

TERMS OF WARRANTY GENERAL PROVISIONS

As manufacturer of LED luminaires, Griven S.r.l. of Castel Goffredo, Italy MN (hereinafter referred to as The Manufacturer) assumes a warranty period on its LED lighting products as specified in section A for five (5) years for luminaires and three (3) years for exterior finish of luminaires. The period of this warranty commences on the date of purchase. The warranty is only valid if the date of purchase is confirmed by an official invoice issued at the time of purchase. If The Manufacturer does not have proof of date of purchase, then the purchaser (hereinafter referred to as The Customer) will be liable for the costs of any repair or replacement.

A. SCOPE OF VALIDITY

This warranty is valid only with reference to the LED lighting products manufactured by The Manufacturer, except for all the recessed and underwater LED lighting fixtures, and LED image projectors, on which a 2-year legal warranty is allowed. With respect to products sold to The Customer by The Manufacturer but not bearing The manufacturer's name or sub-brand name (including control systems, ballasts, transformers, batteries, cables, vents, gaskets, drivers, and accessories of any kind), The Manufacturer makes no warranty of any kind, express or implied, including, without limitation, any warranty of merchantability or fitness of particular purpose, but will make the supplier's 2-year legal warranty available to The Customer upon request and only to the extent permitted by law and relevant contracts. Any defect caused to the exterior finish of the luminaire by or through contact with chemicals, chlorine, salt water, herbicides, fertilizers, strong detergents, contact with the ground, water containing corrosive agents or stray electric current is not covered by this warranty.

The warranty described in the following document is granted by The Manufacturer for the architectural lighting LED luminaires manufactured by Griven S.r.l. in Castel Goffredo (MN – Italy). Any customer who has any claims arising from this warranty shall exclusively be the direct contractual partner of The Manufacturer.

This warranty refers to the purchase of products as of the effective date of this warranty specified below.

Sample LED luminaires which are not intended for sale but for demonstration purposes shall be excluded from the warranty.

Unless otherwise specifically agreed to in writing by The Manufacturer, this warranty shall not apply to products manufactured by The Manufacturer according to The Customer's designs or specifications, and no warranty is given as to such non-standard products.

This warranty shall not apply to lighting projects and installations, and electrical installations. Electrical projects and installations must be carried out by authorized and certified professional third parties.

The warranty period is not extended in the case that warranty services are provided in the context of this warranty or the statutory warranty; in particular, it is not extended in the case of repair or substitution. These cases do not restart the warranty period either.

GRIVEN S.r.l.

Via Bulgaria n°16 - 46042 Castel Goffredo (MN) Italy

Tel. +39 0376 779483 - Fax +39 0376 779682

P.iva Cod. Fiscale 01404480202 - VAT IT01404480202 Cap. Soc. 68.000 € I.v.

Registro imprese n.01404480202 - R.E.A Mantova n.156577 N.Mecc. MN 001841

sales@griven.com **www.griven.com**

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Storage of uninstalled lighting fixtures must be done at below 80% non-condensing humidity and within range of operating temperatures from The Manufacturer specification sheets. Failure to do so will void warranty.

All the consumables are excluded from this warranty (exterior enclosure, glass trims, seals, pre-installation hardware, screws, lenses, secondary optics, diffusers, and similar).

The Manufacturer will not be liable for any damage that may directly or indirectly derive to people, animals and things as a result of failure to comply with the instructions and applicable legislation for installation, use and maintenance of the product as well as for damage deriving from any interruptions in the operation of the products.

The warranty applies only if the products are powered using power supply devices, drivers or other accessories supplied by The Manufacturer as part of the product order;

The 2-year legal warranty applies on recessed fixtures only if these are installed in the corresponding housing boxes supplied by The Manufacturer.

B. SCOPE

1) In the relationship to The Customer, The Manufacturer guarantees that, for a period of five (5) years for luminaires and three (3) years for exterior finish of luminaires (in the following referred to as "warranty period") from the invoice date, all products are free from defects in functioning, material, and workmanship, which (a) either reduce the "LED power" or the "system performance" specified in the data sheet by at least [10%] or (b) otherwise substantially affect the functioning of the products in accordance with the following conditions and restrictions (in the following referred to as: "case of warranty"). Compliance with these performance values requires that the maximum ambient temperature at night (ta max) does not exceed the maximum nominal value; however, for the nominal current of the operator a tolerance of 5% is taken into consideration. The data sheets are published on the website of The Manufacturer or, upon request, they will be sent to The Customer.

2) This warranty is granted for products which are switched on and off every day, the annual average consumption of which is 4,000 hours, and which are used in accordance with the relevant technical specifications and installation instructions. Lighting fixtures must not be turned on until 30 minutes after sunset and must be switched off 30 minutes after sunrise.

3) Any official photometric measuring shall exclusively be carried out by The Manufacturer or, insofar as The Customer objects to the result of The Manufacturer, by a mutually agreed accredited inspection body with a protocol specified by The Manufacturer.

C. WARRANTY SERVICE

If a product has a problem that is a case of warranty according to these terms of warranty, The Manufacturer shall repair or replace the returned product at its own discretion within the framework of the warranty. If the product is no longer manufactured or not available for any other reason, The Manufacturer may offer an alternative product that is comparable to the objected product.

The Manufacturer, due to product ageing processes, does not warrant that replaced or repaired products fully conform to and fit in the existing installations as regards surface appearance and/or photometric features (such as luminous colour, luminous flux etc.). If The Manufacturer decides to

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refund the purchase price and confirms this in writing, The Customer is obliged to return the defective product and The Manufacturer will refund the purchase price to The Customer.

All replacement products or replacement parts may contain either new or recycled materials, which are equivalent to new materials in terms of performance and reliability. Even if such parts or products are not new, their condition, owing to overhaul or repair, is to be considered as new in terms of performance and reliability.

No rights are given under this warranty to any person acquiring a product second hand. Further claims within the framework of this warranty, in particular claims for damages, shall be excluded.

D. EXCEPTIONS AND RESTRICTIONS

1) This warranty is exclusively limited to the warranty service of The Manufacturer that is finally regulated in section C for the products manufactured by The Manufacturer. Additional costs, e.g. costs for the dispatch of defective parts or products, the disassembly, reassembly, transport time, lifting platforms and scaffoldings, or other costs due to a breakdown of the installation and/or costs in connection with any consequential, special or incidental damage or mere financial damage, such as e.g. lost earnings/profits, property damage, strike, unused assets, production losses, costs for road closures, traffic signs, detours, etc., shall not be covered by this warranty. Furthermore, The Manufacturer shall not be liable due to this warranty for the compensation of persons for such losses or damage to persons or property. Consequently, The Manufacturer is not liable for claims for damages due to failure of performance or for any consequential damage.

2) The Customer must demonstrate that the errors, defects or any damage to the product or parts thereof are not a direct or indirect result of negligence, misuse, abuse, or misappropriation by The Customer and that in particular the following conditions and requirements have been fulfilled without restriction:

- a. The Customer transported the product properly and in the original packaging;
- b. The Customer stored, installed, used, and maintained the product in accordance with the specifications, guidelines, and instructions of The Manufacturer and with the IEC standards (International Electro Technical Commission), if applicable;
- c. The product was used for one of the purposes intended by The Manufacturer;
- d. The product was wired, installed, and operated within the framework of the electrical values, the operating range, and the environmental conditions in accordance with the specifications of The Manufacturer, the operating instructions, the IEC standards, in accordance with the European Directives, or other documents attached to the products;
- e. The product was not exposed to any mechanical load that is not compatible with the intended purpose;
- f. The product was not exposed to ambient temperatures exceeding the value of T_a in accordance with specifications provided by The Manufacturer. The nominal ambient temperature, as regulated in the data sheet of the product, must not be exceeded when the product is used.

The applicable limits for operating/ ambient temperatures and supply voltage must be observed at all times;

The applicable limits for operating/ ambient temperatures for products installed outdoor must anyway be observed:

- max. night temperature must not exceed 50°C (unless differently specified in the related technical sheet);
- min. night temperature must not go under -20°C (unless differently specified in the related technical sheet);
- max. day temperature must not exceed 60°C when products are off.

g. The product was not exposed to excessively high or low humidity, high altitude, water ingression induced by open-wire installation, fluctuation of voltage or current, moisture, lightning, windstorm, abnormal voltage, harmonic distortion, dust, dirt, corrosion or other external causes;

h. The product and/or parts thereof were not repaired, replaced, adjusted, or changed by The Customer or any other person without the prior written consent of The Manufacturer;

i. The parts of the product which are sealed/not accessible, e.g. LED units, were not opened by The Customer without the prior written consent of The Manufacturer;

j. The product was not handled improperly and/or brought into contact with chemicals;

l. The product was continuously operated at the same place where the product was initially installed;

m. The product was cleaned every 6 months by expert and authorized personnel.

3) The terms of warranty of The Manufacturer shall not apply for:

a. Any damage or non-compliance due to force majeure (fire, extreme cold or warm weather, floods, tornados, hurricanes, frost, ice, wars or other force majeure events) or the violation of applicable standards or regulations, including but not limited to those contained in the latest safety, industry, and/or electrical standards and in the regulations that apply to The Customer;

b. Any non-compliance, construction errors, or malfunctions if The Manufacturer completely adhered to the written descriptions, drawings, or specifications of The Customer and it is later determined that they were unsuitable, incomplete, or incorrect;

c. The Manufacturer shall not be responsible for the power supply conditions, including voltage peaks, over-/undervoltage and ripple current control systems which exceed the indicated restrictions of the product and the respective supplier or which do not comply with the customary industry standards for acceptable input power;

d. Force of nature, such as lightning damage or corrosion if the corrosion results from external causes or factors (e.g. chemicals and harsh abrasives, cleaning agents, harsh cleaners or mechanical elements, such as rollers, sanders, high pressure water cleaners);

e. Breakdowns of less than ten percent (10%) of all LEDs in a product;

f. Additional control devices, e.g. telemanagement;

g. Parts, elements and/or accessories which were added to the product after delivery;

h. Normal wear of the product and its components;

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i. Failure of parts subject to ageing (such as discolouration of substances, change of colours, discolouration of coatings and embrittlement of plastic products), due to ageing;

j. Usage of power tools to tighten or assemble products and their parts;

l. Defects due to intentional (e.g. vandalism) or unintentional damaging (e.g. caused by animals);

m. Failure of breakable parts such as glass, bulbs and illuminants, due to breakage or mechanical stress;

n. If the product is assembled or installed in a corrosive environment, in particular by the sea, or at another chemically contaminated place, The Customer shall inform The Manufacturer about this before conclusion of the contract. The Manufacturer will then give instructions concerning the necessary measures to be followed by The Customer (e.g. special treatment, varnishing, etc.) which will have to be approved in writing. This shall also apply for the regular performance of the provided maintenance activities for the duration of the operating period;

o. Access of malwares, software bugs or viruses;

p. Products with either missing or illegible labels.

E. EXCLUSIVITY

No representative, dealer, distributor or seller shall be entitled to change, restrict, or extend these terms of warranty on behalf of The Manufacturer.

F. CLAIMS FOR WARRANTY SERVICES

1) The warranty requires the settlement of the bill within the maturity date through The Customer. The Customer shall immediately inform The Manufacturer about any possible claim under the warranty and send the form *Mod 04-10-0 Technical Assistance Request – Warranty* filled-out with the description of the possible case of warranty to the address mentioned in number 2 at the latest within thirty (30) days after determination of the possible case of warranty and in any case within the warranty period. In this written assertion of the possible case of warranty, The Customer shall provide the following information: Invoice number - Installation characteristics (place, street, number of products concerned, relevant installation details) - Circumstances and environmental conditions in which the products were used - Name, model and number of allegedly defective products - Copy of invoice and delivery note - Date of installation - Detailed description of the problem. Additionally, The Customer must be indicated as receiver in the original invoice or the delivery note.

2) The document mentioned in section F, number 1 shall be addressed to: Griven S.r.l., Via Bulgaria 16, 46040 Castel Goffredo (MN) ITALY and sent via e-Mail to sales@griven.com.

3) After submission of the document mentioned in number 2, The Manufacturer will decide the best procedure to verify if and how the asserted claim can be allocated within the warranty terms.

4) In the case that The Manufacturer should determine that the product or the products of The Customer which were sent to The Manufacturer for inspection are not covered by the warranty, The Manufacturer shall be entitled to charge The Customer for the costs arising from the examination of this product or these products regarding a claim under warranty.

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- 5) Possible defective products will become property of The Manufacturer as soon as they are replaced.
- 6) For parts or products which were replaced or repaired during the warranty period, a warranty for the remainder of the original warranty period of these parts or products shall apply, if any.
- 7) Warranty claims asserted against The Manufacturer within the warranty period or otherwise in due time become time-barred after expiry of six months from the day when the claims were asserted by email via the *Mod 04-10-0 Technical Assistance Request – Warranty form*;
- 8) All measures shall be taken with the exclusion of goodwill and warranty claims.

G. FINAL PROVISIONS

- 1) Italian law shall apply exclusively to the legal relationship in connection with the warranty excluding the UN Convention on Contracts for the International Sale of Goods. Exclusive jurisdiction shall be the Court of Mantova.
- 2) The invalidity of individual provisions of these warranty commitments shall not affect the validity of the remaining provisions. Effective date: February 2022

GRIVEN 

SUSTAINABILITY REPORT 2025

GRIVEN 



Letter to the Stakeholders

As manufacturers, we recognize the profound responsibility entrusted to us in shaping an inclusive, accessible, and sustainable present and future.

Over the years, we have steadfastly invested in a comprehensive programme aimed at enhancing the environmental sustainability of all our operations.

Our Sustainability Report 2025 now stands as a testament to our unwavering dedication to environmentally responsible practices within the lighting industry.

Our commitment goes beyond mere compliance with regulatory standards, exemplifying our relentless pursuit of setting new benchmarks and spearheading transformative change.

With this report, we want to share our values, the model of responsibility we follow, and the activities and results we have achieved so far under the various topics that flow into Sustainability.

This acknowledgment fuels our dedication to continuously operating with steady principles of environmental advocacy and social responsibility, striving to make our best contribution to a better world.

Luca M. Meinardi

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COMPANY

Our Passion for Lighting

Founded in 1990 as a family business, GRIVEN Srl is now one of the most dynamic manufacturers in the current international outdoor architectural and landscape lighting market panorama. We design and engineer all our standard, custom, and bespoke solutions specific for any lighting design need in Italy.

Our LED lighting fixtures are based on a solid made in Italy tradition, strong sustainability values, constant innovation capability, continuous research and development, high-quality standards, and, last but not least, an undivided passion for light.

Our ground-breaking collection of LED surface mount, modular, linear, recessed, underwater, and visual display projectors can enhance the most demanding architectural installations, spread all over the world, with both coloured and white light dynamic effects.



Company Vision

To be the worldwide benchmark in architectural and landscape lighting, driven by excellence in design, quality, and sustainability, as the highest expression of Made in Italy.

Company Mission

To empower lighting professionals worldwide by transforming ideas into innovative and sustainable luminaires that bring their visions to life across all types of outdoor urban, residential, and landscape projects.



Company history timeline



The Logo

Stylish and neat, our logo delivers our company's essence through a circle and a square intersecting to create a fresh, iconic image.

Merging into our company logo, these graphic signs emblematically connect two opposite worlds, generating a unique brand identity that blends boundless creativity and technical know-how into a successful formula embodied by our collections.

The **SQUARE** symbolizes our rational self and epitomises our technical side, engineering capacity, and commitment to quality.

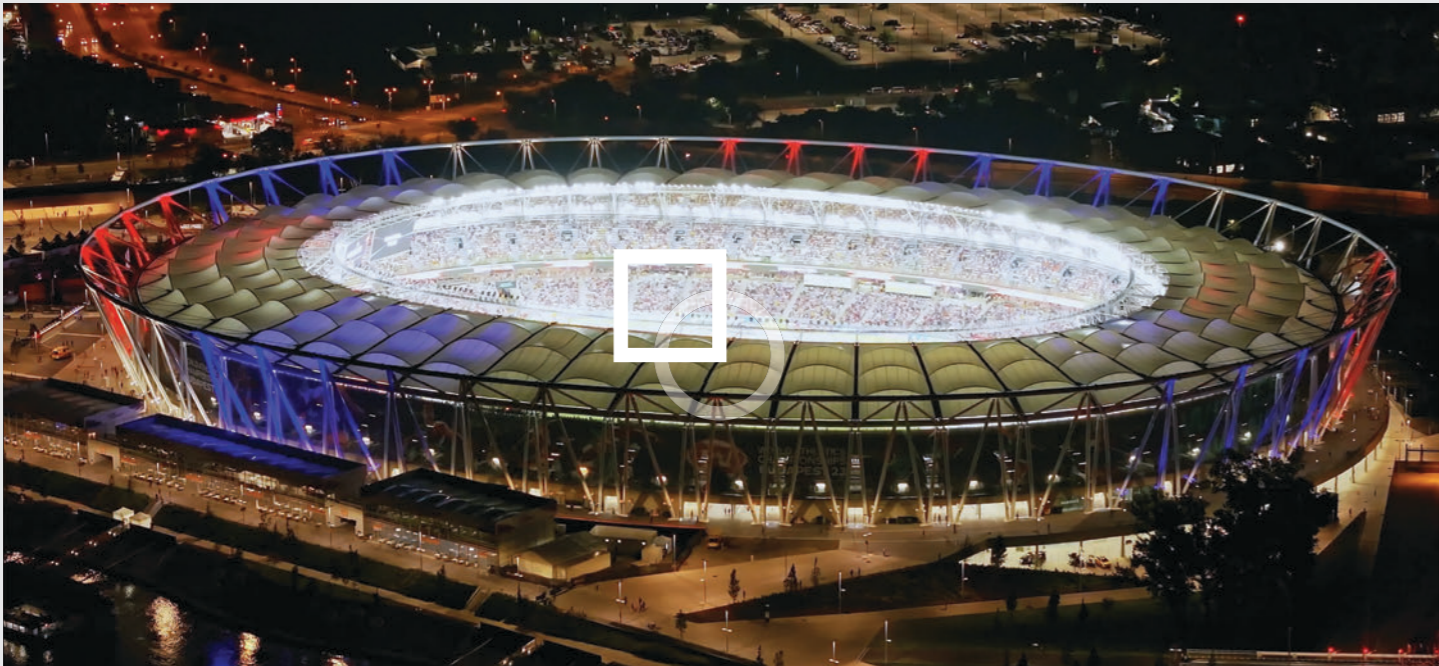
The **CIRCLE** embodies our creativity, inventiveness, vision, and intuition.



Collections

Leveraging the duality embedded in our company logo, our product collection is divided into two distinct categories to more effectively showcase our positioning within the architectural lighting industry.

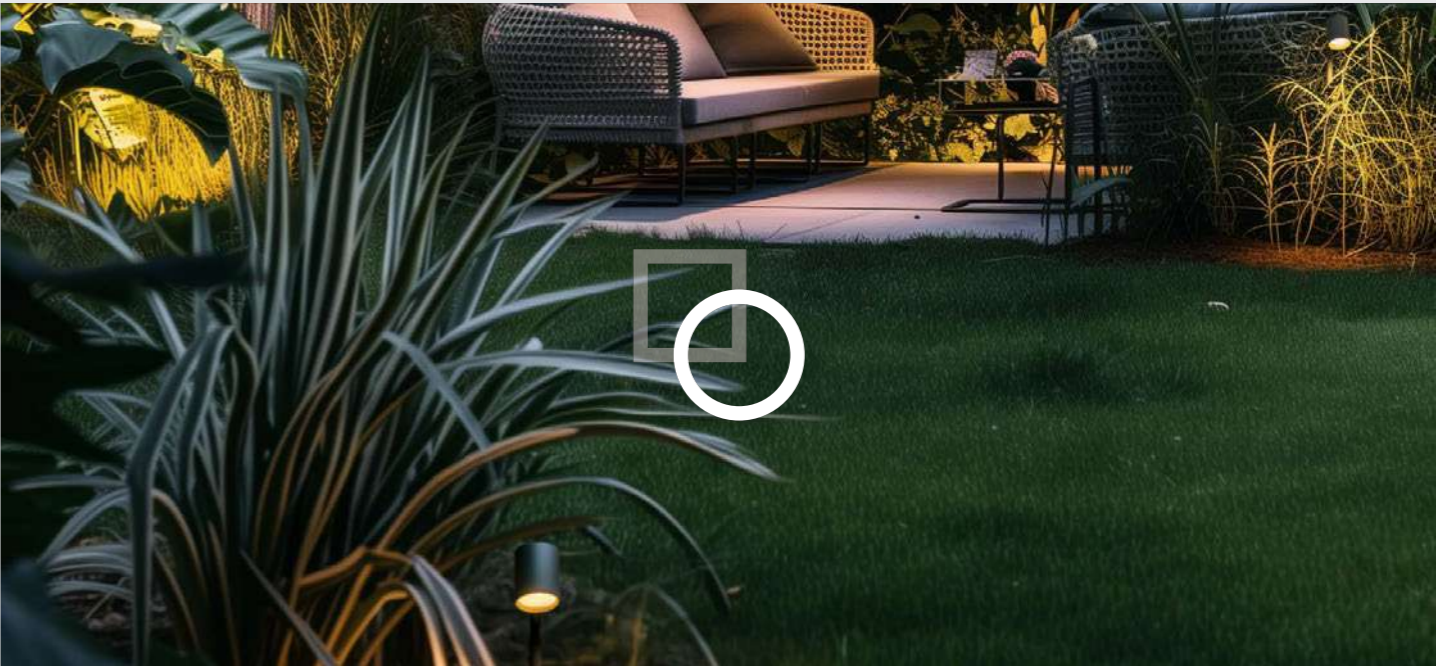
GRIVEN



Lighting solutions for large scale projects and urban infrastructures

Our comprehensive product portfolio of architectural lighting solutions for large-scale projects and urban infrastructures allows us to obtain the widest range of light effects at any reach. Our powerful and sustainable LED lighting fixtures are capable of getting to remarkable distances with amazing precision still ensuring even light distribution and optimal performance. No matter how high or challenging a building, a tower or a bridge may be, we will always be able to light up its top in a flawless way.

GRIVEN ESSENTIALS



Lighting solutions for small to medium-scale urban, residential, and landscape projects

GRIVEN ESSENTIALS is a collection of functional and decorative lighting solutions, tailored to meet the everyday needs of lighting designers and consultants working on small to medium-scale urban, residential, and landscape projects. With a focus on delivering high emotional impact, this comprehensive range of compact and versatile luminaires stands out for its stunning performance and user-friendly design. Specifically engineered for both outdoor and indoor use where high IP protection levels are required, these luminaires are capable of enhancing any small to medium-sized setting in both vibrant colors and soft white hues.

Our Company In Numbers

1 Headquarters + 6 International Representative Offices In Milan, London, New York, Dubai, Madrid, and Mexico City

1+6

100

Distributors All Over The World

47

Employees

56873

Produced and sold custom luminaires

44

Direct Sales In 44 Countries

822

Unique Product Releases

100%

Made In Italy Product Manufacturing

63580

Produced And Sold Luminaires

Core Values



A CONSISTENT ATTITUDE TOWARDS INNOVATION

Ever since our foundation, we have always been developing innovative solutions that could stand out for their distinctiveness and efficiency in an increasingly competitive market.

A PROUD MADE IN ITALY TRADITION

Faithful to our core values, we have always been designing, engineering, manufacturing, and assembling all our lighting fixtures in Italy. We are proud of our products, which are the result of high build and design standards of the truest MADE IN ITALY tradition.

A STEADY FOCUS ON QUALITY

Quality is a core value in all our activities and such commitment pervades all of our functions and processes through a coordinated synergy among the company departments.

AN UNLIMITED CUSTOMISATION CAPABILITY

We are capable of customising our standard designs down to the smallest detail as we can rely on extreme flexibility in the personalisation capability. Each idea is embraced from its inception to the development phase and the final realisation to provide the extra distinctiveness that makes a difference.

AN ETHICAL SOCIAL RESPONSIBILITY

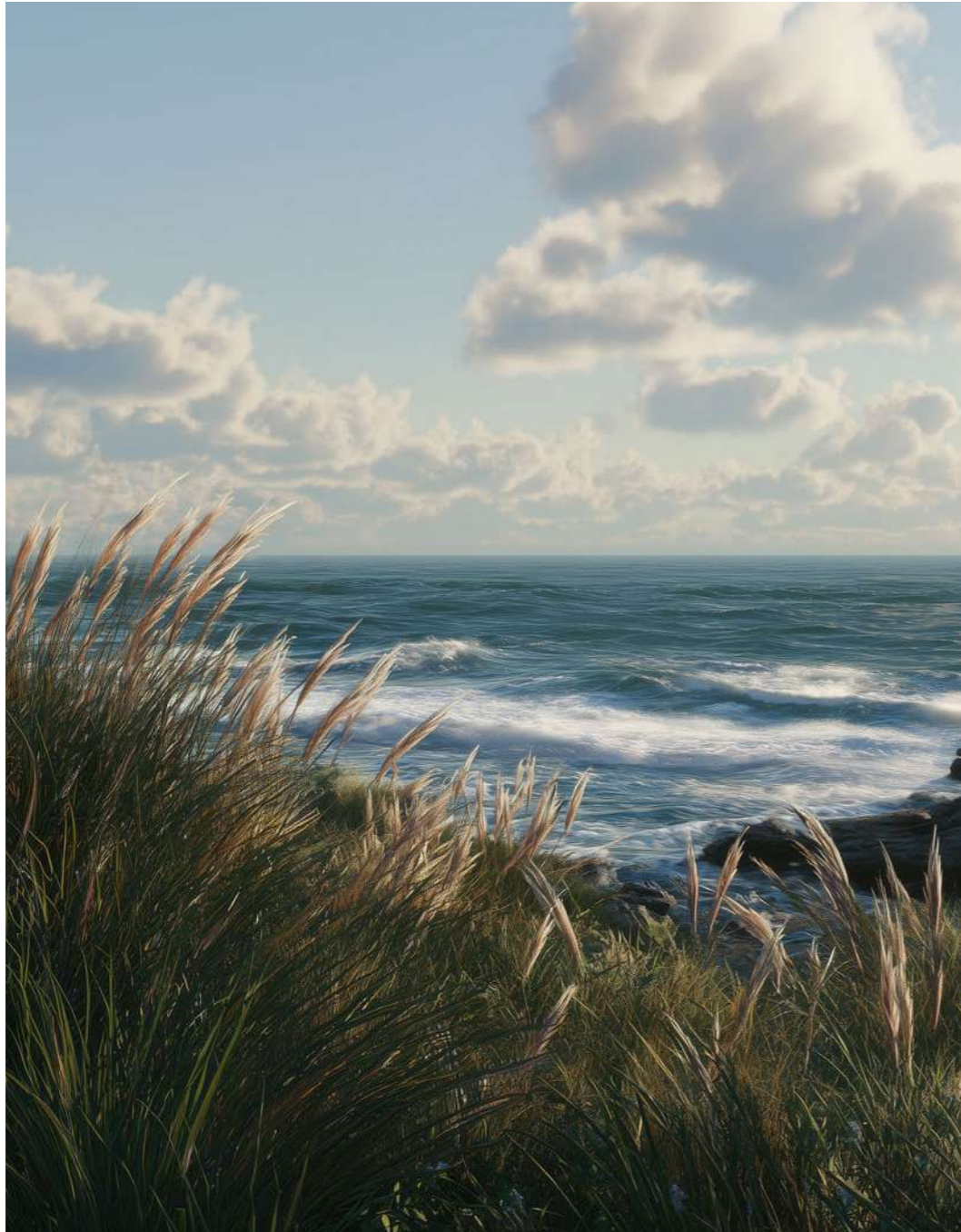
We are dedicated to supporting the communities where we operate and ensuring the well-being of our employees. Our commitment to diversity, equity, and inclusion is reflected in our workforce and our partnerships. We believe that a sustainable future must be inclusive and equitable.

A TIRELESS COMMITMENT TO SUSTAINABILITY

We consider our respect for the environment an integral part of our activities. We care about our future and firmly want to improve the general environmental awareness through a coherent behaviour, by promoting greener engineering and production dynamics.



GREEN PHILOSOPHY



For some years now, we have been investing in a prevention programme aimed at improving the environmental sustainability of all our activities. We have been acting on basic criteria - such as: facilitation of recycling activities, use of recycled materials, saving of raw materials, optimization of logistics, proximity, simplification of the packaging system, optimization of production processes, and reduction of energy waste among the others – in order to reduce our impact as much as possible.

Through our **Sustainability Report 2025**, we showcase our dedication to sustainable practices in the lighting industry. This commitment is not just about meeting regulatory requirements; it is about setting new standards and leading the way in creating a more sustainable lighting industry. We aim to be the change we want to see in the world, and our report reflects the tangible actions we are taking to achieve this.



COMMITMENT



As a company deeply intertwined with the essence of lighting, our commitment to “Illuminating the world we live in” signifies our dedication to cultivating sustainable progress, not just for ourselves but for the people and communities we serve. We operate our business guided by unwavering principles of environmental commitment, social responsibility, and economic integrity.

As manufacturers, we acknowledge the profound responsibility we carry in shaping an inclusive and accessible present and future. This role grants us the privilege of actively influencing the landscape we create. In this transformative process, we have focused our attention and actions on three main areas:

- **LIGHT QUALITY IMPROVEMENT**
- **INTERNATIONAL CERTIFICATIONS**
- **ENVIRONMENTAL FRIENDLY ATTITUDES**

LIGHT QUALITY IMPROVEMENT

SMART ELECTRONIC THERMAL MANAGEMENT

Our LED lighting fixtures are equipped with an active junction temperature internal monitoring which enables them to withstand the harshest exterior weather conditions. An on-board smart sensor guarantees **the most efficient LED thermal management** according to the external temperature for extreme safety, reliable performance, high lumen maintenance, and electronic components longevity. Our fixtures are certified for seamless operation from -40°C (-40°F) up to 50°C (122°F).

FLICKER-FREE LED LIGHTING

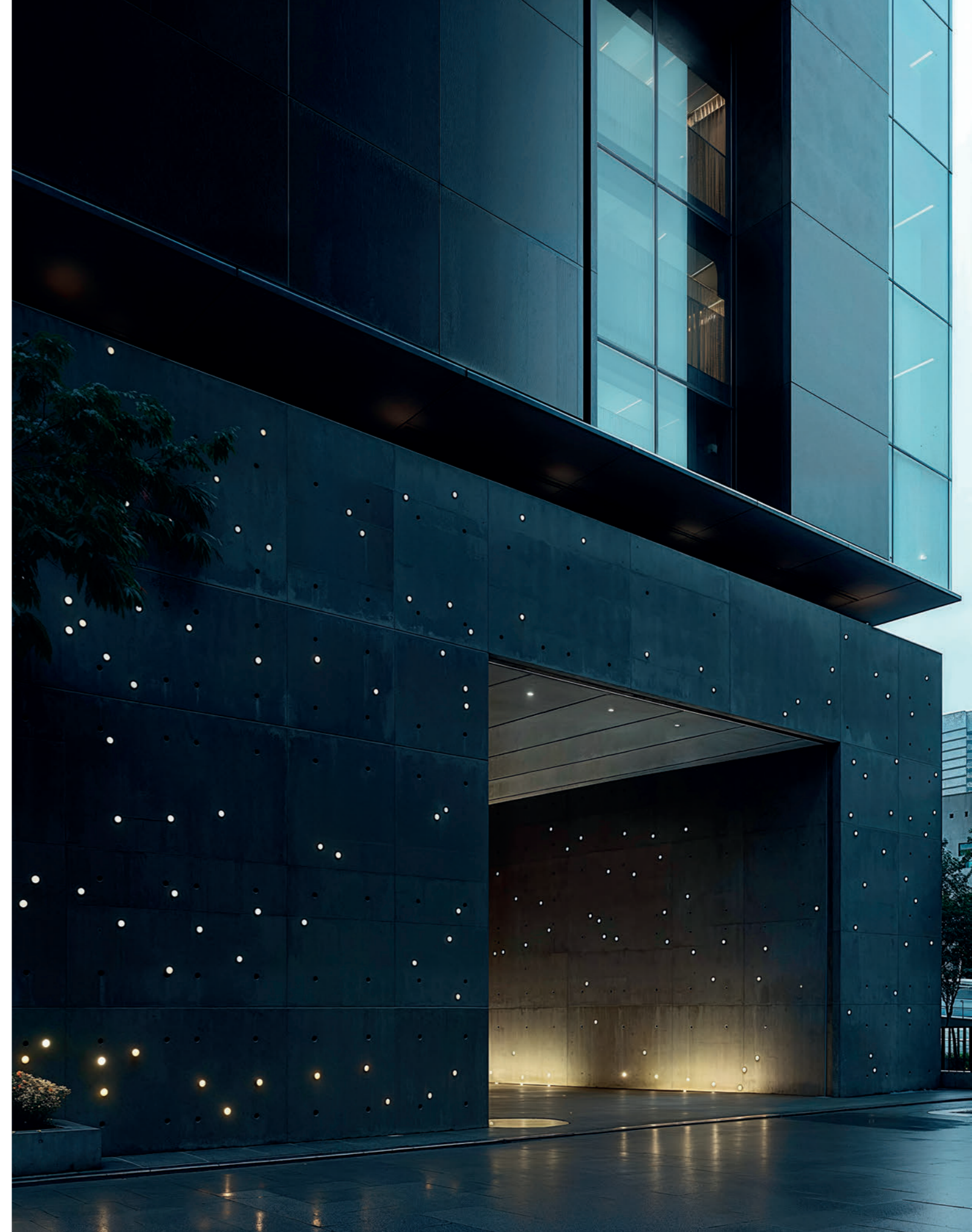
Flicker-free LED lighting has revolutionized the way we illuminate our surroundings, offering numerous benefits that enhance our visual experience while positively impacting our well-being. Unlike traditional lighting sources, flicker-free LEDs emit a steady stream of light without rapid fluctuations, ensuring a stable and constant illumination. That's why we put the highest attention in the purchase of **top-quality LEDs and components**.

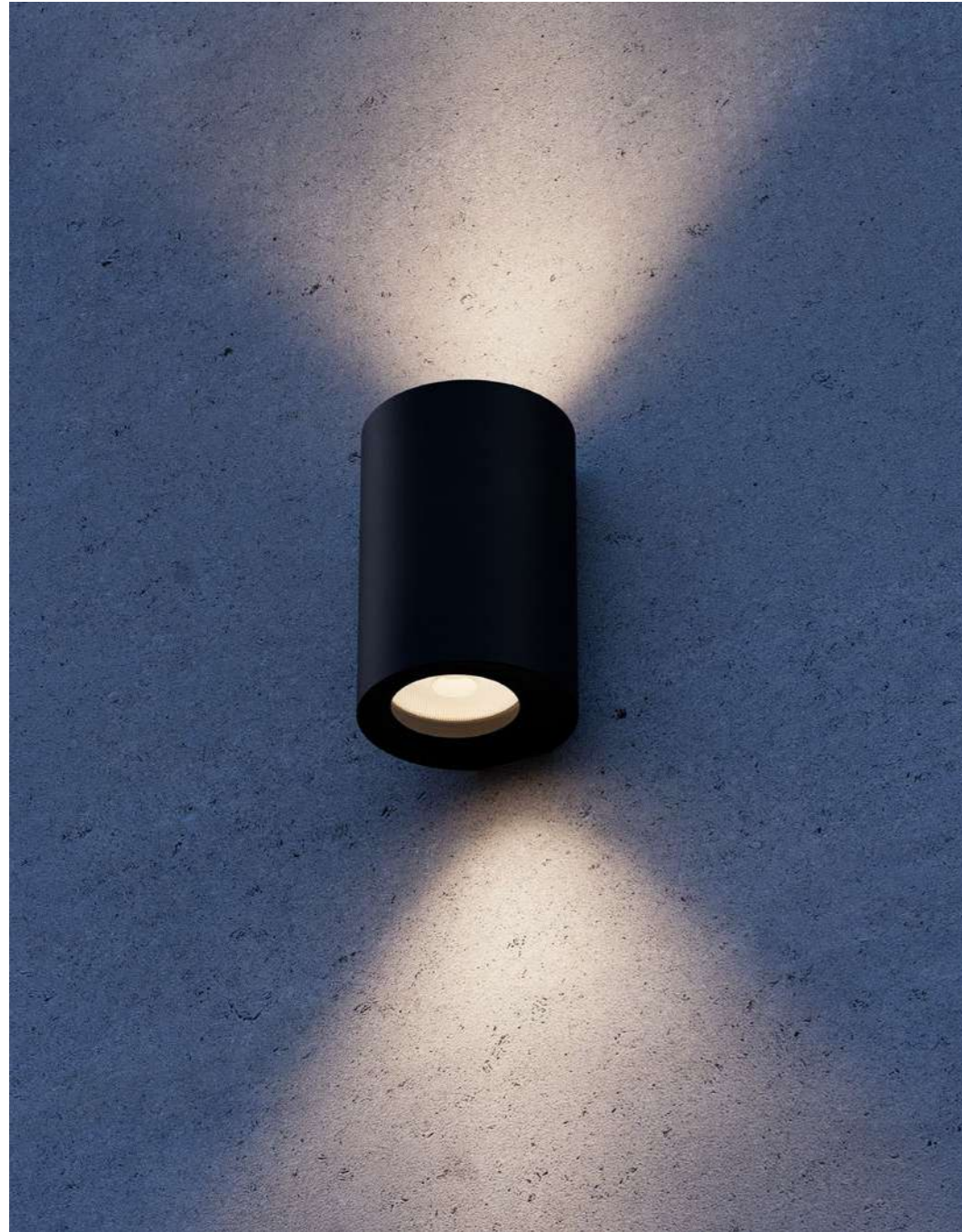
ICE-PROOF POLAR EDITION

Available for a wide selection of our lighting fixtures, the Polar Edition features an integrated de-icing system with electrically heated glass, which assures **complete functionality even in the utmost severe cold weather conditions**. A front glass de-icing system with electronic voltage supply management allows for instant light output and access to full power flux. Comfortable operations are certified up to -40°C (-40°F) even in case of heavy snow or ice formation.

LOW GLARE RATING

Our outdoor LED lighting fixtures boast an **exceptionally low glare rating**, setting a new standard for comfortable and visually pleasing illumination in exterior settings. Designed with precision and innovation, these fixtures prioritize reducing glare to ensure optimal visibility without causing discomfort or visual strain by employing **advanced optics and carefully engineered light diffusion techniques or additional accessories**.





LIGHT QUALITY IMPROVEMENT

CERTIFIED QUALITY BINNING SELECTION

As a result of the production process, LEDs show significant variations in colour and luminous flux. In order to keep these differences under tight control, LEDs are selected and delivered to the market in subclasses, known as bins and micro-bins.

Exceeding customary chromaticity industry standards, we always purchase **high performing LEDs from strictly selected micro-bins**. Through our advanced selection process, both wavelength and luminous flux stay unchanged, ensuring **reliable colour consistency and uniformity** even in situations involving multi-phased, multi-product, or multi-site installations, as well as during project expansions or fixture replacements.

PHOTOBIOLOGICAL SAFETY

The importance of photobiological safety lies in safeguarding individuals against potential harm caused by light sources. Certain wavelengths and intensities of light have the potential to cause adverse effects, such as retinal damage, skin irritation, or disruption to circadian rhythms.

The relationship between tunable white light and circadian rhythms is significant. Circadian rhythms are natural, internal processes that regulate the sleep-wake cycle, hormone release, body temperature, and other bodily functions over a roughly 24-hour cycle. Light is a primary external factor that influences the body's internal clock, affecting circadian rhythms. For this reason, almost all of our **lighting fixtures are available in tunable white configuration**, which is designed to simulate these natural lighting changes, adjusting the color temperature to mimic natural patterns to support the body's natural circadian rhythms.

Moreover, our fixtures undergo rigorous testing and compliance with **photobiological safety standards**, such as the IEC 62471 standard, to guarantee that they emit light within safe exposure limits. This meticulous approach ensures that our lighting solutions provide not only efficient and effective illumination but also a safe environment for individuals exposed to the light emitted.

LIGHT QUALITY IMPROVEMENT

CONTINUOUS PRODUCT DEVELOPMENT

Born from the collaboration between Dark Source and Griven's Product Development department, DS is an outdoor luminaire which blends environmental responsibility with high-performance design. It emerged from a lighting improvement project in North Wales and was made possible through the support of Parc Cenedlaethol Eryri National Park.

DS was conceived to address a challenge shared by dark sky advocates worldwide: the lack of affordable, sustainable, and durable outdoor lighting alternative which is aligned with dark sky principles and industrial quality standards.

Most domestic exterior lights sourced from online or local retailers often fail to meet the basic performance requirements, leading to unnecessary material, electrical, and financial waste.

By marrying sustainability with technical precision, DS provides a responsible alternative which enables outdoor illumination without compromising the night sky.



INTERNATIONAL CERTIFICATIONS



CERTIFICATION ISO 14001

ISO 14001 is the international standard that specifies requirements for an **effective environmental management system (EMS)**. It is a must for any eco-friendly organization that wishes to set up, improve, or maintain an environmental management system.

In November 2024, through the collective efforts of all departments, we commendably secured the renewal of our ISO certifications throughout 2025. This achievement solidifies our position as a pioneering and promising company, setting a high standard for the future.

0% DANGEROUS EMISSIONS

0% DANGEROUS WATER LEAKS

100% MOON SERIES IN CLASS C (4000K) or CLASS D (3000K)



INTERNATIONAL CERTIFICATIONS



ECOVADIS SILVER CARD

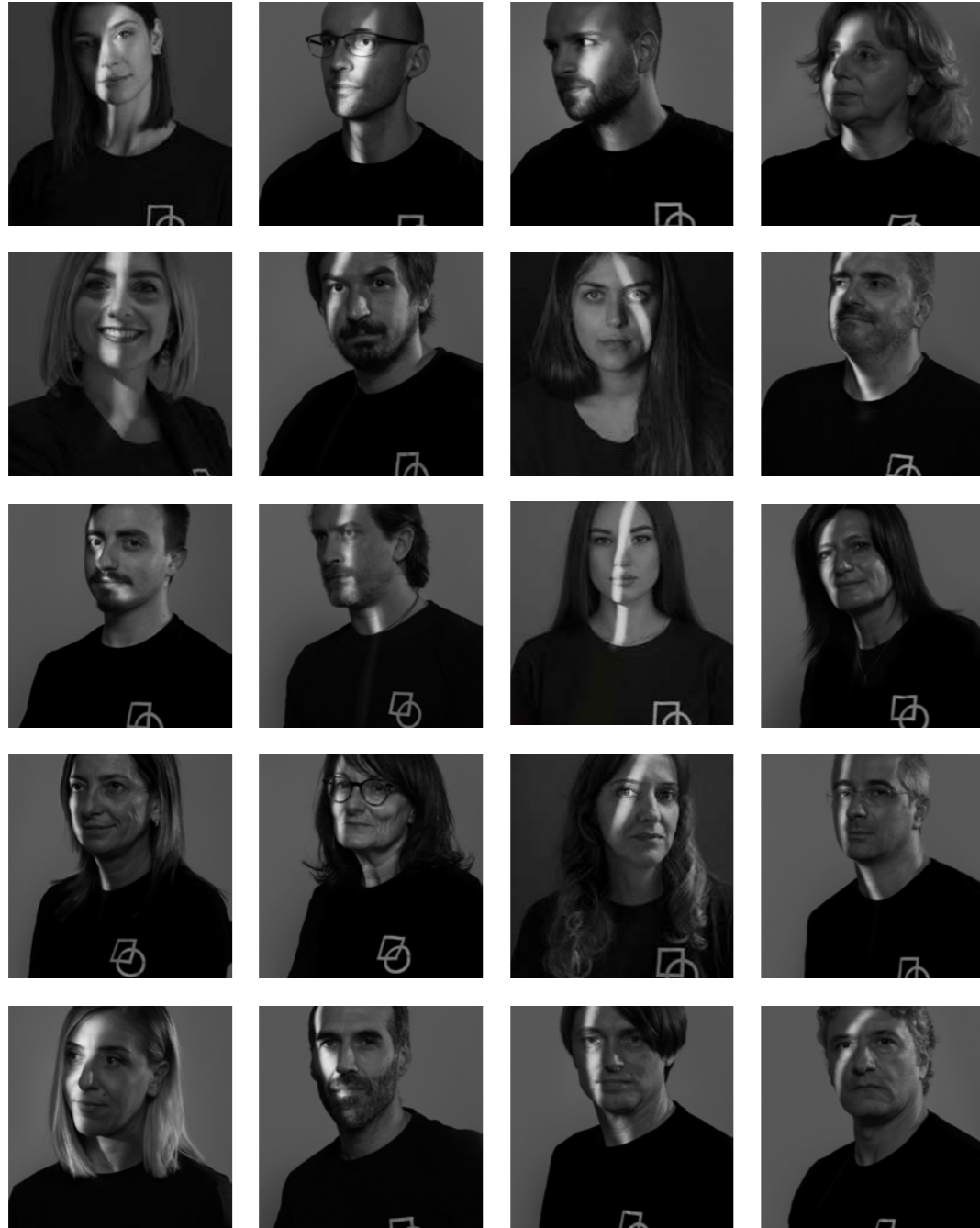
Ecovadis is the first and largest collaborative platform in the world for trading partners to share sustainability performance information. It rates a company performance by assessing its **policies, actions, and results** as well as inputs from third-party professionals and external stakeholders. Their methodology covers 7 management indicators and 21 sustainability criteria in four areas: Environment, Labour & Human Rights, Ethics, and Sustainable procurement.

In 2024, EcoVadis evaluated our business model and operational procedures for the second time to assess our overall performance, awarding us a Silver Scorecard and placing our company in the top 15% of all assessed organizations.

We are proud to announce that this excellent achievement has been confirmed by the 2025 assessment, which has once again recognized the strength and consistency of our commitments.

Our target for 2026 is to further improve our global performance through consistent and focused efforts.

POLICIES Strengths	ACTIONS Strengths	RESULT Strengths
Environmental policy on product use	Specialised treatment and safe disposal of hazardous substances	Reporting on total gross greenhouse gas emissions (Scope 3) downstream
Environmental policy on materials, chemicals and waste	Measures in place for environmental emergencies	Reporting on total water consumption
Environmental policy on water	Mapping of waste streams	Reports on total weight of non-hazardous waste
Environmental policy on energy consumption and greenhouse gas emissions	Internal waste sorting and disposal according to waste streams	Reporting on total weight of hazardous waste
	Actions or training to make employees aware of waste reduction and sorting	Reports on total gross GHG emissions (Scope 3)
	Employee training on energy conservation/climate action	Reports on the quantity of EEE placed on the market
	Purchase and/or generation of renewable energy	Report Scope 2 greenhouse gas emissions
	Making technical information available to refurbishment facilities to facilitate the treatment of WEEE	Report Scope 1 greenhouse gas emissions
	All EEE products are appropriately marked with the symbol of the crossed-out wheeled bin and a producer identification mark/producer registration details	Reporting on total energy consumption
	The company has joined a producer compliance scheme or has an approved waste management plan	Standard reporting on environmental issues
	Declares that all relevant products meet the requirements of RoHS Directive 2 (not verified)	
	Green IT measures (e.g. efficiency of data centres or office hardware, virtualisation, data lifecycle management, etc.)	
	Employee training on safe handling and management of hazardous substances	
	Actions for labelling, storage, handling and transport of hazardous substances	



INTERNATIONAL CERTIFICATIONS

CERTIFICATION ISO 45001

ISO 45001:2018 specifies requirements for an **occupational health and safety (OH&S)** management system, and gives guidance for its use, to enable organizations to provide safe and healthy workplaces by preventing work-related injury and ill health, as well as by proactively improving its OH&S performance. In November 2024 we successfully extended the ISO 45001 certification procedures till end 2025.

47 EMPLOYEES

**24 NEW EMPLOYEES
HIRED IN THE LAST 5
YEARS**

**36% of EMPLOYEES
WITH MORE THAN 10
YEARS of service**

**47% of UNDER 40
EMPLOYEES**

**50% FEMALE OFFICE
EMPLOYEES**



intertek

**100% OPEN-ENDED
CONTRACTS**

INTERNATIONAL CERTIFICATIONS

CERTIFICATION UNI PdR 125/2022
Gender equality

This important milestone confirms our ongoing commitment to gender parity, inclusion, and equal opportunities within the workplace. By obtaining this certification, Griven demonstrates that our values are not only words, but actions—integrated into our daily work, policies, and vision for the future. This achievement is not just a recognition—it’s a promise: to keep growing responsibly, creating an environment where talent, passion, and innovation can shine equally for all.



ENVIRONMENTAL FRIENDLY ATTITUDES

ENERGY SAVING PRACTICE

Since 2009 we have been producing a significant share of our energy need through the installation of a solar panel system. Due to its optimal placement, orientation, and favourable weather conditions, our photovoltaic equipment efficiently converts a high percentage of our annual energy requirement into actual electricity. Over the last five years, we have consistently recorded increasingly strong performances:

500 sqm SOLAR PANEL PLANT

57% SELF-PRODUCED ENERGY IN 2025

28% SOLD ENERGY IN 2025

	Self-produced energy	Purchased energy	Sold energy
2019	43%	57%	47%*
2020 (*)	35%	65%	30%*
2021	44%	56%	25%*
2022	49%	51%	28%*
2023	54%	46%	31%*
2024	48%	47%	26%*
2025**	57%	43%	28%*

*Of the produced solar energy

(*) In 2020 we registered a reduced energy production owing to replacement and maintenance operations on the solar panels installed in 2009

** Data as of October 31, 2025



ENVIRONMENTAL FRIENDLY ATTITUDES

RENEWABLE ENERGY SOURCES

100% of the energy we purchase for our headquarters from our provider, MA.BI. Luce&Gas, and for our offices in Milan from A2A Energia, comes from renewable sources.

Renewables are those forms of energy coming from sources that can regenerate (such as wind or water energy), or that will not be exhausted within a scale of human times (such as solar power or geothermal energy). Most important thing, their use does not affect natural resources for future generations.

100% RENEWABLE ENERGY





ENVIRONMENTAL FRIENDLY ATTITUDES

PACKAGING (R)EVOLUTION

Sometimes little things are little steps towards a great goal. Changing the everyday habits is always difficult but it means a lot for the creation of a better world. We decided to take some little steps within our everyday working habits that are a contribution to the improvement of a global sustainability:

100% of our packaging comes from over 90% recycled materials;

We have abandoned the use of foam in our packaging in 2021

Use of recycled biodegradable wraps for packing;

Use of 100% recycled cardboard boxes

Use of paper tape for packaging;

Paper glasses for coffee and water;

Reusable water bottles

Reusable paper boxes

Usage of wooden boxes for ware storage and transportation

Replacement of printed product manuals with digital versions accessible via QR codes

ENVIRONMENTAL FRIENDLY ATTITUDES

REDUCTION OF DANGEROUS EMISSIONS or WASTE

Air, water and soil pollutants harm human health and the environment. Our careful procedures allow no dangerous leaks and a very low percentage of air polluting emissions. Our office and warehouse areas already have zero CO2 emissions, and we have implemented measures to achieve zero emissions in our production department since January 2022. Additionally, we have implemented stringent procedures to ensure 100% recycling of waste materials.

Here below are our scores 2024:

0% DANGEROUS EMISSIONS

0% DANGEROUS WATER LEAKS

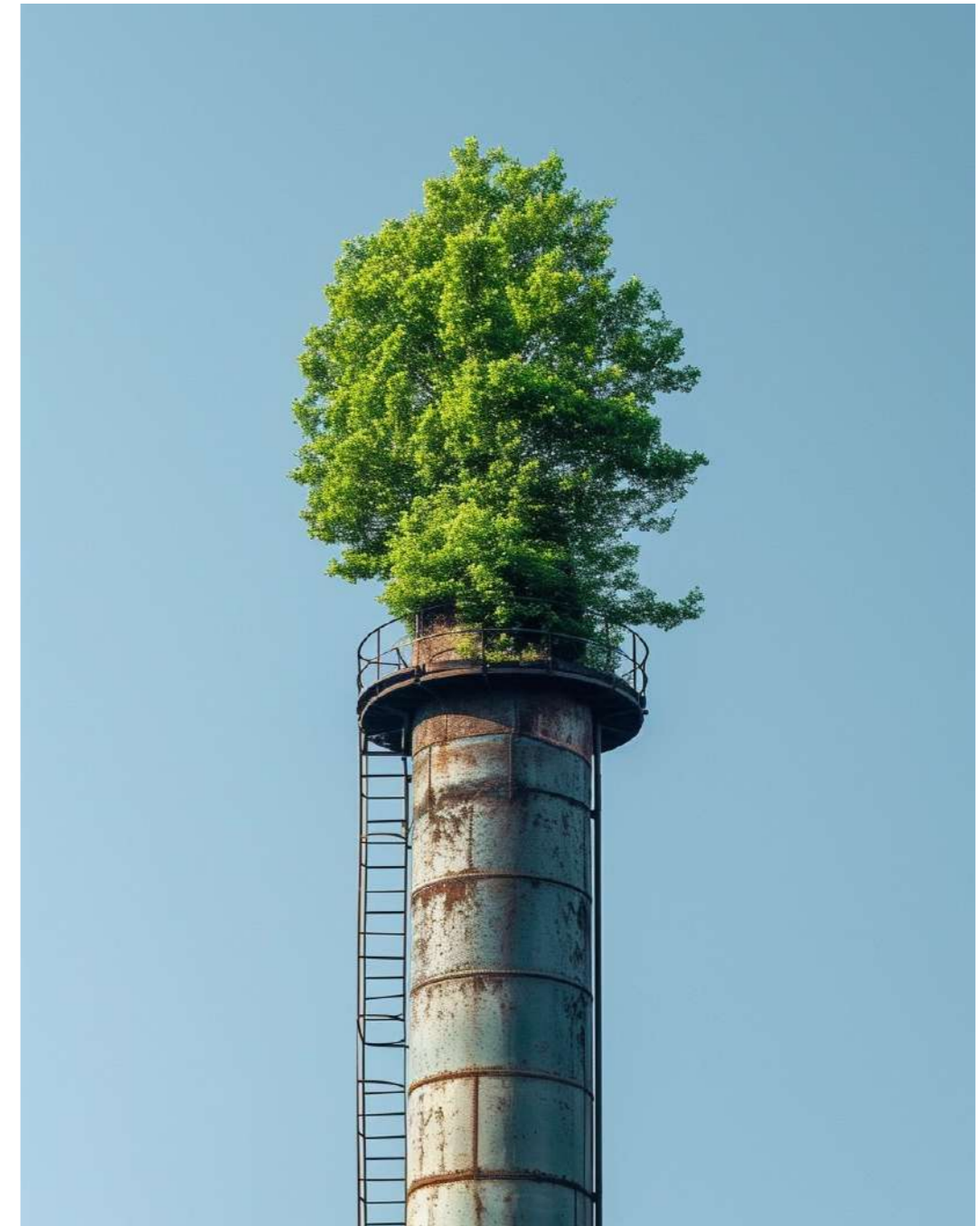
5600 KG OF RECYCLED PAPER (2000 KG IN 2023)

780 KG OF RECYCLED ALUMINIUM WASTE (370 KG IN 2023)

3950 KG OF RECYCLED IRON WASTE (180 KG IN 2023)

90% RECYCLABLE WASTE

10% OF WASTE DESTINED FOR DISPOSAL



ENVIRONMENTAL FRIENDLY ATTITUDES

LOCAL SOURCING

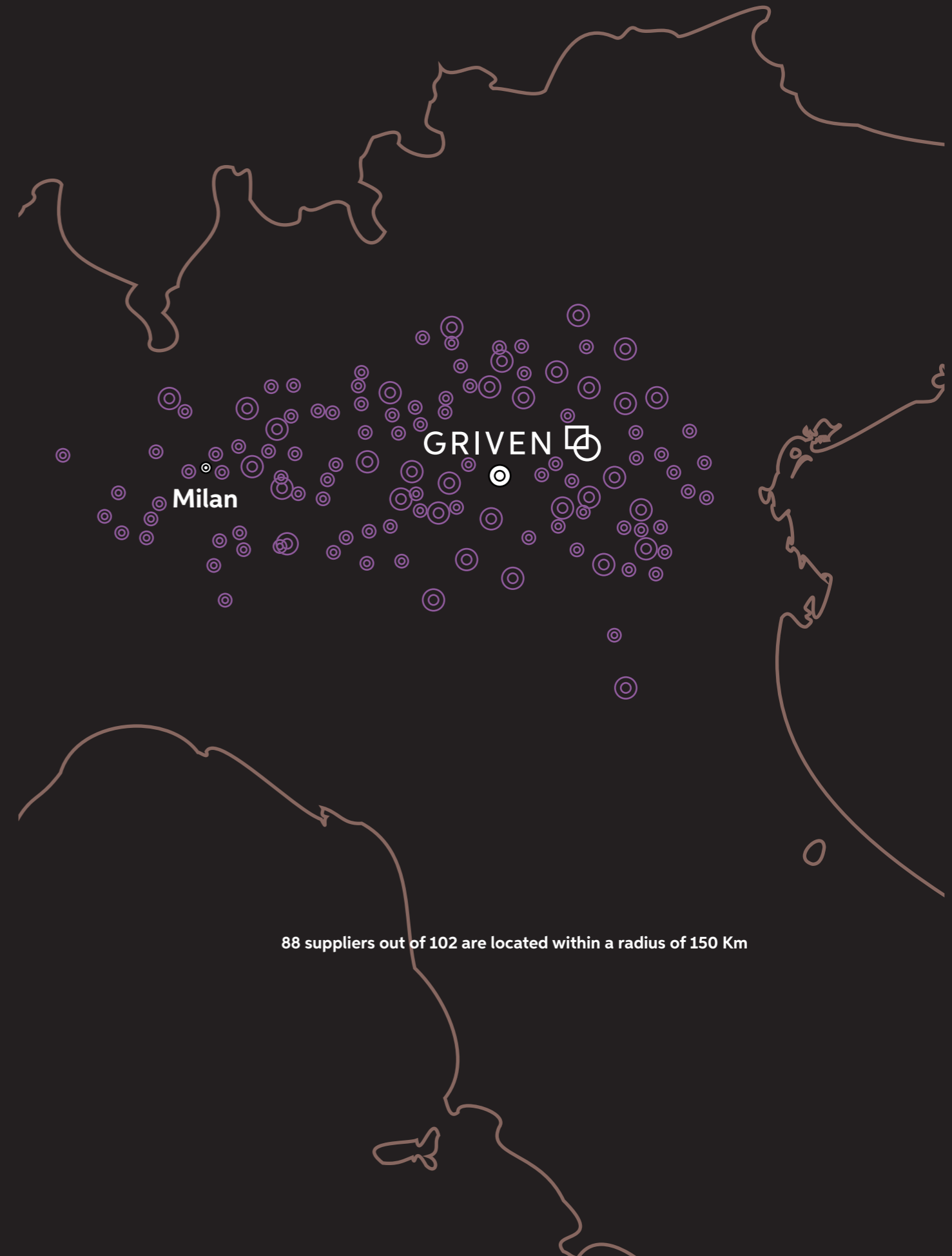
Local sourcing holds significant economic importance and sustainable value for our company's operations. By prioritizing the procurement of almost **90% of our total purchases from Italian providers, whereas 88% of them are located within a 150-kilometer radius**, we actively support the growth of our local economy while fostering sustainability in our supply chain.

This commitment to local sourcing greatly benefits our community by stimulating regional economic development. By collaborating with selected artisans and small to medium-sized companies within our territory, we contribute directly to job creation and the sustenance of local businesses. Moreover, the connection forged with local artisans and suppliers also cultivates a sense of partnership and trust allowing for better communication, flexibility, and quality control, thereby ensuring the superior quality of our products.

Moreover, our emphasis on local sourcing aligns with our sustainability goals. Reduced transportation distances for sourcing materials and components translate to decreased carbon emissions and environmental impact. By minimizing our carbon footprint through shorter supply chains, we actively contribute to environmental conservation and promote a greener approach to our operations.

89% OF TOTAL PURCHASES FROM ITALIAN PROVIDERS

88% OF THE ITALIAN PROVIDERS ARE LOCATED WITHIN A 150KM RADIUS



ENVIRONMENTAL FRIENDLY ATTITUDES

CIRCULAR ECONOMY

The concept of a circular economy lies at the heart of our company's ethos and policy. We've embraced this innovative approach as a guiding principle in our operations, aiming to minimize waste, maximize resource efficiency, and create a sustainable ecosystem within our business model.

Central to our circular economy policy is the **idea of reducing, reusing, and recycling resources at every stage of our product lifecycle**. We prioritize the design and manufacturing of products that are durable, repairable, and made from materials that can be easily recycled or repurposed. By doing so, we minimize the generation of waste and promote longevity in the use of our products.

Moreover, our commitment extends beyond product design. We actively seek ways to close the loop within our supply chain by fostering partnerships that prioritize the reuse of materials, components, and packaging. Whether it's through innovative recycling programs or collaborations with suppliers committed to sustainable practices, we strive to create a network that embraces circularity.

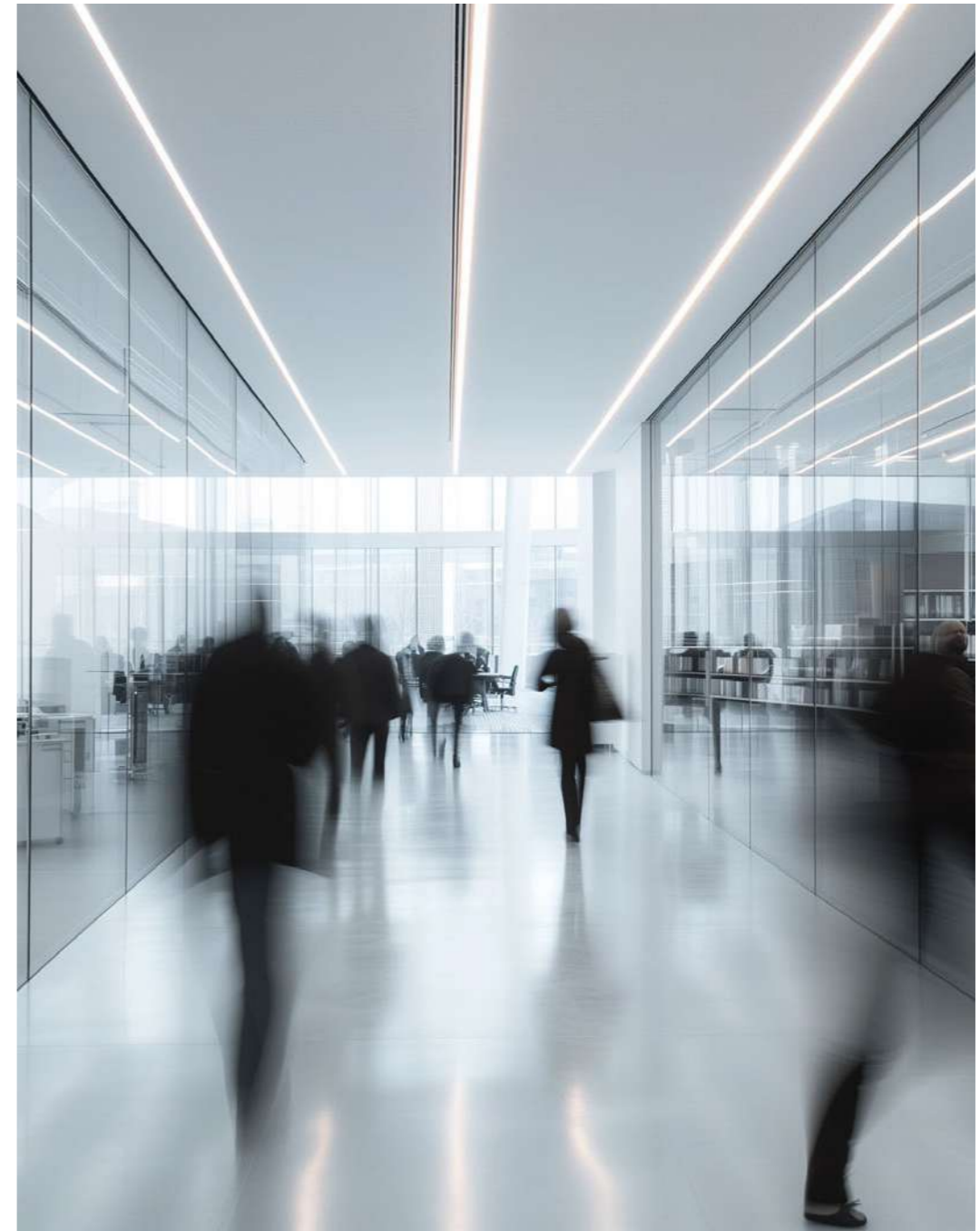


ENVIRONMENTAL FRIENDLY ATTITUDES

HUMAN-CENTRIC WORKING SPACES

The work place is far more than just a place where people work. Spaces and places have a massive impact not only on our state of mind but also on our performance. As we care about our people, we do everything to improve their everyday conditions, creating a natural, healthy working environment.

In all our offices we have installed **100% LED lighting**, which are capable of creating a safe and well lit ambience, while allowing energy savings. The air recirculation and purification system installed in our offices allows a safe breathing condition and is fed with zero emission green energy sources. The lighting system of our exterior building, parking, and gardens is also 100% LED. Every further step we take, now and in the future, is the result of careful and environmentally friendly choices.



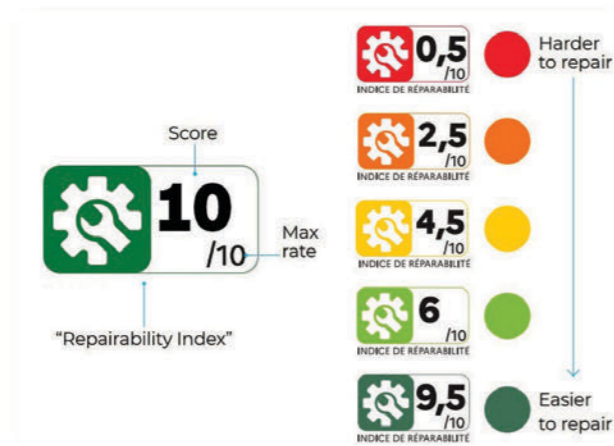
REPAIRABILITY INDEX

The repairability index consists of a score out of 10 intended to be displayed at the time of purchase to inform consumers of the categories of electrical and electronic products. Its goal is to encourage manufacturers to design products that are easier to repair, thereby extending their lifespan and reducing electronic waste.

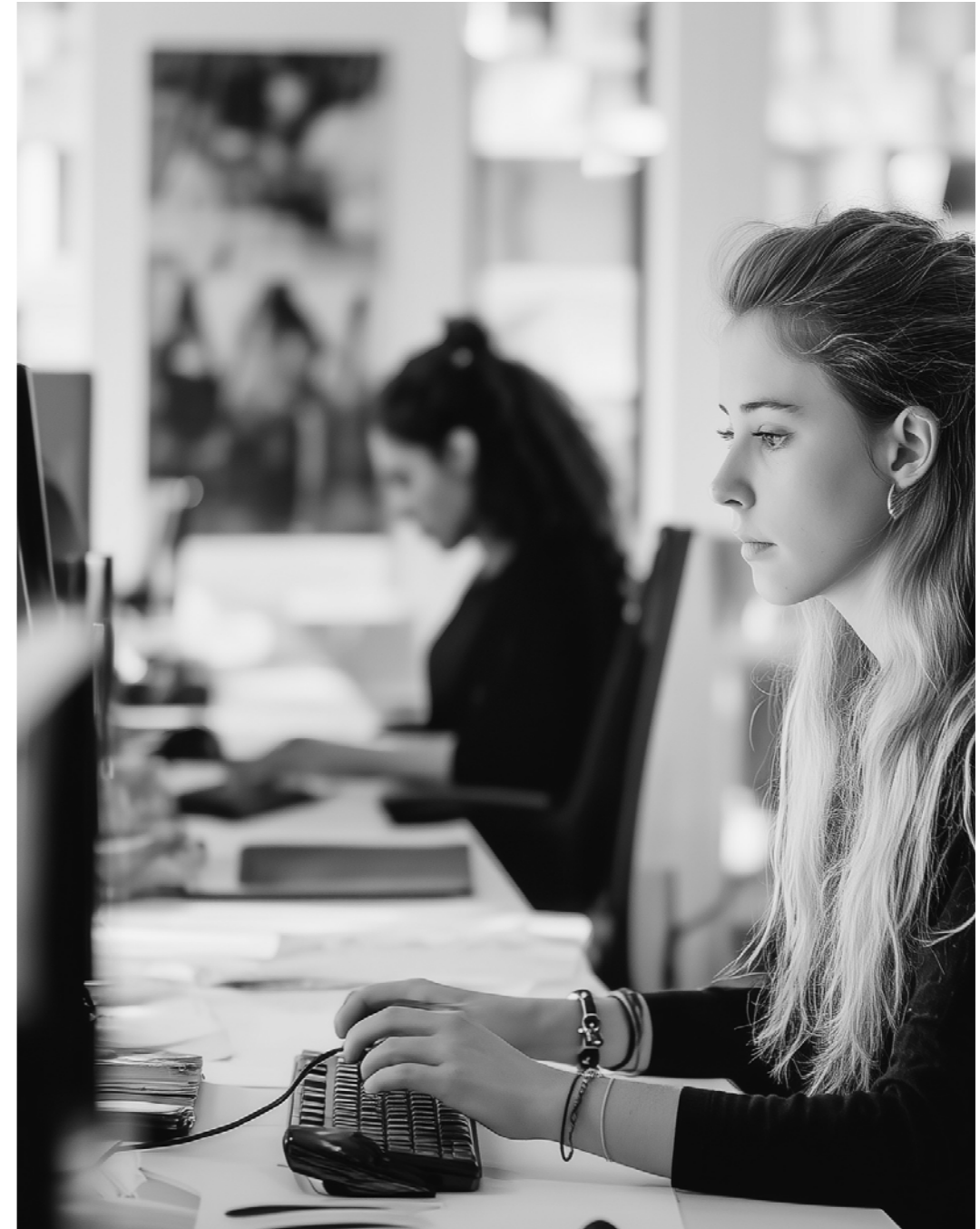
The manufacturer assigns a repairability index score based on five criteria:

- **Documentation:** the quality and availability of technical documentation to help repair products.
- **Disassemblability:** the ease with which a product can be disassembled to gain access to components or parts that need replacing.
- **Availability of spare parts:** how easy it is to obtain the spare parts needed to repair the product.
- **Price of spare parts:** how much spare parts cost.
- **Specific criteria:** product-specific criteria including software updates, how helpful the website is, any hotlines, etc.

Each factor is assigned a score, and the overall repairability score is calculated based on these individual ratings.



According to these criteria, our below reported lighting fixtures reach the highest repairability scores:



ENVIRONMENTAL FRIENDLY ATTITUDES

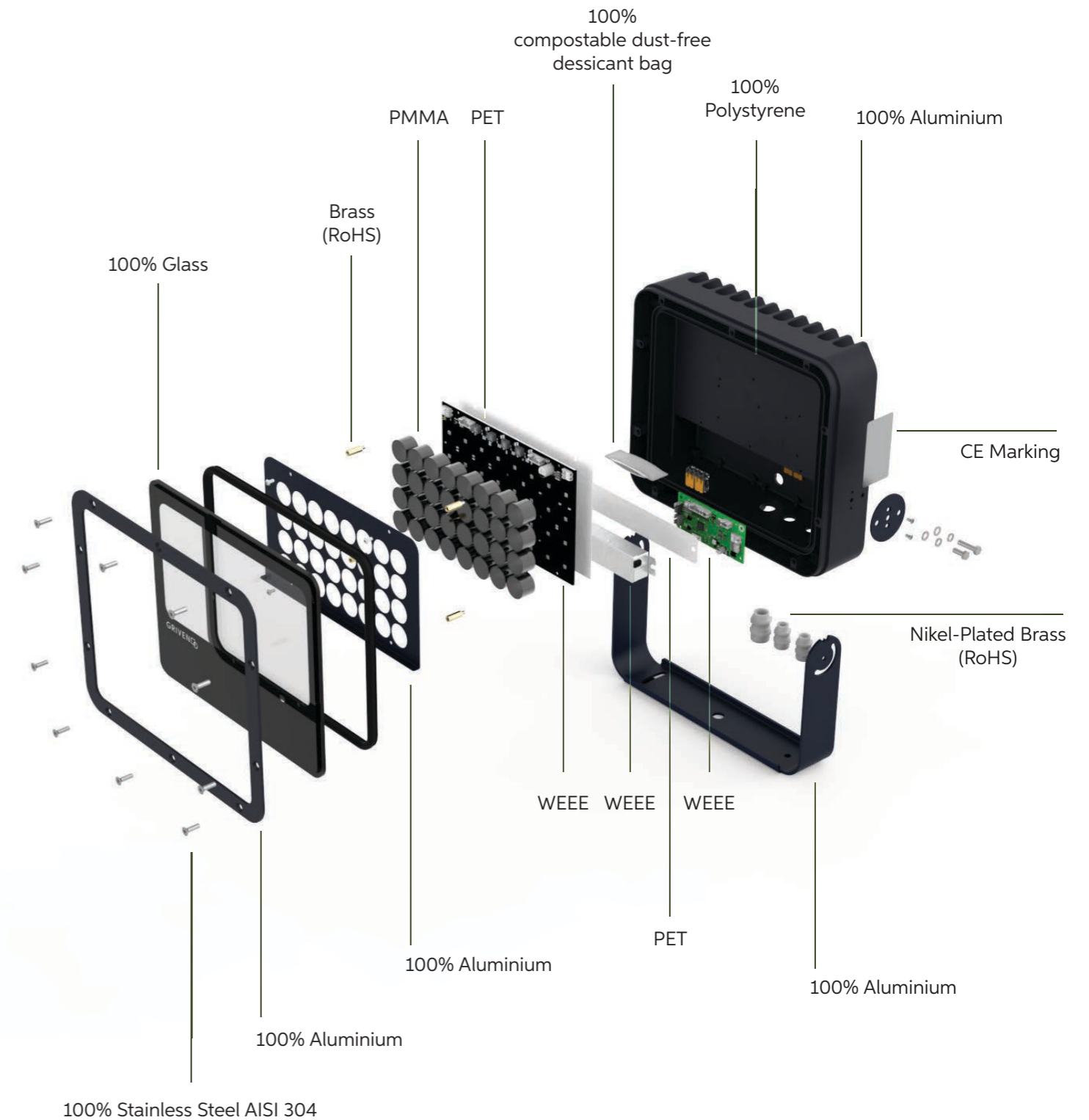
DISASSEMBLABILITY

Disassemblability refers to the ease with which a lighting fixture can be taken apart into its constituent parts. This characteristic is crucial for several reasons. Firstly, it facilitates maintenance and repair, allowing components to be accessed and replaced with minimal effort. This not only extends the lifespan of the fixture but also reduces the need for frequent replacements, thereby cutting down on waste. Furthermore, disassemblability plays a significant role in recycling and resource recovery and aligns with the principles of circular economy and sustainable design. By dismantling fixtures into separate materials such as metal, plastic, and glass, these components can be more effectively recycled or repurposed at the end of their life cycle. This not only conserves valuable resources but also reduces the environmental footprint associated with manufacturing new materials.

As we are focusing on sustainable design practice, our scores are gradually increasing:

- 5%** OF THE FIXTURES SOLD IN 2024 ARE **100%** DISASSEMBLABLE
- 2%** OF THE FIXTURES SOLD IN 2024 ARE **90%** DISASSEMBLABLE
- 92%** OF THE FIXTURES SOLD IN 2024 ARE **80%** DISASSEMBLABLE

**CAPITAL SERIES
100% DISASSEMBLABLE**



Overview

100% RENEWABLE ENERGY

5% OF THE FIXTURES SOLD IN 2024 ARE **100%** DISASSEMBLABLE

780 KG OF RECYCLED ALUMINIUM WASTE

2% OF THE FIXTURES SOLD IN 2024 ARE **90%** DISASSEMBLABLE

90% RECYCLABLE WASTE

92% OF THE FIXTURES SOLD IN 2024 ARE **80%** DISASSEMBLABLE

5600 KG OF RECYCLED PAPER

3950 KG OF RECYCLED IRON WASTE

89% OF TOTAL PURCHASES FROM ITALIAN PROVIDERS

88% OF THE ITALIAN PROVIDERS ARE LOCATED WITHIN A **150** KM RADIUS

500 sqm SOLAR PANEL PLANT

0% DANGEROUS WATER LEAKS

100% PACKAGING FROM OVER **90%** RECYCLED MATERIALS

0% DANGEROUS EMISSIONS

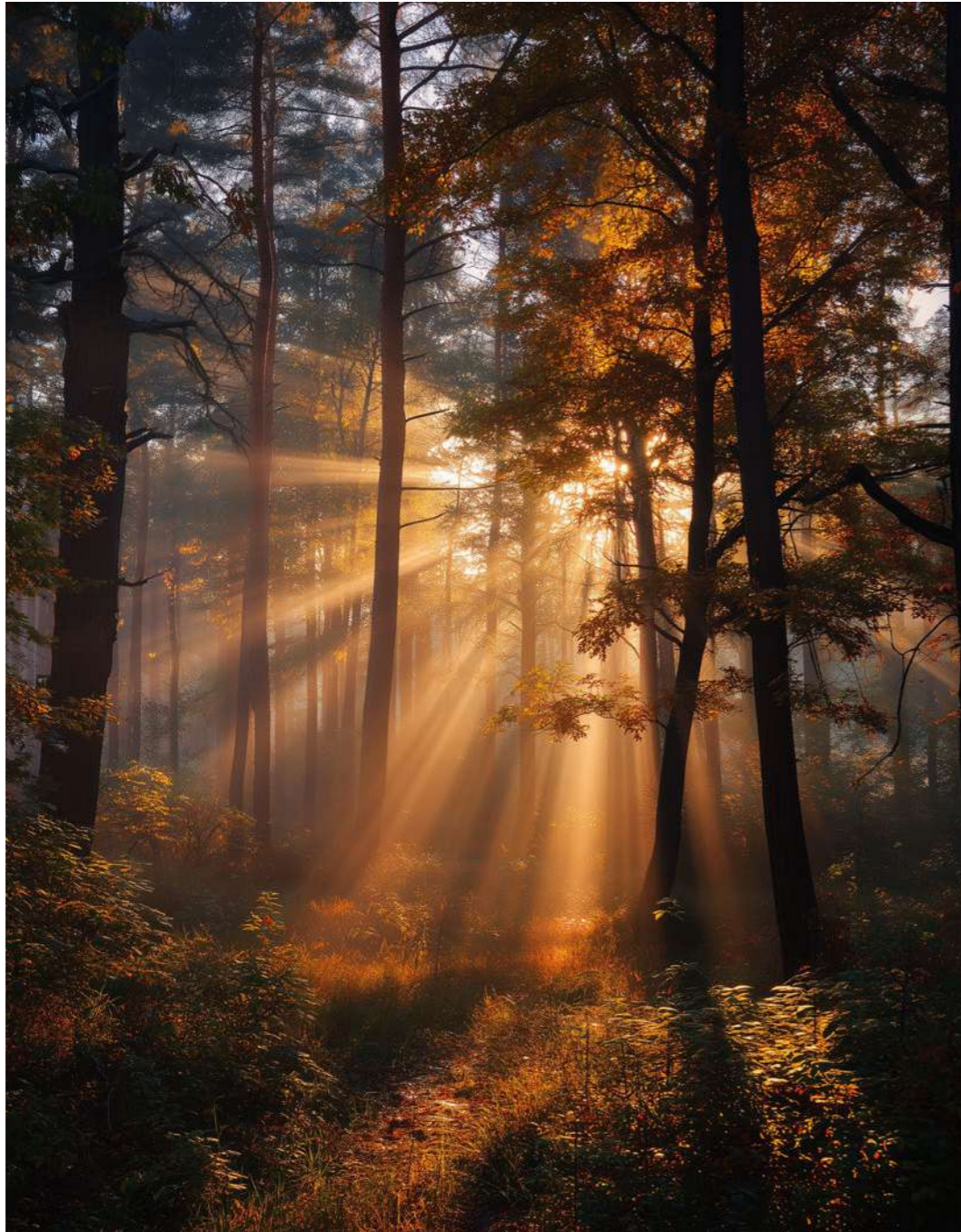
10% OF WASTE DESTINED FOR DISPOSAL

100% MADE IN ITALY PRODUCT MANUFACTURING

100% MOON SERIES IN CLASS C (4000K) or CLASS D (3000K)



IMPROVEMENT ACTIONS



IMPROVEMENT ACTIONS

In a rapidly evolving world where environmental concerns are paramount, the significance of concrete improvement actions within a global sustainability plan, such as ours, cannot be overstated. These actions serve as catalysts for meaningful change, not only within the organization but across the entire industry. By committing to sustainability, we not only meet regulatory requirements but set a precedent for innovation and leadership. Through our proactive approach, we aim to inspire others to follow suit, ultimately shaping a future where sustainable practices are the norm, ensuring a healthier planet for generations to come. In the next pages, we will share our ideas, our ambitious plans for present and future improvement actions, our schedule of sustainable activities, which will be a guiding light for all of us for the next years.

CERTIFICATION PROGRAMME

We are committed to implementing a comprehensive strategy that encompasses various vital certifications aimed at enhancing our sustainability, social responsibility, and overall organizational performance.

Our plan involves a gradual introduction and adoption of several key certifications to reinforce our commitment to these crucial areas:

CBSE TM65 - Embodied carbon in building service

CBSE TM66 - Circular economy

ESG 360 - Environmental, Social, Governance

ITALYX - Certified Italian Excellence

SGDs - Sustainable development goals (ONU)

ISO 14025 - EPD environmental product declaration

ISO 14040 - LCA Life cycle assessment.

CERTIFICATION PROGRAMME IN DETAIL

CBSE TM65 – Embodied carbon in building service

Addressing the environmental impact of our building services, this certification helps us measure and reduce embodied carbon, contributing to sustainable practices in our construction and service-related activities.

CBSE TM66 – Circular economy

Embracing the principles of a circular economy, this certification guides us toward minimizing waste, maximizing resource efficiency, and promoting sustainable product lifecycles within our operations.

ITALYX - Certified Italian Excellence

The ITALYX certification recognizes, attributes value, and provides visibility to businesses that embody and represent the values of Italian culture: pursuit of quality, style, attention to detail, and creativity promoting the development of Italian production chains and their competitiveness.

ESG 360 - Environmental, Social, Governance

This certification provides a holistic framework for assessing and enhancing our Environmental, Social, and Governance practices, ensuring we align with ethical and sustainable standards
SGDs - Sustainable Development Goals (UN)

SGDs – Sustainable development goals (ONU)

Aligning with the United Nations' Sustainable Development Goals, we aim to incorporate these global objectives into our strategies, contributing positively to societal and environmental progress.

ISO 14025 – EPD environmental product declaration

ISO 14040 – LCA Life cycle assessment

These certifications enable us to measure the environmental impact of our products through comprehensive life cycle assessments and develop environmental product declarations to communicate their sustainability aspects effectively.

IMPROVEMENT OF REPAIRABILITY INDEX

As shown previously, some of our product series already display the highest repairability index, while others are very close to achieving it. Our target for next years is to **improve the repairability index** of all product series that score below 8 out of 10.

This will involve implementing all necessary modifications in the production process and component purchases to help us reach this important milestone.

RECYCLING TOGETHER

To enhance our dedication to sustainability and advance our proactive role in fostering a circular economy, we are implementing a **new recycling system** with the support of our global customers. One of our primary goal is to recover a minimum of 80% of the raw materials from our discontinued products and achieve 100% recycling of these components within 2035. We are currently assessing the feasibility and procedures for implementing this approach, which we are confident will soon become an established habit.

NIGHT LIGHT PROJECT

Light pollution alters natural levels of nighttime light for humans, animals, and plants, resulting in negative consequences on biodiversity. This alteration compromises the migratory, nocturnal, and reproductive activities of animals, ultimately leading to the decimation of insects and pollinators. These creatures are fatally attracted to increasingly powerful light sources, often devoid of any shielding.

Through the **NIGHT LIGHT research project**, we aim to craft environmentally mindful lighting that respects the nocturnal ecosystem. Specifically, we consider the nocturnal pollinators like moths, which, akin to bees in daylight, play a crucial role in pollination during nighttime hours.

Our methodology involves deploying installations in specific areas of interest identified and monitored by research entities. Leveraging our products equipped with advanced multi-coloured LED technology and adeptly manipulating the intensity of distinct light channels, our aim is to identify the precise chromaticity or range of nanometers that do not interfere with the behaviour of nocturnal insects.

Once we identify the optimal light spectrum for projection, determining the operational hours throughout the night and the appropriate levels of illumination becomes paramount. This necessitates a delicate equilibrium between providing adequate light for intended purposes while minimizing disruption to the natural activities of nocturnal insects.

MOBILITY PLAN

Our forthcoming mobility plan heralds a transformative shift towards a sustainable future. At the forefront of this imminent initiative is the phased integration of company hybrid vans and trucks, whereas we can already rely on hybrid cars. Embracing the evolution of transportation, we confirm our dedication to reducing carbon footprints and reliance on fossil fuels by always embracing the latest mobility technology.

GREEN DAY

We think that adopting and consistently practicing tangible initiatives can significantly strengthen your company's commitment to sustainability while positively impacting the environment and the community.

We are therefore planning to concretise our ideas in participating in local community involved activities and partnerships:

- Engage in local sustainability projects or volunteer initiatives
- Partner with environmental organizations for joint initiatives
- Sponsor or participate in community clean-up events

SUPPORTING SOCIAL AND ENVIRONMENTAL CAUSES

Beginning in 2024, we are committed to supporting initiatives that promote scientific progress, environmental responsibility, and animal welfare. In 2024, our annual donations were directed to three organisations: Telethon, Bioforest, and Il Sentiero di Ares.

TELETHON

By supporting the Telethon research organisation, we joined the many companies that choose to act responsibly and believe in the importance of research, merit, and innovation. Scientific research represents a shared heritage and a key driver of sustainable and conscious growth.

BIOFOREST

In 2024, we became a supporting member of the Italian non-profit association Bioforest, which promotes reforestation projects to offset industrial CO₂ emissions. Through this collaboration, we help restore the balance of renewable raw materials taken from nature by planting new trees.



IL SENTIERO DI ARES

To promote respect for animals and support those most in need, we chose to donate to Il Sentiero di Ares, a volunteer-based non-profit organisation that provides shelter and care to abandoned or mistreated domestic animals, offering them a home, medical care, affection, and dignity in the final stage of their lives.

For 2025, based on recommendations from our employees, who are actively involved in this donation programme, we selected several organisations to receive our support:

Alzheimer Italia works to improve the quality of life for people with dementia and their families, raising awareness, providing support services, advocating for rights, and promoting medical research.

Let's Do It! World mobilises communities to clean up the planet, tackling waste and fostering environmental awareness to create a healthier world.

FAI – Fondo Ambiente Italiano, a non-profit foundation founded in 1975, protects and enhances Italy's historical, artistic, and natural heritage, preserving special places, educating the public, and safeguarding environmental and cultural assets.

Finally, **ENPA – Ente Nazionale Protezione Animali** has, for over 150 years, rescued and sheltered stray or abandoned animals, promoted adoptions, protected wildlife, and fostered a culture of respect and care for all animals.

Through these initiatives, we reaffirm our belief that true sustainability combines scientific excellence, environmental stewardship, and empathy, guiding our actions and shaping a more responsible and conscious future.

CORPORATE FAMILY DAY

Corporate family day events offer a valuable opportunity for employees to connect with their families, while also serving as a means for companies to express gratitude towards their workforce, contributing to the creation of a deep-rooted positive corporate culture.

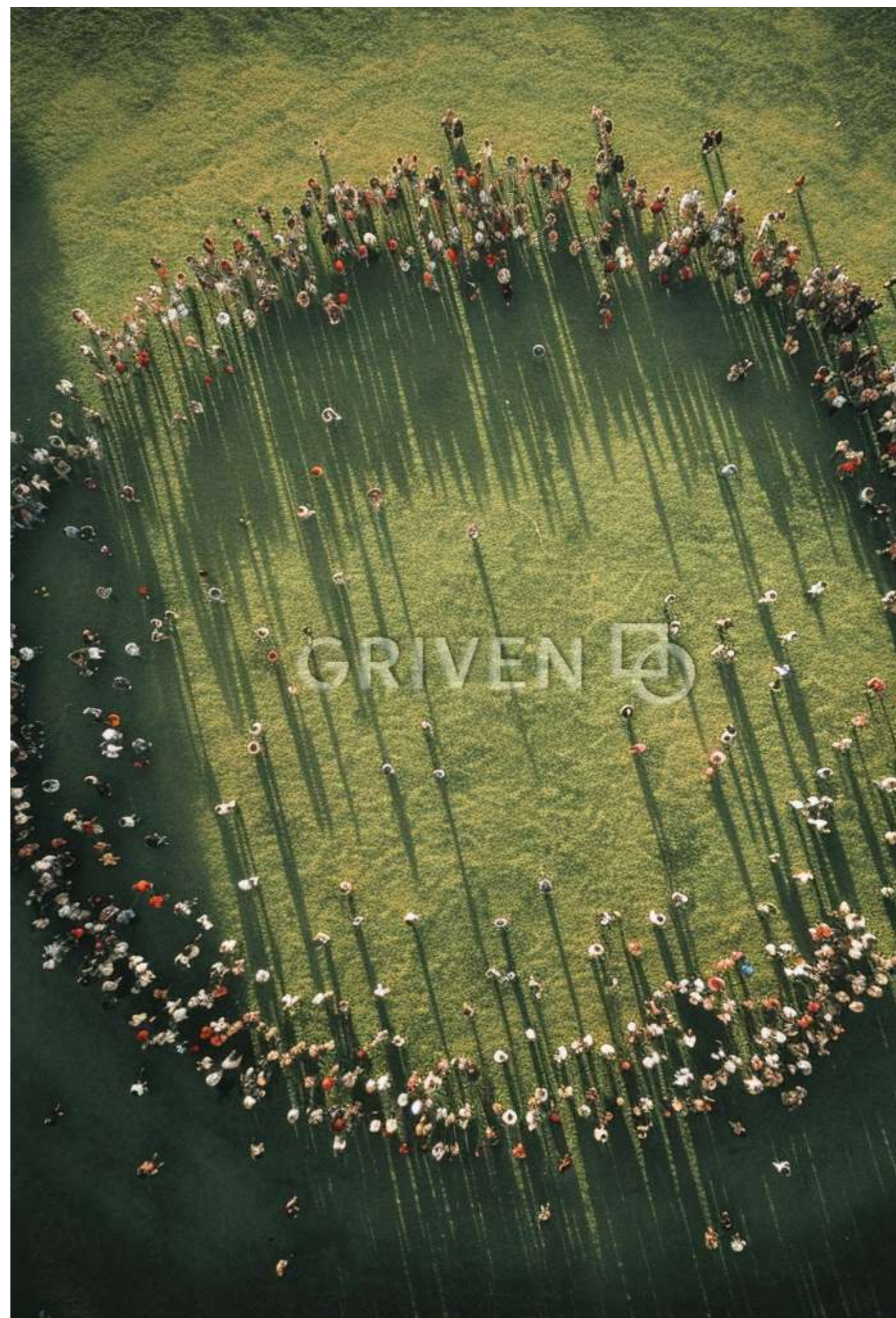
Recognizing the importance of this topic, we are planning a Corporate Family Day initiative for next year. Through this special event, we aspire not only to foster a sense of togetherness among our employees and their families but also to educate and engage the younger generation in understanding the importance of sustainable practices. By showcasing our dedication to environmental commitment through interactive workshops, educational activities, and demonstrations focused on sustainability, we hope to inspire and empower the youth to become advocates for a greener future.

GETTING READY FOR THE EU DIGITAL PRODUCT PASSPORT

Global legislative requirements are mandating a higher level of transparency in product data across the retail industry. The EU's Digital Product Passport (DPP) legislation will revolutionise how the industry gathers and shares product data throughout the value chain, significantly impacting commerce overall. It is therefore crucial to prepare for DPP requirements, currently affecting select industries such as textiles, electronic devices, construction, plastics, automobile, and chemicals, as they will soon extend to all market categories.

To enable sharing of key product related information that are essential for products' sustainability and circularity allows a rapid transition to circular economy, boosting material and energy efficiency, extending products lifetimes and optimizing products design, manufacturing, use and end of life handling besides helping consumers in making sustainable choices.

We are therefore already outlining our strategy and defining a planning in order to anticipate the official regulations empowerment.



HUMAN-CENTRIC WORKING SPACES

In our vision for the next years, we're committed to creating new spaces focused on enhancing the wellbeing of our employees. This includes:

- A spacious, shaded garden for relaxation
- A serene green area furnished with comfortable seating for enjoyable lunch breaks during the warmer seasons
- Modern, ergonomic office spaces designed to support productivity and comfort for all staff members of the technical department
- A new indoor canteen to cater to dining needs
- An exterior showroom to showcase our offerings
- Gym facilities accessible to all employees for promoting health and wellness.



GRIVEN 

Via Bulgaria, 16
Castel Goffredo Mn
46042 Italy

www.griven.com

GENERAL TERMS AND CONDITIONS OF SALE

1. General Terms and Conditions

The following terms and conditions (General Terms and Conditions of Sale) form an integral part of the contracts concluded between the Seller and the Purchaser for the supply of the Seller's products (the Products).

The General Terms and Conditions of Sale apply to all transactions concluded between the Seller and the Buyer without the need for an express reference to them or a specific agreement to that effect at the conclusion of each individual contract. Any different conditions or terms shall only apply if confirmed in writing by the Seller.

The General Terms and Conditions of Sale shall be supplemented with the provisions of the Italian Civil Code and Legislative Decree no. 206/2005 (Consumer Code) where applicable.

The Seller reserves the right to amend, supplement or vary the General Terms and Conditions of Sale without prior notice.

The General Terms and Conditions of Sale are drawn up in Italian and in other languages. In case of doubts of interpretation, the Italian version shall always prevail.

2. Definitions

In the interpretation of the General Terms and Conditions of Sale, the following terms shall be construed as follows

- a) Seller or GRIVEN: GRIVEN S.r.l.;
- b) Buyer: the buyer of the Product or the person to whom the Product is delivered;
- c) Contractors/Parties: the Seller and the Buyer;
- d) Product(s): the goods specified in the catalogue and/or offer, the subject of the Contracts of Sale between the Buyer and the Seller
- e) Order(s): the form in which the Buyer declares to the Seller that it wishes to purchase the Product(s);
- f) General Terms and Conditions of Sale: the present agreements;
- g) Site: the website www.griven.com

3. Subject matter of the contract

The contract exclusively encompasses the items specified in the Order. The features and information presented in catalogues, websites, and/or any other documentation related to the Products subject to the Order are considered purely indicative and not binding for the Seller.

4. Orders and acceptance

Orders are valid as an irrevocable purchase proposal for the person placing them and are not binding for the Seller, who reserves the right to accept them.

In any case, the Seller reserves the right to subordinate acceptance of the Order to specific payment terms and/or the issuance of a suitable guarantee. Any additions or changes made to the Order, including by the Seller's agents, shall not be binding on the Seller, which may accept or reject them without prejudice to the original Order.

GRIVEN S.r.l.

Via Bulgaria n°16 - 46042 Castel Goffredo (MN) Italy

Tel. +39 0376 779483 - Fax +39 0376 779682

P.iva Cod. Fiscale 01404480202 - VAT IT01404480202 Cap. Soc. 68.000 € I.v.

Registro imprese n.01404480202 - R.E.A Mantova n.156577 N.Mecc. MN 001841

sales@griven.com www.griven.com



Organizzazione con Sistema di Gestione certificato ISO 9001 - 14001 - 45001

The placing of the Order automatically implies acceptance of these General Terms and Conditions of Sale. During the performance of the contract, the Buyer may not object or make reservations to any facts, circumstances and/or conditions that depend directly or indirectly on its lack of knowledge of the provisions of the General Conditions of Sale.

Orders shall not be deemed accepted until they have been confirmed in writing by the Seller. The issuing of the invoice by the Seller or the execution of the Order shall be considered as confirmation. The Buyer acknowledges that products for sale through the Site may occasionally become unavailable during the purchase process. In such circumstances, the Buyer will be contacted and fully reimbursed the price paid for the unavailable item, unless otherwise agreed between the parties. If the order consists of several products, the products available will be shipped.

The products on sale are always addressed as per the production standard (DMX on channel 001, DALI not addressed) and not programmed, unless otherwise indicated by the Buyer to the Seller during the definition of the Order.

5. Prices

The prices of the Products are exclusively those indicated in the order confirmation. The Seller reserves the right to change prices at any time and without prior notice.

6. Return and Shipment

Unless otherwise agreed, the delivery of the goods is understood to be Ex Works even when the shipment or part of it is carried out by the Seller.

In any case, regardless of the return terms agreed upon by the Parties, the risks pass to the Buyer at the latest upon delivery to the first carrier.

If the Buyer fails to collect the goods within 5 (five) days of being notified that the goods are ready, the Seller reserves the right to issue an invoice for the goods. Thereafter, a storage fee of €50 per pallet (minimum charge) will apply. Should the goods remain at Griven for an additional 7 (seven) days, a further storage charge of €50 per pallet will be applied for each subsequent week.

Ownership of the material shall remain with the Seller until the goods are dispatched.

Regardless, the payment terms indicated on the invoice shall commence from the date of issue of the invoice.

7. Terms of Payment

Payment terms shall be as specified in the order confirmation.

Payments shall be made without any deduction for set-off or claims. If the Buyer fails to make the payment within the agreed term, the Buyer shall be liable to pay default interest calculated in accordance with Legislative Decree 192/2012.

Non-payment or delayed payment for any reason whatsoever shall entitle GRIVEN S.r.l., without prejudice to any other action, to demand advance payment of the Orders already invoiced and to cancel the processing of any other Orders in progress without the Buyer being entitled to make any claims for compensation, indemnity or other.

8. Delivery terms

Delivery terms vary according to the Products ordered and the specific requests made by the Purchaser; delivery terms are always to be considered indicative and are not binding on the Seller.

The Seller reserves the right to reasonably make partial deliveries.

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Organizzazione con Sistema di Gestione certificato ISO 9001 - 14001 - 45001

9. Retention of Ownership

GRIVEN S.r.l. retains title to the Products delivered to the Buyer until receipt of the full price and any other sum due.

The Buyer shall keep and maintain the goods in good faith until the full payment is received. The Buyer shall refrain from any act or conduct that would prevent the Seller from validly exercising this right.

10. Express Termination Clause

Failure to comply with the terms of payment, as well as any delay by the Purchaser in collecting the Products that persists for more than 30 (thirty) days from the date of 'ready goods,' shall entitle the Seller to terminate the contract pursuant to Article 1456 of the Italian Civil Code through suitable written notice. This is without prejudice to the Seller's right to:

- retain any amount received from the Purchaser as compensation for the damage suffered and for the Purchaser's use of the goods, without prejudice and without foregoing further actions for damages;
- suspend any processing of Orders or residual Orders in progress.

11. Complaints

Any complaints relating to the condition of the packaging, quantity, number or external characteristics of the Products (apparent defects) shall be notified to the Seller by registered letter with return receipt or PEC, under penalty of forfeiture, within seven (7) days from the delivery of the Products. Any complaints relating to defects that cannot be detected by a diligent inspection upon receipt (hidden defects) shall be notified to the Seller by registered letter with return receipt or PEC, under penalty of forfeiture, within seven (7) days from the date of discovery of the defect and in any case no later than two (2) months from delivery.

Any complaints or disputes shall not entitle the Purchaser to suspend or in any case delay payments of the Products in dispute or of other supplies.

12. Defects and warranty

The Purchaser shall not be entitled to assert any warranty rights against GRIVEN S.r.l. unless he has paid the price according to the agreed terms and conditions.

For further details on the warranty conditions please refer to GRIVEN S.r.l.'s TERMS OF WARRANTY version 15.02.2022 nr.03GR150222 downloadable from the Download area of the website www.griven.com.

13. Force majeure

GRIVEN S.r.l. shall not be held liable if the delayed or non-performance of its obligations is due to force majeure (by way of example only: shortage of energy or raw materials, strikes, public administration measures, hindrances to traffic or production activities, epidemics and natural disasters).

14. Right of Withdrawal

The Seller reserves the right to withdraw from the contract if, after the Order has been confirmed, the Seller receives commercial information about the Buyer that, in its unquestionable judgment, advises against the execution or continuation of the contract. The exercise of this right does not entitle the Buyer to damages or other compensation.

15. Order Cancellation

If, for any reason, the Buyer cancels an Order, whether in whole or in part, GRIVEN S.r.l. reserves the right to impose a penalty. The penalty shall be 50% of the value for all standard products and 100%

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sales@griven.com www.griven.com



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the value for all customized products. In any case, GRIVEN S.r.l. may retain all amounts paid in advance.

16. Acts of Forbearance

In no event shall any failure on the part of the Seller to exercise any right constitute a waiver of the right to demand exact performance; such omission shall be qualified as a mere act of forbearance.

17. Protection of Personal Data

The personal data provided by the Buyer, or otherwise acquired in the course of GRIVEN S.r.l.'s activities, will be processed in accordance with EU Regulation No. 679/2016 and Legislative Decree No. 196/2003. The term 'processing' includes any operation or set of operations, performed with or without the aid of automated processes, applied to personal data, such as collection, recording, organization, structuring, storage, adaptation or modification, extraction, consultation, use, communication by transmission, dissemination, or any other form of making available, comparison, or interconnection, restriction, deletion, or destruction of data.

GRIVEN S.r.l. declares that the data will be processed for the performance of the contract and will not be disclosed to third parties, except for companies belonging to the Group. Regarding the provided data, the Buyer may exercise its rights under Article 12 of EU Regulation No. 679/2016: access by the data subject, rectification, cancellation, limitation of processing, portability, and opposition.

18. Applicable Law and Competent Court

Any dispute arising from the interpretation and execution of the contract and the General Conditions of Sale shall be governed by Italian law, and the Court of Mantua shall have exclusive jurisdiction, excluding any other competing or alternative jurisdiction.

If the Buyer is based in a non-EU country, all disputes arising from the contract and the General Conditions of Sale shall be finally settled by a board of one or more arbitrators according to the rules of the Mantua Chamber of Arbitration at the Mantua Chamber of Commerce.

In all cases, GRIVEN S.r.l. reserves the right to initiate proceedings at the competent court of the Buyer's location for actions aimed at the recovery of the credit. In such cases, local law will apply.

GENERAL TERMS AND CONDITIONS OF SALE rel. 032025/rev. 211025

GRIVEN S.r.l.

Via Bulgaria n°16 - 46042 Castel Goffredo (MN) Italy
Tel. +39 0376 779483 - Fax +39 0376 779682

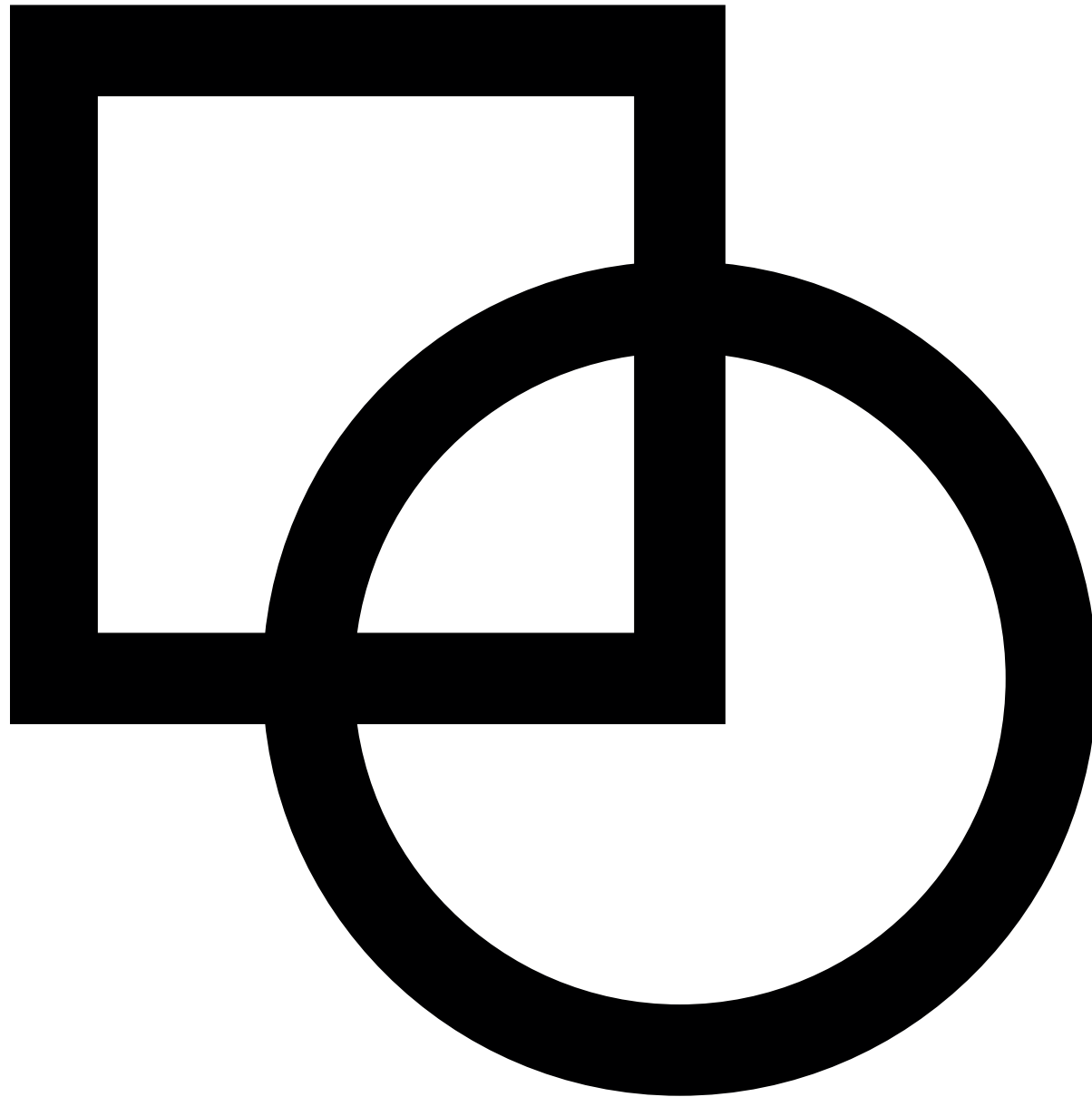
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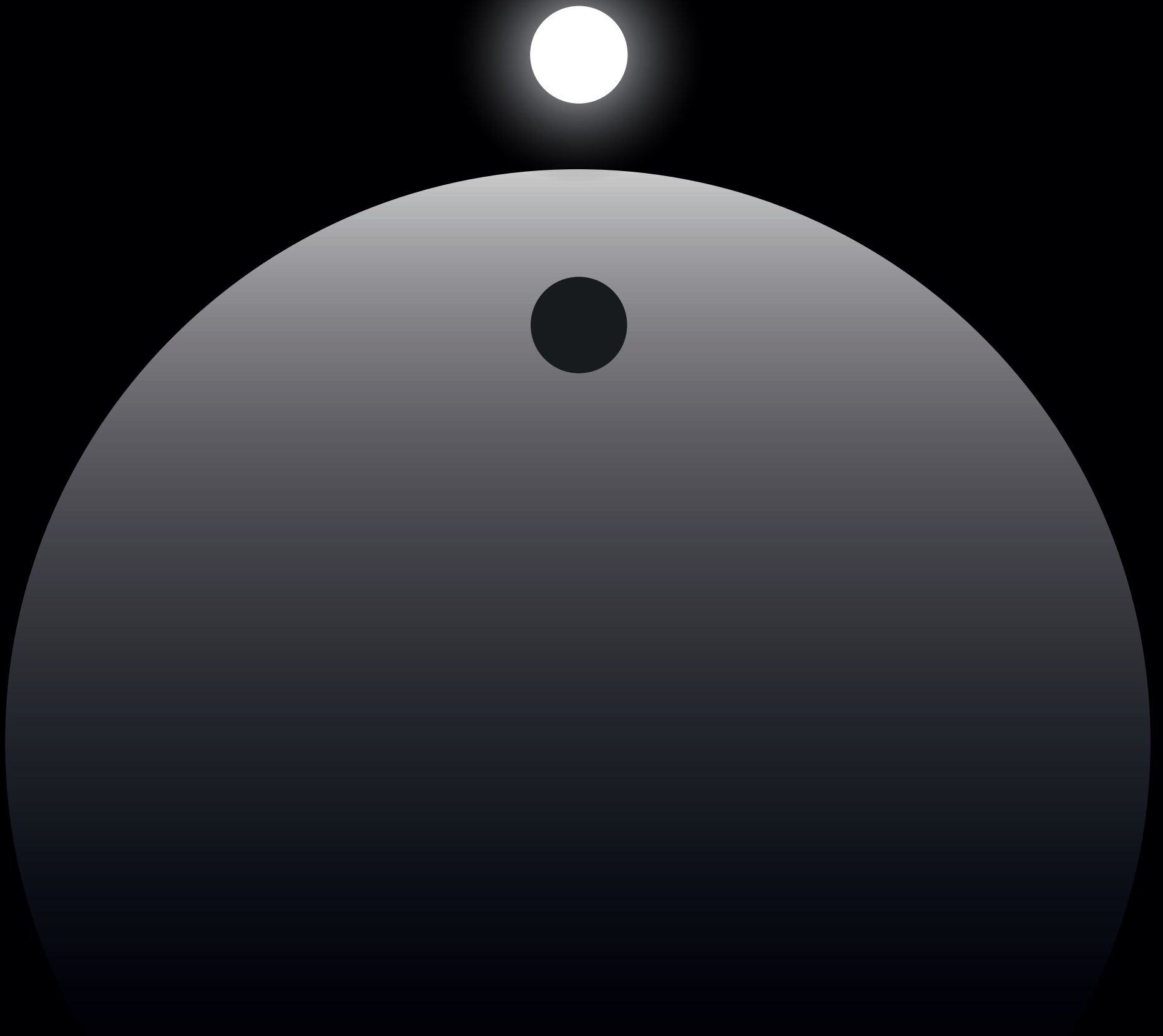


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GRIVEN 



A SHINING PASSION

We are pleased to present our 2022 COLLECTION. It encompasses our joint efforts, long-term experience, and undivided passion for illumination.

The innovative architectural lighting fixtures in this collection are born from our strong MADE IN ITALY tradition, sustainability values, constant innovation, continuous R&D efforts, and high-quality standards.

We firmly believe that our consistent values will help us reach our ambitious corporate mission.

We want to steadily grow within domestic and international architectural outdoor lighting markets as a genuine, reliable partner for all our customers bringing our passion for ideas and innovation together with our history of quality.

We strive to reach excellence in illumination also through our commitment to truthful human relationships and respect for people.

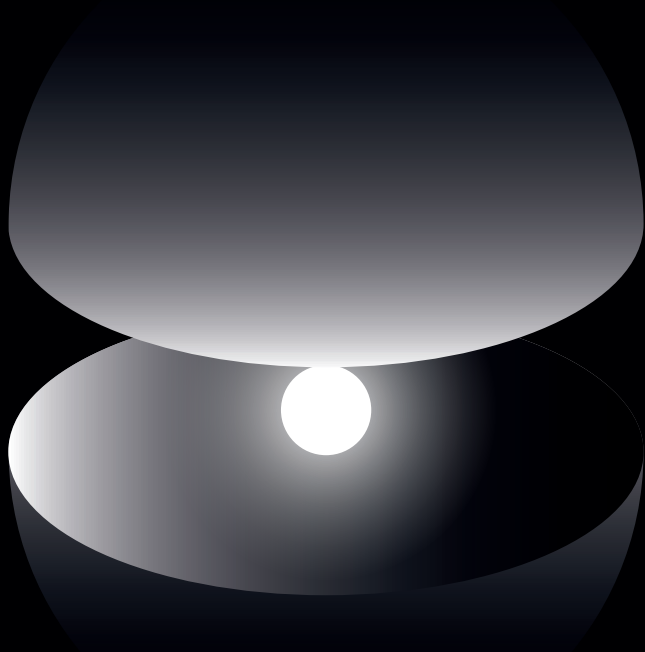
Transforming the architectural lighting industry through passion and innovation is our goal.

**SINCE OUR
FOUNDATION,
WE HAVE BEEN
BUSY DEVELOPING
INNOVATIVE
SOLUTIONS THAT
COULD STAND
OUT FOR THEIR
UNIQUENESS
AND EFFICIENCY.**

OUR VALUES

A CONSISTENT ATTITUDE TOWARDS INNOVATION

Since our foundation, we have been busy developing innovative solutions that could stand out for their uniqueness and efficiency in an increasingly competitive market.

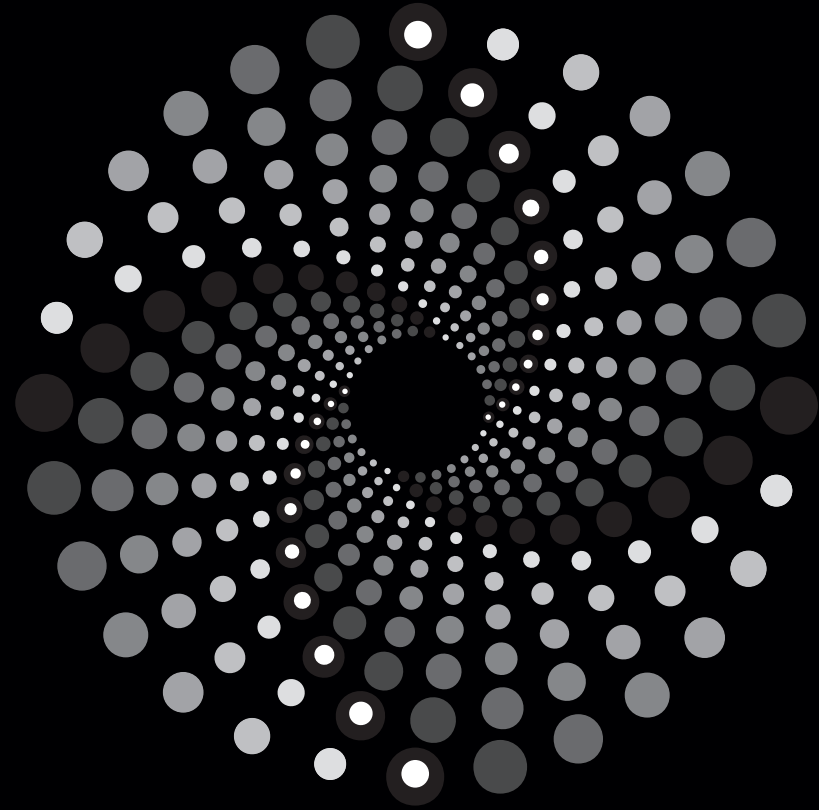


A PROUD MADE IN ITALY TRADITION

Faithful to our core values, we have always designed, engineered, and assembled all our lighting fixtures in Italy. We are proud of our products, which result from high manufacturing and design standards in the truest MADE IN ITALY tradition.

**A TIRELESS COMMITMENT
TO SUSTAINABILITY**

We consider our respect for the environment an integral part of our activities. We care about our future and firmly want to improve environmental awareness through a coherent behaviour by promoting greener engineering and production dynamics.

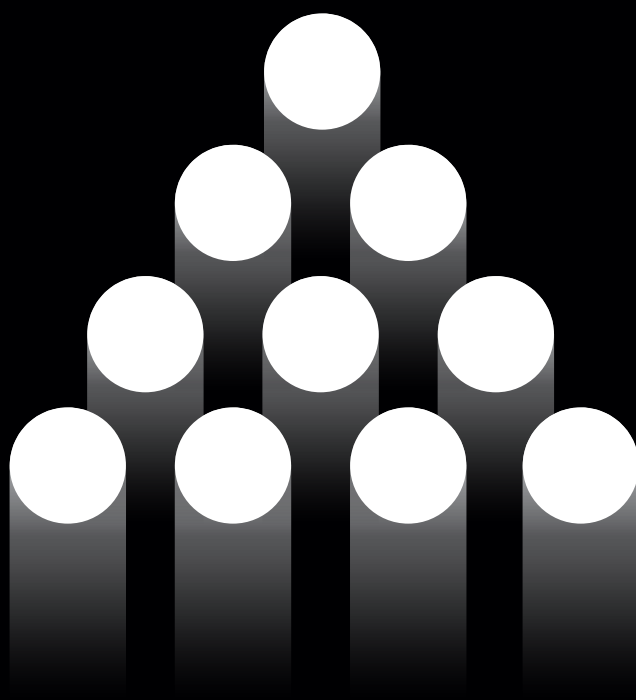
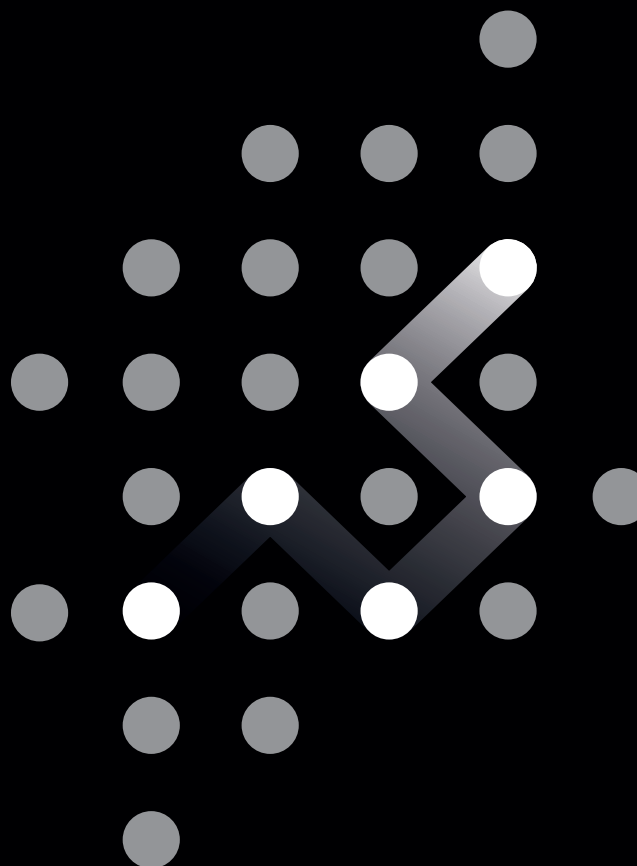


**A STEADY FOCUS
ON QUALITY**

Quality is a core value in all our activities. Such commitment is visible across all our operations and processes thanks to coordinated synergy among the company departments.

UNLIMITED CUSTOMISATION CAPABILITIES

We are capable of customising our standard designs down to the smallest detail as we can rely on extreme flexibility in personalisation. Each idea is embraced from its inception to the development phase and the final implementation to provide that extra distinguishing touch that makes the difference.



CONSTANT SUPPORT

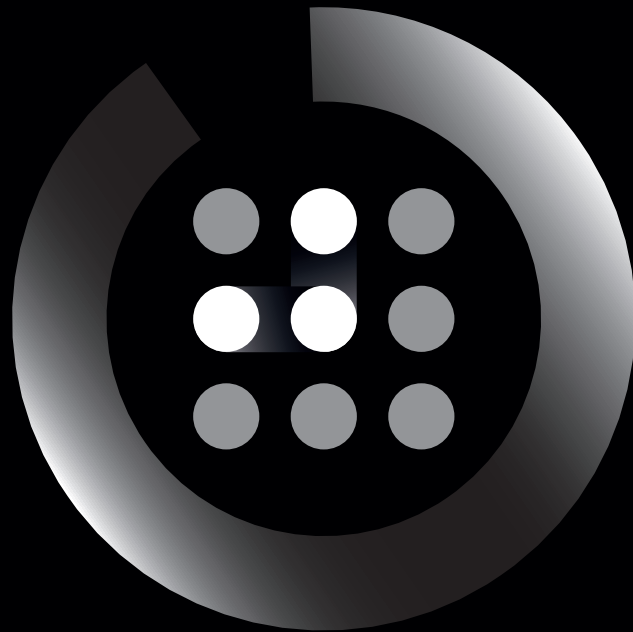
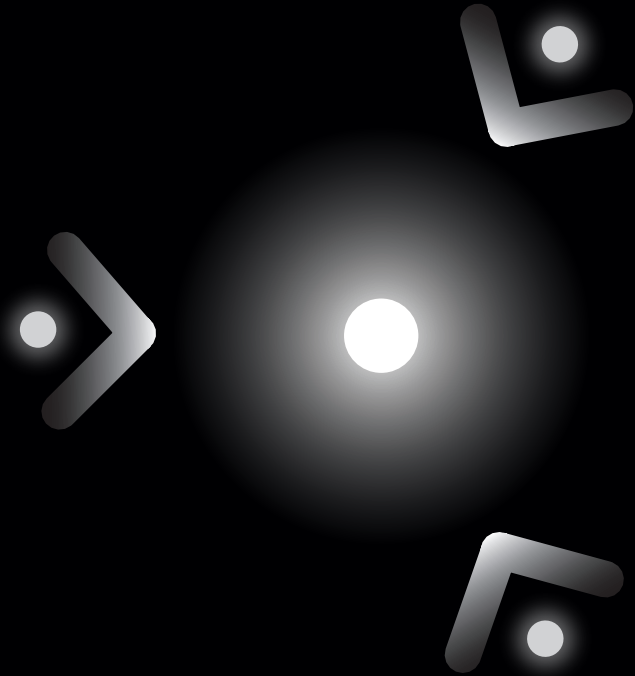
We do our best to make everything work out smoothly. Our customers can rely on comprehensive technical and commercial support for their peace of mind.

**WE ALWAYS STRIVE
TO BE THE PERFECT
PARTNER TO HELP YOU
ACHIEVE THE MOST
AUDACIOUS LIGHTING
CONCEPTS, TO TURN
YOUR CHALLENGING
IDEAS INTO REALITY,
TO MAKE YOUR
DREAMS COME TRUE.**

OUR STRENGTHS

POLAR EDITION

We can ensure optimal performance even under the most severe cold weather conditions, where ice and snow could prevent a product from functioning properly. Available for a wide selection of luminaires, the Polar Edition features an integrated de-icing system with electrically heated glass, ensuring proper operation even under the most severe cold weather conditions. A front glass de-icing system with electronic voltage supply management allows for instant light output and access to full power flux. Proper operation of the system is certified up to -40°C (-40°F).

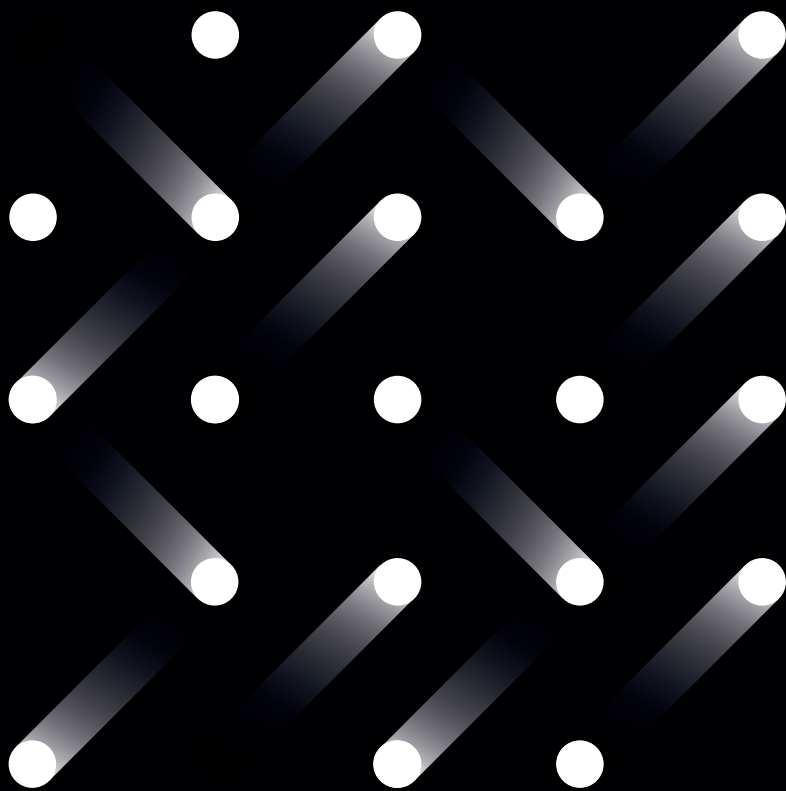
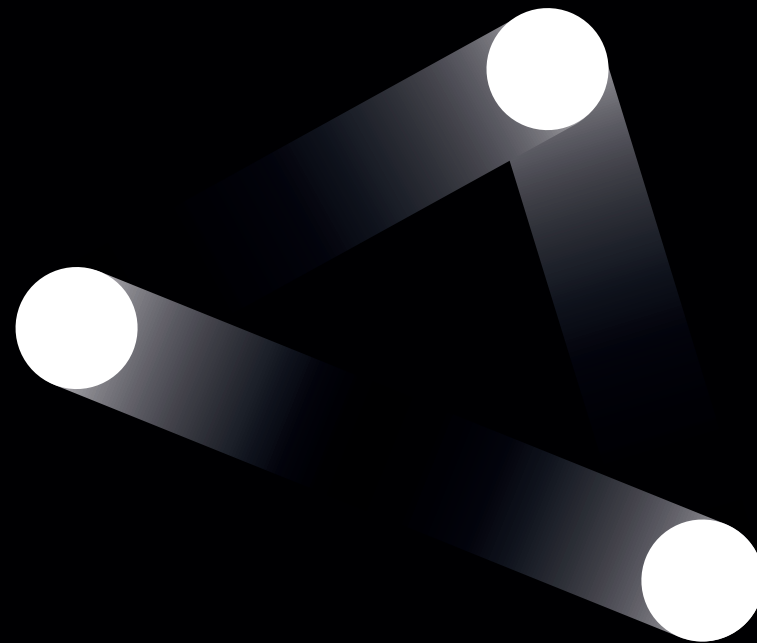


ELECTRONIC THERMAL MANAGEMENT

Active junction temperature internal monitoring enables to withstand the warmest exterior weather conditions and guarantees the most efficient heat dissipation for safety, performance, high lumen maintenance standards, and electronic components longevity. Proper operation of the system is certified up to 50°C (122°F).

**MAXIMUM CONTROL FLEXIBILITY
AND COMPATIBILITY**

The extensive compatibility assures maximum control flexibility with the industrial lighting management standards and optional data transmission via DMX, DALI, DALI DT8, or CASAMBI protocols, where RDM, integrated or separate wireless, self-addressing, or stand-alone modes are available options.



MULTICHIP LEDS TECHNOLOGY

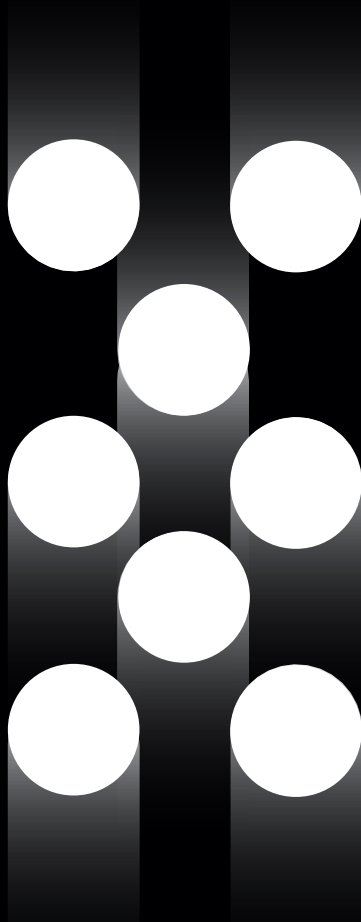
We rely on long-term know-how in the use of multichip LEDs. Our range of luminaires fitted with premium quality multichip LEDs can offer the required aesthetic appeal and chromatic adaptability to the most innovative lighting designers. The superior, uniform light distribution and smooth colour transitioning provided by these unrivalled fixtures further prove our unceasing attention to technological innovation.

**RELIABLE COLOUR
CONSISTENCY**

Our proven selection strategy allows our fixtures to maintain the highest levels of colour consistency and uniformity over time. We always purchase high-performing LEDs from strictly selected micro-bins to exceed traditional standards. According to our advanced selection procedure, both wavelength and luminous flux stay unchanged, assuring reliable colour consistency and uniformity essential for multi-phased or multi-product installations, project expansion, or product replacement.



OUR STRENGTHS



BRILLIANT ELECTRONIC FEATURES

Our luminaires can rely on a dynamic power modulation management, which ensures enhanced performance: automatic white light correction achieved via the electronic calibration of RGBW LEDs; a dedicated DMX channel to access white light fine-tuning pre-sets for dynamic white solutions, and active power modulation management to trigger maximum single-colour full intensity.

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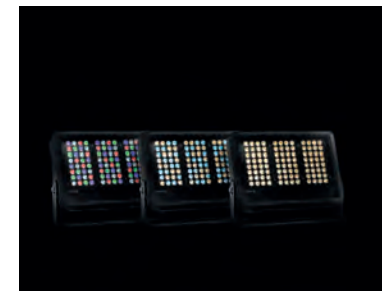
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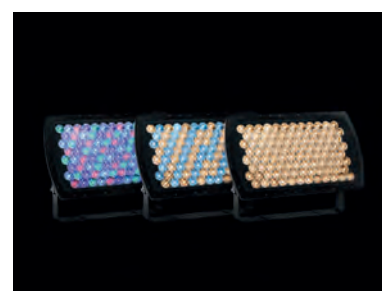
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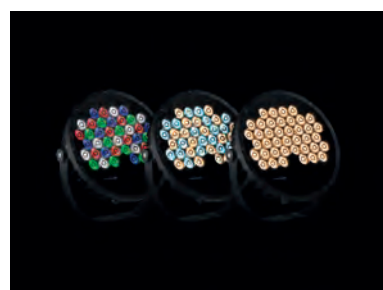
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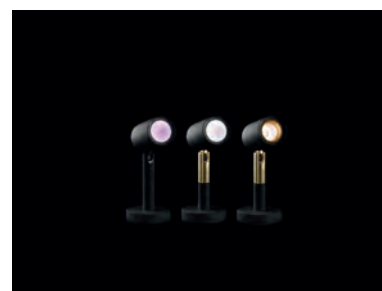
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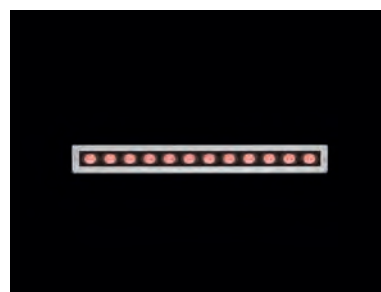


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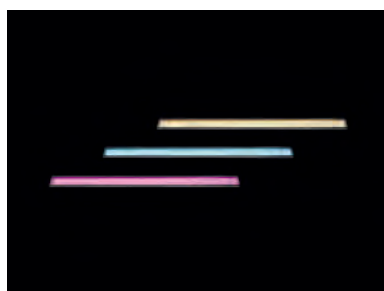
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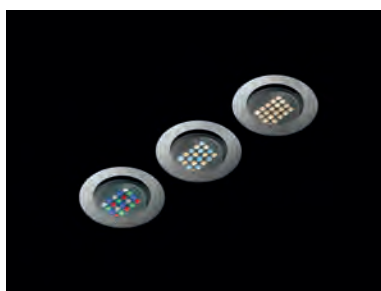


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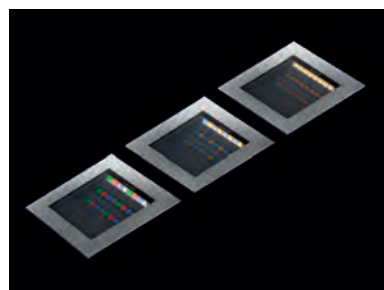
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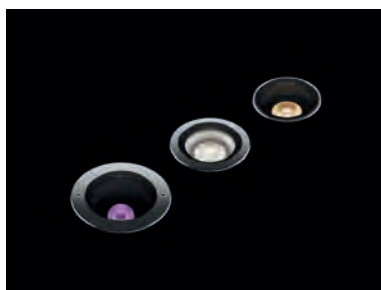
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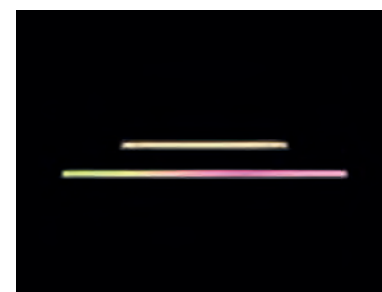
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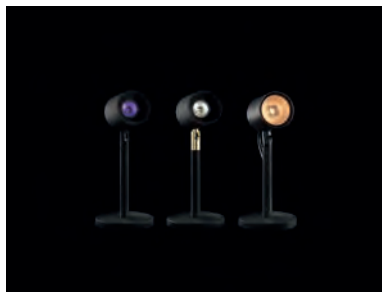


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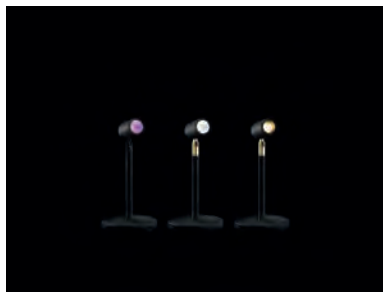
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FAÇADE LIGHTING

SQUARE

Our flagship product range boasts a strongly appealing design, supported by a clean shape and sleek profile, allowing for seamless integration in every architectural context. High power fixtures for striking output even at long distances, as well as more compact models for outstanding medium reach illumination, can be configured with multiple options for the utmost adaptability to different project prerequisites. The combination of premium class RGBW LEDs, featuring either 4000K or 3000K white, delivers the widest range of warm white shades and pastel tones assortment. Complementary solid or tunable white light and, on request, monochrome or multiple bespoke colour selection versions, further ensure maximum chromatic versatility.

Alternative MC configurations, using quad-colour LEDs for superior colour mixing directly at the lens, are a visually appealing solution capable of delivering a seamless light

distribution with a perfectly smooth colour transitioning, optimal colour consistency, and excellent dimming capability. A full selection of high build design optics offers the utmost efficiency, balanced projection and photometric flexibility.

The digital control via DMX512 protocol includes also stand-alone, Master-Slave, and Remote Device Management (RDM) functions. DALI and DALI DT8 control options are available for white light and RGBW/Dynamic White versions, respectively. Alternative solid white ON-OFF configurations, equipped with either integrated or remote PSU, are the ideal solution for those applications in need of a powerful light output without RDM/DMX functions. ETL certified versions as well as Polar Edition options have been developed for each model. The choice of numerous bespoke and standard finish colour options takes this remarkable range to a superior level.



CAPITAL 600



DESCRIPTION

Combining a minimal, neat design with brilliant performance capabilities, the CAPITAL 600 floodlight series is available with a vast choice of combinable optics, LED colour configurations, and finish options for maximum lighting design flexibility. Featuring full independent control of each LED bank, this double cluster luminaire allows absolute freedom to create impressive matching or divergent dynamic wall wash effects on large-scale façades, high-rise buildings, and remote spots with a surprising luminous output. Alternative ON-OFF white light versions available.

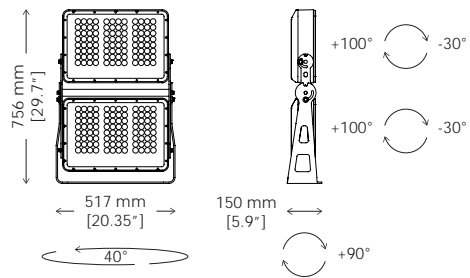
MAIN FEATURES

- Max. delivered lm output: 55860 lm / 98 lm/W
- Size: (HxWxD) 756x517x150 mm / 29.7x20.4x5.9"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, on-board or remote wireless data
- Double cluster floodlight with full independent control of each LED bank

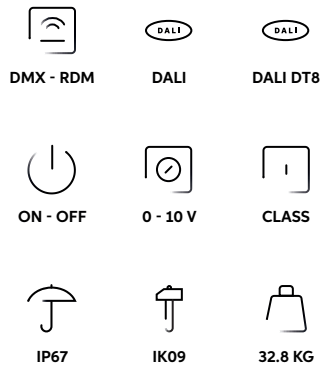
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CAPITAL 600



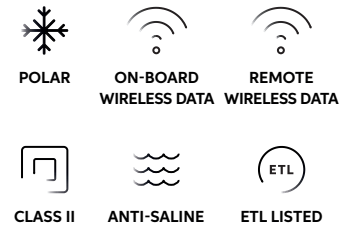
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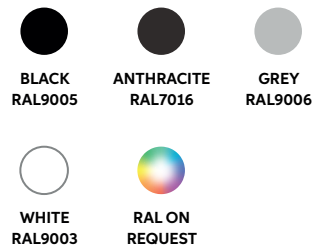
LED COLOUR CONFIGURATIONS



OPTIONS



FINISHES



MORE INFO



CODES

AL5020 CAPITAL 600
AL5022 CAPITAL 600 POLAR EDITION
AL5032 CAPITAL 600 B

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 600 RGBW	512	32402	63
CAPITAL 600 DW	570	55860	98
CAPITAL 600 W	570	55628	98
CAPITAL 600 B	440	42941	98

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	66°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	22° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 37°

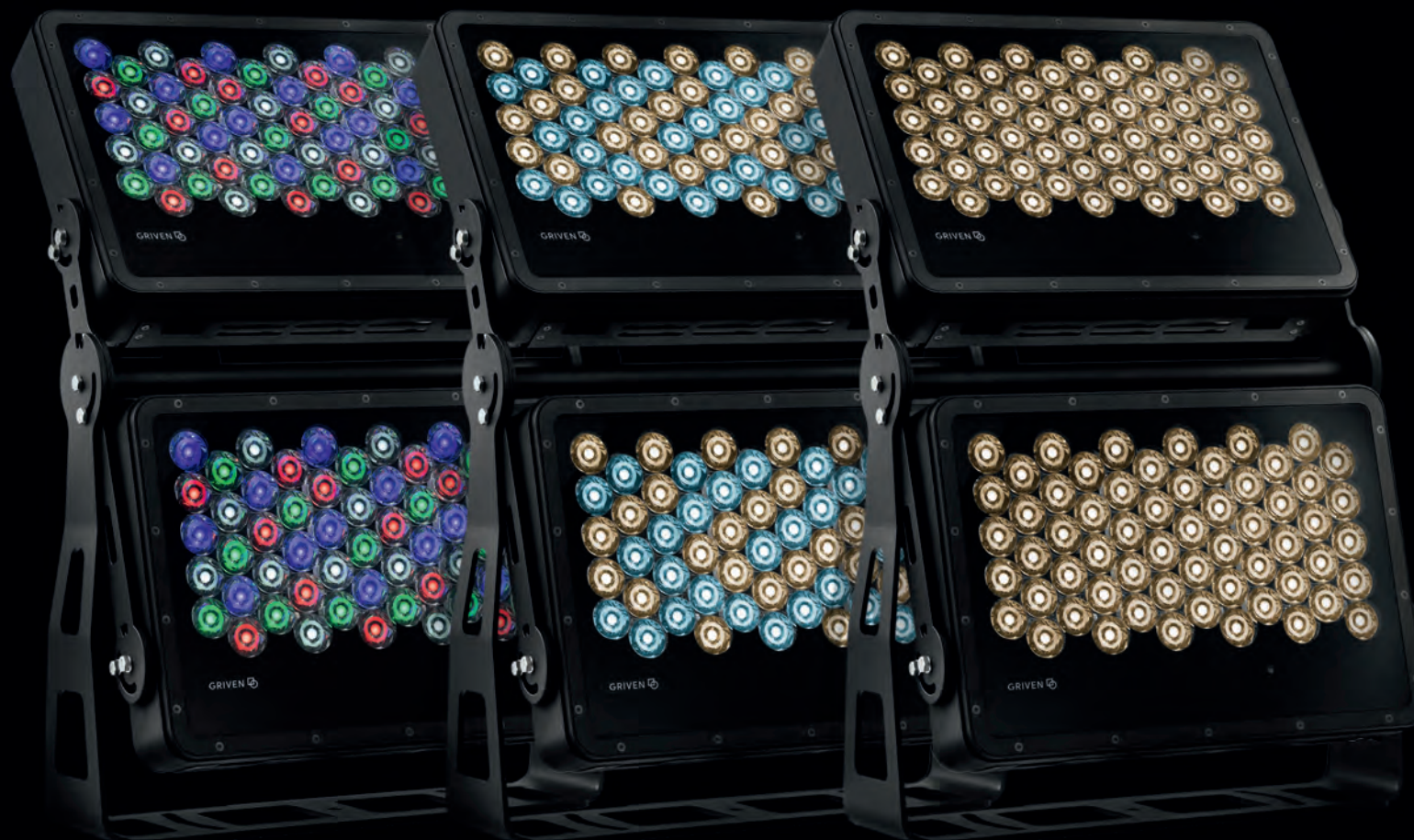


Russia – Crowne Plaza Hotel, Moscow



CAPITAL 600 US

CAPITAL 600 US



DESCRIPTION

Standing out for its extraordinary performance capabilities, CAPITAL 600 US features an ultra-spot, long-shot beam of light capable of reaching remarkable distances with accurate beam angle definition. The full independent control of each LED bank allows absolute freedom in the creation of impressive matching or divergent dynamic effects on previously unreachable and remote spots with a surprising luminous output.

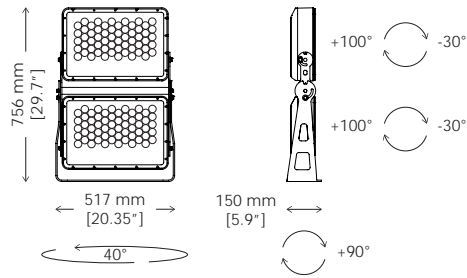
MAIN FEATURES

- Max. delivered lm output: 19422 lm / 62 lm/W
- Size: (HxWxD) 756x517x150 mm / 29.7x20.4x5.9"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Double cluster floodlight with full independent control of each LED bank fitted with ultra-spot, long-shot beam lenses

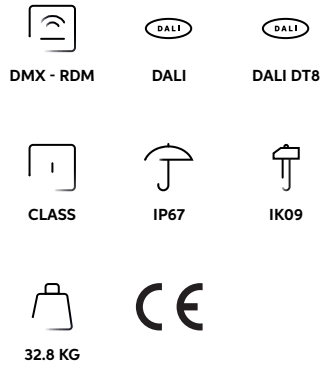
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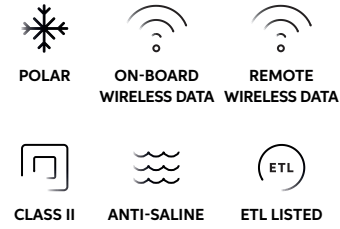
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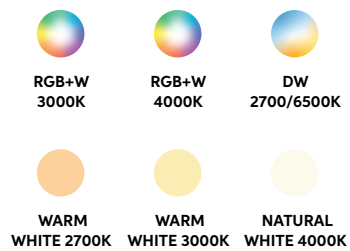
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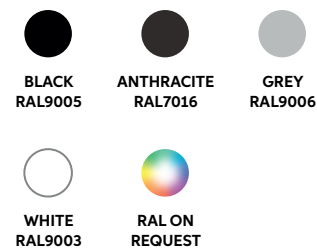
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LED COLOUR CONFIGURATIONS



FINISHES



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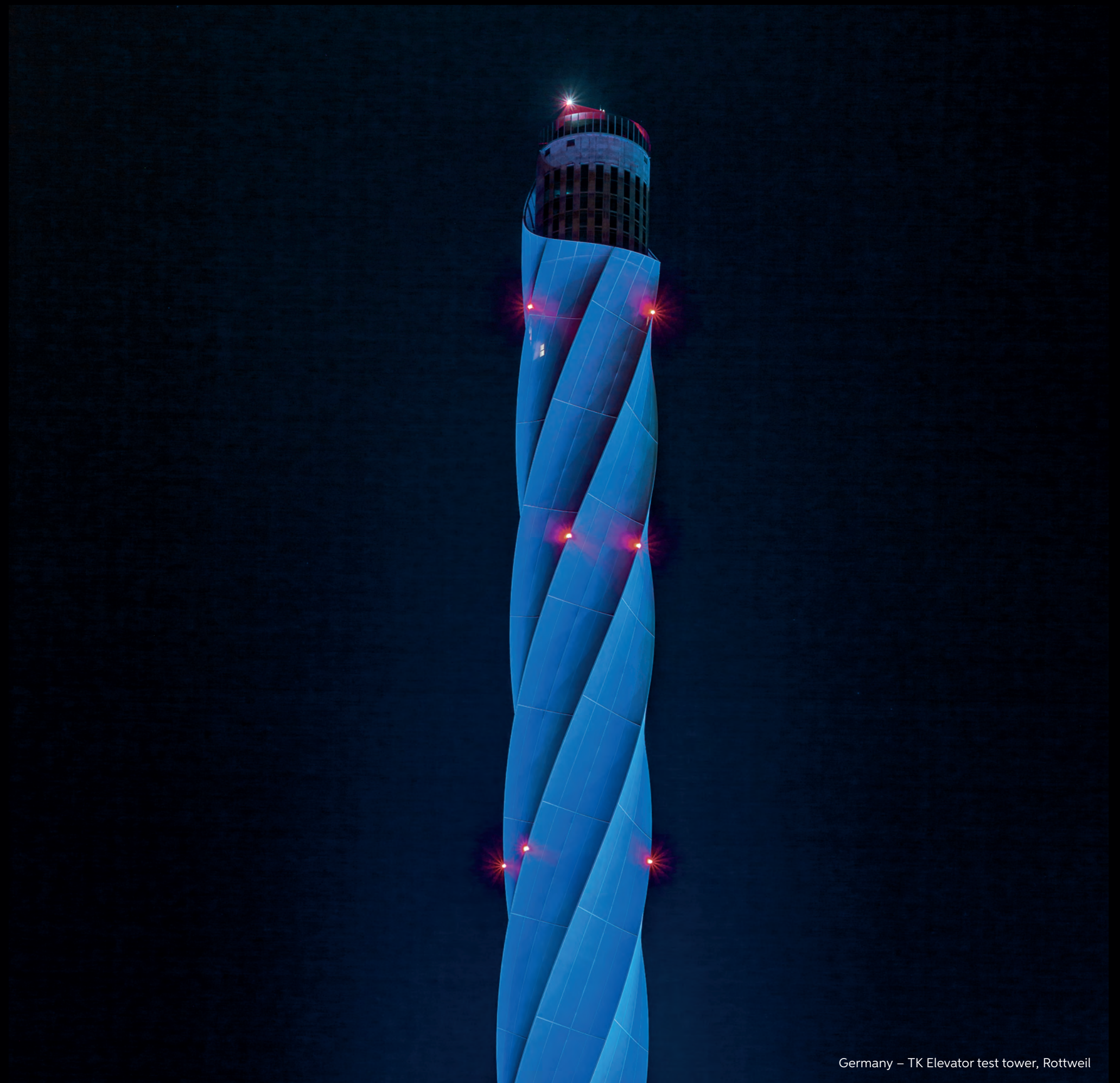


CODES

AL5024 CAPITAL 600 US
AL5025 CAPITAL 600 US POLAR EDITION

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 600 US RGBW	312	16934	54
CAPITAL 600 US DW	312	19422	62
CAPITAL 600 US W	312	19342	62

BEAM ANGLE REFERENCE	RGBW	DW/W
ULTRA SPOT	3.2°	3.2°



Germany – TK Elevator test tower, Rottweil



СИИ ТРИУМФАЛЬНЫЕ ВОРОТА
ЗАЛОЖЕНЫ В ЦЕЛЬ ВОСПОМИНИТЬ
ТОРЖЕСТВА РОССИЙСКИХ ВОЙНОВ В 1814 ГОДУ
И ВОЗРОЖДЕНИЯ ГОРОДА
ВЕЛИКОЛЕДНИХ ПАМЯТНИКОВ И ДИАНИИ
ПЕРВОПРЕСТОЛЬНОГО ГРАДА МОСКВЫ
РАЗРУШЕННОГО В 1912 ГОДУ НАВЕЩЕНЫМ ТАВРОМ
И С НИМИ ДВУНАДЕСЯТИ ЗАМКОВ

СБЕР

CAPITAL 600 MC

CAPITAL 600 MC



DESCRIPTION

Responding to the lighting designer's need for aesthetic appeal and chromatic adaptability, CAPITAL 600 MC features multichip LEDs, which enhance seamless light distribution and smooth colour transitioning. Featuring full independent control of each LED bank, this double cluster luminaire provides absolute freedom to create impressive matching or divergent dynamic effects on large-scale façades and high-rise buildings with a surprising luminous output.

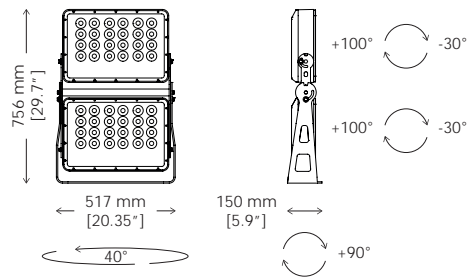
MAIN FEATURES

- Max. delivered lm output: 39149 lm / 81 lm/W
- Size: (HxWxD) 756x517x150 mm / 29.7x20.4x5.9"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Double cluster floodlight with full independent control of each LED bank fitted with multichip LEDs

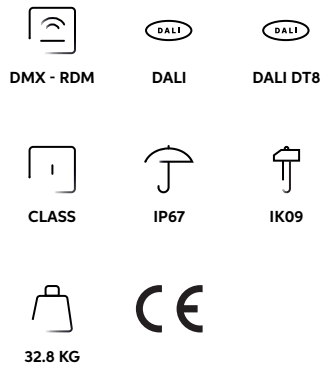
LED COLOUR CONFIGURATIONS



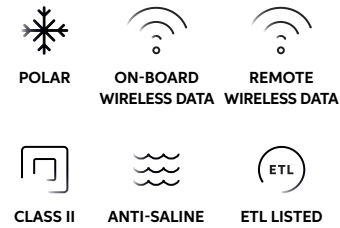
CAPITAL 600 MC



FEATURES



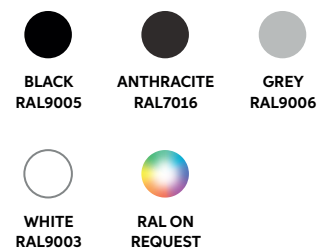
OPTIONS



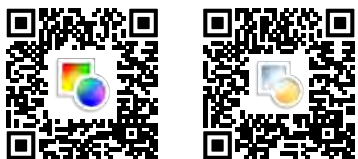
LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5021 CAPITAL 600 MC
AL5023 CAPITAL 600 MC POLAR EDITION

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 600 MC RGBW	482	22244	46
CAPITAL 600 MC DW	482	39149	81

BEAM ANGLE REFERENCE	RGBW	DW
SPOT	8°	8°
NARROW	10°	10°
MEDIUM	25°	25°
WIDE	37°	37°



Russia – Triumphal Arch, Moscow



CAPITAL 300



DESCRIPTION

Featuring an elegant, stylish design and a sleek profile, which allow a seamless integration in every architectural environment, CAPITAL 300 is the ideal solution for the dramatic illumination of large-scale façades and high-rise buildings calling for high impact lighting. With an industry leading high lumen package, this luminaire effectively achieves desired goals, ranging from wall washing applications to architectural elements distinctive enhancement. Alternative ON-OFF white light versions available.

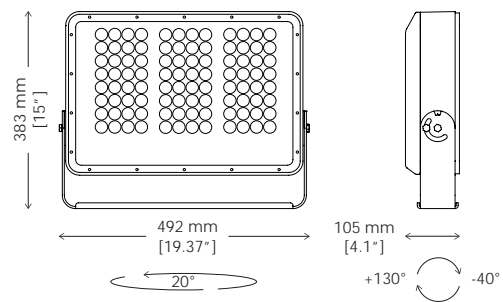
MAIN FEATURES

- Max. delivered lm output: 27930 lm / 98 lm/W
- Size: (HxWxD) 383x492x105 mm / 15x19.4x4.1"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, on-board or remote wireless data
- Powerful floodlight specific for dramatic wall wash effects on large scale façades and high-rise buildings

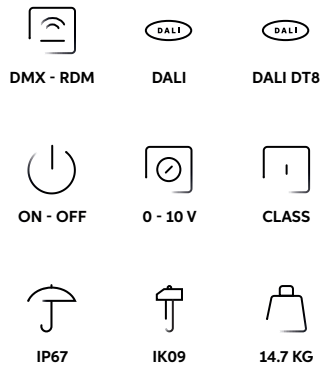
LED COLOUR CONFIGURATIONS



CAPITAL 300



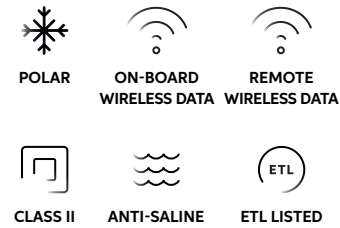
FEATURES



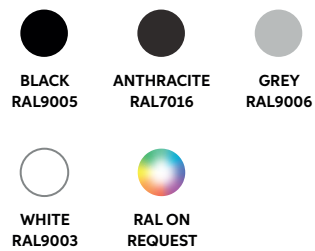
LED COLOUR CONFIGURATIONS



OPTIONS



FINISHES



MORE INFO



CODES

AL5014 CAPITAL 300
AL5015 CAPITAL 300 POLAR EDITION
AL5034 CAPITAL 300 B

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 300 RGBW	256	16201	63
CAPITAL 300 DW	285	27930	98
CAPITAL 300 W	285	27814	98
CAPITAL 300 B	220	21470	98

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	66°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	22° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 37°



South Korea – Ourhome H.Q., Seoul



CAPITAL 300 US

CAPITAL 300 US



DESCRIPTION

Combining a minimal, neat design with brilliant performance capabilities, CAPITAL 300 US features an ultra-spot, long-shot beam of light capable of reaching remarkable distances with accurate beam angle definition. It is the ideal solution for an impressive illumination of high-rise buildings calling for a well-defined impact lighting.

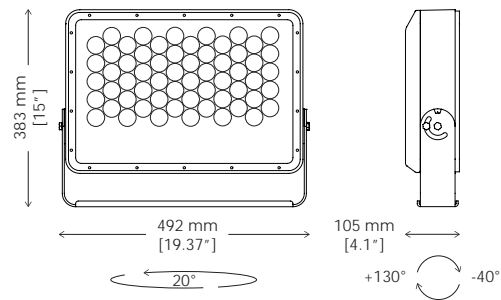
MAIN FEATURES

- Max. delivered lm output: 9711 lm / 62 lm/W
- Size: (HxWxD) 383x492x105 mm / 15x19.4x4.1"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Powerful floodlight fitted with efficient ultra-spot optics for long-shot effects at remarkable distances with accurate beam angle definition

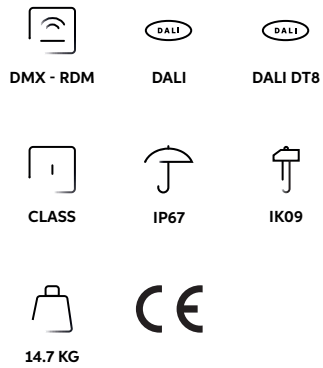
LED COLOUR CONFIGURATIONS



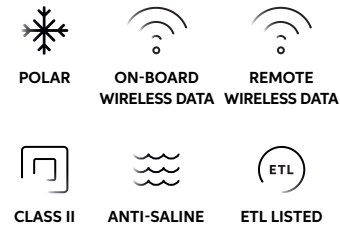
CAPITAL 300 US



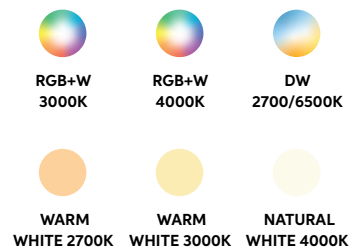
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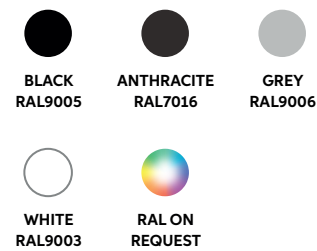
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5014 CAPITAL 300 US
AL5015 CAPITAL 300 US POLAR EDITION

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 300 US RGBW	156	8467	54
CAPITAL 300 US DW	156	9711	62
CAPITAL 300 US W	156	9671	62

BEAM ANGLE REFERENCE	RGBW	DW/W
ULTRA SPOT	3.2°	3.2°



Morocco – Noor Tower, Ourzazate



CAPITAL 300 MC

CAPITAL 300 MC



DESCRIPTION

With an elegant, stylish shape and a sleek profile, which allow a seamless integration in every architectural environment, CAPITAL 300 MC is the ideal solution for the dramatic illumination of large-scale façades and high-rise buildings calling for high impact floodlighting. Responding to the lighting designer's need for aesthetic appeal and chromatic adaptability, CAPITAL 300 MC features multichip LEDs, which enhance seamless light distribution and smooth colour transitioning.

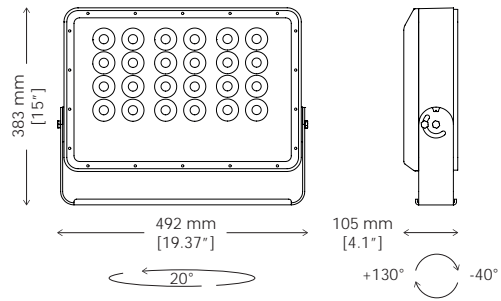
MAIN FEATURES

- Max. delivered lm output: 19569 lm / 81 lm/W
- Size: (HxWxD) 383x492x105 mm / 15x19.4x4.1"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Powerful floodlight fitted with multichip LEDs

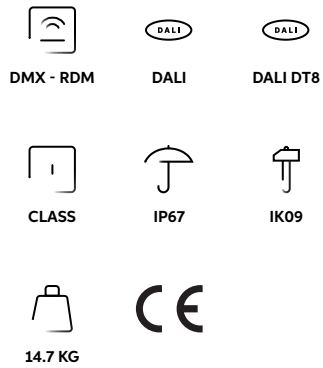
LED COLOUR CONFIGURATIONS



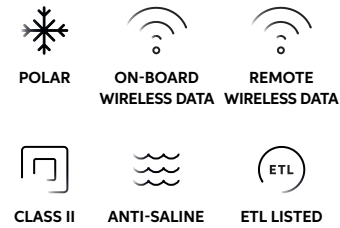
CAPITAL 300 MC



FEATURES



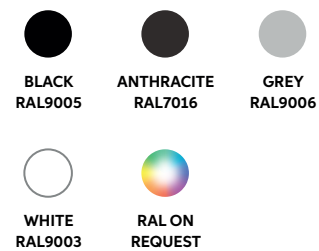
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO

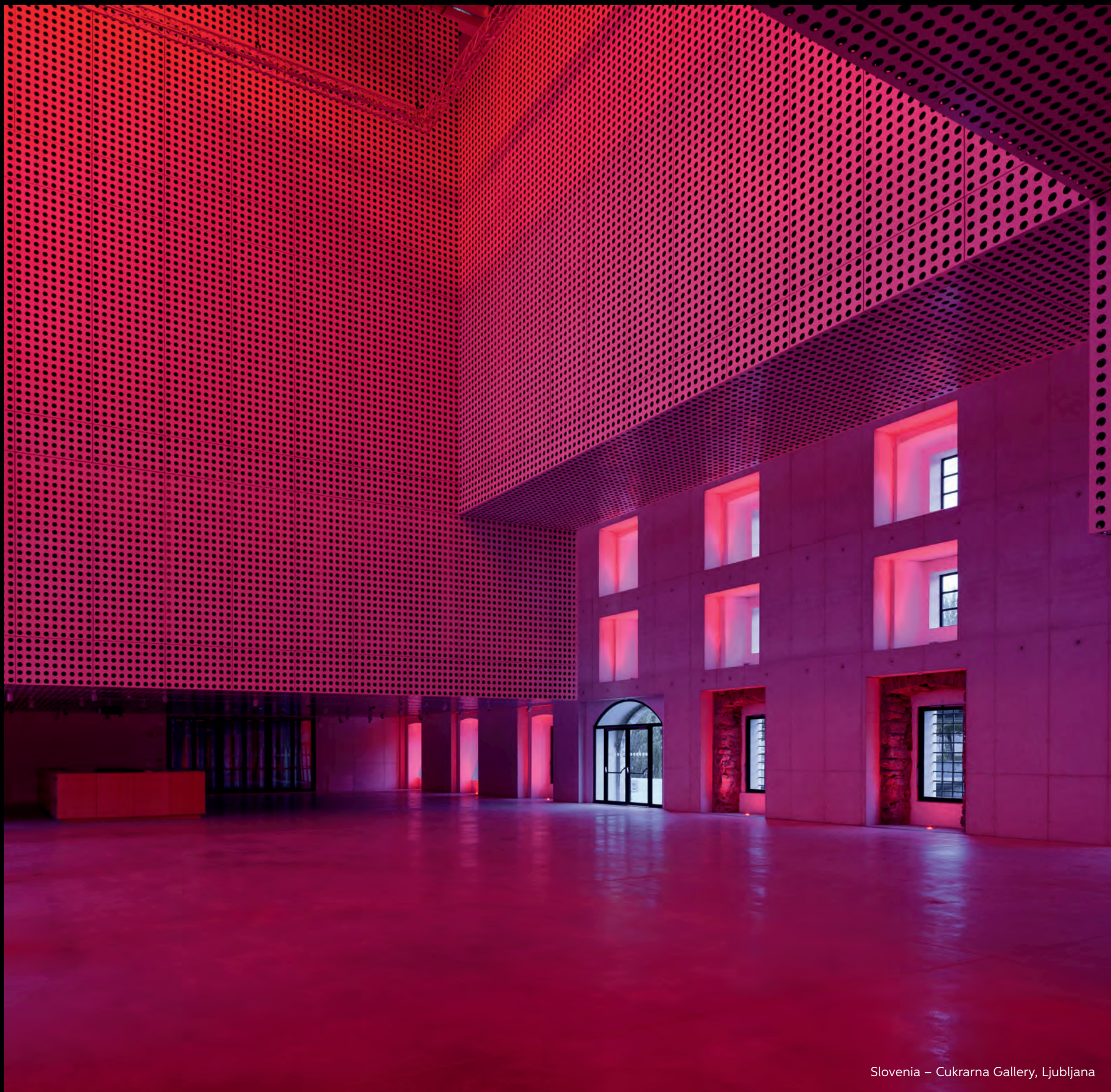


CODES

AL5016 CAPITAL 300 MC
AL5017 CAPITAL 300 MC POLAR EDITION

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 300 MC RGBW	241	11122	46
CAPITAL 300 MC DW	241	19569	81

BEAM ANGLE REFERENCE	RGBW	DW
SPOT	8°	8°
NARROW	10°	10°
MEDIUM	25°	25°
WIDE	37°	37°



Slovenia – Cukrarna Gallery, Ljubljana



CAPITAL 200



DESCRIPTION

Allowing smooth blending in every architectural background through its modern design and extremely sleek profile, CAPITAL 200 delivers a powerful output from a compact body with outstanding performances. Fitted with a variety of optional high build and design optics groups for the utmost optical efficiency, this versatile floodlight also assures balanced projection and photometric flexibility tailored to the selective demands of the most sophisticated architectural needs. Alternative ON-OFF white light versions available.

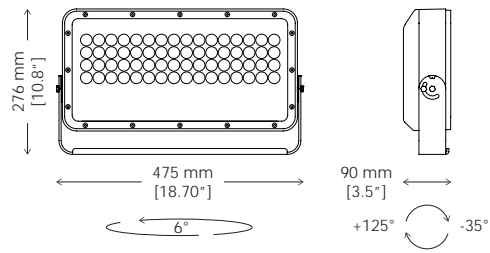
MAIN FEATURES

- Max. delivered lm output: 16438 lm / 111 lm/W
- Size: (HxWxD) 276x475x90 mm / 10.8x18.7x3.5"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, on-board or remote wireless data
- Medium-sized floodlight specific for wall wash effects on diverse architectural elements

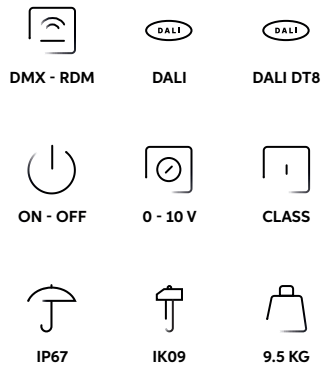
LED COLOUR CONFIGURATIONS



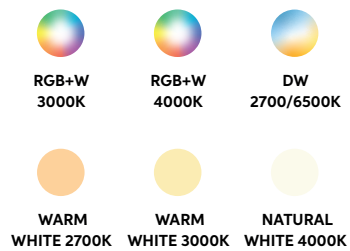
CAPITAL 200



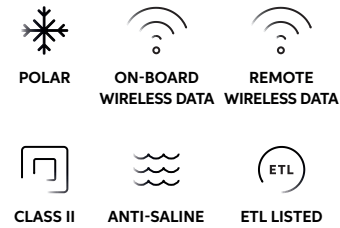
FEATURES



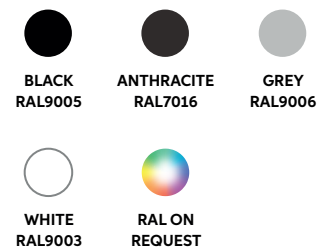
LED COLOUR CONFIGURATIONS



OPTIONS



FINISHES



MORE INFO



CODES

AL5010 CAPITAL 200
AL5012 CAPITAL 200 POLAR EDITION
AL5036 CAPITAL 200 B

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 200 RGBW	155	11195	72
CAPITAL 200 DW	148	16438	111
CAPITAL 200 W	148	16370	111
CAPITAL 200 B	148	16370	111

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	66°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	22° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 37°



Hungary – Puskás Arena, Budapest



CAPITAL 200 US



DESCRIPTION

Owing to efficient ultra-narrow optics, CAPITAL 200 US delivers a supremely remarkable output with outstanding performances at long distances from a compact body. Its modern design and extremely sleek profile allow smooth blending in every architectural background making it the ideal solution for medium to large installations requiring discreet but powerful luminaires.

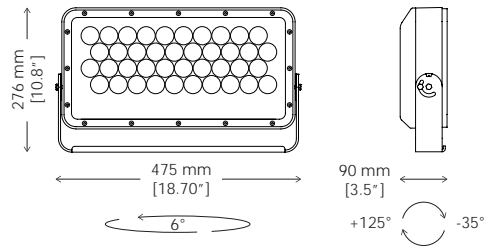
MAIN FEATURES

- Max. delivered lumen output: 6599 lm / 62 lm/W
- Size: (HxWxD) 276x475x90 mm / 10.8x18.7x3.5"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Medium-sized floodlight featuring efficient ultra-spot optics for long-shot effects with accurate beam angle definition

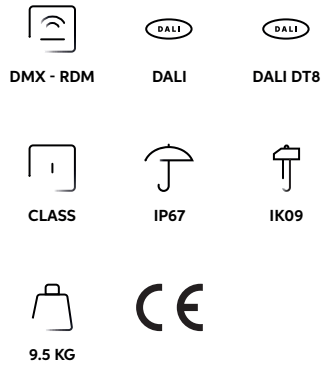
LED COLOUR CONFIGURATIONS



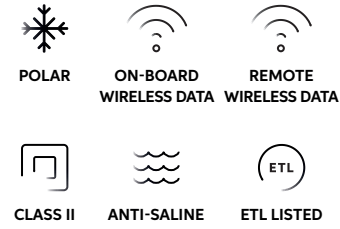
CAPITAL 200 US



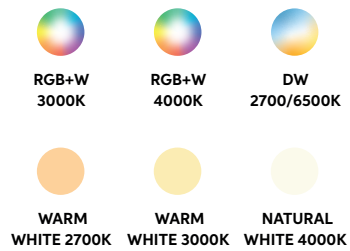
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5010 CAPITAL 200 US
AL5012 CAPITAL 200 US POLAR EDITION

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 200 US RGBW	106	5735	54
CAPITAL 200 US DW	106	6599	62
CAPITAL 200 US W	106	6572	62

BEAM ANGLE REFERENCE	RGBW	DW/W
ULTRA SPOT	3.2°	3.2°



Mexico – Metropolitan Cathedral, Mexico City



CAPITAL 200 MC



DESCRIPTION

Responding to aesthetic appeal and chromatic adaptability criteria, CAPITAL 200 MC features multichip LEDs, which enhance seamless light distribution and smooth colour transitioning. Allowing a perfect blending in every architectural background through its eye-catching design and extremely sleek profile, CAPITAL 200 MC delivers a powerful output from a compact body with outstanding performances.

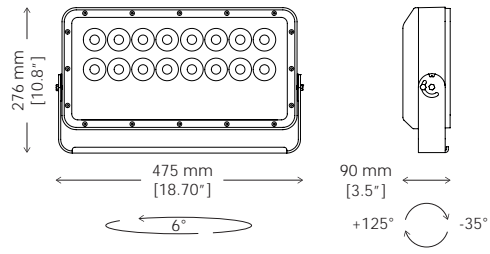
MAIN FEATURES

- Max. delivered lm output: 12099 lm / 81 lm/W
- Size: (HxWxD) 276x475x90 mm / 10.8x18.7x3.5"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Medium-sized floodlight fitted with multichip LEDs

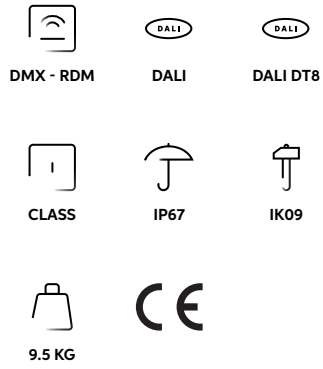
LED COLOUR CONFIGURATIONS



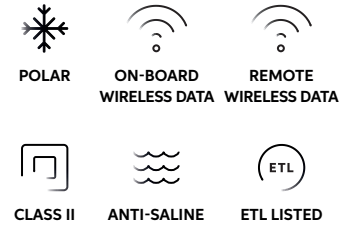
CAPITAL 200 MC



FEATURES



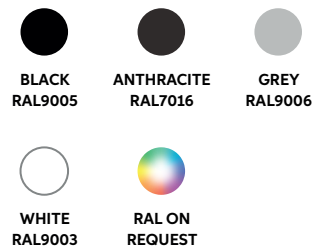
OPTIONS



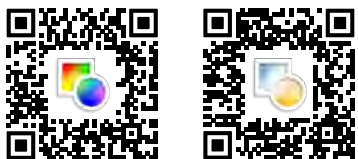
LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5011 CAPITAL 200 MC
AL5013 CAPITAL 200 MC POLAR EDITION

PERFORMANCE

	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 200 MC RGBW	149	6876	46
CAPITAL 200 MC DW	149	12099	81

BEAM ANGLE REFERENCE

	RGBW	DW
SPOT	8°	8°
NARROW	10°	10°
MEDIUM	25°	25°
WIDE	37°	37°



Ecuador – Cathedral of the Immaculate Conception, Cuenca



CAPITAL 100



DESCRIPTION

Hosting 32 premium quality high power LEDs, CAPITAL 100 delivers remarkable performances from a strikingly compact body. Tailored to the demanding needs of the most imaginative architectural lighting specifications, this flexible and highly versatile floodlight is suitable for a variety of installations where a reduced mounting space leaves no wide choice to the most innovative lighting designers. Alternative ON-OFF white light versions available.

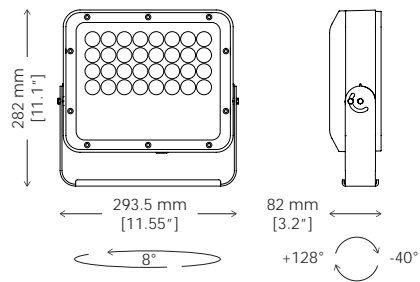
MAIN FEATURES

- Max. delivered lm output: 8168 lm / 106 lm/W
- Size: (HxWxD) 282x293.5x82 mm / 11.1x11.5x3.2"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, on-board or remote wireless data
- Compact floodlight specific for wall wash effects on diverse architectural elements

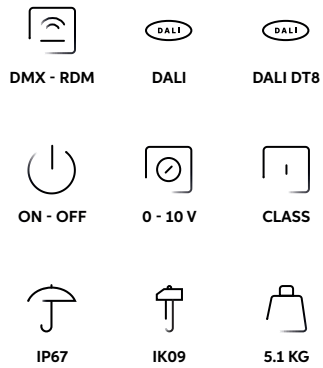
LED COLOUR CONFIGURATIONS



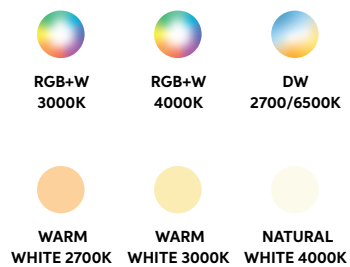
CAPITAL 100



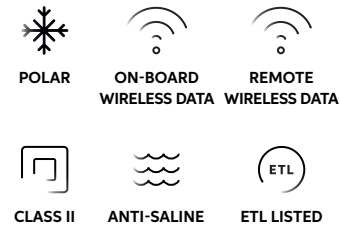
FEATURES



LED COLOUR CONFIGURATIONS



OPTIONS



FINISHES



MORE INFO



CODES

AL5005 CAPITAL 100
AL5007 CAPITAL 100 POLAR EDITION
AL5038 CAPITAL 100 B

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 100 RGBW	73	5198	71
CAPITAL 100 DW	69	7349	107
CAPITAL 100 W	69	7319	106
CAPITAL 100 B	77	8168	106

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	66°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	22° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 37°



Vietnam – Dam Vac Bridge, Vinh Yen



CAPITAL 100 US



DESCRIPTION

Fitted with ultra-spot optics, CAPITAL 100 US delivers remarkable performances at medium to long distances from an extremely compact body. Tailored to the demanding needs of the most imaginative architectural lighting specifications, this flexible and highly versatile floodlight is suitable for a variety of installations with reduced mounting space requiring long-shot performance.

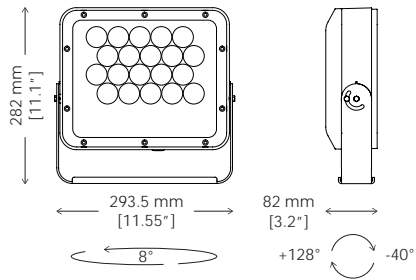
MAIN FEATURES

- Max. delivered lumen output: 2950 lm / 56 lm/W
- Size: (HxWxD) 282x293.5x82 mm / 11.1x11.5x3.2"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Compact floodlight featuring efficient ultra-spot optics for long-shot effects with accurate beam angle definition

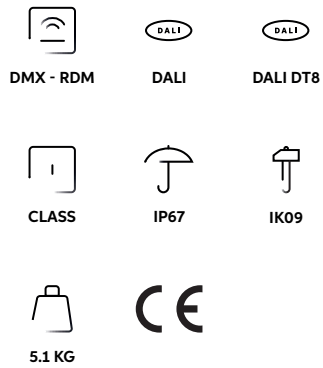
LED COLOUR CONFIGURATIONS



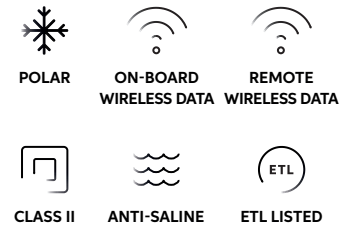
CAPITAL 100 US



FEATURES



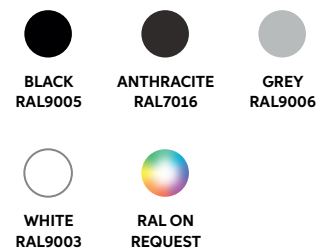
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5005 CAPITAL 100 US
AL5007 CAPITAL 100 US POLAR EDITION

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 100 US RGBW	53	2790	53
CAPITAL 100 US DW	53	2950	56
CAPITAL 100 US W	53	2938	55

BEAM ANGLE REFERENCE	RGBW	DW/W
ULTRA SPOT	3.2°	3.2°



Sweden – Björkbornsbron Bridge, Karlskoga



CAPITAL 100 MC

CAPITAL 100 MC



DESCRIPTION

Featuring an extremely compact body, CAPITAL 100 MC complies with the most current architectural lighting specifications. Responding to aesthetic appeal and chromatic adaptability criteria, CAPITAL 100 MC features multichip LEDs, which enhance seamless light distribution and smooth colour transitioning. This flexible and highly versatile floodlight is suitable for a variety of installations requiring outstanding medium-reach illumination, where a reduced mounting space leaves no wide choice to the most innovative lighting designers.

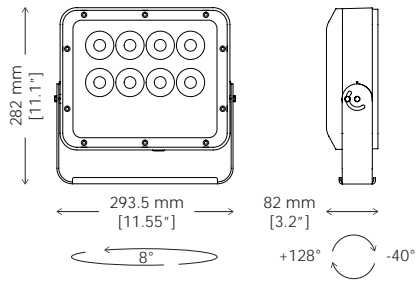
MAIN FEATURES

- Max. delivered lm output: 5522 lm / 81 lm/W
- Size: (HxWxD) 282x293.5x82 mm / 11.1x11.5x3.2"
- Control system: DMX-RDM, DALI DT8, DALI, on-board or remote wireless data
- Compact floodlight fitted with multichip LEDs

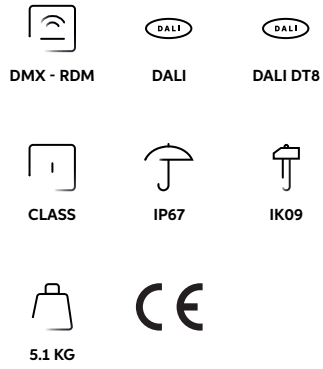
LED COLOUR CONFIGURATIONS



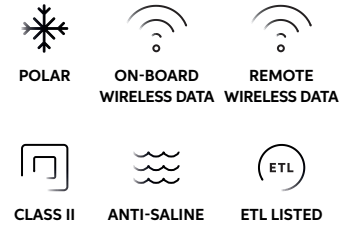
CAPITAL 100 MC



FEATURES



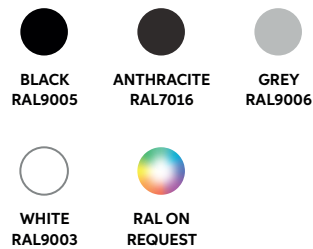
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5006 CAPITAL 100 MC
AL5008 CAPITAL 100 MC POLAR EDITION

PERFORMANCE

	WATT	MAX LM OUTPUT	LM/WATT
CAPITAL 100 MC RGBW	68	3138	46
CAPITAL 100 MC DW	68	5522	81

BEAM ANGLE REFERENCE

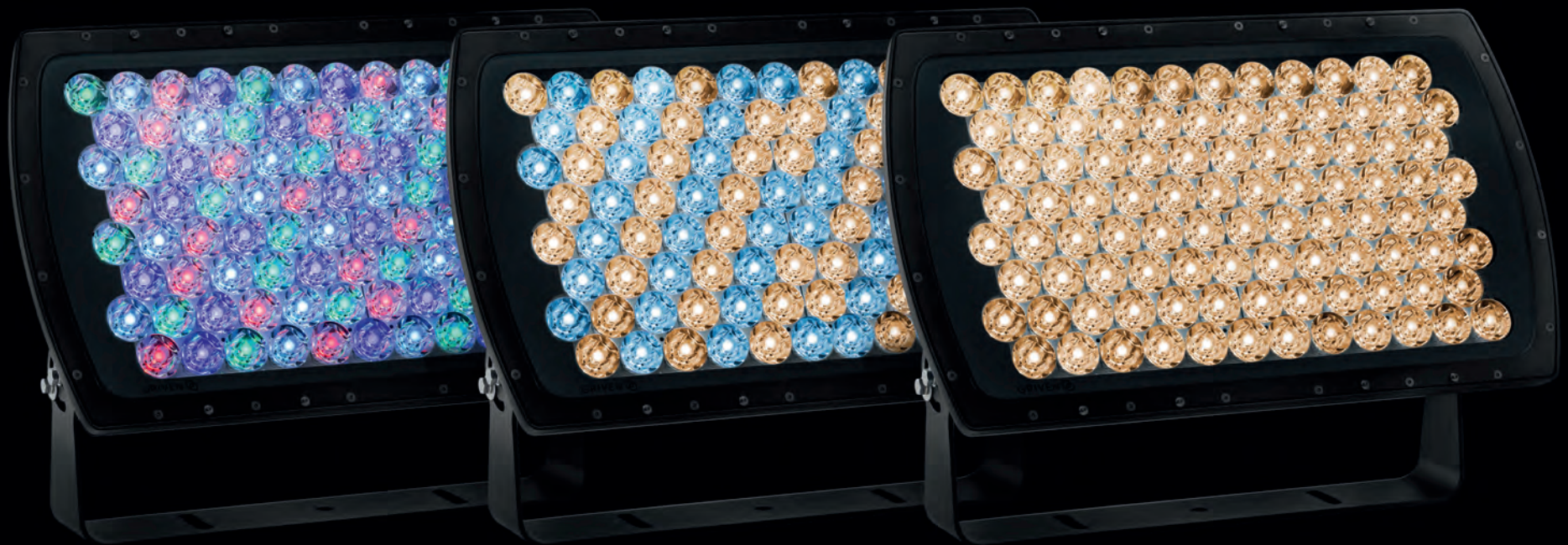
	RGBW	DW
SPOT	8°	8°
NARROW	10°	10°
MEDIUM	25°	25°
WIDE	37°	37°



Italy – Michelangelo's David Replica, Florence



ONYX XQ



DESCRIPTION

Specific for architectural projects demanding impressive though sustainable lighting performance, ONYX XQ features an incomparably functional, ultra-spot, sharp, long-shot beam of light capable of reaching previously unthinkable distances with amazing precision and even light distribution.

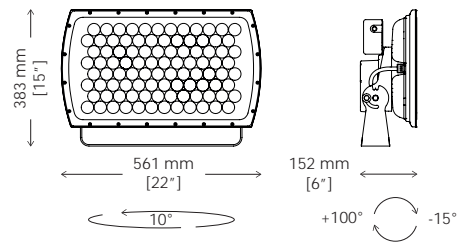
MAIN FEATURES

- Max. delivered lm output: 20952 lm / 73 lm/W
- Size: (HxWxD) 383x561x152 mm / 15x22x6"
- Control system: DMX-RDM, remote wireless data
- Powerful floodlight featuring ultra-spot, sharp, long-shot beam of light for impressive lighting performance on high-rise buildings

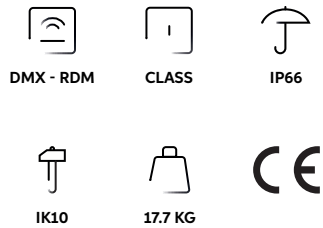
LED COLOUR CONFIGURATIONS



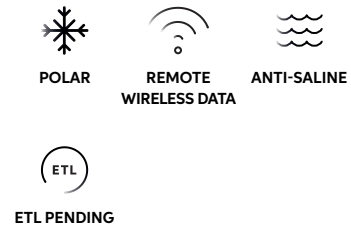
ONYX XQ



FEATURES



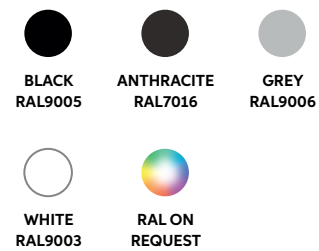
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL4436 ONYX XQ

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
ONYX XQ RGBW	286	13781	48
ONYX XQ DW	286	19553	68
ONYX XQ W	286	20952	73

BEAM ANGLE REFERENCE	RGBW	DW/W
ULTRA SPOT	3.2°	3.2°



South Korea – Osstem Implant, Seoul



FAÇADE LIGHTING

ROUND

Featuring brand new design, performance, and application field, this comprehensive range of round shaped LED fixtures successfully meets the most urgent aesthetic prerequisites and functional needs of the international lighting community. Its strongly appealing design, supported by clean shape, minimal layout, and slim profile, easily supports a seamless integration in every architectural and landscape lighting context. High power fixtures for striking output even at long distances, along with more compact models for outstanding illumination at medium reach, as well as smaller luminaires for refined accent lighting effects, can be configured with multiple options for the utmost adaptability to different project prerequisites.

The combination of premium class RGBW LEDs, featuring either 4000K or 3000K white, delivers the widest range of warm white shades and pastel tones assortment. Complementary solid or tunable white light and, on request, monochrome or multiple bespoke colour selection versions, further ensure maximum chromatic adaptability. Alternative

MC configurations, using quad-colour LEDs for superior colour mixing directly at the lens, are a visually appealing solution capable of delivering a seamless light distribution with perfectly smooth colour transitioning, optimal colour consistency, and excellent dimming capability. A full selection of high build design optics offers the utmost efficiency, balanced projection and photometric flexibility.

The digital control via DMX512 protocol includes also stand-alone, Master-Slave, and RDM functions. DALI and DALI DT8 control options are available for white light and RGBW/DW versions, respectively. Alternative solid white ON-OFF versions, equipped with either integrated or remote PSU, are the ideal solution for those applications in need of a powerful light output without RDM/DMX functions. ETL certified versions as well as Polar Edition options have been developed for almost every model of this groundbreaking series. The choice of numerous bespoke and standard finish colour options takes this remarkable range to a superior level.



FLORIDA HOTEL

JASPER MK2



DESCRIPTION

Ideal for spot or flood lighting of building façades or large-scale architectural structures, JASPER MK2 features a restyled chassis and hybrid cables to provide ease of installation, user-friendliness and clean setting-up. Delivering high level performances with a reduced power consumption, this stylish fixture meets the latest design requirements and aesthetical prerequisites demanding for powerful and efficient lighting solutions.

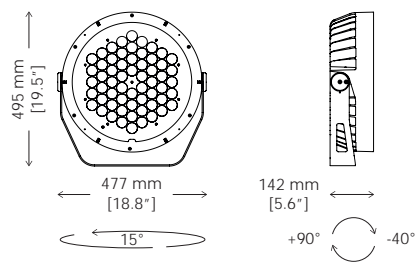
MAIN FEATURES

- Max. delivered lm output: 20479 lm / 105 lm/W
- Size: (HxWxD) 495x477x142 mm / 19.5x18.8x5.6"
- Control system: DMX-RDM, remote wireless data
- Ideal for spot or flood lighting of building façades or large-scale architectural structures

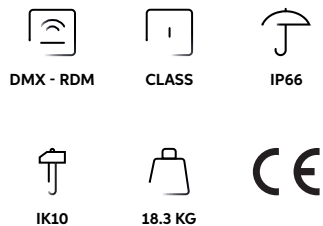
LED COLOUR CONFIGURATIONS



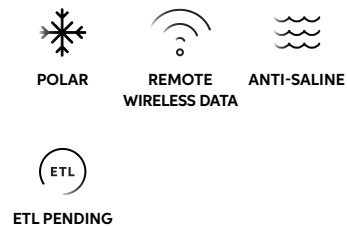
JASPER MK2



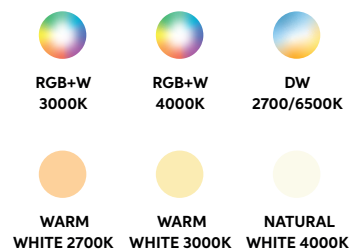
FEATURES



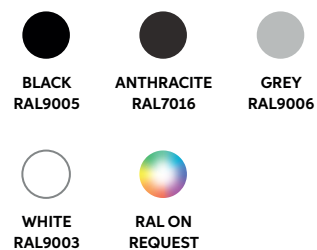
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5400 JASPER MK2

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
JASPER MK2 RGBW	195	9029	46
JASPER MK2 DW	195	20479	105
JASPER MK2 W	195	19250	99

BEAM ANGLE REFERENCE	RGBW	DW/W
ULTRA SPOT	4°	7°
SPOT	9°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	43°	47°
EXTRA WIDE	69°	61°
ULTRA WIDE	125°	125°
ELLIPTICAL	11° x 41°	14° x 39°
ELLIPTICAL WIDE	22° x 39°	23° x 37°



USA – Florida Hotel & Conference Center, Orlando FL

EMPIRE

EMPIRE



MARS



DESCRIPTION

Superbly blending into every architectural background through its appealing design and extremely thin profile, MARS allows outstanding performance from an elegant, compact body. Responding to demanding aesthetic and functional needs, this versatile medium-throw floodlight assures balanced projection and photometric flexibility for medium-sized architectural and landscape lighting installations. The alternative ON-OFF white light versions, equipped with either integrated or remote PSU, are the ideal solution for those applications in need of a powerful light output without RDM/DMX functions.

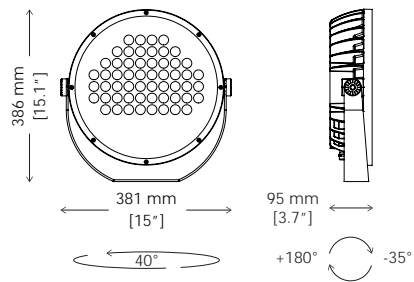
MAIN FEATURES

- Max. delivered lm output: 10440 lm / 111 lm/W
- Size: (HxWxD) 386x381x95 mm / 15.1x15x3.7"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, remote wireless data
- Medium-throw floodlight for medium-sized architectural and landscape lighting installations

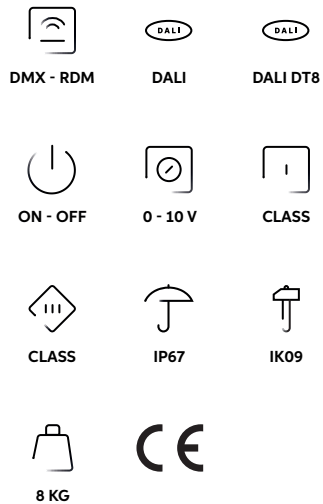
LED COLOUR CONFIGURATIONS



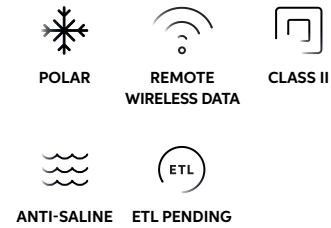
MARS



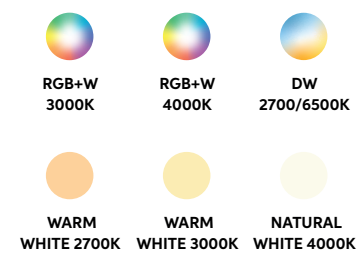
FEATURES



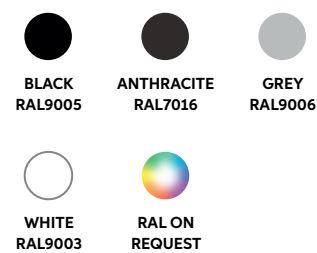
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL8020 MARS
AL8022 MARS B

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MARS RGBW	94	6789	72
MARS DW	94	10440	111
MARS W	94	9971	106
MARS B W	94	9964	106

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	66°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	22° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 37°



Australia – Empire Theatre, Toowoomba



MARS US



DESCRIPTION

Delivering a remarkable output with outstanding performance at medium distances, MARS US relies upon an efficient ultra-narrow optics to highlight high buildings and large façades with a sharp beam of light. Its modern design and thin profile allow a smooth blending in every architectural background making it the ideal solution for medium sized installations requiring discreet but powerful luminaires.

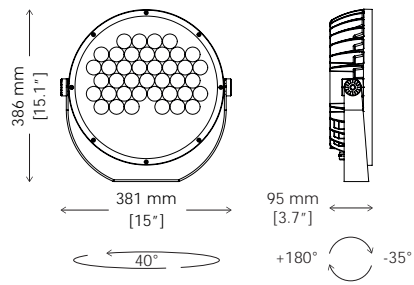
MAIN FEATURES

- Max. delivered lm output: 5852 lm / 62 lm/W
- Size: (HxWxD) 386x381x95 mm / 15.1x15x3.7"
- Control system: DMX-RDM, DALI DT8, DALI, remote wireless data
- Medium-sized floodlight fitted with an efficient ultra-narrow optics

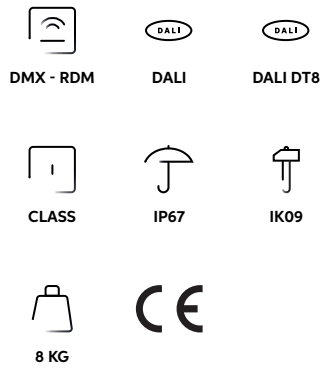
LED COLOUR CONFIGURATIONS



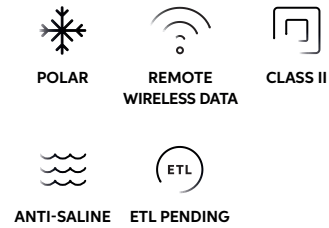
MARS US



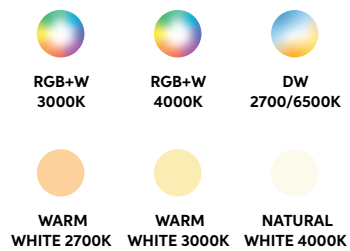
FEATURES



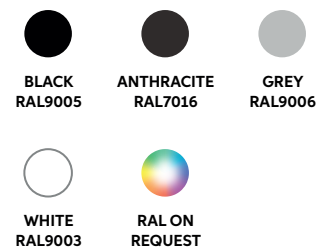
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL8020 MARS US

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MARS US RGBW	94	5086	54
MARS US DW	94	5852	62
MARS US W	94	5828	62

BEAM ANGLE REFERENCE	RGBW	DW/W
ULTRA SPOT	3.2°	3.2°



Spain – Sanctuary of Loyola, Azpeltia



MARS MC



DESCRIPTION

Tailored to the selective demands of the most sophisticated lighting designers, MARS MC is a powerful, compact, and energy-efficient LED floodlight engineered to highlight mid-sized structures and building façades in both coloured and white light. Responding to aesthetic appeal and chromatic adaptability criteria, MARS MC features multichip LEDs for seamless light distribution and smooth colour transitioning. Allowing perfect blending in every architectural background through its eye-catching design and thin profile, it delivers a powerful output from a compact body with outstanding performances.

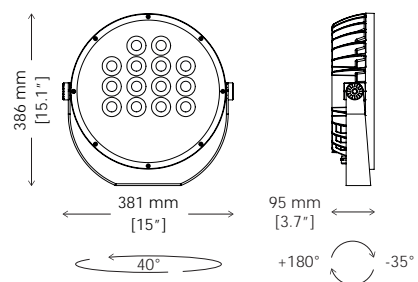
MAIN FEATURES

- Max. delivered lm output: 7633 lm / 81 lm/W
- Size: (HxWxD) 386x381x95 mm / 15.1x15x3.7"
- Control system: DMX-RDM, DALI DT8, DALI, remote wireless data
- Medium-sized floodlight fitted with multichip LEDs

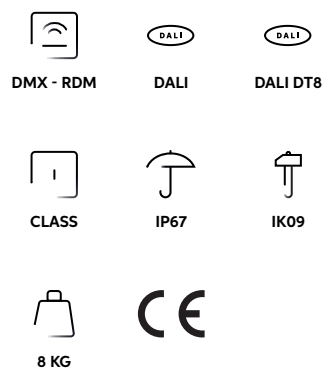
LED COLOUR CONFIGURATIONS



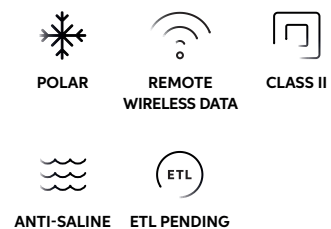
MARS MC



FEATURES



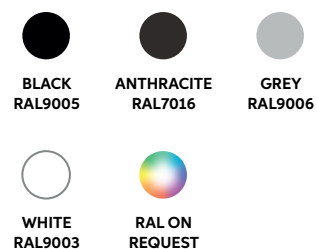
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL8025 MARS MC

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MARS MC RGBW	94	4338	46
MARS MC DW	94	7633	81

BEAM ANGLE REFERENCE	RGBW	DW
SPOT	8°	8°
NARROW	10°	10°
MEDIUM	25°	25°
WIDE	37°	37°



Indonesia – Our Lady of Assumption Cathedral, Jakarta



JUPITER



DESCRIPTION

With a modern, clean design for a minimal impact on the urban landscape, JUPITER is a versatile medium-throw, exterior surface mounted floodlight, distinguished by a surprising luminous efficacy. Offering a wide choice of optical configurations, JUPITER stands out for its flexibility, elegance, and performance. The alternative ON-OFF white light versions, equipped with either integrated or remote PSU, are the ideal solution for those applications in need of a powerful light output without RDM/DMX functions.

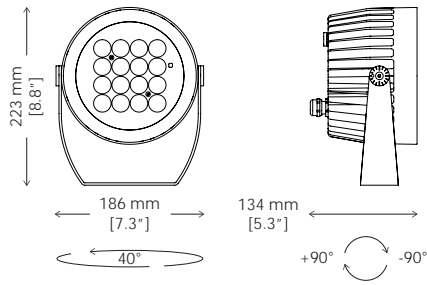
MAIN FEATURES

- Max. delivered lm output: 4755 lm / 91 lm/W
- Size: (HxWxD) 223x186x134 mm / 8.8x7.3x5.3"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, remote wireless data
- Compact medium-throw floodlight specific for wall wash and spotlight effects on diverse architectural elements

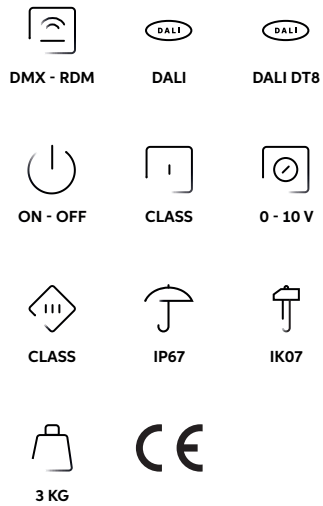
LED COLOUR CONFIGURATIONS



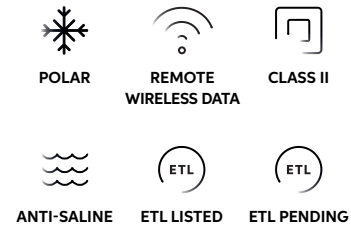
JUPITER



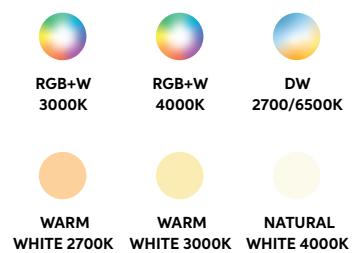
FEATURES



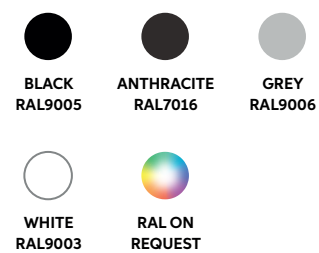
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5340 JUPITER
AL5350 JUPITER B
AL5351 JUPITER B RP

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
JUPITER RGBW	38	2280	60
JUPITER DW	38	3322	87
JUPITER W	38	3308	87
JUPITER B W	34	3109	91
JUPITER B RP W	52	4755	91

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	10°	12°
NARROW	14°	15°
MEDIUM	23°	25°
WIDE	47°	48°
EXTRA WIDE	69°	61°
ELLIPTICAL	14° x 39°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	23° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 38°



The Netherlands – Stockholm Office Building, Middelburg



JUPITER MC



DESCRIPTION

Based on quad-color LEDs for superior color mixing directly at the lens, this alternative multichip LED configuration delivers seamless light distribution and smooth colour transitioning. Featuring a lightweight and compact body with printed front glass and no visible screws, JUPITER MC is the optimal solution for the impressive enhancement of architectural details of various sizes and shapes in both coloured and white light.

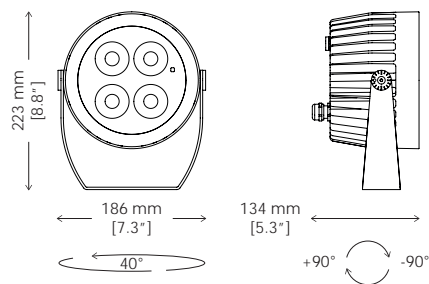
MAIN FEATURES

- Max. delivered lm output: 1569 lm / 46 lm/W
- Size: (HxWxD) 223x186x134 mm / 8.8x7.3x5.3"
- Control system: DMX-RDM, DALI DT8, DALI, remote wireless data
- Compact floodlight fitted with multichip LEDs

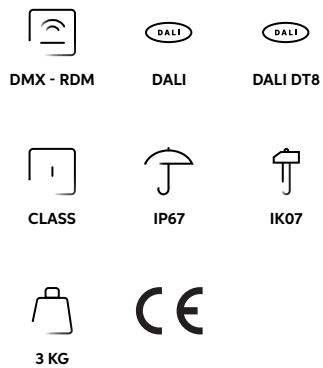
LED COLOUR CONFIGURATIONS



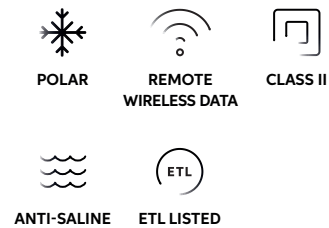
JUPITER MC



FEATURES



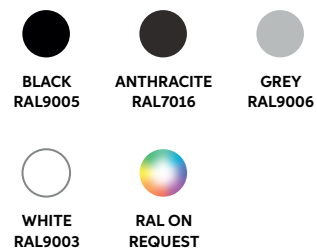
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5345 JUPITER MC

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
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JUPITER MC RGBW	34	1569	46
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BEAM ANGLE REFERENCE	RGBW
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SPOT	8°
NARROW	10°
MEDIUM	25°
WIDE	37°



South Korea – Mugunghwa Arboretum, Hongcheon



FULL MOON WALL



DESCRIPTION

Elegant and refined, FULL MOON WALL is a small-sized white light LED luminaire, capable of enhancing outdoor ambiances in an effective, impactful way through the creation of well-defined lighting impressions. Suitable for both decorative and functional accent and flood lighting in private or public environments, it is also an optimal solution for the enhancement of landscape details in large green areas assuring great impact and intense visual emotion. Different versions, alternatively featuring brass swivel, one-tone finish or lockable head options, are available for the utmost design flexibility.

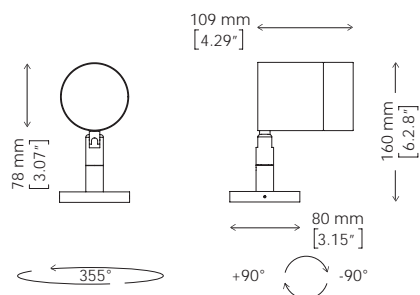
MAIN FEATURES

- Max. delivered lm output: 2098 lm / 105 lm/W
- Size: (HxWxD) Ø 78 160x80x109 mm / Ø 3.07" 6.28x3.15x4.29"
- Control system: ON-OFF, TRIAC
- Small-sized white light LED luminaire for decorative and functional accent and flood lighting

LED COLOUR CONFIGURATIONS



FULL MOON WALL



FEATURES



ON - OFF



TRIAC



CLASS



IP67



IK08



1 KG



OPTIONS



ANTI-SALINE



ETL PENDING

LED COLOUR CONFIGURATIONS



WARM
WHITE 2700K



WARM
WHITE 3000K



NATURAL
WHITE 4000K

FINISHES



BLACK
RAL9005



ANTHRACITE
RAL7016



GREY
RAL9006



WHITE
RAL9003



OLIVE GREY
RAL7002



RAL ON
REQUEST

MORE INFO



CODES

AL5304 FULL MOON WALL

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
FULL MOON WALL W	20	2098	105

BEAM ANGLE REFERENCE	W
NARROW	18°
MEDIUM	25°
WIDE	35°
EXTRA WIDE	50°



Photorealistic 3D rendering of a typical product installation



MOON WALL



DESCRIPTION

Engineered to enhance landscape and architectural details in residential or commercial areas through refined accent lighting, MOON WALL is an innovative LED luminaire capable of creating intense emotions through soft lighting effects in every desired colour shade. Owing to its extreme flexibility, it is the perfect solution for both decorative and functional illumination of landscape and architectural elements. Different versions, alternatively featuring brass swivel, one-tone finish or lockable head options, are available for the utmost design flexibility.

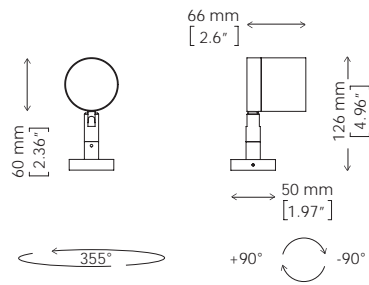
MAIN FEATURES

- Max. delivered lumen output: 1499 lm / 120 lm/W
- Size: (HxWxD) Ø60 126x50x66 mm / Ø 2.36 4.96x1.97x2.6"
- Control system: DMX-RDM, DALI, ON-OFF, 0-10V, remote wireless data
- Super compact LED luminaire for the enhancement of landscape and architectural details through refined accent lighting effects

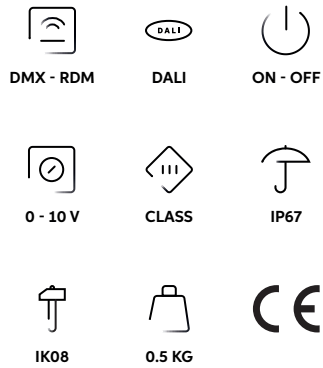
LED COLOUR CONFIGURATIONS



MOON WALL



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5312 MOON WALL
AL5312 MOON WALL US

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MOON WALL RGBW	9	242	27
MOON WALL DW	9	413	46
MOON WALL W	12.5	1499	120
MOON WALL US W	3	251	84

BEAM ANGLE REFERENCE	RGBW/DW	W
ULTRA SPOT	-	6°
NARROW	13°	18°
MEDIUM	23°	25°
WIDE	35°	35°
EXTRA WIDE	56°	50°



Photorealistic 3D rendering of a typical product installation



HALF MOON WALL



DESCRIPTION

HALF MOON WALL is an extremely compact LED luminaire capable of enhancing outdoor ambiances with discretion and elegance through the creation of refined accent lighting effects. Its external power supply unit allows a comfortable installation even in the smallest spaces, as well as the simultaneous management of multiple units. It is the ideal solution for a bright illumination of essential landscape or architectural details in delicate pastel tones or intense white shades.

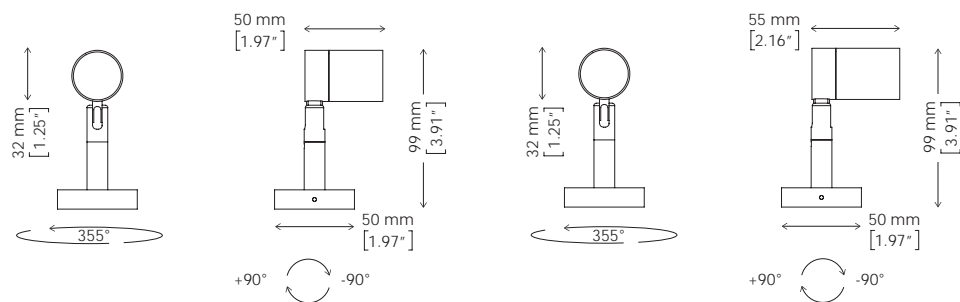
MAIN FEATURES

- Max. delivered lm output: 273 lm / 91 lm/W
- Size: (HxWxD) Ø 32 70x50x50/55 mm / Ø 1.26 2.76x1.97x1.97/2.16"
- Control system: DMX-RDM, DALI, ON-OFF, 0-10V, remote wireless data
- Extremely compact LED luminaire for a bright illumination of essential landscape or architectural details

LED COLOUR CONFIGURATIONS



HALF MOON WALL



RGBW/DW

W

FEATURES



DMX - RDM

DALI

ON - OFF



0 - 10 V

CLASS

IP67



IK07

0.2 KG



OPTIONS



ANTI-SALINE ETL PENDING

LED COLOUR CONFIGURATIONS



RGB+W
3000K

RGB+W
4000K

DW
2700/6500K



WARM
WHITE 2700K

WARM
WHITE 3000K

NATURAL
WHITE 4000K

FINISHES



BLACK
RAL9005

ANTHRACITE
RAL7016

GREY
RAL9006



WHITE
RAL9003

OLIVE GREY
RAL7002

RAL ON
REQUEST

MORE INFO



CODES

AL5318 HALF MOON WALL

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
HALF MOON WALL RGBW	3.5	54	15
HALF MOON WALL DW	3.5	92	26
HALF MOON WALL W	3	273	91

BEAM ANGLE REFERENCE	RGBW/DW	W
OPALINE DIFFUSER	120°	–
NARROW	–	12°
MEDIUM	–	23°
WIDE	–	43°



Photorealistic 3D rendering of a typical product installation



MOON MARINE SERIES



DESCRIPTION

Including both Moon and Half Moon configurations, these coastal lights are resistant against humidity and saltwater ensuring maximum installation durability. Built from corrosion resistant materials, either brass or AISI 316L inox, the MOON MARINE SERIES has been engineered to enhance landscape and architectural details in residential or commercial complexes located in coastal areas. Fitted with an external PSU and a robust fixing bracket, these elegant, compact lights are capable of creating intense emotions through soft lighting effects in every desired colour or white shade.

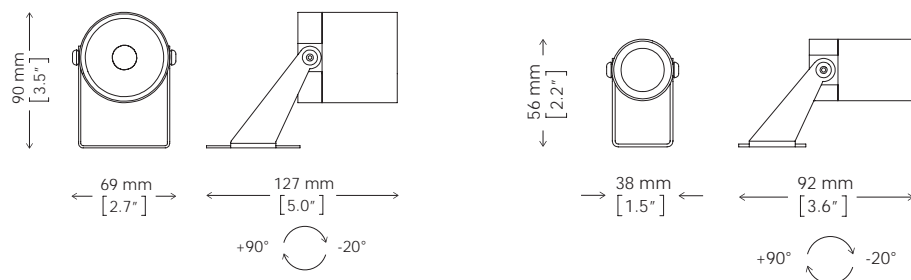
MAIN FEATURES

- Max. delivered lumen output: Moon Marine: 840 lm / 120 lm/W / Half Moon Marine: 275 lm / 92 lm/W
- Size: (HxWxD) Moon Marine: 90x69x127 mm / 3.5x2.7x5" / Half Moon Marine: 56x38x92 mm / 2.2x1.5x3.6"
- Control system: DMX-RDM, DALI, ON-OFF, 0-10V, remote wireless data
- Corrosion resistant coastal lights engineered to enhance landscape and architectural details in marine environments

LED COLOUR CONFIGURATIONS



MOON MARINE SERIES



FEATURES



DMX - RDM

DALI

ON - OFF



0 - 10 V

CLASS

ANTI-SALINE



IP67

IK07
IK08

0.4-0.9 KG

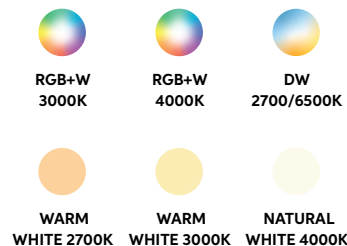


OPTIONS



ETL PENDING

LED COLOUR CONFIGURATIONS



RGB+W
3000K

RGB+W
4000K

DW
2700/6500K

WARM
WHITE 2700K

WARM
WHITE 3000K

NATURAL
WHITE 4000K

MORE INFO

Moon Marine



Half Moon Marine



CODES

AL5309 MOON MARINE INOX
AL5309 MOON MARINE US INOX
AL5327 MOON MARINE BRASS
AL5327 MOON MARINE US BRASS
AL5324 HALF MOON MARINE INOX
AL5326 HALF MOON MARINE BRASS

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MOON MARINE RGBW	4.6	242	29
MOON MARINE DW	4.6	413	46
MOON MARINE W	7	839	120
MOON MARINE US W	2.7	225	83

BEAM ANGLE REFERENCE	RGBW/DW	W
ULTRA SPOT	-	6°
NARROW	13°	18°
MEDIUM	23°	25°
WIDE	35°	35°
EXTRA WIDE	56°	50°

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
HALF MOON MARINE RGBW	3.5	54	15
HALF MOON MARINE DW	3.5	92	26
HALF MOON MARINE W	3	275	92

BEAM ANGLE REFERENCE	RGBW/DW	W
OPALINE DIFFUSER	120°	-
NARROW	-	12°
MEDIUM	-	23°
WIDE	-	43°



Photorealistic 3D rendering of a typical product installation



LINEAR WALL GRAZING

Complemented by innovative solutions, these highly versatile surface mount linear modules offer utmost adaptability to different project prerequisites, from even wall grazing distribution on large façades to emotionally decorative effects for the smart enhancement of architectural elements. Featuring one-foot-long independent pixel clusters, alternative versions, specific for the creation of dynamic visual concepts on large-scale architectural spaces, complete the offer of this groundbreaking series.

The combination of premium class RGBW LEDs, featuring either 4000K or 3000K white, delivers the widest range of warm white shades and pastel tones assortment. Complementary solid or tunable white light and, on request, monochrome or multiple bespoke colour selection versions, further ensure maximum chromatic adaptability.

Alternative MC configurations, using quad-colour LEDs for superior colour mixing directly at the lens, are a visually appealing solution capable of delivering a seamless light distribution with perfectly smooth colour transitioning, optimal colour consistency, and excellent dimming capability.

The digital control via DMX512 protocol also includes stand-alone, Master-Slave, and RDM functions. DALI and DALI DT8 control options are available for some of the white light and RGBW/DW versions, respectively. Alternative solid white ON-OFF configurations, equipped with either integrated or remote PSU, are the ideal solution for those applications in need of a powerful light output without RDM/DMX functions. Featuring outdoor use IP rating, each model is also available on request in the ETL certified version.



PARADE L



DESCRIPTION

Available in four different lengths, PARADE L features an impressive luminous flux with real uniform colour coverage even on close-up installations. These flexible linear bars are specific for truly powerful wall grazing enhancement of large-scale façades or architectural elements. Featuring one-foot-long independent pixel clusters, the alternative independent pixel version delivers dynamic visual concepts on large-scale architectural spaces, where video, animation or graphic patterns can be displayed to generate an eye-catching lighting show. The new solid white light DALI/ON-OFF release is the ideal solution for those applications which do not require RDM/DMX functions.

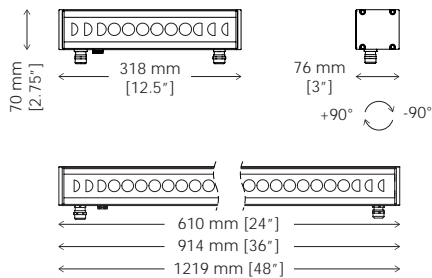
MAIN FEATURES

- Max. delivered lm output: 1: 2252 lm / 2: 4391 lm / 3: 6418 lm / 113 lm/W / 4: 8441 lm / 111 lm/W
- Size: (HxWxD) 318/610/914/1219x70x76 mm / 12.5/24/36/48x2.7x3"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, self-addressing, independent pixel, remote wireless data
- Linear modules specific for powerful wall grazing enhancement of large-scale façades or architectural elements

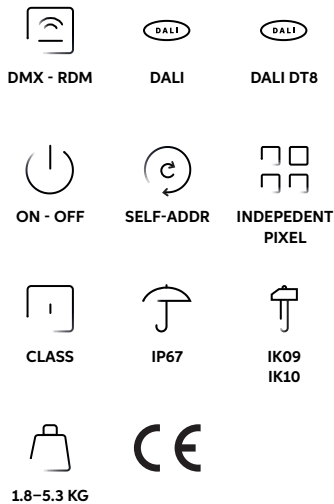
LED COLOUR CONFIGURATIONS



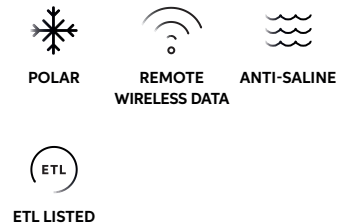
PARADE L



FEATURES



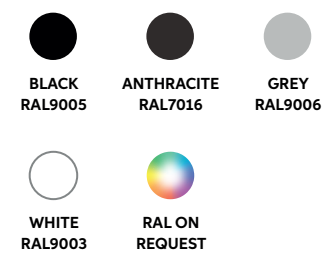
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5060 PARADE L 1
 AL5061 PARADE L 1 POLAR EDITION
 AL5260 PARADE LB 1
 AL5065 PARADE L 2
 AL5066 PARADE L 2 POLAR EDITION
 AL5265 PARADE LB 2
 AL5070 PARADE L 3
 AL5071 PARADE L 3 POLAR EDITION
 AL5270 PARADE LB 3
 AL5075 PARADE L 4
 AL5076 PARADE L 4 POLAR EDITION

PERFORMANCE	WATT	MAX LM	LM/WATT
PARADE L 1 RGBW	20	917	46
PARADE L 1 DW	19	2221	117
PARADE L 1 W	19	2101	111
PARADE LB 1 W	20	2252	113
PARADE L 2 RGBW	38	2087	55
PARADE L 2 DW	38	4221	111
PARADE L 2 W	38	4203	111
PARADE LB 2 W	39	4391	113
PARADE L 3 RGBW	58	3223	56
PARADE L 3 DW	56	6219	111
PARADE L 3 W	56	6194	111
PARADE LB 3 W	57	6418	113
PARADE L 4 RGBW	78	4404	57
PARADE L 4 DW	76	8441	111
PARADE L 4 W	76	8406	111

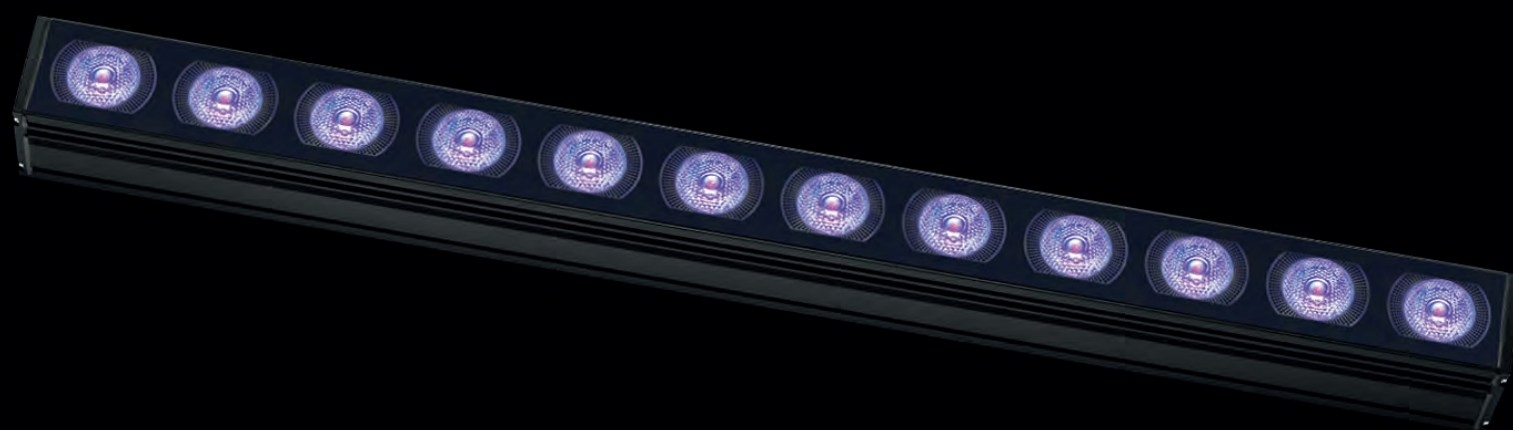
BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	9°	12°
NARROW	11°	15°
MEDIUM	27°	25°
WIDE	43°	48°
EXTRA WIDE	59°	61°
ELLIPTICAL	13° x 42°	14° x 39°
ELLIPTICAL WIDE	25° x 41°	23° x 37°
WALL WASH	13° (5° incline) x 37°	19° (5° incline) x 38°



Vietnam – Dam Vac Bridge, Vinh Yen



PARADE L MC



DESCRIPTION

Responding to aesthetic appeal and chromatic adaptability criteria, PARADE L MC features multichip LEDs in RGBW configuration assuring seamless light distribution and smooth colour transitioning. Available in four different lengths, these highly flexible linear bars are specific for a surprisingly even wall grazing enhancement especially on large-scale façades or buildings. Featuring one-foot-long independent pixel clusters, the alternative Independent pixel version delivers dynamic visual concepts on large-scale architectural spaces.

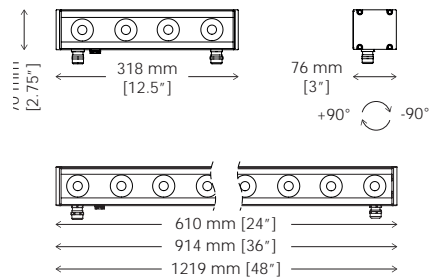
MAIN FEATURES

- Max. delivered lm output: 1: 830 lm / 2: 1613 lm / 3: 2443 lm / 4: 3365 lm / 46 lm/W
- Size: (HxWxD) 318/610/914/1219x70x76 mm / 12.5/24/36/48x2.7x3"
- Control system: DMX-RDM, DALI DT8, DALI, self-addressing, independent pixel, remote wireless data
- Linear modules fitted with multichip LEDs specific for powerful wall grazing enhancement of large-scale façades or architectural elements

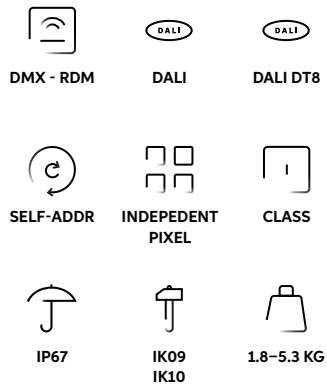
LED COLOUR CONFIGURATIONS



PARADE L MC



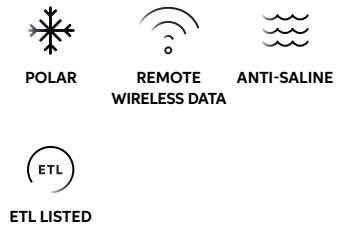
FEATURES



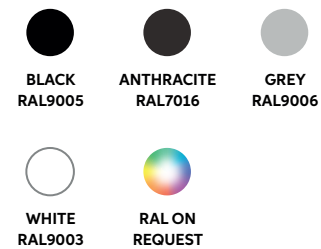
LED COLOUR CONFIGURATIONS



OPTIONS



FINISHES



MORE INFO



CODES

AL8030 PARADE L MC 1
AL8035 PARADE L MC 2
AL8040 PARADE L MC 3
AL8045 PARADE L MC 4

PERFORMANCE

	WATT	MAX LM	LM/WATT
PARADE L MC 1 RGBW	18	830	46
PARADE L MC 2 RGBW	35	1613	46
PARADE L MC 3 RGBW	53	2443	46
PARADE L MC 4 RGBW	73	3365	46

BEAM ANGLE REFERENCE

BEAM ANGLE REFERENCE	RGBW
SPOT	9°
NARROW	14°
MEDIUM	25°
WIDE	37°
EXTRA WIDE	64°
ELLIPTICAL	9° x 51°
ELLIPTICAL WIDE	33° x 60°



Greece – Acropolis Southern Wall, Athens



MICROPARADE



DESCRIPTION

MICROPARADE is an extremely compact modular bar, ideal for wall grazing effects owing to its specifically developed modular optics groups. Available in three different lengths, this linear profile delivers optimal efficacy and reliability beside a richer alternative of intense and bright colour hues. Housing in-built electronics and power supply unit, its lightweight chassis allows comfortable outdoor installations on balconies, windowsills or façades where a reduced mounting space drastically limits the range of suitable products.

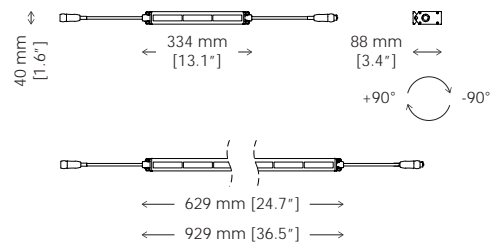
MAIN FEATURES

- Max. delivered lm output: 12: 1099 lm / 24: 1898 lm / 36: 2797 lm / 100 lm/W
- Size: (HxWxD) 334/629/929x40x88 mm / 13.1/24.7/36.5x1.6x3.4"
- Control system: DMX-RDM, remote wireless data
- Extremely compact modular bar, ideal for wall grazing effects on diverse architectural elements

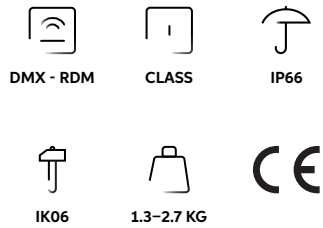
LED COLOUR CONFIGURATIONS



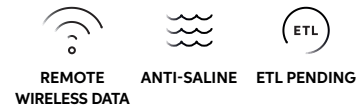
MICROPARADE



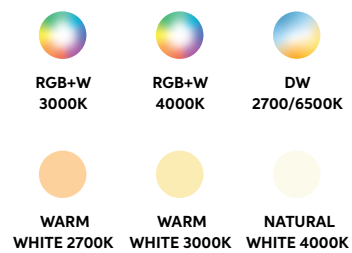
FEATURES



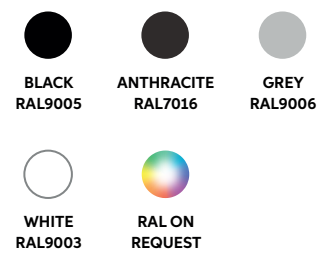
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL4362 MICROPARADE 12
 AL4363 MICROPARADE 24
 AL4364 MICROPARADE 36

PERFORMANCE	WATT	MAX LM	LM/WATT
MICROPARADE 12 RGBW	11	530	48
MICROPARADE 12 DW	11	944	86
MICROPARADE 12 W	11	1099	100
MICROPARADE 24 RGBW	19	916	48
MICROPARADE 24 DW	19	1630	86
MICROPARADE 24 W	19	1898	100
MICROPARADE 36 RGBW	28	1350	48
MICROPARADE 36 DW	28	2402	86
MICROPARADE 36 W	28	2797	100

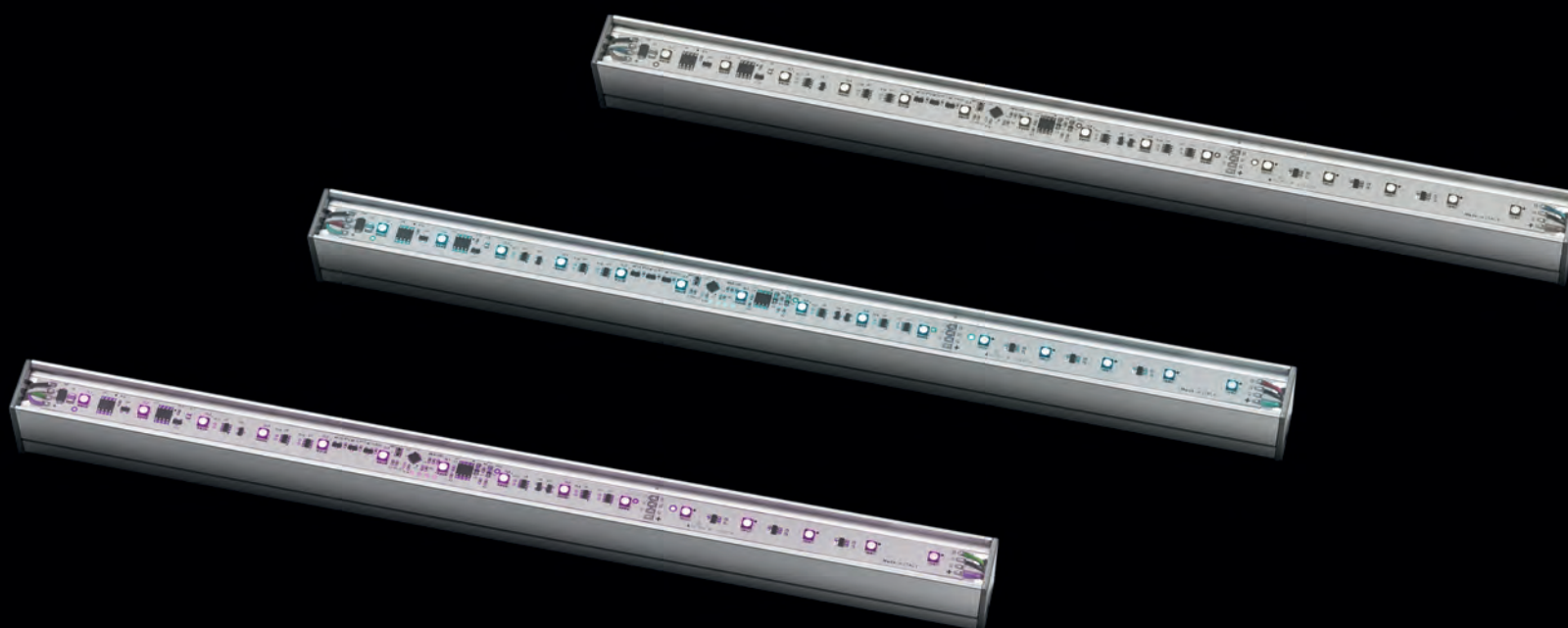
BEAM ANGLE REFERENCE	RGBW	DW/W
ELLIPTICAL	35° x 43°	35° x 43°
WALL WASH	23° (5° incline) x 98°	23° (5° incline) x 98°



Chechen Republic, Russia – The Pride of Muslims Mosque, Shali



NANOPARADE



DESCRIPTION

Featuring micro-sized profile and lightweight manageability, NANOPARADE is the ideal solution for easy outdoor installation where a reduced mounting space drastically limits the range of suitable products. With an optimal light output efficacy, different length choices and a separate PSU, more units can be comfortably set-up for creative accent and linear lighting design. Featuring independent control of one-foot-long pixel clusters, its standard configuration can be easily managed via RDM for the creation of eye-catching lighting shows. It is also available in a solid white light ON-OFF version.

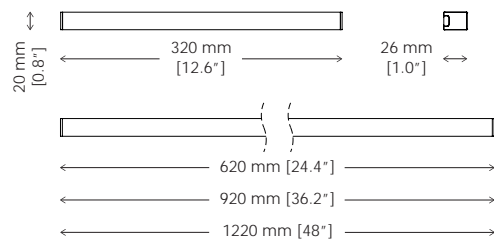
MAIN FEATURES

- Max. delivered lm output: 1: 411 lm / 91 lm/W / 2: 821 lm / 97 lm/W / 3: 1232 lm / 99 lm/W / 4: 1643 lm / 100 lm/W
- Size: (HxWxD) 320/620/920/1220x20x26 mm / 12.6/24.4/36.2/48x0.8x1"
- Control system: DMX-RDM, ON-OFF, self-addressing, independent pixel, remote wireless data
- Micro-sized linear module for creative accent and linear lighting design ideal for installation in reduced mounting spaces

LED COLOUR CONFIGURATIONS



NANOPARADE



FEATURES



DMX - RDM ON - OFF SELF-ADDR

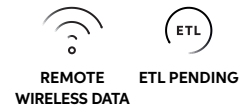


INDEPENDENT PIXEL CLASS IP67



IK10 0.2-0.8 KG

OPTIONS



REMOTE WIRELESS DATA ETL PENDING

LED COLOUR CONFIGURATIONS



RGB+W 3000K RGB+W 4000K RGB



DW 2700/6500K WARM WHITE 2700K WARM WHITE 3000K



NATURAL WHITE 4000K

MORE INFO



CODES

AL8300 NANOPARADE 1
 AL8302 NANOPARADE 2
 AL8304 NANOPARADE 3
 AL8306 NANOPARADE 4
 AL8301 NANOPARADE B 1
 AL8303 NANOPARADE B 2
 AL8305 NANOPARADE B 3
 AL8307 NANOPARADE B 4

PERFORMANCE

	WATT	MAX LM	LM/WATT
NANOPARADE 1 RGBW	5	152	30
NANOPARADE 1 RGB	4	65	16
NANOPARADE 1 DW	5	165	33
NANOPARADE 1 W	3.5	143	41
NANOPARADE 2 RGBW	10	303	30
NANOPARADE 2 RGB	8	130	16
NANOPARADE 2 DW	10	330	33
NANOPARADE 2 W	7	286	41
NANOPARADE 3 RGBW	14	455	32
NANOPARADE 3 RGB	11	194	18
NANOPARADE 3 DW	14	495	35
NANOPARADE 3 W	10	429	43
NANOPARADE 4 RGBW	19	607	32
NANOPARADE 4 RGB	15	259	17
NANOPARADE 4 DW	19	659	35
NANOPARADE 4 W	14	571	41
NANOPARADE B 1 W	4.5	411	91
NANOPARADE B 2 W	8.5	821	97
NANOPARADE B 3 W	12.5	1232	99
NANOPARADE B 4 W	16.5	1643	100

BEAM ANGLE REFERENCE

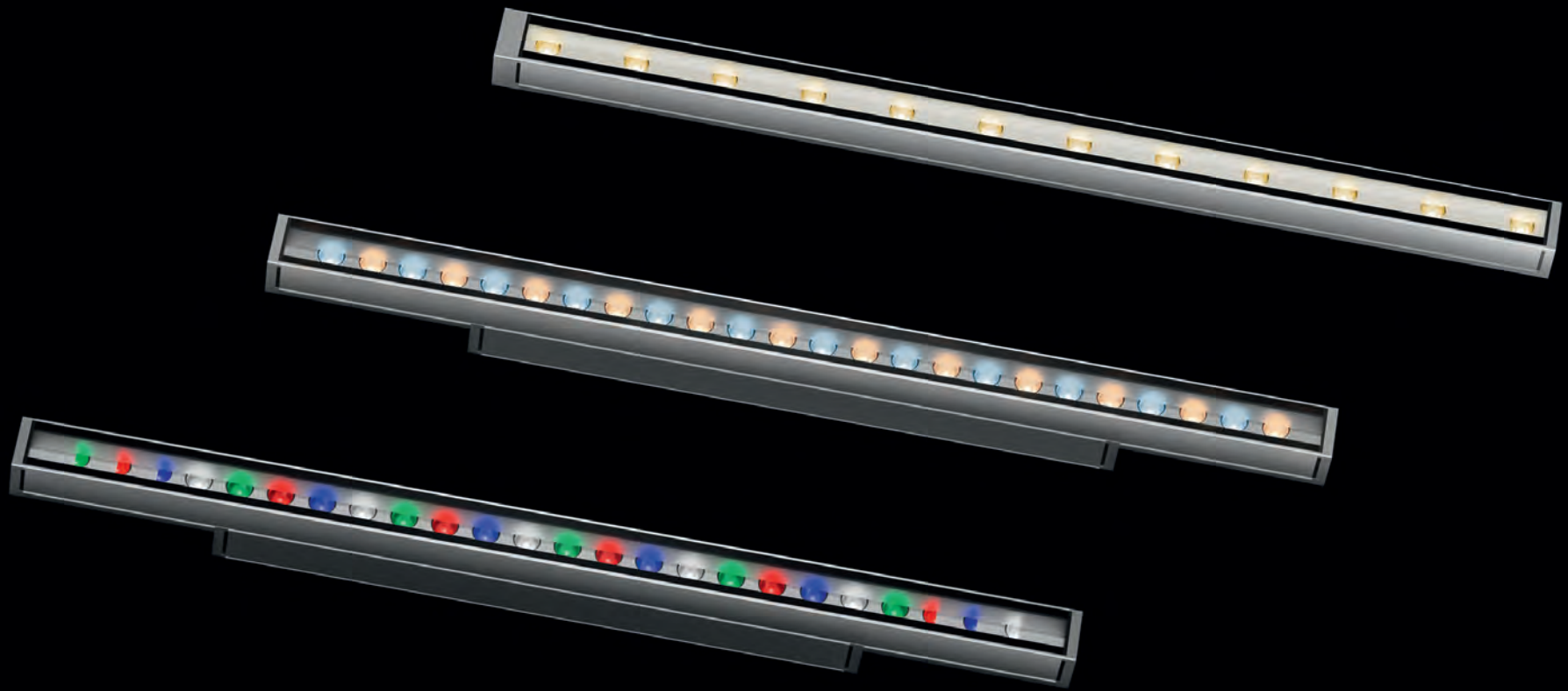
	RGBW/RGB	DW/W
CLEAR RESIN	115°	115°
OPALINE RESIN	114°	114°



UK – DART Bridge, Luton Airport, London



CHIRON



DESCRIPTION

CHIRON is a high-efficiency linear LED module featuring a very compact and slim chassis for a comfortable installation in narrow or remote spaces. Owing to a wide optics portfolio, CHIRON allows wall grazing, floodlighting or wall washing effects in different colours and white light temperatures. It is the right fit for general façade lighting of historical or modern buildings, urban structures as well as residential and hotel complexes. Continuous end-to-end installation of several units delivers a uniform distribution and constant pixel pitch.

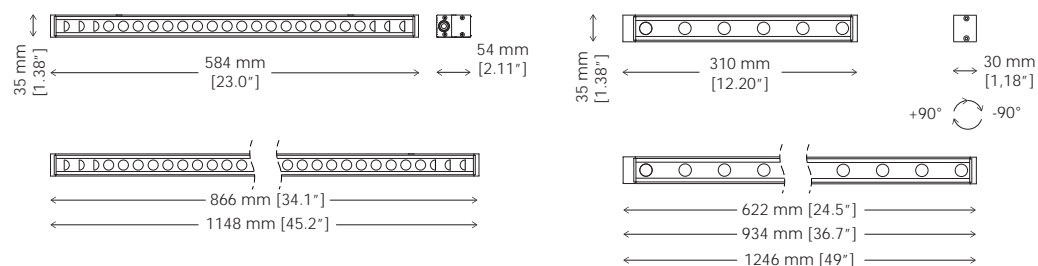
MAIN FEATURES

- Max. delivered lm output: 1: 1313 lm / 91 lm/W / 2: 2830 lm / 3: 4246 lm / 4: 5661 lm / Max 111 lm/W
- Max. size: (HxWxD) 310/622/934/1246x35x30 mm / 12.2/24.5/36.7/49x1.38x1.18"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, remote wireless data
- High-efficiency compact linear module for wall grazing, floodlighting or wall washing effects ideal for installation in narrow or remote spaces

LED COLOUR CONFIGURATIONS



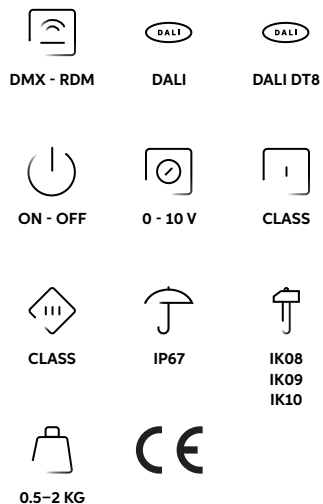
CHIRON



RGBW/DW

W

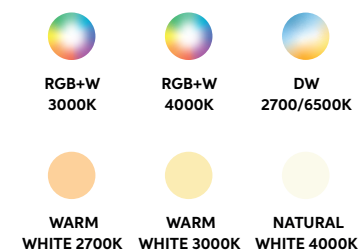
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL5352 CHIRON 1 B RP
AL8320 CHIRON 2
AL8362 CHIRON 2 B
AL5353 CHIRON 2 B RP
AL8325 CHIRON 3
AL8363 CHIRON 3 B
AL5354 CHIRON 3 B RP
AL8330 CHIRON 4
AL8364 CHIRON 4 B
AL5355 CHIRON 4 B RP

PERFORMANCE

	WATT	MAX LM	LM/WATT
CHIRON 1 B RP	14	1313	91
CHIRON 2 RGBW	25	1424	56
CHIRON 2 DW	25	2830	111
CHIRON 2 B	29	2626	91
CHIRON 2 B RP	29	2626	91
CHIRON 3 RGBW	38	2136	56
CHIRON 3 DW	38	4246	111
CHIRON 3 B	43	3939	91
CHIRON 3 B RP	43	3939	91
CHIRON 4 RGBW	51	2848	56
CHIRON 4 DW	51	5661	111
CHIRON 4 B	58	5252	91
CHIRON 4 B RP	58	5252	91

BEAM ANGLE REFERENCE

	RGBW/DW	W
NARROW	20°	20°
MEDIUM	30°	30°
WIDE	-	48° (8° incline)
EXTRA WIDE	60°	60°
ELLIPTICAL	18° x 38°	18° x 38°
WALL WASH	24° x 32°	24° x 32°



Slovenia – Cukrarna Gallery, Ljubljana



LINEAR RECESSED

Complemented by new high performing and versatile releases available in different dimensions and configurations, this comprehensive series includes cutting-edge in-ground linear modules, specific for recessed installation in pedestrian areas. Conceived to conveniently blend in heterogeneous architectural environments, even where the installation space is reduced, this product range offers diversified lighting solutions, such as: wall washing and wall grazing effects with homogeneous photometric distribution even on close-up installations; enhancement of architectural details through soft accenting; functional or decorative highlighting of public spaces. Featuring one-foot-long independent pixel clusters, the independent pixel version of Parade L Recessed displays eye-catching lighting shows through the dynamic rendering of any graphic pattern or visual animation.

The combination of premium class RGBW LEDs, featuring either 4000K or 3000K white, delivers the widest range of warm white shades and pastel tones assortment.

Complementary solid or tunable white light and, on request, monochrome or multiple bespoke colour selection versions, further ensure maximum chromatic adaptability.

Alternative MC configurations, using quad-colour LEDs for superior colour mixing directly at the lens, are a visually appealing solution capable of delivering a seamless light distribution with perfectly smooth colour transitioning, optimal colour consistency, and excellent dimming capability.

The digital control via DMX512 protocol includes also stand-alone, Master-Slave, and RDM functions. DALI and DALI DT8 control options are available for some of the white light and RGBW/DW versions, respectively. Alternative solid white ON-OFF configurations, equipped with either integrated or remote PSU, are the ideal solution for those applications in need of a powerful light output without RDM/DMX functions. Featuring outdoor use IP rating, each model is also available on request in the ETL certified version.



PARADE L RECESSED



DESCRIPTION

Specific for a comfortable and durable in-ground use in pedestrian areas, PARADE L RECESSED features superb output and real uniform colour coverage purposely on close-up installations. Its super flux, high luminance and versatile optical configuration delivers perfect wall grazing effects in coloured or white light. Featuring one-foot-long independent pixel clusters, the alternative independent-pixel version displays eye-catching lighting shows through the dynamic rendering of any graphic pattern or visual animation. The additional solid white DALI/ON-OFF release is the ideal solution for those applications which do not require RDM/DMX functions.

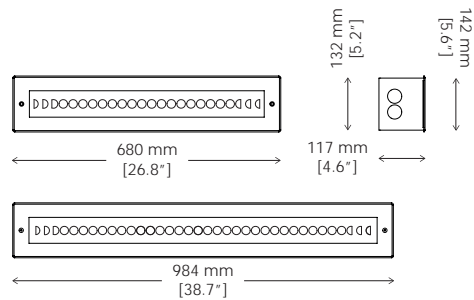
MAIN FEATURES

- Max. delivered lm output: 2: 4203 lm / 3: 6219 lm / 111 lm/W
- Size: (LxWxD) 680/984x132x117 mm / 26.8/38.7x5.2x4.6"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, self-addressing, independent pixel, remote wireless data
- Walk-over recessed linear modules for uniform colour coverage on close-up installations

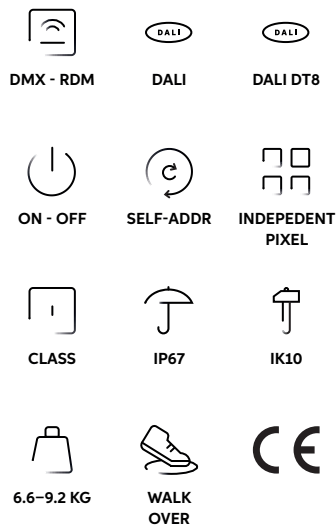
LED COLOUR CONFIGURATIONS



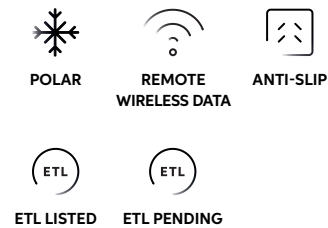
PARADE L RECESSED



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL5068 PARADE L 2 RECESSED
AL5073 PARADE L 3 RECESSED
AL5280 PARADE LB 2 RECESSED
AL5285 PARADE LB 3 RECESSED

PERFORMANCE	WATT	MAX LM	LM/WATT
PARADE L 2 REC RGBW	38	2087	55
PARADE L 2 REC DW	38	4221	111
PARADE L 2 REC W	38	4203	111
PARADE LB 2 REC W	20	2212	111
PARADE L 3 REC RGBW	58	3223	56
PARADE L 3 REC DW	56	6219	111
PARADE L 3 REC W	56	6194	111
PARADE LB 3 REC W	40	4424	111

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	9°	12°
NARROW	11°	15°
MEDIUM	27°	25°
WIDE	43°	48°
EXTRA WIDE	59°	61°
ELLIPTICAL	13° x 42°	14° x 39°
ELLIPTICAL WIDE	25° x 41°	23° x 37°
WALL WASH	13° (5° incline) x 37°	19° (5° incline) x 38°



PARADE L MC RECESSED



DESCRIPTION

Responding to aesthetic appeal and chromatic adaptability criteria, PARADE L MC RECESSED features multichip LEDs in RGBW configuration. Based on quad-color LEDs for superior color mixing directly at the lens, this alternative version assures seamless light distribution and smooth colour transitioning. Available in two different lengths, this dependable in-ground solution features superb output and real uniform colour coverage purposely on close-up installations. An alternative version with one-foot-long independent pixel clusters delivers dynamic visual concepts on large-scale architectural spaces.

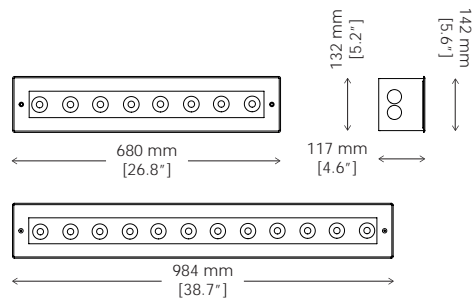
MAIN FEATURES

- Max. delivered lm output: L-2: 1613 lm / L-3: 2443 lm / 46 lm/W
- Size: (LxWxD) 680/984x132x117 mm / 26.8/38.7x5.2x4.6"
- Control system: DMX-RDM, DALI DT8, DALI, self-addressing, independent pixel, remote wireless data
- Walk-over recessed linear modules fitted with multichip LEDs

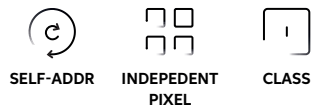
LED COLOUR CONFIGURATIONS



PARADE L MC RECESSED



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

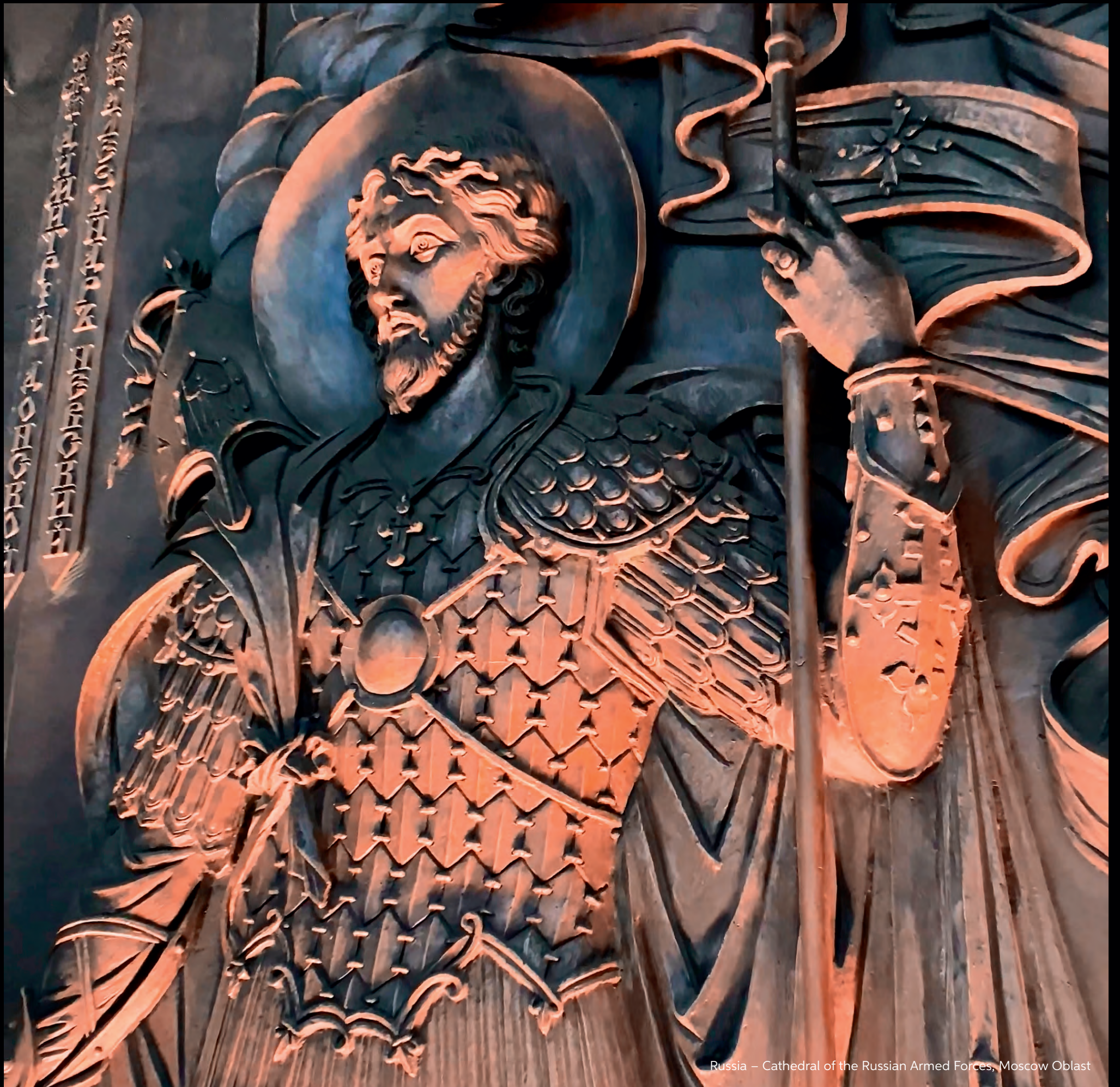
AL5252 PARADE L 2 MC RECESSED
AL5257 PARADE L 3 MC RECESSED

PERFORMANCE

	WATT	MAX LM	LM/WATT
PARADE L 2 MC RECESSED	35	1613	46
PARADE L 3 MC RECESSED	53	2443	46

BEAM ANGLE REFERENCE

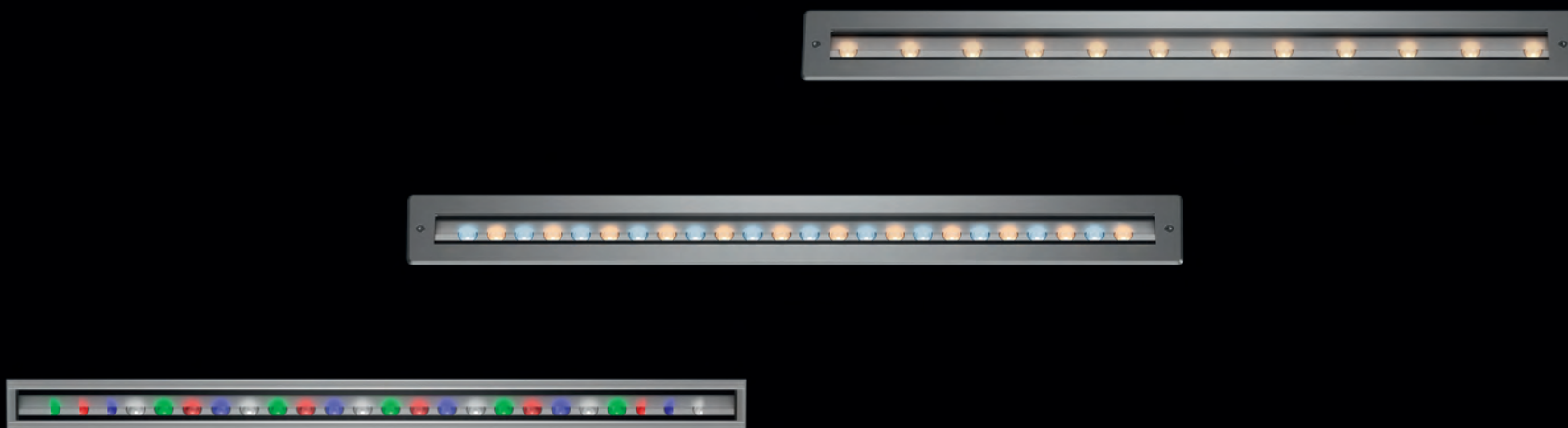
BEAM ANGLE REFERENCE	RGBW
SPOT	10°
NARROW	13°
MEDIUM	24°
WIDE	35°
EXTRA WIDE	64°
ELLIPTICAL	12° x 60°
ELLIPTICAL WIDE	34° x 60°



Russia – Cathedral of the Russian Armed Forces, Moscow Oblast



CHIRON RECESSED



DESCRIPTION

CHIRON RECESSED is a high-efficiency in-ground LED module featuring a very compact and slim chassis for a comfortable installation in narrow or remote spaces or in pedestrian areas. Owing to a wide optics portfolio, it allows wall grazing, flood lighting or accent lighting effects in different colours and white light temperatures with a surprising light output. It is the right fit for general façade lighting of historical or modern buildings, urban structures as well as residential and hotel complexes. Beside the traditional release with a larger walk-over flange, a discreet and elegant flush-mount full-glass version is also available.

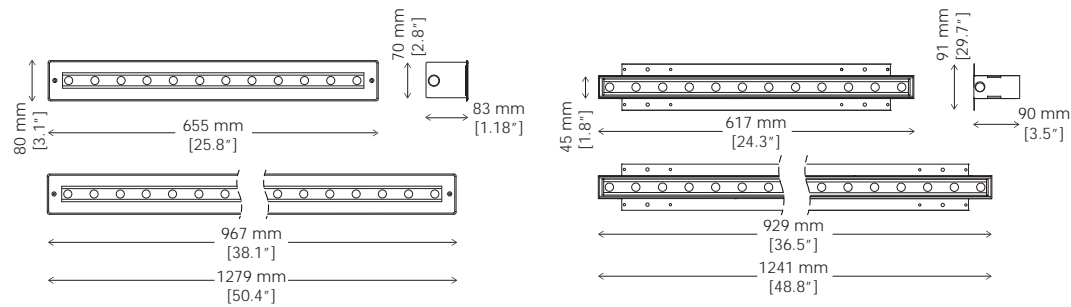
MAIN FEATURES

- Max. delivered lm output: 2: 1410 lm / 3: 2122 lm / 4: 2830 lm / 111 lm/W
- Max. size: (LxWxD) 655/967/1279x70x83 mm / 25.8/38.1/50.4x2.8x1.18"
- Control system: DMX-RDM, DALI DT8, DALI, ON-OFF, 0-10V, remote wireless data
- High-efficiency in-ground LED module featuring a very compact and slim chassis

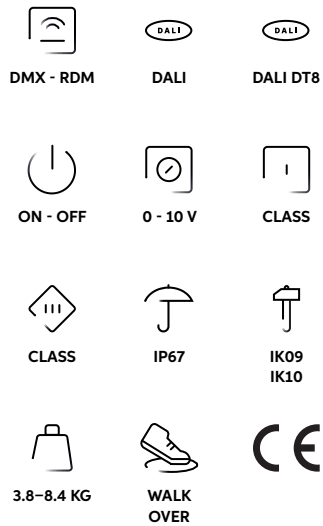
LED COLOUR CONFIGURATIONS



CHIRON RECESSED



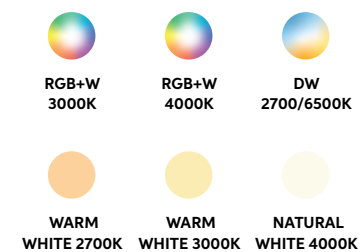
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL8392 CHIRON 2 REC
AL8389 CHIRON 2 REC FLUSH MOUNT
AL8398 CHIRON 2 REC B
AL8401 CHIRON 2 REC B FLUSH MOUNT
AL8392 CHIRON 3 REC
AL8389 CHIRON 3 REC FLUSH MOUNT
AL8398 CHIRON 3 REC B
AL8401 CHIRON 3 REC B FLUSH MOUNT
AL8392 CHIRON 4 REC
AL8389 CHIRON 4 REC FLUSH MOUNT
AL8398 CHIRON 4 REC B
AL8401 CHIRON 4 REC B FLUSH MOUNT

PERFORMANCE	WATT	MAX LM	LM/WATT
CHIRON 2 REC RGBW	13	709	56
CHIRON 2 REC DW	13	1410	111
CHIRON 2 REC B W	14	1313	91
CHIRON 3 REC RGBW	19	1067	56
CHIRON 3 REC DW	19	2122	111
CHIRON 3 REC B W	22	1969	91
CHIRON 4 REC RGBW	25	1423	56
CHIRON 4 REC DW	25	2830	111
CHIRON 4 REC B W	29	2626	91

BEAM ANGLE REFERENCE	RGBW/DW	W
NARROW	20°	20°
MEDIUM	30°	30°
WIDE	-	48° (8° incline)
EXTRA WIDE	60°	60°
ELLIPTICAL	18° x 38°	18° x 38°
WALL WASH	24° x 32°	24° x 32°



CHIRON RECESSED

Typical product installation

LINEAR RECESSED

149



MOLED



DESCRIPTION

Suitable for applications in pedestrian areas, the MOLED series provides micro-shaped linear solutions for pathway signalling, as well as for smart parks and public spaces enhancement. IP67 rated, this seamless flush-mount, robust and stylish module guarantees enduring exterior performance. Combinations of multiple modules, available in RGB, solid or tunable white and, on request, monochrome versions, can be comfortably set-up with invariable pixel pitch for a uniform visual pattern layout, also with angle installation.

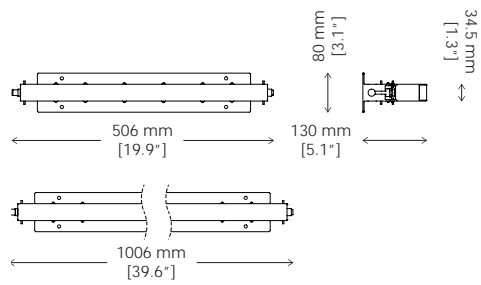
MAIN FEATURES

- Max. delivered lm output: 25: 32 lm / 50: 64 lm / 3.6 lm/W
- Size: (LxWxD) 506/1006x80x130 mm / 19.9/39.6x3.1x5.1"
- Control system: DMX-RDM, self-addressing, remote wireless data
- Flush-mount recessed linear solutions for functional or decorative enhancement of private or public areas

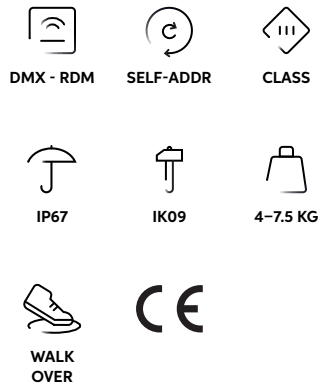
LED COLOUR CONFIGURATIONS



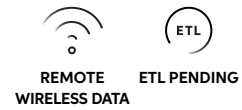
MOLED



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL4369 MOLED 25
AL4370 MOLED 50

PERFORMANCE	WATT	MAX LM	LM/WATT
MOLED 25 RGB	9	21	2.4
MOLED 25 DW	9	30	3.4
MOLED 25 W	9	32	3.6
MOLED 50 RGB	18	43	2.4
MOLED 50 DW	18	61	3.4
MOLED 50 W	18	64	3.6

BEAM ANGLE REFERENCE	RGB	DW/W
OPALINE GLASS	120°	120°



Typical product installation



IN-GROUND UPLIGHTERS

Dynamically blending with many different architectural environments, these cutting-edge in-ground mounting uplighters boast an extraordinarily functional light output. Recently further optimized and expanded, this portfolio of efficient colour changing solutions features alternatively solid or tunable white, as well as monochrome LEDs versions for full design adaptability. The combination of premium class RGBW LEDs, including 4000K and 3000K white, delivers the widest range of warm white shades and pastel tones assortment. Flexible planning is further enhanced by a wide choice of high build design optics making the range ideal for spot lighting and wall washing with uniform colour coverage purposely on close-up installations.

Brand new solutions expand the application purpose of the range in two diverse directions: powerful uniform wall washing on large-scale installations as well as distinctive light output for directive application or decorative lighting patterns creation for an eye-catching enhancement of public, residential or commercial areas.

According to different features, these uplighters are suitable for recessed applications in either pedestrian or vehicular areas. The high IP protection rating ensures robust and enduring exterior installation. Available for some releases, the Polar Edition features an integrated de-icing system with electrically heated glass, which assures a comfortable functioning even in the utmost severe cold weather conditions. An optional anti-slip treatment can be applied on request to maximize safety on the installation site.



DUNE MK3



DESCRIPTION

With its IP68 waterproof protection rating, AISI 316L stainless steel body, and smart beam angle tilt orientation adjustment, DUNE MK3 is a highly performing recessed LED uplighter. Specifically designed for exterior in-ground applications, it delivers spot lighting as well as wall grazing effects in exterior recessed applications in both coloured and white light. A 2000 Kg deadweight load capacity makes it suitable for in-ground applications even in vehicular areas.

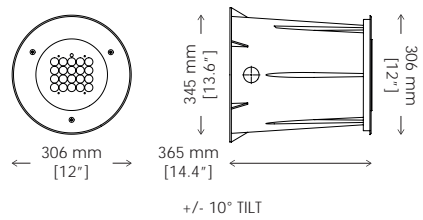
MAIN FEATURES

- Max. delivered lm output: 2954 lm / 109 lm/W
- Size: (WxD) \varnothing 306x365 mm / \varnothing 12x14.4"
- Control system: DMX-RDM, remote wireless data
- High performance drive-over uplighter with smart beam angle orientation adjustment

LED COLOUR CONFIGURATIONS



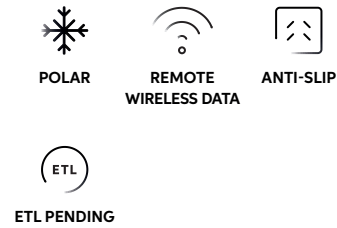
DUNE MK3



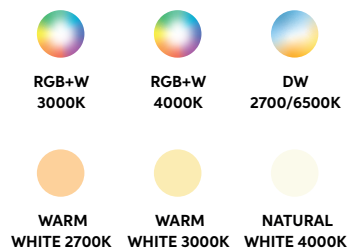
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL5003 DUNE MK3

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
DUNE MK3 RGBW	27	1479	55
DUNE MK3 DW	27	2954	109
DUNE MK3 W	27	2863	106

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	61°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	23° x 37°



Poland – Presidential Palace Orangery, Warsaw



DUNE MC MK3



DESCRIPTION

Featuring a smart beam angle orientation adjustment, DUNE MC MK3 is a highly performing IP68 rated LED up-lighter ideal for spot lighting and wall grazing effects in exterior recessed applications. Responding to aesthetic appeal and chromatic adaptability criteria, it features multichip LEDs, which enhance seamless light distribution and smooth colour transitioning in both coloured and tunable white light.

With AISI 316L stainless steel body, this upgraded version features a 2000 Kg deadweight load capacity for in-ground applications even in vehicular areas.

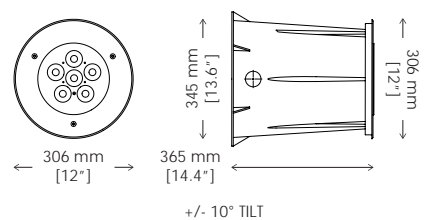
MAIN FEATURES

- Max. delivered lm output: 3654 lm / 81 lm/W
- Size: (WxD) \varnothing 306x365 mm / \varnothing 12x14.4"
- Control system: DMX-RDM, remote wireless data
- Drive-over multichip LED uplighter with smart beam angle orientation adjustment

LED COLOUR CONFIGURATIONS



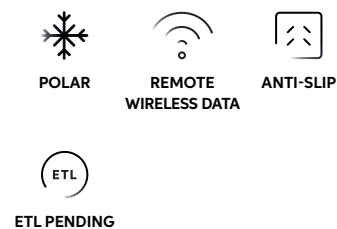
DUNE MC MK3



FEATURES



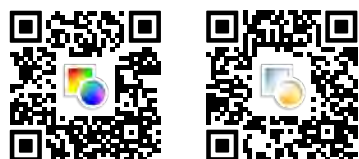
OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL5004 DUNE MC MK3

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
DUNE MC MK3 RGBW	45	2077	46
DUNE MC MK3 DW	45	3654	81

BEAM ANGLE REFERENCE	RGBW/DW
SPOT	8°
NARROW	10°
MEDIUM	25°
WIDE	37°



Italy - Private villa in Tuscany



RUBY R



DESCRIPTION

Specifically designed for exterior recessed applications, RUBY R is a highly performing LED uplighter featuring shallow recessed depth for a comfortable in-ground installation. Delivering spot lighting and wall grazing effects of great emotional impact in both coloured and white light, it ensures a 2000 Kg deadweight load capacity, which makes it suitable even for vehicular areas.

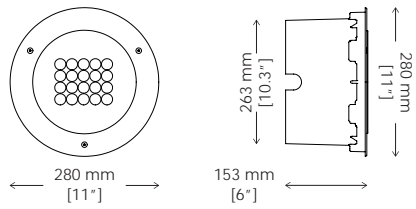
MAIN FEATURES

- Max. delivered lm output: 3769 lm / 102 lm/W
- Size: (WxD) \varnothing 280x153 mm / \varnothing 11x6"
- Control system: DMX-RDM, remote wireless data
- Drive-over uplighter featuring shallow recessed depth

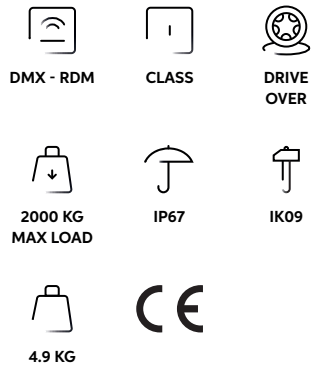
LED COLOUR CONFIGURATIONS



RUBY R



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL4992 RUBY R

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
RUBY R RGBW	37	1885	51
RUBY R DW	37	3769	102
RUBY R W	37	3554	96

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	61°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	23° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 38°



Russia – Russian Copper Company, Ekaterinburg



RUBY MC R



DESCRIPTION

Featuring shallow recessed depth for a comfortable in-ground installation, RUBY MC R is a highly performing uplighter specifically designed for exterior recessed applications. Responding to aesthetic appeal and chromatic adaptability criteria, it features multichip LEDs, which enhance seamless light distribution and smooth colour transitioning in both coloured and tunable white light. This compact IP67 rated light fitting allows a 2000 Kg deadweight load capacity that makes it suitable for ground mounting applications even in vehicular areas.

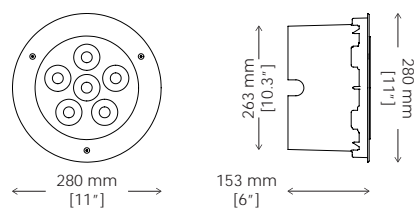
MAIN FEATURES

- Max. delivered lm output: 4222 lm / 81 lm/W
- Size: (WxD) \varnothing 280x153 mm / \varnothing 11x6"
- Control system: DMX-RDM, remote wireless data
- Drive-over multichip LED uplighter featuring shallow recessed depth

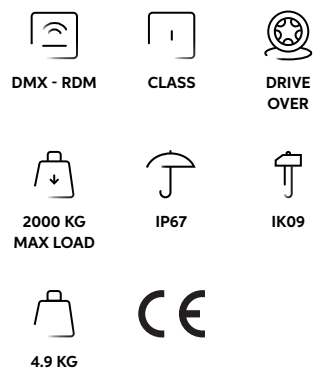
LED COLOUR CONFIGURATIONS



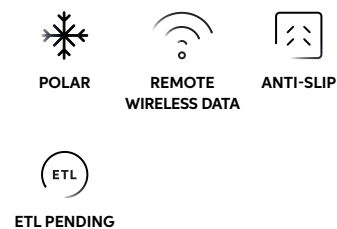
RUBY MC R



FEATURES



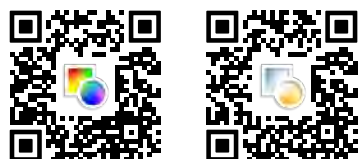
OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL5248 RUBY MC R

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
RUBY MC R RGBW	52	2400	46
RUBY MC R DW	52	4222	81

BEAM ANGLE REFERENCE	RGBW/DW
SPOT	8°
NARROW	10°
MEDIUM	25°
WIDE	37°



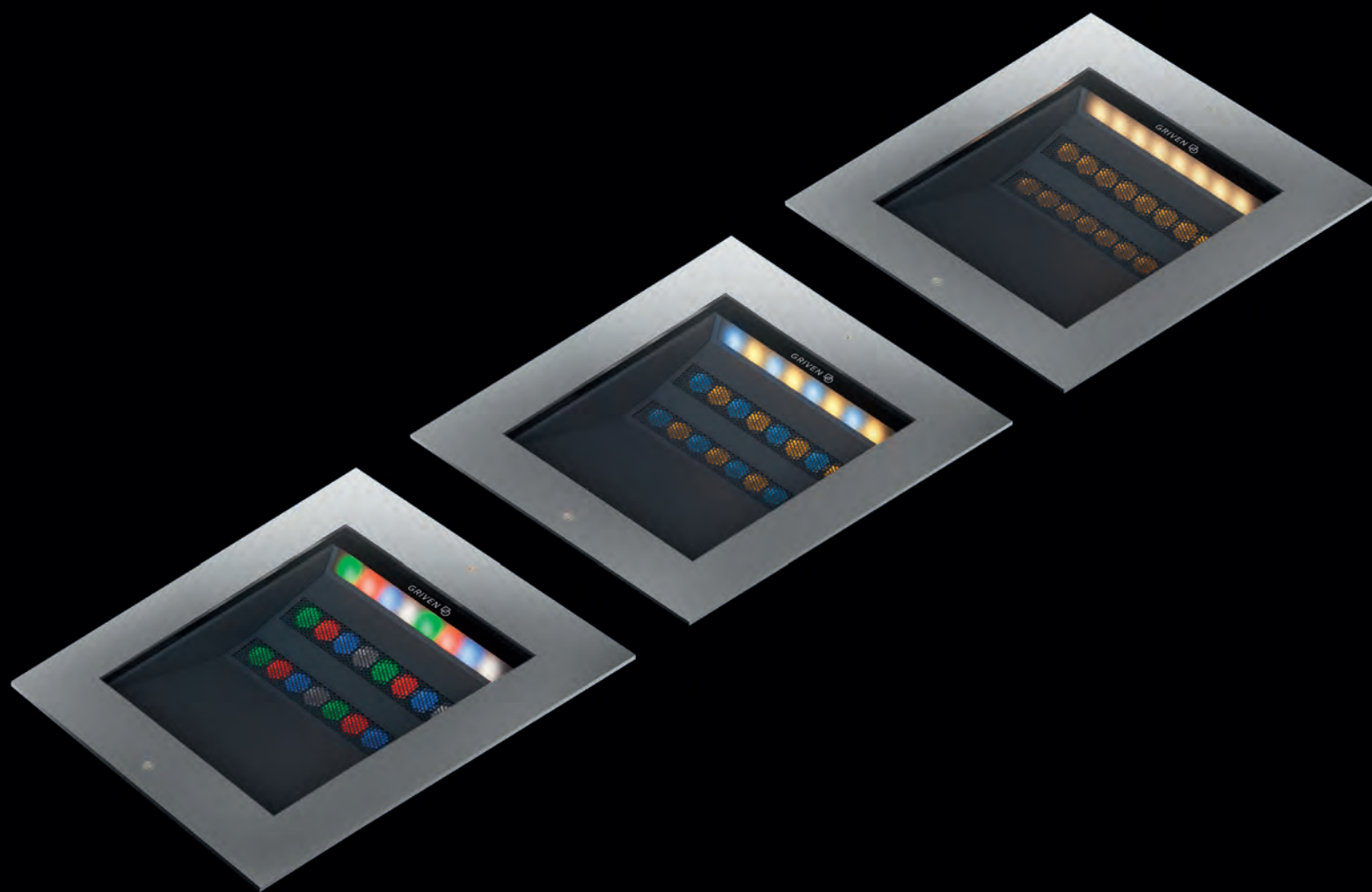
Ireland – Phoenix Column, Dublin



GEA

BY FRANCESCA STORARO

GEA



DESCRIPTION

Conceived and engineered according to the specifications of the renowned lighting designer Francesca Storaro, GEA is an innovative in-ground luminaire standing out for its unique shape, function, and performance. An unprecedented combination of different optics delivers an even wall wash effect on close-up or distant installations with a well-defined light projection up to 15 m. An elegant frame allows a seamless, discreet integration in pavements of historic or modern urban environments, while the in-built beehive filter prevents unpleasant glaring effects.

MAIN FEATURES

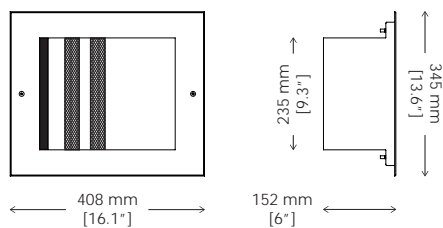
- Max. delivered lm output: 3412 lm / 68 lm/W
- Size: (LxWxD) 408x345x152 mm / 16.1x13.6x6"
- Control system: DMX-RDM, remote wireless data
- High performance drive-over uplighter featuring a combination of 3 different optics for an even wall wash effect, on close-up or distant installations.

LED COLOUR CONFIGURATIONS

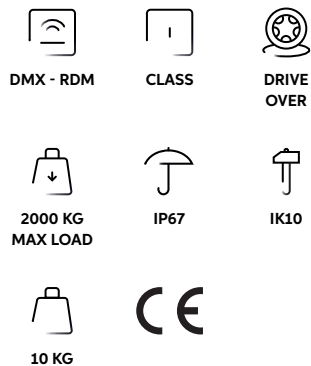


GEA

BY FRANCESCA STORARO



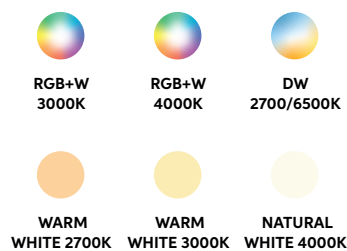
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL8410 GEA

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
GEA RGBW	50	2276	45
GEA DW	50	3219	64
GEA W	50	3412	68

BEAM ANGLE REFERENCE

GEA features an unprecedented combination of three different optics:
SPOT
WALL WASH
ULTRA WIDE



Germany – Hellenstein Castle, Heidenheim



MOON RECESSED SERIES



DESCRIPTION

MOON RECESSED and MOON RECESSED ADJUSTABLE are the perfect solution for marking out paths, walkways, and entrances, as well as for a distinctive illumination of small architectural or landscape elements. Featuring a shallow recess depth for a hassle-free installation, this comprehensive series creates intense emotions through diverse lighting effects in every desired coloured or white shade. Fitted with stainless steel frame and remote PSU, these versatile uplighters also come in a flush-mount full-glass version for an even more elegant and discreet layout. A robust drive-over version is suitable for installation in vehicular areas.

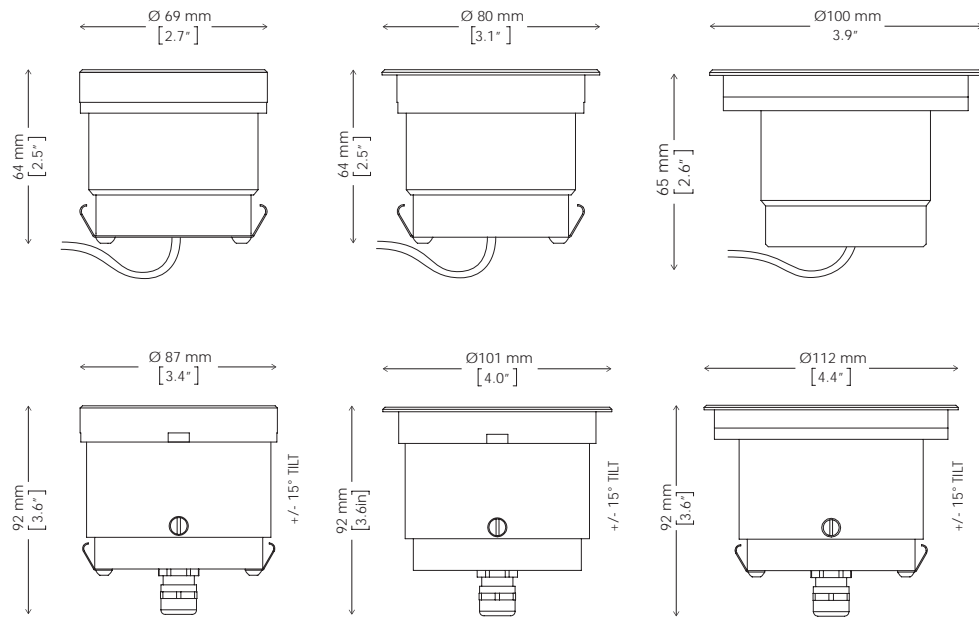
MAIN FEATURES

- Max. delivered lm output: 839 lm / 120 lm/W
- Max. size: (WxD) \varnothing 100x65 mm / \varnothing 3.9x2.6"
- Control system: DMX-RDM, DALI, ON-OFF, 0-10V, remote wireless data
- Small in-ground LED uplighters featuring either fixed or adjustable beam, available with stainless steel frame or full glass, in walk-over or drive-over versions

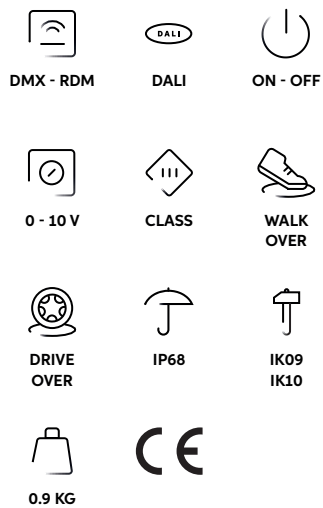
LED COLOUR CONFIGURATIONS



MOON RECESSED SERIES



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO

Moon Recessed



Moon Recessed Adjustable



CODES

AL5311 MOON RECESSED
AL5325 MOON RECESSED ADJUSTABLE

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MOON RECESSED RGBW	4.6	132	29
MOON RECESSED DW	4.6	211	46
MOON RECESSED W	7	839	120
MOON RECESSED US W	2.7	186	69
MOON REC. ADJUSTABLE RGBW	4.6	132	29
MOON REC. ADJUSTABLE DW	4.6	211	46
MOON REC. ADJUSTABLE W	7	839	120
MOON REC. ADJUSTABLE US W	2.7	186	69

BEAM ANGLE REFERENCE	RGBW/DW	W
ULTRASPOT	–	6°
NARROW	13°	18°
MEDIUM	23°	25°
WIDE	35°	35°
EXTRA WIDE	56°	50°



Ireland – Hampton Church, Dublin



HALF MOON RECESSED



DESCRIPTION

HALF MOON RECESSED is an extremely compact in-ground LED uplighter delivering a distinctive light output for directive application or decorative lighting patterns creation. Its external PSU and shallow recess depth allow a comfortable installation even in the smallest spaces. It is the perfect solution for functional orientation signalling, and for marking out paths, walkways, entrances or small landscape features in delicate pastel tones or intense white shades.

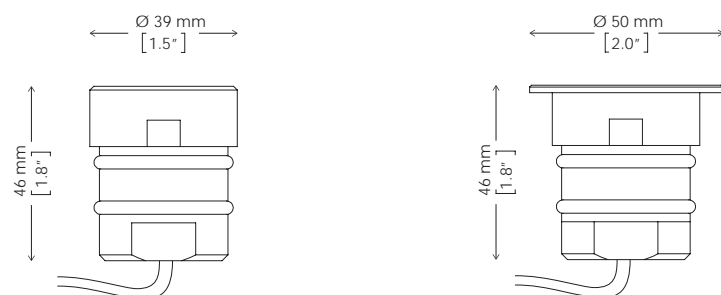
MAIN FEATURES

- Max. delivered lm output: 229 lm / 92 lm/W
- Max. size: (WxD) \varnothing 51x46 mm / \varnothing 2x1.8"
- Control system: DMX-RDM, DALI, ON-OFF, 0-10V, remote wireless data
- Extremely compact in-ground LED up-lighter for decorative or functional applications available with stainless steel frame or in a flush-mount version

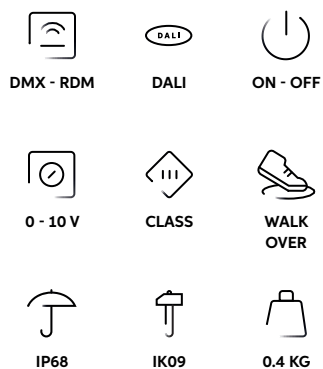
LED COLOUR CONFIGURATIONS



HALF MOON RECESSED



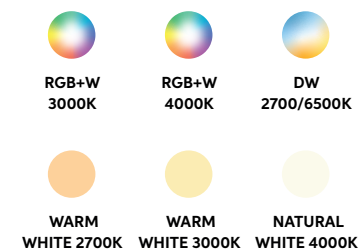
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

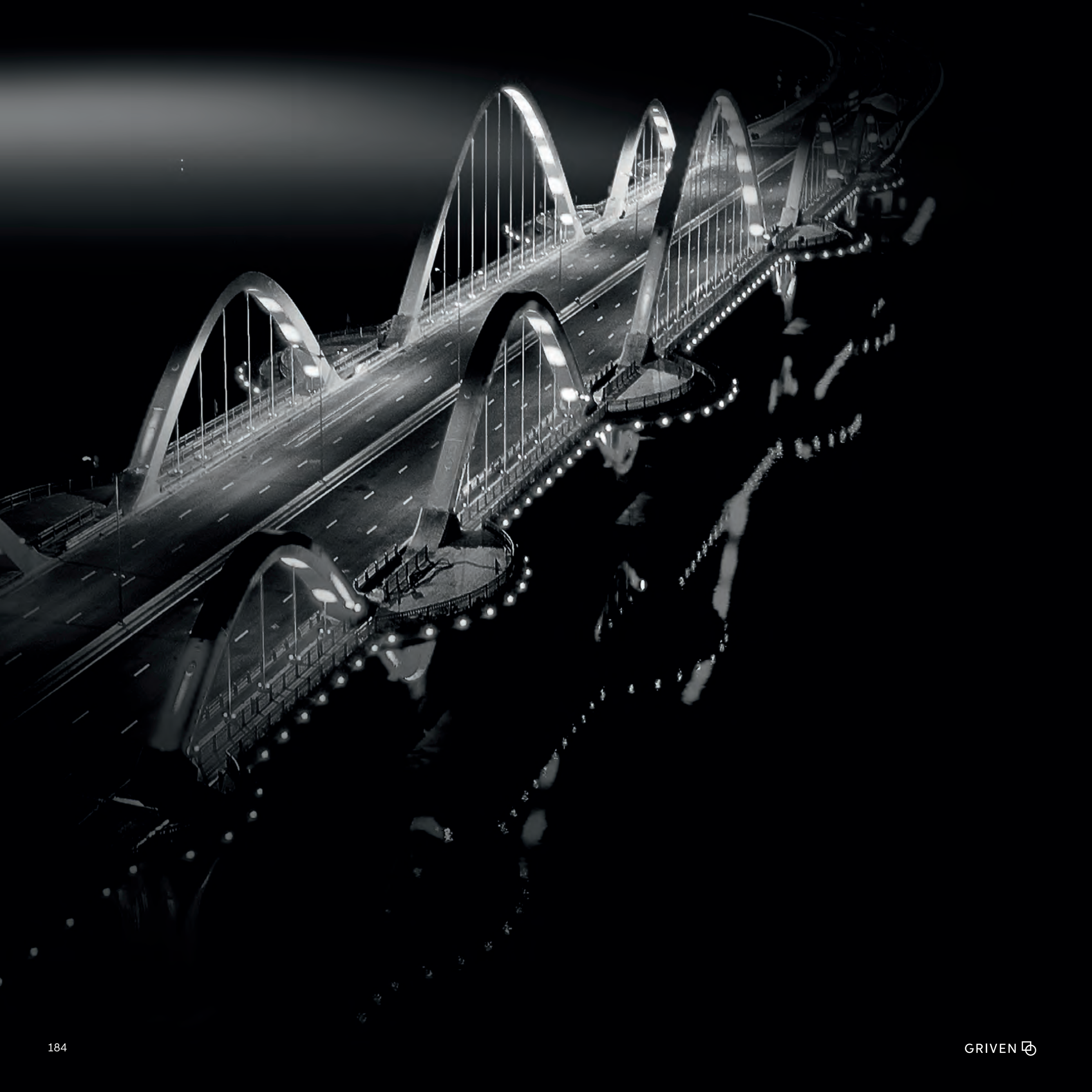
AL5317 HALF MOON RECESSED

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
HALF MOON RECESSED RGBW	1.5	14	9
HALF MOON RECESSED DW	1.5	24	16
HALF MOON RECESSED W	2.5	229	92

BEAM ANGLE REFERENCE	RGBW/DW	WHITE
OPALINE DIFFUSER	120°	-
NARROW	-	12°
MEDIUM	-	23°
WIDE	-	43°



Typical product installation



MULTIMEDIA PIXEL LIGHTING

Engineered for multimedia pixel applications, these RGBW, RGB, solid or tunable white light and, on request, monochrome fixtures offer a broad choice of versatile solutions for the creation of dynamic, life inspirational visual concepts. A comprehensive range of fully weatherised single spot units and modular linear profiles feature self-addressing assignment and instant, independent control over each pixel.

Such technologically advanced products, with terrific application flexibility for both surface mount and recessed use, can screen low-resolution video files or graphic patterns, utterly transforming architectural spaces and, when combined with other media, generating a brand new interactive entertainment.



GRAPH-I-CELL



DESCRIPTION

Fitted with a dome shaped opaline diffuser for a sharp image rendition and an optimal peripheral visibility, this high brightness single pixel fixture can be easily assembled with other units of its kind to screen low-resolution video files and graphic patterns in coloured and white light. GRAPH-I-CELL can be integrated with the existing architecture while shaping a brand new outstanding ambience.

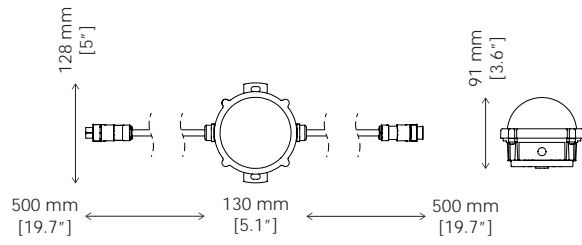
MAIN FEATURES

- Max. delivered lm output: 630 lm / 48 lm/W
- Size: (HxWxD) 130x128x91 mm / 5.1x5x3.6"
- Control system: DMX, self-addressing
- High brightness single pixel fixture for the creation of multiple graphic patterns and low resolution video files on large scale façades

LED COLOUR CONFIGURATIONS



GRAPH-I-CELL



FEATURES



DMX



SELF-ADDR



CLASS



IP66



IK10



0.5 KG



OPTIONS



ANTI-SALINE



ETL PENDING

LED COLOUR CONFIGURATIONS



RGB+W
3000K



RGB+W
4000K



RGB



DW
2700/6500K



WARM
WHITE 2700K



WARM
WHITE 3000K



NATURAL
WHITE 4000K

FINISHES



BLACK
RAL9005



ANTHRACITE
RAL7016



GREY
RAL9006



WHITE
RAL9003



RAL ON
REQUEST

MORE INFO



CODES

AL4505 GRAPH-I-CELL 3

AL4506 GRAPH-I-CELL 4

PERFORMANCE

WATT

MAX LM OUTPUT

LM WATT

GRAPH-I-CELL 3 RGB

13

494

38

GRAPH-I-CELL 4 RGBW

13

630

48

PIXEL PITCH

GRAPH-I-CELL
(all versions)

130 mm (min.)

BEAM ANGLE REFERENCE

OPALINE DOME

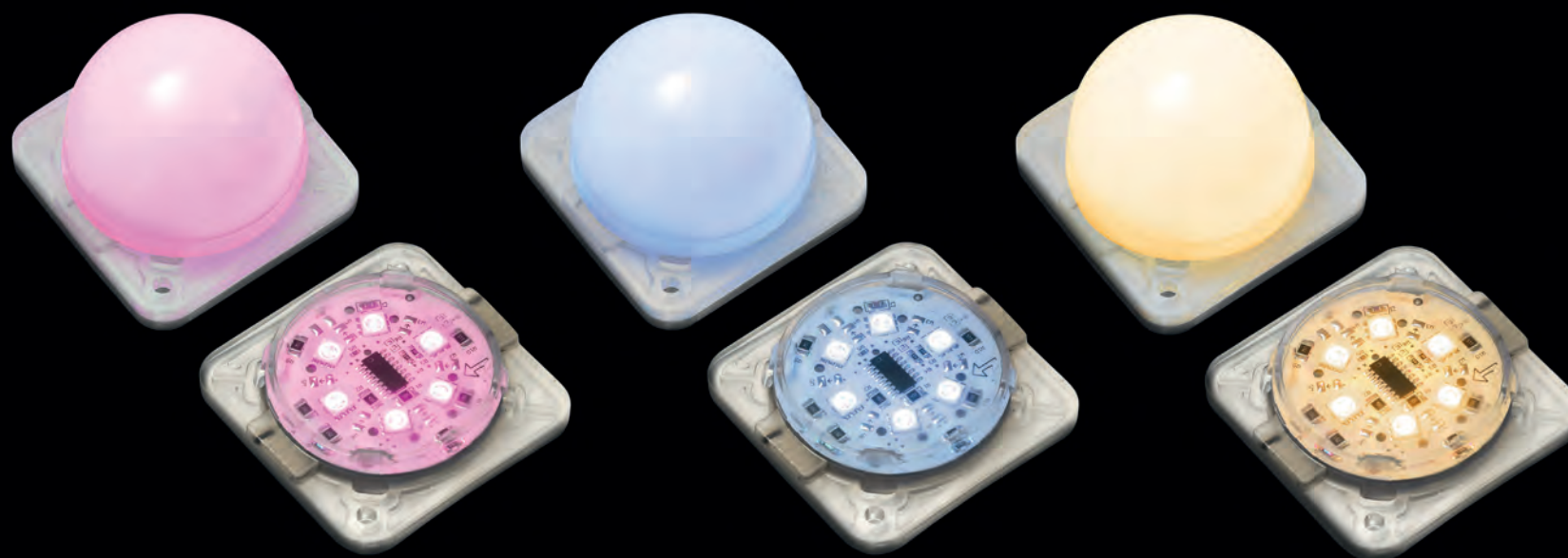
124°



Vietnam – Cua Luc 1 Bridge, Ha long



GRAPH-I-DOT



DESCRIPTION

GRAPH-I-DOT is a highly performing compact module fitted with six multichip LEDs for ultra-luminous display of low-resolution video files and graphic patterns for an endless creation of dynamic visual concepts. Featuring pixel pitch adjustment and outdoor rated configuration, even for underwater applications in its flat lens version, GRAPH-I-DOT is also available with alternative opaline dome to enable maximum installation adaptability and design flexibility.

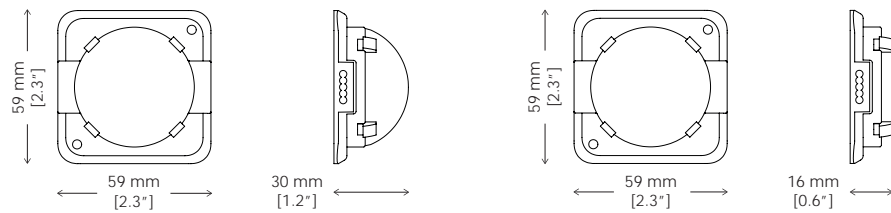
MAIN FEATURES

- Max. delivered lm output: 64 lm / 44 lm/W
- Size: (HxWxD) 59x59x30/16 mm / 2.3x2.3x1.2/0.1"
- Control system: DMX, self-addressing
- Ultra compact module for the creation of multiple graphic patterns and images on large-scale façades

LED COLOUR CONFIGURATIONS



GRAPH-I-DOT



FEATURES



DMX



SELF-ADDR



CLASS



IP65
IP68



IK10



0.08-
0.055 KG



OPTIONS



ETL PENDING

LED COLOUR CONFIGURATIONS



RGB



DW
2700/6500K



WARM
WHITE 3000K



NATURAL
WHITE 4000K

MORE INFO



CODES

AL4700 GRAPH-I-DOT

PERFORMANCE

	WATT	MAX LM OUTPUT	LM WATT
GRAPH-I-DOT RGB	1.4	29	20
GRAPH-I-DOT DW	1.4	64	44
GRAPH-I-DOT W	1.4	64	44

PIXEL PITCH

GRAPH-I-DOT
(all versions)

220 mm (*)
(*) on request: from 150 mm
min. to 3000 mm max.

BEAM ANGLE REFERENCE

OPALINE DOME	180°
FLAT CLEAR DIFFUSER	180°



Vietnam – Rao 1 Bridge, Hai Phong



GRAPH-I-LINE



DESCRIPTION

GRAPH-I-LINE 20 and 40 enable an endless layout of patterns and graphics for a rich and dynamic vibrant display. The variable adjustment of the pixel pitch resolution, enhanced by a choice of either clear or opaline diffuser for a peripheral or direct view selection, offers boundless design creativity. IK10 impact protection, IP66 ingress protection, RGBW, RGB, white, and, on request, monochrome configurations guarantee supreme design versatility.

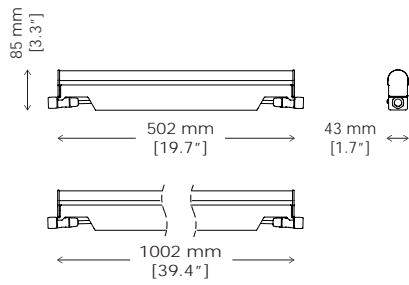
MAIN FEATURES

- Max. delivered lm output: 20: 122 lm / 40: 244 lm / 14 lm/W
- Size: (LxWxD) 502/1002x85x43 mm / 19.7/39.4x3.3x1.7"
- Control system: DMX, self-addressing
- Powerful LED module for the creation of an endless layout of patterns and graphics on large scale façades

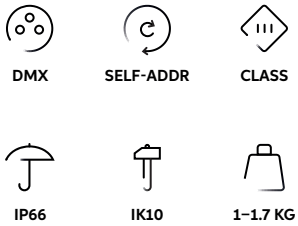
LED COLOUR CONFIGURATIONS



GRAPH-I-LINE



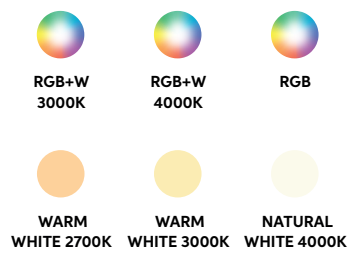
FEATURES



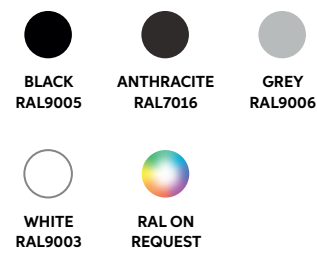
OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO



CODES

AL5048 GRAPH-I-LINE 20
AL5049 GRAPH-I-LINE 40

PERFORMANCE	WATT	MAX LM OUTPUT	LM WATT
GRAPH-I-LINE 20 CLEAR	9	122	14
GRAPH-I-LINE 20 OPALINE	9	94	10
GRAPH-I-LINE 40 CLEAR	18	244	14
GRAPH-I-LINE 40 OPALINE	18	189	10

PIXEL PITCH

GRAPH-I-LINE 20	25 mm (min.)
GRAPH-I-LINE 40	25 mm (min.)

BEAM ANGLE REFERENCE

OPALINE DOME	90° x 150°
CLEAR DOME	120°



Qatar – THE e18hteen, Lusail City



GRAPH-I-PIX



DESCRIPTION

Featuring an independent 8-pixel configuration, GRAPH-i-PIX is capable of reproducing almost any graphic visual concept on large scale façades, where more modules can comfortably be set up for a uniform visual pattern layout. Perfectly blending with any architectural environment owing to its ultra-slim profile, this striking direct-view advanced lighting solution stands out for its functionality and versatility. By incorporating extraordinary pixel mapping features, it allows the most creative designers to sculpt 3D elements and abstract imagery with solid artistic impact.

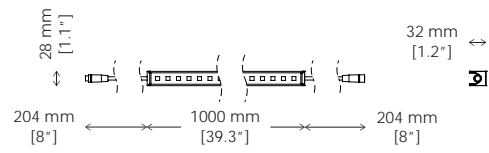
MAIN FEATURES

- Max. delivered lm output: 314 lm / 26 lm/W
- Size: (LxWxD) 1000x28x32 mm / 39.3x1.1x1.2"
- Control system: DMX, self-addressing
- Ultra-slim profile featuring an independent 8-pixel configuration for the creation of almost any graphic visual concept on large scale façades

LED COLOUR CONFIGURATIONS



GRAPH-I-PIX



FEATURES



DMX



SELF-ADDR



CLASS



IP66



IK08



0.68 KG



OPTIONS



ETL PENDING

LED COLOUR CONFIGURATIONS



RGB+W
3000K



RGB+W
4000K



RGB

MORE INFO



CODES

AL5220 GRAPH-I-PIX RGB
AL5235 GRAPH-I-PIX RGBW

PERFORMANCE

OPALINE DIFFUSER
CLEAR GLASS

WATT

12
12

MAX LM OUTPUT

140
314

LM WATT

12
26

PIXEL PITCH

OPALINE DIFFUSER
CLEAR GLASS

125 mm (min.)
125 mm (min.)

BEAM ANGLE REFERENCE

OPALINE DIFFUSER
CLEAR GLASS

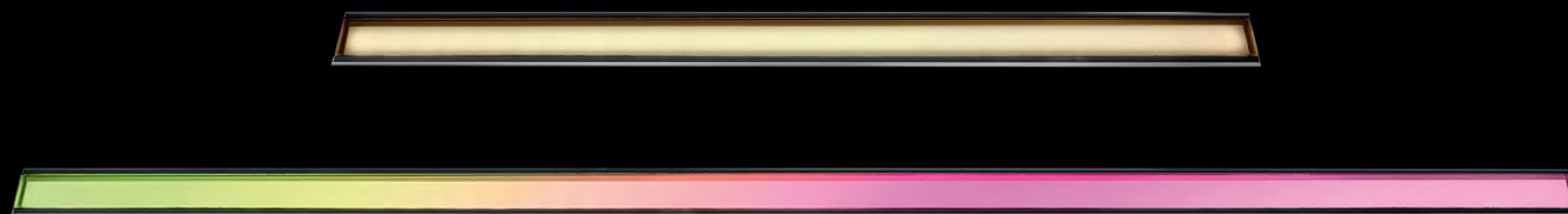
115°
105°



Vietnam – Hoang Van Thu Bridge, Hai Phong



MOLED GRAPHIC



DESCRIPTION

MOLED GRAPHIC is a high impact linear profile for decorative and signalling in-ground use. Available either with 20 or 40 independent RGBW, RGB, white, and, on request, monochrome LEDs, MOLED GRAPHIC can enable an endless layout of patterns and graphics displays. Featuring extremely compact size and lightweight manageability, MOLED GRAPHIC is equipped with 19 mm thick tempered glass and AISI 316L stainless steel housing, further strengthened by a special micro shot-peening treatment to make the light line homogeneous and the surface shock-resistant.

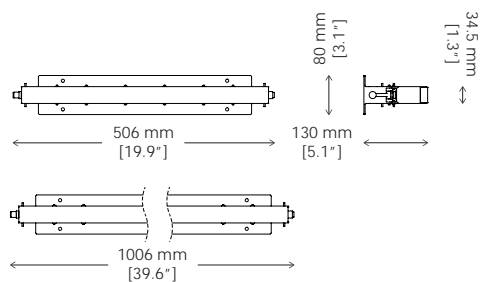
MAIN FEATURES

- Max. delivered lm output: 20: 57 lm / 3 lm/W / 40: 115 lm / 6 lm/W
- Size: (LxWxD) 506/1006x80x130 mm / 19.9/39.6x3.1x5.1"
- Control system: DMX, self-addressing
- High impact linear profile for decorative and signalling in-ground use

LED COLOUR CONFIGURATIONS



MOLED GRAPHIC



FEATURES



DMX



SELF-ADDR



CLASS



WALK
OVER



IP67



IK09



4.3-8.6 KG



OPTIONS



ETL PENDING

LED COLOUR CONFIGURATIONS



RGB+W
3000K



RGB+W
4000K



RGB



WARM
WHITE 2700K



WARM
WHITE 3000K



NATURAL
WHITE 4000K

MORE INFO



CODES

AL4367 MOLED GRAPHIC 20

AL4368 MOLED GRAPHIC 40

PERFORMANCE	WATT	MAX LM OUTPUT	LM WATT
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MOLED GRAPHIC 20

9

57

6

MOLED GRAPHIC 40

18

115

6

PIXEL PITCH

MOLED GRAPHIC 20

25 mm (min.)

MOLED GRAPHIC 40

25 mm (min.)

BEAM ANGLE REFERENCE	RGBW/RGB	DW/W
----------------------	----------	------

OPALINE GLASS

180°

180°



Typical product installation



IMAGE PROJECTORS

This series offers multiple solutions to the most demanding application requirements in the global market of display projection. Company logos, promotional campaigns, graphic designs or decorative patterns can be easily projected, with a bright and accurate rendition, onto surfaces of almost any kind in the most diverse

permanent outdoor and indoor locations. Packed with groundbreaking LED technology, a broad choice of assorted light outputs and beam angle apertures, besides multiple effects and patterns, these image projectors offer maximum versatility, flexibility and dynamism to the most creative light planning integration.



GOBOLED 500

GOBOLED 500



DESCRIPTION

Packed with multiple effects, patterns and a motorized zoom, GOBOLED 500 offers broad creative design integration for permanent exterior installations. Fitted with one high power LED, this cutting-edge image projector delivers a bright and accurate rendition of graphic designs, logos and animations in outdoor and indoor locations.

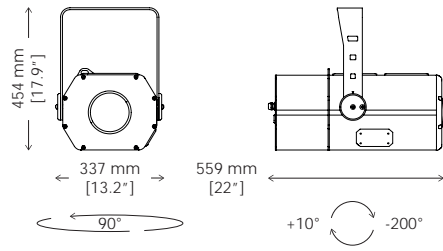
MAIN FEATURES

- Max. delivered lm output: 9800 lm / 23 lm/W (min. zoom) / 13834 lm / 33 lm/W (max. zoom)
- Size: (HxWxD) 337x559x454 mm / 13.2x22x17.9"
- Control system: DMX/RDM, remote wireless data
- LED image projector for broad creative design integration for permanent exterior installations

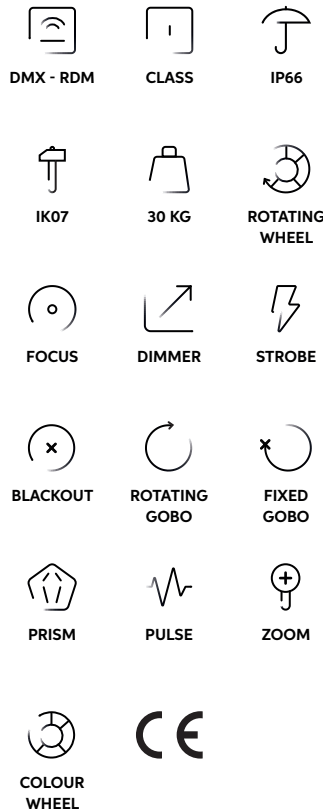
LIGHT EFFECTS



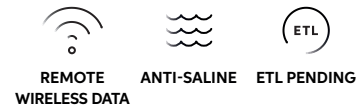
GOBOLED 500



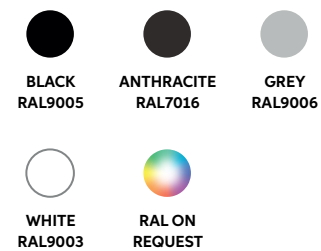
FEATURES



OPTIONS



FINISHES



MORE INFO



CODES

AL5179 GOBOLED 500

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
GOBOLED 500	560W (heater on) 425W (heater off)	9800 (min. zoom) 13834 (max. zoom)	23 (min. zoom) 33 (max. zoom)

BEAM ANGLE REFERENCE

MOTORIZED ZOOM 6° ÷ 37°



Chechen Republic, Russia – The Pride of Muslims Mosque, Shali



GOBOLED 80 D

GOBOLED 80 D



DESCRIPTION

Projecting a bright and accurate rendition of graphic designs, logos and patterns in outdoor and indoor locations with the help of a dichroic or metal gobo, the versatile image projector GOBOLED 80 D, fitted with a single powerful LED, provides maximum creativity, dynamism and flexibility for the most demanding design and application requirements.

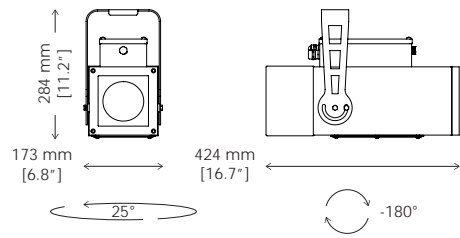
MAIN FEATURES

- Max. delivered lm output: 1621 lm / 16 lm/W
- Size: (HxWxD) 173x424x284 mm / 6.8x16.7x11.2"
- Control system: DMX, remote wireless data
- LED image projector for a bright and accurate rendition of graphic designs, logos and patterns in outdoor and indoor locations

LIGHT EFFECTS



GOBOLED 80D



FEATURES



DMX



CLASS



IP65



IK07



8.7 KG



FOCUS



DIMMER



STROBE



BLACKOUT



ROTATING
GOBO



OPTIONS



REMOTE
WIRELESS DATA



ANTI-SALINE



ETL PENDING

FINISHES



BLACK
RAL9005



ANTHRACITE
RAL7016



GREY
RAL9006



WHITE
RAL9003



RAL ON
REQUEST

CODES

AL2502 GOBOLED 80 D

PERFORMANCE

WATT

MAX LM OUTPUT

LM/WATT

GOBOLED 80 D

100

1621 lm max

16

BEAM ANGLE REFERENCE

MANUAL ADJUSTMENT
OF FOCUS AND LINEAR ZOOM

18° ÷ 34°

MORE INFO





France – Archives et Bibliothèque départementales Gaston Defferre, Marseille



UNDERWATER LIGHTING

Specifically designed for underwater use, these leading-edge LED light luminaires have been completely restyled and optimized to meet the newest aesthetic trends and market expectations. Now featuring an elegant, captivating design with black printed front glass and a clean, thin profile, the range has been enriched with an appealing newcomer of reduced dimensions. Perfectly fulfilling the latest market demands with capturing performances, these submerged fixtures are the ideal choice for dependable and durable installation in fountains, waterfalls, reflecting and decorative pools and for many other underwater applications, also in chlorine water and marine environment.

The combination of premium class RGBW LEDs, featuring either 4000K or 3000K white, delivers the widest range of warm white shades and pastel tones assortment.

Now available also in tunable white, these fixtures can be supplied in white light and, on request, monochrome or multiple bespoke colour selection versions, further ensuring maximum chromatic adaptability. DMX-RDM digital control system adds up to the infrared remote control option, available for the three larger models, for an even more comfortable and hassle-free fixture management.

With Full Dry IP68 rating and AISI 316L stainless steel housings, these products combine extraordinary luminous efficiency with a vast optics selection for the most versatile design solutions, assured also by the different wattage, compactness and power featured by the various models.



MAXI WATERLED MK3



DESCRIPTION

Providing an astonishingly performing light output from a restyled, elegant chassis, MAXI WATERLED MK3 is capable of enhancing wide-scale underwater applications with multicolour and tunable or solid white light effects. Fitted with AISI 316L stainless steel housing, it relies upon an IP68 protection rating and is the ideal choice for a huge variety of submerged installations in chlorine water and marine environment. DMX-RDM digital control system adds up to the infrared remote control option for a comfortable and hassle-free fixture management.

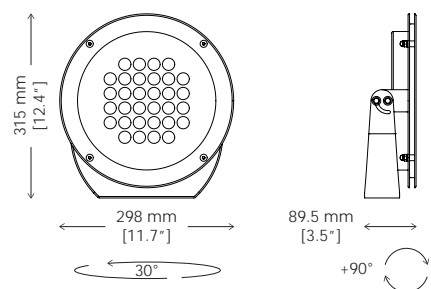
MAIN FEATURES

- Max. delivered lm output: 9030 lm /105 lm/W
- Size: (HxWxD) 315x298x89.5 mm / 12.4x11.7x3.5"
- Control system: DMX-RDM
- Powerful underwater LED fixture specific for a huge variety of large-scale submerged installations in chlorine water and marine environment

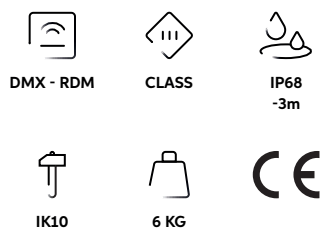
LED COLOUR CONFIGURATIONS



MAXI WATERLED MK3



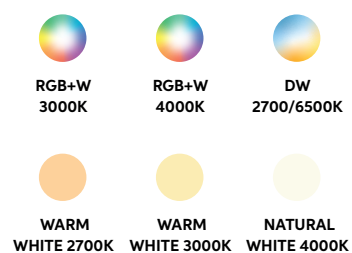
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL8377 MAXI WATERLED MK3

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MAXI WATERLED MK3 RGBW	65	4025	62
MAXI WATERLED MK3 DW	86	8201	95
MAXI WATERLED MK3 W	86	9030	105

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	61°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	23° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 38°



Egypt – Almasa Royal Palace, New Capital



WATERLED MK3



DESCRIPTION

To be used in large to medium sized water features, WATERLED MK3, with its refined and elegant AISI 316L stainless steel housing, relies upon an IP68 protection rating and is the ideal choice for a huge variety of lighting installations in chlorine water and marine environment. Delivering dynamic colourful or white light effects, the extraordinary luminous output of this fixture does not compromise environmentally friendly consumption rates. DMX-RDM digital control system adds up to the infrared remote control option for an even more comfortable and straightforward fixture management.

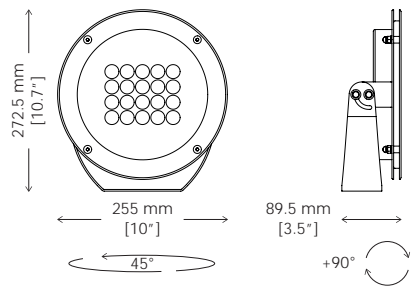
MAIN FEATURES

- Max. delivered lm output: 5040 lm / 105 lm/W
- Size: (HxWxD) 272.5x255x89.5 mm / 10.7x10x3.5"
- Control system: DMX-RDM
- Underwater LED fixture specific for a huge variety of large to medium sized installations in chlorine water and marine environment

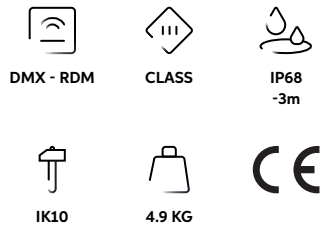
LED COLOUR CONFIGURATIONS



WATERLED MK3



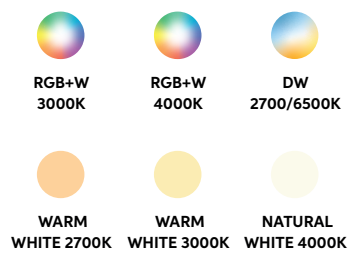
FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL8373 WATERLED MK3

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
WATERLED MK3 RGBW	39	1788	46
WATERLED MK3 DW	48	5040	105
WATERLED MK3 W	48	5040	105

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	61°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	23° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 38°



France – Place de la Liberation, Dijon



MINI WATERLED MK3

MINI WATERLED MK3



DESCRIPTION

Small size fountains and waterfalls, as well as reflecting pools, are the ideal applications for the compact marine-grade MINI WATERLED MK3, now restyled and further optimised. The superior lumens life assisted by the on-board electronic thermal management exceeds the industry standards lifetime. The certified IP68 Class III rating and heavy-duty AISI 316L stainless steel body define the virtually maintenance free performance. DMX-RDM digital control system adds up to the infrared remote control option for an even more comfortable and straightforward fixture management.

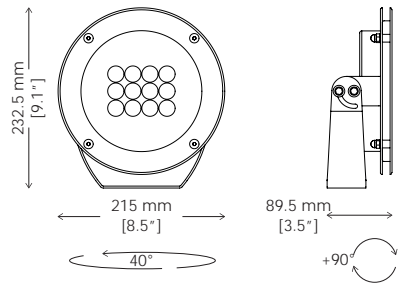
MAIN FEATURES

- Max. delivered lm output: 2625 lm / 105 lm/W
- Size: (HxWxD) 232.5x215x89.5 mm / 9.1x8.5x3.5"
- Control system: DMX-RDM
- Compact underwater LED fixture specific for small-sized installations in chlorine water and marine environment

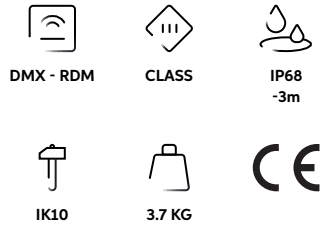
LED COLOUR CONFIGURATIONS



MINI WATERLED MK3



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL8369 MINI WATERLED MK3

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MINI WATERLED MK3 RGBW	25	779	31
MINI WATERLED MK3 DW	25	1200	48
MINI WATERLED MK3 W	25	2625	105

BEAM ANGLE REFERENCE	RGBW	DW/W
SPOT	8°	12°
NARROW	12°	15°
MEDIUM	23°	25°
WIDE	44°	48°
EXTRA WIDE	59°	61°
ELLIPTICAL	9° x 42°	14° x 39°
ELLIPTICAL WIDE	19° x 39°	23° x 37°
WALL WASH	14° (5° incline) x 37°	19° (5° incline) x 38°



Typical product installation



MICRO WATERLED MK3

MICRO WATERLED MK3



DESCRIPTION

Ideal fit for a huge variety of small-sized underwater features, MICRO WATERLED MK3 is equipped with one quad-colour LED for superior colour mixing directly at the lens. This extremely compact fixture is a visually appealing solution capable of delivering smooth transitioning and optimal colour consistency. Suitable for installation in shallow waters or along pools or fountains borders owing to its reduced size, it creates an amazing variety of light games and patterns in coloured, as well as in tunable white light.

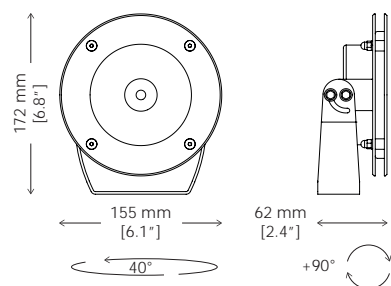
MAIN FEATURES

- Max. delivered lm output: 413 lm / 46 lm/W
- Size: (HxWxD) 172x155x62 mm / 6.8x6.1x2.4"
- Control system: DMX-RDM
- Ultra compact underwater LED fixture specific for small sized installations in chlorine water and marine environment

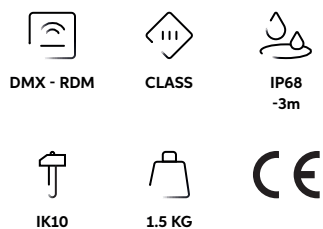
LED COLOUR CONFIGURATIONS



MICRO WATERLED MK3



FEATURES



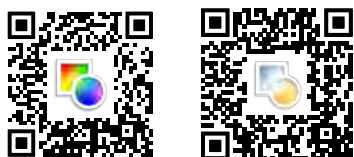
OPTIONS



LED COLOUR CONFIGURATIONS



MORE INFO



CODES

AL8365 MICRO WATERLED MK3

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MICRO WATERLED MK3 RGBW	9	242	27
MICRO WATERLED MK3 DW	9	413	46

BEAM ANGLE REFERENCE	RGBW	DW
SPOT	8°	8°
NARROW	10°	10°
MEDIUM	25°	25°
WIDE	37°	37°



Typical product installation



LANDSCAPE LIGHTING

Specifically developed for the smart enhancement of landscape or architectural elements in the most different open-air locations, this brand new series of elegant luminaires enters a till now unexplored market for Griven, supported by the awareness and experience of a long-term know-how in the lighting industry. Extreme care and attention have been paid down to the smallest detail to deliver a first-in-class product range, standing out for its refined shape and brilliant performance. Specific for the emotional highlighting of private gardens or public landscapes, these small bollards are capable of enhancing outdoor ambiances in an effective, impactful way through the creation of well-defined lighting impressions.

Fitted with a professional technology for smart colour management, the dynamic colour changing LED configurations of this groundbreaking series ensure a considerable surplus value within a traditional white light offer. To further enlarge the product versatility, the white light models feature both solid and tunable

white light options for the utmost design flexibility. The RGBW and tunable white luminaires of the series can be controlled via DMX-RDM, while ON-OFF, DALI, and 1-10V dimmer control options are available for the solid white light fixtures, according to the chosen PSU. These decorative luminaires can either feature an in-built power supply unit, allowing the simultaneous management of multiple units, or a remote driver for a comfortable installation even in the smallest spaces.

Equipped with an elegant brass swivel for +90/-90° adjustment, these small bollards are available in three different heights and with a choice of mounting accessories for a comfortable ground installation either in grass or in concrete paving. Numerous bespoke and standard finish colour options take this remarkable range to a superior level. Different models, alternatively featuring brass swivel, one-tone finish or lockable head options, are available for the utmost design flexibility. The Spike versions come with a 10 cm long picket for direct installation in the ground.



FULL MOON BOLLARD



DESCRIPTION

Fitted with in-built PSU, FULL MOON BOLLARD is a refined and compact white light LED luminaire specific for the fancy enhancement of landscape details in green areas of large dimensions. It is also an optimal solution for both decorative and functional accent and floodlighting in private or public environments. Available in three different heights, it features a choice of mounting accessories for a comfortable ground installation either in grass or in concrete paving. Different models, alternatively featuring brass swivel, one-tone finish or lockable head options, are available for the utmost design flexibility.

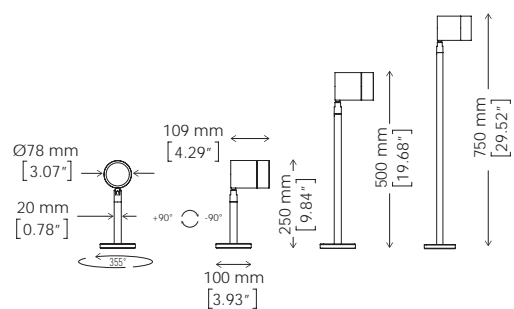
MAIN FEATURES

- Max. delivered lm output: 2098 lm / 105 lm/W
- Size: (HxWxD) Ø 78 250/500/750x100x109 mm / Ø 3.07" 9.84/19.68/29.52x3.93x4.29"
- Control system: ON-OFF, TRIAC
- Small-sized bollard series specific for the enhancement of architectural or landscape details through refined accent and flood light effects

LED COLOUR CONFIGURATIONS



FULL MOON BOLLARD



FEATURES



ON - OFF



TRIAC



CLASS



IP67



IK08



1.4-1.8 KG



OPTIONS



ANTI-SALINE



ETL PENDING

LED COLOUR CONFIGURATIONS



WARM
WHITE 2700K



WARM
WHITE 3000K



NATURAL
WHITE 4000K

FINISHES



BLACK
RAL9005



ANTHRACITE
RAL7016



GREY
RAL9006



WHITE
RAL9003



OLIVE GREY
RAL7002



RAL ON
REQUEST

MORE INFO



CODES

AL5302 FULL MOON BOLLARD

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
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FULL MOON BOLLARD W	20	2098	105
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BEAM ANGLE REFERENCE	W
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NARROW	18°
MEDIUM	25°
WIDE	35°
EXTRA WIDE	50°



Photorealistic 3D rendering of a typical product installation



MOON BOLLARD / SPIKE



DESCRIPTION

Engineered to enhance landscape and architectural details in residential or commercial areas with a refined accent lighting, MOON BOLLARD and MOON SPIKE create intense emotions through soft lighting effects in both coloured and white light. Fitted with remote PSU, the bollards are available in three different heights and with a choice of mounting accessories for a comfortable placement. The SPIKE version comes with a 10 cm long picket for direct installation in the ground. Different models, alternatively featuring brass swivel, one-tone finish or lockable head options, boost product flexibility.

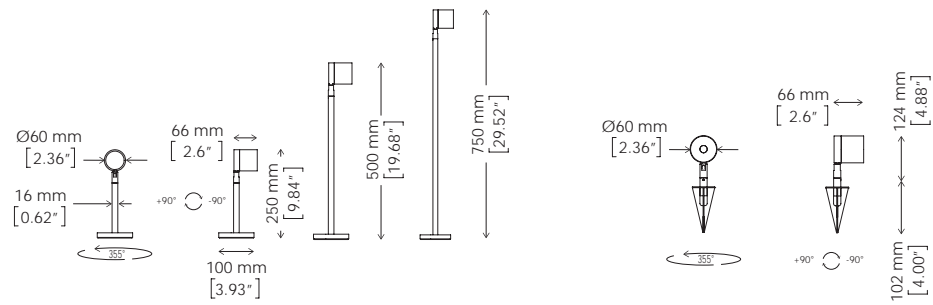
MAIN FEATURES

- Max. delivered lumen output: 1522 lm / 122 lm/W
- Size: (HxWxD) Bollard Ø60 250/500x100x66 mm / Ø 2.36 9.84/19.68/29.52x3x3.93x2.6" Spike: Ø60 124+102x66 mm / Ø 2.36 4.88+4x2.6"
- Control system: DMX-RDM, DALI, ON-OFF, remote wireless data
- Compact bollards specific for the enhancement of landscape and architectural details through refined accent lighting effects

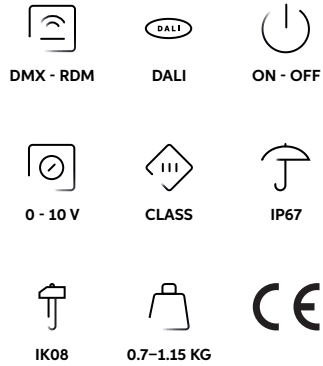
LED COLOUR CONFIGURATIONS



MOON BOLLARD / SPIKE



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO

Moon Bollard



Moon Spike



CODES

AL5310 MOON BOLLARD
AL5314 MOON SPIKE

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
MOON BOLLARD RGBW	9	242	27
MOON BOLLARD DW	9	413	46
MOON BOLLARD W	12.5	1522	122
MOON BOLLARD US W	3	251	84
MOON SPIKE RGBW	9	242	27
MOON SPIKE DW	9	413	46
MOON SPIKE W	12.5	1522	122
MOON SPIKE US W	3	251	84

BEAM ANGLE REFERENCE	RGBW/DW	WHITE
ULTRA SPOT	–	6°
NARROW	13°	18°
MEDIUM	23°	25°
WIDE	35°	35°
EXTRA WIDE	56°	50°



Italy – Architecture and design event, Milan



HALF MOON BOLLARD / SPIKE



DESCRIPTION

HALF MOON BOLLARD is an extremely compact LED luminaire capable of enhancing outdoor ambiances with discretion and elegance through the creation of refined accent lighting effects in both coloured and white light. Fitted with remote PSU, it highlights architectural or landscape details with extreme precision. Available in three different heights, it alternatively features brass swivel or one-tone finish, and can be fitted with different mounting accessories for a comfortable in-ground placement. The SPIKE version comes with a 10 cm long picket for direct installation in the ground.

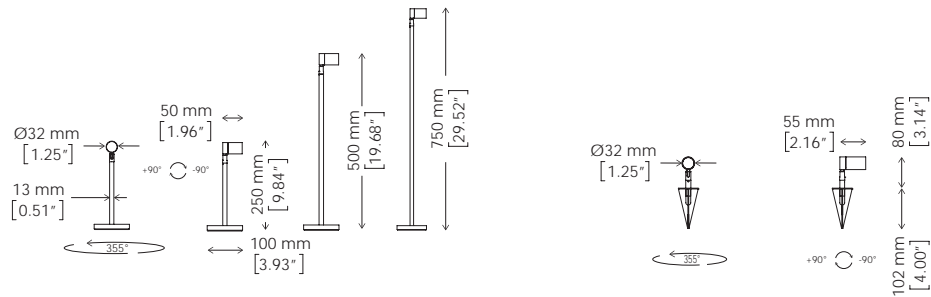
MAIN FEATURES

- Max. delivered lm output: 273 lm / 91 lm/W
- Size: (HxWxD) Bollard Ø 32
250/750/500x100x50/55 mm / Ø 1.26
9.84/19.68/29.52x3.93x1.96/ Ø 2.16"
Spike: Ø 32 80+102x50/55 mm / Ø 1.25
3.14+4x1.97/ Ø 2.16"
- Control system: DMX-RDM, DALI, ON-OFF, remote wireless data
- Extremely compact bollards specific for the enhancement of essential landscape or architectural details

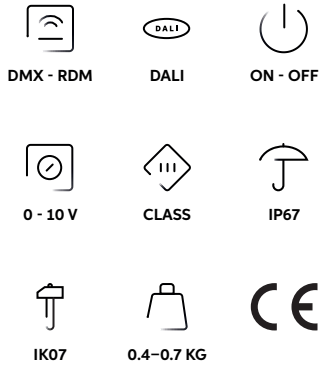
LED COLOUR CONFIGURATIONS



HALF MOON BOLLARD/SPIKE



FEATURES



OPTIONS



LED COLOUR CONFIGURATIONS



FINISHES



MORE INFO

Half Moon Bollard



Half Moon Spike



CODES

AL5316 HALF MOON BOLLARD
AL5315 HALF MOON SPIKE

PERFORMANCE	WATT	MAX LM OUTPUT	LM/WATT
HALF MOON BOLLARD RGBW	3.5	32	9
HALF MOON BOLLARD DW	3.5	56	16
HALF MOON BOLLARD W	3	273	91
HALF MOON SPIKE RGBW	3.5	32	9
HALF MOON SPIKE DW	3.5	56	16
HALF MOON SPIKE W	3	273	91

BEAM ANGLE REFERENCE	RGBW/DW	WHITE
OPALINE DIFFUSER	120°	-
NARROW	-	12°
MEDIUM	-	23°
WIDE	-	43°



Italy – Private garden, Mantua

APPENDIX

PROTECTION DEGREE

DEFINITION OF INGRESS PROTECTION

(in accordance with the European regulation standard EN 60 598-1)

IP20

The classification of the protection degree specifies the resistance against the ingress of solids and liquids.

IP20

The first digit indicates the protection against penetration by dust and solid objects.

IP20

The second digit indicates the protection against infiltration by moisture and liquids.

IP20

0. No protection
1. Protected against ingress from large solid bodies ≥ 50 mm in \emptyset
2. Protected against ingress of medium sized solid foreign bodies ≥ 12 mm in \emptyset
3. Protected against ingress of small solid foreign bodies thicker than ≥ 2.5 mm in \emptyset
4. Protected against ingress of small solid foreign bodies thicker than ≥ 1 mm in \emptyset
5. Protected against ingress of harmful amounts of dust
6. Complete protection against dust

IP20

0. No protection
1. Protected against drops of liquid that fall vertically
2. Protected against drops of liquid that fall with a maximum inclination of 15°
3. Protected against drops of liquid that fall with a maximum inclination of 60°
4. Protected against water sprays from any direction having no harmful effect
5. Protected against water jets from any direction
6. Protected against heavy downpours or powerful water jets
7. Protected against the effects of immersion in water
8. Protected against indefinite submersion

COLOUR RENDERING INDEX (CRI)

The colour rendering index (CRI) is a quantitative measure of the ability of a light source to reproduce the colours of various objects faithfully in comparison with an ideal or natural light source.

- 2700K WARM WHITE - typical CRI: 80
- 3000K WARM WHITE - typical CRI: 80
- 4000K NATURAL WHITE - typical CRI: 80
- LEDs featuring a higher index are available on request.

CLASSIFICATION AND HOMOLOGATION



CLASS I

CLASS I

Fixtures that offer insulation CLASS I provide protection against electrical shock solely using the base insulation and the safe connection of all exposed conductive parts to an earth conductor.



CLASS II

CLASS II

Fixtures in which protection against electrical shock does not rely on basic insulation only, but in which additional safety precautions such as double insulation or reinforced insulation are provided, being there no provision for protective earthing or reliance upon installation conditions.



CLASS III

CLASS III

Fixtures in which protection against electrical shock relies on supply at Safety Extra Low Voltage (SELV) and in which voltages higher than those of SELV are not generated.



CE

The CE mark is the European regulation governing all products that are introduced to the market. The products that appear in this catalogue are built in compliance with the European Standard EN 60 598-1 and the European Directives CE 89/336 and CE 92/31 for electromagnetic compatibility and CE 73/23 for low voltage.

RoHS

RoHS

All the products contained in this catalogue comply with the directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2002/95/EC, commonly referred to as the Restriction of Hazardous Substances directive (RoHS), and with the Waste Electrical and Electronic Equipment directive (WEEE) 2002/96/EC, which sets collection, recycling and recovery targets for electrical goods.



ETL

The ETL mark is proof of product compliance to North American safety standards.

PHOTOMETRIC DATA CALCULATION

LIGHTING DESIGN TABLES AND GRAPHICS

Lighting appliances are characterized for lighting engineering purposes by a series of tables and graphics that describe their characteristics from the point of view of their luminous emission.

INTERNATIONAL CLASSIFICATIONS

The classifications represent different ways of classifying luminaires according to their luminous emission.

The table shows 4 different classifications:

- CIE (Recommendation n.52)
- DIN 5040 (German Norm) (example A60)
- UTE C 71-121 (French Norm) (example 0.65A + 0.00T)
- NBN L 14-002 (Belgian Norm – method BZ) (example BZ2)

PHOTOMETRIC TABLE

The photometric table shows the values of luminous intensity in cd/klm measured around the luminaire. The luminaire is located at the centre of a sphere of a suitable diameter. Generally the luminous intensities are calculated with the inverse square distance formula at defined angular distances, which are not normally constant. Take a luminaire, for example with a fluorescent lamp, with downward dark light emission (there is no lateral emission), we can define the luminous area as the area from which the light emits and the luminous axis. The axis is obviously vertical, perpendicular to that area which passes through the meeting point (luminous centre) of the diagonals of the luminous area. At this point, placing the photoelectric cell of an illuminance meter on the luminous axis at a given distance from the luminaire we can determine the first value corresponding to Gamma = 0°. Now take a half-plane coming from the luminous axis and directed transversally towards the luminaire lamps; we can call the half-plane C-0°. This half-plane constitutes the starting point of the other half-planes situated all around the luminous axis. Moving the photoelectric cell along the C-0° half-plane with constant angular step, for example every 5°, in each position we obtain a new reading generally different from the previous ones, until arriving at Gamma = 90° (the photoelectric is situated laterally to the luminaire) where a dark light luminaire no longer emits light (E = 0 lux). The operation can be repeated along each of the infinite half-planes coming from the luminous axis: generally, however, it is usual to take into consideration the C-90°,

C-180° half-planes or those with angular interdistances of 30° or 15°. All the measured and converted values are summarized in a table (Photometric Table) according to the initial C-half-plane and relative Gamma angle.

The luminous intensities are calculated with laboratory readings by converting the values measured by the illuminance meter using the formula:

$$I = (E \times d^2) / F$$

Where:

I = luminous intensity (in cd/klm).

D = distance luminaire-photoelectric cell; this distance must be greater than 5 times the maximum dimension of the luminous volume or area so that the luminaire can be considered a point source (Far Field method not to be confused with the Near Field method).
F = total luminous flux of the lamps (in klm).

POLAR AND CARTESIAN DIAGRAMS

The photometric table data are graphically represented by means of different photometric curves according to the type of coordinates employed:

- photometric curves represented with polar coordinates;
- photometric curves represented with Cartesian coordinates.

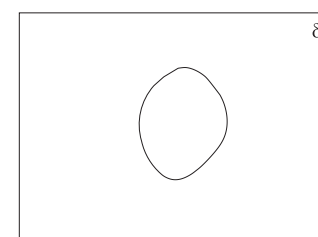
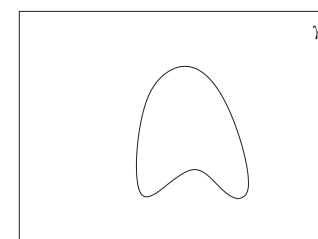
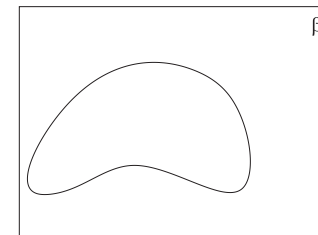
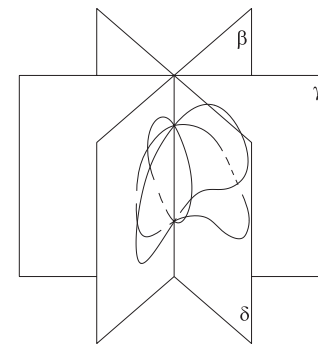
The first are used to represent luminaires in interiors and road installations, while the second better represent the emissions from floodlights; this does not however mean that a luminaire cannot be represented in either way.

THE POLAR DIAGRAM (OR POLAR CURVE)

The Polar Diagram is obtained by selecting a half-plane from the photometric table (for example C-0°), marking in the corresponding values of intensity and angle on the polar plane and carefully joining the various points. The polar curve can also be seen as the cross-section of the photometric solid through a plane that passes through the luminous axis of the luminaire.

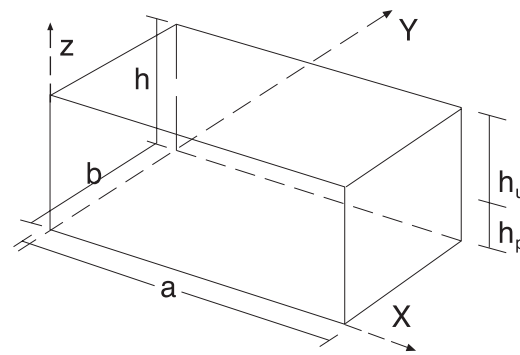
THE CARTESIAN DIAGRAM

If the intensity values according to the Gamma angle are represented in terms of Cartesian coordinates (X-axis angles, ordinate intensity values) on a Cartesian plane and are carefully joined, the representation of the curve in Cartesian form is obtained (Cartesian Diagram).



UTILIZATION FACTOR TABLES FOR THE WORK PLANE

The utilization factor tables are useful for determining the number of luminaires of the same kind to be used within the room given an average illuminance value.



K	8873	7773	7753	7731	5551	5511	3311	0000
0.6	0.45	0.42	0.34	0.28	0.31	0.24	0.23	0.21
0.8	0.53	0.49	0.41	0.34	0.37	0.29	0.28	0.26
1.0	0.59	0.55	0.47	0.40	0.41	0.34	0.33	0.30
1.3	0.65	0.61	0.53	0.45	0.46	0.39	0.38	0.35
1.5	0.69	0.65	0.58	0.49	0.50	0.43	0.41	0.38
2.0	0.76	0.71	0.65	0.55	0.55	0.49	0.47	0.43
2.5	0.80	0.75	0.69	0.59	0.58	0.53	0.51	0.46
3.0	0.83	0.78	0.73	0.62	0.61	0.56	0.53	0.49
4.0	0.85	0.80	0.76	0.65	0.63	0.59	0.55	0.50
5.0	0.88	0.83	0.79	0.67	0.65	0.61	0.58	0.52

ELEMENTS OF THE TABLE

- REFLECTANCE FACTORS (example 773): these are the reflectance factors of the ceiling, walls and work plane and are to be considered as percentages multiplied by 10 (example 70%, 70% and 30%).
- ROOM INDEX K (example 0.6): the room index is a factor that considers the dimensions of the room under examination.
- UTILIZATION FACTORS (example 340): these factors consider the amount of flux emitted by the luminaires falling on the work plane. The factors are expressed in thousands (0.340).

USE OF THE TABLE

1. First of all, the reflectance value for ceiling, walls and work plane must be determined; in the case of walls with different reflectance factors, an average value should be calculated.
2. The room index corresponding to the room is calculated by means of the formula:

$$k = (a \times b) / (H_u \times (a + b))$$

Where:

a and b = are the length and width of the room;

H_u = is the working height understood as being the distance between the work plane and the luminaire.

3. The utilization factor is determined as the intersection of the column corresponding to the chosen reflectance factors and the line of the calculated room index: where precise values are unavailable, an average will have to be calculated.
4. The average illuminance value desired is determined according to the type of activity to be carried out inside the room.
5. The number of luminaires required to obtain the desired value of illuminance is calculated with the formula:

$$N = (E \times A) / (F \times F_u)$$

where:

N= number of luminaires

E = desired illuminance (in lx)

A = a x b = total area (in m²)

F = total flux of the individual luminaire (in lm)

F_u = utilization factor

ACKNOWLEDGEMENT

GRIVEN S.r.l. is grateful to the organisations and persons whose pictures are reproduced in this catalogue and would like to extend them the most genuine thankfulness.

Pp. 20-23

Crowne Plaza Hotel, Moscow - Russia
Lighting concept, design, and installation:
Svetoproekt LLC
Product supply: BL Group LLC
Pictures: Tatyana Koscheenko

Pp. 24-27

TK Elevator test tower, Rottweil - Germany
Hess GmbH Licht+Form
Architects: Dr. Werner Sobek
with Helmut Jahn
Lighting concept: L-Plan Lighting Design,
Berlin - Germany
Pictures: Copyright TK Elevator

Pp. 28-31

Triumphal Arch, Moscow - Russia
Lighting concept and design: Consilio
& Brightelec
Pictures: Vladimir Golikov

Pp. 32-35

Ourhome H.Q., Seoul - South Korea
Lighting design: Yoo Chang Hyeok,
Team Leader at Gravissystem
Lighting concept, design, and installation:
Gravissystem
Product supply: Gravissystem
Pictures: Courtesy of Gravissystem

Pp. 36-39

Noor Tower, Ouarzazate - Morocco
Client: Masen
Project Management: Acwapower
Supplied and supervised by: Luminova
Lighting design: Ombrages Canada
Pictures: Alessandro Pederzani

Pp. 40-43, 132-135.

Cukrarna Gallery, Ljubljana - Slovenia
Product distribution and installation:
Arcadia Lightwear
Pictures: Miran Kambič

Pp. 44-47

Puskás Arena, Budapest - Hungary
Lighting design: Lisys Project
Pictures: Lisys Project

Pp. 48-51

Metropolitan Cathedral, Mexico City - Mexico
Lighting Design: Aleksandar Lalicki Posavec
Installation: Grupo Tares (South façade) -
Z&A Servicios (East façade)
Pictures: Marie Ferrer

Pp. 52-55

Cathedral of the Immaculate Conception,
Cuenca - Ecuador
Planning and lighting design: Fundación
Iluminar Luz y Color para Cuenca
Product installation: Fundación Iluminar
Luz y Color para Cuenca

Pp. 56-59, 116-119

Dam Vac Bridge, Vinh Yen - Vietnam
Installation: PhuThanh JSC
Pictures: PhuThanh JSC

Pp. 60-63

Björkbornsbron Bridge, Karlskoga - Sweden
Lighting design: Jesper Nörthen,
Fox Belysning
Installation: Bravida, Karlskoga
Pictures: Bravida, Karlskoga

Pp. 64-67

Michelangelo's David Replica, Florence - Italy
Project management: Firenze Smart SILFI
SPA
Product installation: Firenze Smart SILFI SPA
Product distribution: Ombre-1 S.r.l.
Pictures: courtesy of Firenze Smart SILFI
SPA

Pp. 68-71

Osstem Implant, Seoul - South Korea
Lighting design: Lee Jae Ha CEO
and principal at p2ledcube.com
Programming, testing, and commissioning:
Gravissystem
Product supply and installation:
Gravissystem
Pictures: p2ledcube.co

Pp. 74-77

Florida Hotel & Conference Center,
Orlando FL - USA
Lighting design: RL Studios
Specifying representative agency:
David Silverman & Associates, Glendale CA
Distributor: Regency Lighting, Chatsworth CA
Project management: Griven USA, Gaffney NC
Pictures and video footage: Steven
Graffham winterparkphotography.com

Pp. 78-81

Empire Theatre, Toowoomba - Australia
Client: Empire Theatre - Ben Hunt, Head
of Lighting
Lighting concept: Visual Focus
Distributor: ULA Group
Pictures: Ben Hunt, Head of Lighting
at Empire Theatre

Pp. 82-85

Sanctuary of Loyola, Azpeitia - Spain
Product specification and installation:
Montajes Eléctricos Gau Argi S.L.
Distributor: LAMP Spain
Picture: Aitor Rodriguez fotoangel.es

Pp. 86-89

Our Lady of Assumption Cathedral,
Jakarta - Indonesia
Lighting design: Herwin Gunawan,
Principal ALTA Integra, Jakarta - Indonesia
Product specification and installation:
Pt Indolite Prima, Jakarta - Indonesia
Pictures: Herwin Gunawan

Pp. 72-90-93

Stockholm Office Building, Middelburg -
Netherlands
Lighting designer: Jeroen Bulten,
LuxImprove BV
Programming, testing, and commissioning:
LuxImprove BV
Pictures: Fleur Kooiman

Pp. 94-97

Mugunghwa Arboretum, Hongcheon -
South Korea
Lighting Design and programming:
Gravissystem
Pictures: Courtesy of Hongcheon County

Pp. 114-120-123

Acropolis Southern Wall, Athens - Greece
Lighting Design: Eleftheria Deko and
Associates, Greece
Client: Onassis Foundation, Greek Ministry
of Culture
Installation: Gravani Lighting
Pictures: Gavriil Papadiotis, archive
of Eleftheria Deko

Pp. 124-127, 208-211

The Pride of Muslims Mosque, Shali -
Chechen Republic, Russia
Lighting concept and engineering:
GRIVEN Russia
Supply and installation: Mechet-Stroy, Grozny
Pictures: Vladimir Golikov, Abdullah Bersaev

Pp. 128-131

DART Bridge, Luton Airport, London - UK
Installation: NG Bailey
Project management: NG Bailey, Max Knight
Senior project Engineer
Programming and testing: Cosmic
Pictures: David Stewart

Pp. 138-141
Awtad Center, Riyadh - KSA
Full Project Name: Awtad Commercial Centre/ Riyadh Tahliah Commercial Centre
Consultant: Ahmad Al Rashed Al Humaid Consulting Engineers, Riyadh-KSA
Lighting Designer: licht|raum|stadt – Planung, Germany
Contractor: Construction skills, KSA

Pp. 136-142-145
Cathedral of the Russian Armed Forces, Moscow Oblast - Russia
Lighting design: Mikhail Fayantsev
Pictures: Vitaly Zorin

Pp. 156-159
Presidential Palace Orangery, Warsaw - Poland
Project manager: Sebastian Koziol
Operation manager: Mateusz Oryl
Project renders: Krzysztof Gantner
Pictures: Prolight Co.Ltd.

Pp. 154-160-163
Private villa in Tuscany - Italy
Lighting Design: Giacomo Matteini, Ombre-1 S.r.l.
Pictures: Giacomo Matteini, Ombre-1 S.r.l.

Pp. 164-167
Russian Copper Company, Ekaterinburg - Russia
Environmental Engineer: Foster + Partners, VostokProekt
Lighting Engineer: Jason Bruges Studio
Landscape Architect: H|E|D - Hyland Edgar Driver UK
Lighting design: MT Electro, Ekaterinburg
Product supply and installation: MT Electro, Ekaterinburg
Pictures: MT Electro

Pp. 168-171
Phoenix Column, Dublin - Ireland
Client: OP
Lighting design: Gabriel Byrne, Enlighten, Fantasy Lights Group
Contractor: Designer Group
Lighting: Enlighten, Fantasy Lights Group
Pictures: Con O'Donoghue

Pp. 172-175
Hellenstein Castle, Heidenheim - Germany
Client: Heidenheim municipality, Ralf K pplinger
Lighting design: Arch. Martin Schepers
Pictures: Alessandro Pederzani

Pp. 176-179
Hampton Church, Dublin - Ireland
Client: Grelis Ltd
Lighting design: Enlighten, Fantasy Lights Group
Installation : Al Read Electrical
Pictures: Con O'Donoghue

Pp. 184-186-189
Cua Luc 1 Bridge, Ha Long – Vietnam
Product specification and supply: PhuThanh JSC
Project supervision: PhuThanh JSC
Pictures: PhuThanh JSC

Pp. 190-193
Rao 1 Bridge, Hai Phong - Vietnam
Product specification and supply: PhuThanh JSC
Project supervision: PhuThanh JSC
Pictures: PhuThanh JSC

Pp. 194-197
THE e18hteen, Lusail City - Qatar
Client: Assets Real Estate
Contractor: UrbaCon Trading & Contracting, UCC
Project manager: Jano for Lighting - Eng. Ammar Jano
Pictures: Jano for Lighting - Eng. Ammar Jano

Pp. 198-201
Hoang Van Thu Bridge, Hai Phong - Vietnam
Lighting design: Transport Engineering Design Incorporated (TEDI)
Product specification and installation: PhuThanh JSC
Pictures: PhuThanh JSC

P. 206
Villa di Bagno, Porto Mantovano, Italy
Pictures: Doretta Gerevini

Pp. 212-215
Archives et Biblioth que d partementales Gaston Defferre, Marseille – France
Original lighting design: Keiichi Tahara (2006)
Lighting design renovation: Guillaume Sarrouy
Lighting / G.S.L Conception Lumiere
Installation: Fauch  / FOX S.L.V
Pictures: Guillaume Clauzon

Pp. 218- 221
Almasa Royal Palace, New Capital - Egypt H&A
Designer & Consultant: ECG Consultant
Client: Al Masah Hotels












Pp. 221-225
Place de la Liberation, Dijon - France
Concept: Groupe Freevox
Installation: Lorrillard
Pictures: Andr  Morin

Pp. 240-243
Architecture and design event, Milan - Italy
Pictures: Giulio Ghirardi














Pp. 244-247
Private garden, Mantua - Italy
Pictures: Raffaele Vincelli

ICONS LEGEND












CONTROL OPTIONS

	DMX	DMX mode
	DMX - RDM	DMX - RDM mode
	DALI	DALI control option
	DALI DT8	DALI DT8 control option
	INDEPENDENT PIXEL	Independent pixel fixture
	SELF-ADDR	Self-addressing fixture
	ON-BOARD WIRELESS DATA	On-board wireless data
	REMOTE WIRELESS DATA	Remote wireless data
	TRIAC	Triac
	ON - OFF	ON-OFF fixture
	0 - 10V	0-10V control option












GENERAL FEATURES

	CLASS I	Class I
	CLASS II	Class II
	CLASS III	Class III
	POLAR	Polar Edition
	IP67	Ingress protection rating
	IP68 -1m	Ingress protection rating
	IK09	Impact protection rating
	KG	Weight
	ANTI-SALINE	Anti-saline treatment
	FROSTED GLASS	Frosted glass
	LOAD	Maximum load bearing
	DRIVE OVER	Drive-over fixture
	WALK OVER	Walk-over fixture




LED COLOUR CONFIGURATIONS AND FINISHES

	RGB+W 3000K	RGB+W 3000K colourchanging LEDs
	RGB+W 4000K	RGB+W 4000K colourchanging LEDs
	MC RGB+W	Multichip LEDs colourchanging LEDs
	RGB	RGB colourchanging LEDs
	MC DW 3000/6500K	Multichip 3000/6500K dynamic white LEDs
	DW 2700/6500K	2700/6500K dynamic white
	WARM WHITE 2700K	2700K solid warm white
	WARM WHITE 3000K	3000K solid warm white
	NATURAL WHITE 4000K	4000K solid natural white
	BLACK RAL9005	Black RAL 9005
	ANTHRACITE RAL7016	Anthracite RAL 7016
	GREY RAL9006	Grey RAL 9006
	OLIVE GREY RAL7002	Olive Grey RAL 7002
	WHITE RAL9003	White RAL 9003
	RAL ON REQUEST	RAL on request

IMAGE

	FOCUS	Focus function
	DIMMER	Electronic linear 0-100% dimmer function
	STROBE	Electronic strobe function
	BLACKOUT	Electronic blackout function
	ROTATING GOBO	Rotating globo
	FIXED GOBO	Fixed globo
	ROTATING WHEEL	Rotating wheel
	COLOUR WHEEL	Colour wheel
	PRISM	Prism effect
	PULSE	Pulse effect
	ZOOM	Zoom

CERTIFICATIONS

	CE	CE marking
	ETL LISTED	ETL listed fixture
	ETL PENDING	ETL pending fixture

Griven S.r.l.
Via Bulgaria 16
46042 Castel Goffredo
Mantova - Italy
tel. +39 0376 779483

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Edition: June 2022
Graphics and layout design: dogtrot S.r.l.
Product rendering: Brixel Servizi Digitali
Photorealistic 3D rendering: Truetopia / Brixel Servizi Digitali
Photo editing: Luce S.r.l. / art&image
Printing: Intese Grafiche S.r.l.

