficient visual comfort and enjoyment.





# urban lighting

The range inspires architects, designers and system integrators with its exceptional quality, a variety of beam angles and remarkable creativity.



# Design, modularity and function for creating ambient lighting effects.

## 24-hour cities

Well-designed night-time lighting can influence the way you use and enjoy a city, the way you move around its streets and even the way you feel.

## Project-Centred

The company team studies each project with a unique approach and creates custom-made systems that allow greater integration into the architecture.

## In the Field

Urban lighting is not just about meeting safety needs through code compliance, or achieving an aesthetic effect. It presents a significant opportunity to fundamentally improve the quality of life of urban citizens.

## Exploring the Future of Urban Lighting

For lighting to become truly integrated to the urban environment, we work together with lighting designers, urban planners and public utilities to have a common goal the desire to create harmonious, environmentally, and contextually sensitive lighting around the globe.

## Innovations for future

The power and impact of light are prominent, lighting components are less visible and more integrated with the architecture, and the boundary between lighting and design is nebulous. We see great opportunities to create spaces with interactive light, where its intensity, color, and movement respond to occupants or to programming, changing the use of any space, on any given days.

## Timeless design for all outdoor areas

iMistral Series provide an elegant solution for lighting various environments in towns and cities such as urban and residential streets, squares and parks, pedestrian areas and car parks.



## The Company

BSI® Lighting Technologies; designs and manufactures creative lighting solutions for the international architectural lighting market. BSI® offers a wide range of services, from consultation and advice to architects and architectural lighting designers during the initial project design phase to helping to identify and develop technology solutions, customized products or custom-designed, project specific products.

## A Commitment to Better Lighting

The Company's core technology, innovative designs and superior customer service enable the next generation of illumination continuing to change the way we light the world.

## In-House Research & Development

BSI® Lighting Technologies has extensive experience in designing luminaires for a range of extreme environments. With a growing portfolio of products and an increasingly comprehensive range of services our investment in Research and Technology is very important.

## Warranty & Support

BSI® Lighting Technologies offers factory-direct warranty and application support. With BSI® Lighting Technologies standing behind the technology, design and manufacturing of our products, you can feel confident that you have chosen the right partner. If you ever have a question or problem, you can talk to us directly.



## Committed to Excellence

The company was created to complement a variety of design styles for urban, public, hospitality, retail and residential spaces. We strive to provide our clients with innovative designs, precision metal work and unique materials. BSI® is committed to energy efficiency in design and the use of renewable and reclaimable resources.

## Solid Experience

BSI® Lighting Technologies collaborates with landscape designers, architects, lighting designers and lighting specifiers to develop custom lighting solutions specific to their needs. Having an in-house design staff increases productivity and gives the client all the tools necessary to bring their ideas to life.

## Design Focussed

BSI® supports all phases of the design process: from concept, through a collaborative design work-flow, to final realization within the architectural space. We offer 3D CAD modeling, photorealistic renderings and video animations to support each project.

## Flexible and Independent

BSI® Lighting Technologies is an independent and flexible supplier whose know-how and knowledge is operating in many industry verticals all over Europe, Asia, Africa and the Middle East. BSI® has the full flexibility and processes to cooperate with its business partners wherever they are located.



## iOtto Series

Modular urban lighting system for the perfect combination of design and innovation. The system stands for the most diverse multifunctionality and form.

This innovative series

provide an extensive range of formal lighting solutions for residential and commercial areas.





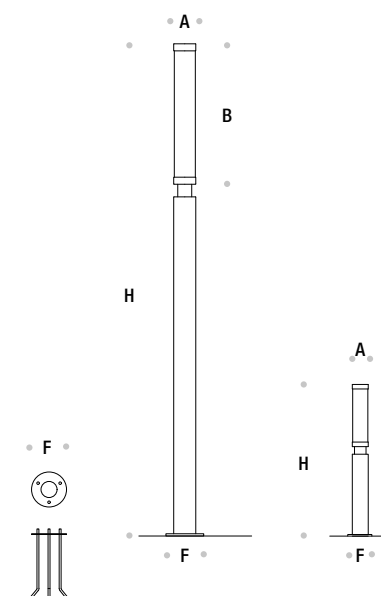
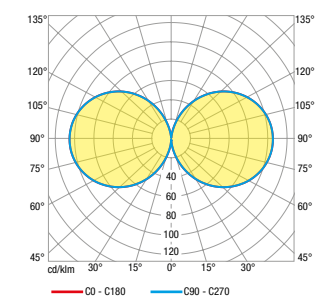
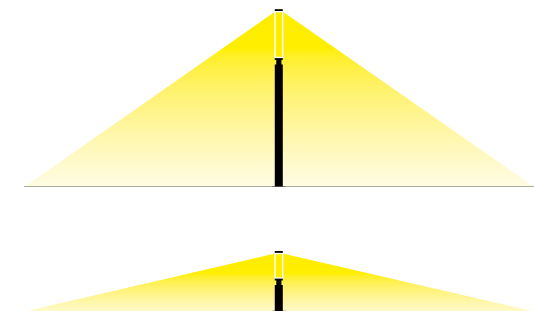
With its simple and attractive design, iOtto light element provides even and comfort lighting. Its slender, streamlined form and minimalist design helps it blend seamlessly into its surroundings. It is particularly suited to the lighting of busy areas such as squares, parks and pedestrian streets.

Designed to last in extremely harsh environments.



CODE	POWER CONSUMPTION	LUMEN OUTPUT (lm) 3000K / 4000K	COLOUR TEMPERATURE	A (mm)	B (mm)	H (mm)	F (mm)
UA1530 LIGHT ELEMENT	54W	5940 / 6480	3000K / 4000K	157	900	3500	250
LB2298 BOLLARD	18W	1980 / 2160	3000K / 4000K	125	350	1000	180

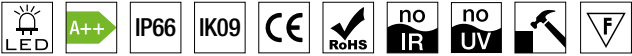
LED Type	High efficiency LEDs, available in 2700K, 3000K, 4000K, 5000K, 6500K CCT tolerance within a 3-step MacAdams ellipse and LM80 compliant.
Nominal Voltage	220V-240V AC, 50/60Hz
Color Rendering Index	CRI> 80 standard and CRI>90 on request.
Light Distribution	Symmetrical light distribution with 360° light emission.
Materials	Corrosion resistant double layer polyester powder coated paint finish die cast aluminium housing, aluminium extruded column (EN AW-6060) with stainless steel screws (A4 grade) and silicone gaskets. Power unit is built in. Available in anthracite gray as a standard finish or any desired RAL colour.
Optional Coating	Marine grade.
Diffuser	Shockproof PMMA UV Stabilised Diffuser.
LED Specification	L90B50 > 100000 hours life time.
Energy Efficiency Class (EEC)	A++
Operating Temperature	-40°C / +55°C
Power Factor	>0.95
Control Systems	DALI Interface.
Protection Class	IP65
Impact Resistance	IK08
Insulation Class	Class I
Conformity	Complies with European Standards EN 60598 and CE certified.



iOtto Plus

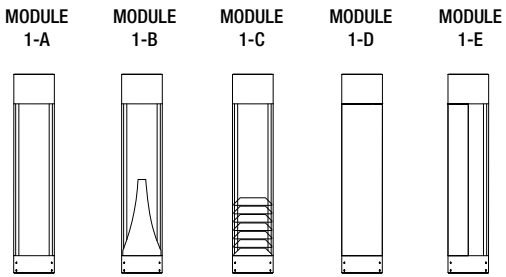
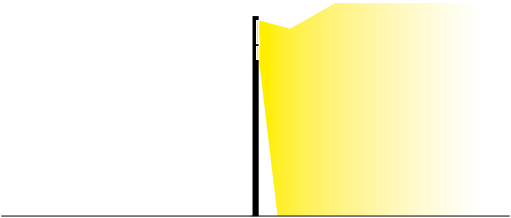
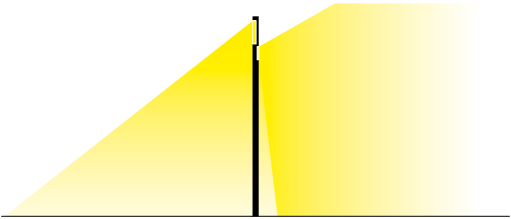
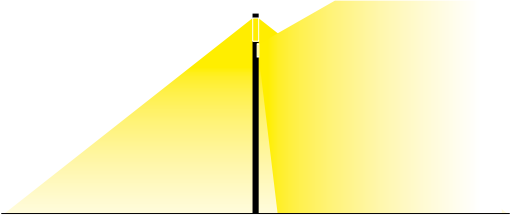
iOtto Plus is a multi purpose urban lighting column suitable for squares, roads, pedestrian precincts, car parks and sports areas. Modules are fully rotatable and adjustable. The system can be integrated to control systems, HI-FI speakers, cameras and chargers. Advanced thermal design with cutting-edge manufacturing process and materials.

Designed to last in extremely harsh environments.



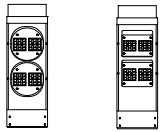
CODE	POWER CONSUMPTION	LUMEN OUTPUT (lm) 3000K / 4000K	COLOUR TEMPERATURE	D (mm)	H (mm)	H1 (mm)	H2 (mm)	F (mm)
LB1531 With Top Module	41W	4510 / 4920	3000K / 4000K	160	4000 / 5000	445	780	250
LB1532 With 2 Inter Module	41W	4510 / 4920	3000K / 4000K	180	6000 / 7000	445	780	250

LED Type	High efficiency LEDs, available in 2700K, 3000K, 4000K, 5000K, 6500K CCT tolerance within a 3-step MacAdams ellipse and LM80 compliant.
Nominal Voltage	220V-240V AC, 50/60Hz
Color Rendering Index	CRI> 80 standard and CRI>90 on request.
Optics	<b>TOP Module:</b> Area Lighting. <b>BSISQ® LED Module:</b> Rotationally symmetrical 30° / 60° / 90° or asymmetrical light distribution. <b>BSIFL® LED Module:</b> Rotationally symmetrical 30° / 60° / 90° or asymmetrical light distribution.
Materials	Corrosion resistant double layer polyester powder coated paint finish die cast aluminium housing, aluminium extruded column (EN AW-6060) with stainless steel screws (A4 grade) and silicone gaskets. Power unit is built in. Available in anthracite gray as a standard finish or any desired RAL colour.
Optional Coating	Marine grade.
Accessories	Adjustable LED Floodlight.
Diffuser	Shockproof PMMA UV Stabilised Diffuser.
LED Specification	L90B50 > 100000 hours life time.
Energy Efficiency Class (EEC)	A++
Operating Temperature	-40°C / +55°C
Power Factor	>0.95
Control Systems	DALI Interface.
Protection Class	IP66
Impact Resistance	IK09
Insulation Class	Class I
Conformity	Complies with European Standards EN 60598 and CE certified.

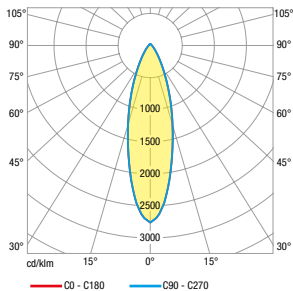
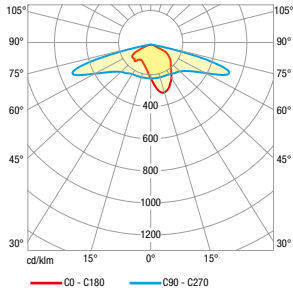
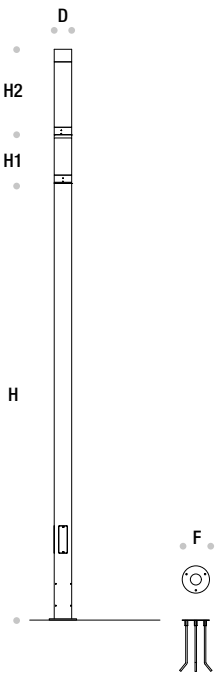


TOP MODULE

BSIFL® LED MODULE    BSISQ® LED MODULE



INTER MODULE





# iOtto Sum



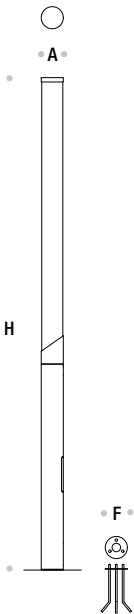
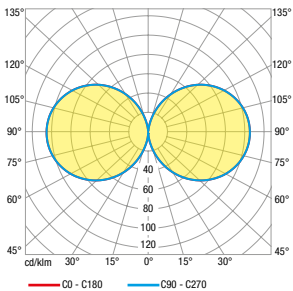
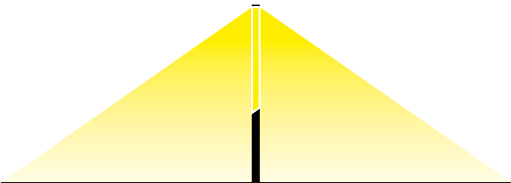
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Designed to last in extremely harsh environments.



CODE	POWER CONSUMPTION	LUMEN OUTPUT (lm) 3000K / 4000K	COLOUR TEMPERATURE	A (mm)	H (mm)	F (mm)
LB1844 LIGHT ELEMENT	36W	2700 / 3060	3000K / 4000K	157	2500	157
LB1846 LIGHT ELEMENT	36W	2700 / 3060	3000K / 4000K	157	3000	157
LB1848 LIGHT ELEMENT	36W	2700 / 3060	3000K / 4000K	157	4000	157

LED Type	High efficiency LEDs, available in 2700K, 3000K, 4000K, 5000K, 6500K CCT tolerance within a 3-step MacAdams ellipse and LM80 compliant.
Nominal Voltage	220V-240V AC, 50/60Hz
Color Rendering Index	CRI> 80 standard and CRI>90 on request.
Light Distribution	Symmetrical light distribution with 360° light emission.
Materials	Corrosion resistant double layer polyester powder coated paint finish die cast aluminium housing, aluminium extruded column (EN AW-6060) with stainless steel screws (A4 grade) and silicone gaskets. Power unit is built in. Available in anthracite gray as a standard finish or any desired RAL colour.
Optional Coating	Marine grade.
Diffuser	Shockproof PMMA UV Stabilised Diffuser.
LED Specification	L90B50 > 100000 hours life time.
Energy Efficiency Class (EEC)	A++
Operating Temperature	-40°C / +55°C
Power Factor	>0.95
Control Systems	DALI Interface.
Protection Class	IP65
Impact Resistance	IK08
Insulation Class	Class I
Conformity	Complies with European Standards EN 60598 and CE certified.





### A new and fresh approach to lighting products and manufacturing

BSI® Lighting Technologies controls every aspect of the production process; design, development, manufacturing, and distribution. The result; high quality, from product performance to customer service.

### Integrated development, production, and quality assurance

At BSI® Lighting Technologies; the product development location with planning, development, production, and quality control units are collected in one place.



### Cutting-edge technology and artisan perfection in lighting

We created a new concept stands for artisan and trendy LED lighting luminaires with an appealing design and high-quality manufacturing.

### Lighting solutions, in harmony with architecture and nature

We stand for innovative lighting technology and combined light expertise; from large-scale projects to customer project solutions.

### We are the dynamic partner for high-quality lighting solutions

The comprehensive know-how of the BSI® lighting engineers stands for Quality Made in Turkey and the continuous optimisation of productivity, safety, health and energy-saving.





### Customised lighting solutions for unlimited freedom

BSI® Lighting Technologies is a global manufacturer offers architectural and technical energy-efficient, high quality, sustainable lighting solutions, both for indoor and outdoor spaces.

From product engineering and design to the prototyping and manufacturing of LED luminaires, the company uses the latest technologies to satisfy clients' needs and guarantee long lasting quality. We have a total lighting product range for commercial, educational, public, residential, industrial and sports areas.

The company is also known for custom-made solutions. We are constantly working on improving products for the new generation lighting requirements. Our innovation is based on the continuous renewal of products and processes, creative system solutions for the customer needs.

# glossary



## Light emitting diode

LED is a semiconductor component that emits light when voltage is applied to it.



## Color Rendering Index

Color Rendering international system to rate lighting device ability to render object colors. The higher the CRI (based on a 0-100 scale) Natural outdoor light has a CRI of 100.



## No Ultraviolet (UV) Radiation

Radiant energy in the range of about 100-380 nanometers (nm).



## No Infrared Radiation

Electromagnetic energy radiated in the wavelength of about 770 to 1.000.000 nanometers (nm).



## Low Carbon Dioxide Output (VCO<sub>2</sub>)

The amount of CO<sub>2</sub> exhaled from the body in to the atmosphere per unit time, expressed in milliliters (mL) or liters (L) per minute.



## Fully Rated Life

Life time LED-module L90B50 100.000h. 100.000 h the luminaires will on average produce 90% of the initial lumens. Replacement of some drivers is inevitable after 50.000h.



## Energy Savings

LED is a highly energy efficient lighting technology and has the potential to fundamentally change the future of lighting in the world.



## Recycling

Unlike low-energy lamps, LED contains no mercury and is therefore not treated as special waste.



## European Union Energy Label

The energy efficiency of the appliance is rated in terms of a set of energy efficiency classes from A to G on the label, A being the most energy efficient, G the least efficient.



## Ingress Protection

The first numerical digit describes the rating that is given for solid objects. The 6 here is the highest rating and means the LED is dust tight. The second numerical digit defines how well the LED can keep liquid out.



## Impact Resistance

The IK code is an international numeric classification for the degrees of protection provided by enclosures for electrical equipment against external mechanical impacts. The classification is based on the regulations IEC 50102 (IEC 70-3), that ranges from a minimum value IK00 (unprotected), up to the value IK10 (protected from equivalent impact to the force exerted by a weight of 2 kg dropped from a 1 meter level).



## Safety Classifications Class I

The luminaires in this class have basic electrical insulation and all of their potentially electrically conductive parts are connected to a protective conductor. The protective conductor terminal displays this marking.



## Safety Classifications Class II

Live parts are fitted with additional insulation. Connection to a protective conductor is not permitted.



## Safety Classifications Class III

Protection against electrical shock is based on use of safety extra low voltage (SELV).



## CE Certificate

Certifies product has met EU (European) consumer safety, health and or environmental requirements.



## RoHs Compliance

Restricts the use of certain dangerous substances commonly used in electrical and electronic equipment.



## Dimming

Device that regulates the intensity of the light source.



## DMX RDM

Remote Device Management is a protocol that sits on top of the normal DMX512 data standard. DMX512 is a unidirectional protocol which means that the data flows in one direction - from the control desk to the lights.



## RGB

Red, Blue and Green LEDs. RGB LED products combine these three colors to produce over 16 million hues of light.

The luminaires are designed and manufactured in accordance with below quality procedures and constructed in conformity to the European EN 60598 standards and CE-marked.

\*Quality Management System ISO 9001:2015 \*Customer Satisfaction Management System ISO 10002:2018 \*Environmental Management System ISO 14001:2015 \*Occupational Health & Safety Management System ISO 45001:2018 In compliance with regulations in force, BSI® LIGHTING reserves the right to make unannounced technical amendments to improve the features and performance of products. Illustrations are not binding. The Lumen (lm) listed in the catalogue are "typical" values of LED Modules and may be subject to change due to the continuous evolving LED technology.

The standard finishing of the products are specified in the product description. The products can also be finished in RAL colours on request subject to availability.

All changes, errors or involuntary omissions in this catalogue, will be published on the website [bsilighting.com](http://bsilighting.com)

Editorial supervision BSI® LIGHTING TECHNOLOGIES

Designed and Styled by Mithat Tekin ® [www.bbmt.com.tr](http://www.bbmt.com.tr)

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