

2017 / 2018



CREATE SPACES...

Our character is forged from the energy of light and imagination. Our strength is built on the excellence of ideas and design.

But the point of ideas is to bring them to fruition. Our challenge is to understand light, engage in dialogue with it, and take full advantage of its possibilities. At TROLL we view light as an added element of construction, and exploit its capacities to create atmospheres and sensations.

TROLL participates in the development of projects for premises of all kinds. This begins with initial advice, and continues through to its implementation and to ensuring the complete satisfaction of the end users of that space.

We want to understand the soul of each work, and we want the responsiveness of our design and manufacturing processes to guarantee the excellence of our products and the satisfaction of our customers.

We want to enlighten your ideas and travel the path of creativity together. This will ultimately enlighten your ideas.





Since 1974... lighting your ideas

Our dedication to light has been a long and thrilling journey which, along with our clients, has awarded us a solid know-how, allowing us to ceate new ways to manage lighting in a space while thoroughly making use of its capacities.

We live our lives surrounded by inventions that we enjoy and naturally take as a given, ingenious ideas that make our lives easier.

Without a doubt, the electrified rail has been one of the biggest developments of the last century for the lighting industry. Its arrival a few years ago completely revolutionised the lighting industry, giving birth to technical lighting.

Troll is born from the development of the world's first electrified rail (1961) for electrical appliances. We are proud to have contributed to the light industry with a development that has undoubtedly become one of today's most employed solutions for light installations anywhere in the world.

Thanks to the success of the electrified rail, the company was invigorated by strong growth. Thanks to our previous innovation successes, we have acquired a solid know-how in the art of lighting and a well-established international prestige.

Troll is entering a phase of expansion which is making it a leader in the field of technical lighting today, with over 75 years of company history. At Troll we are committed towards the future, being proactive towards new trends and always maintaining the desire to continue innovating throughout our future.

How often have small ideas turned into great solutions?



First track system (Patent registered in 1961)



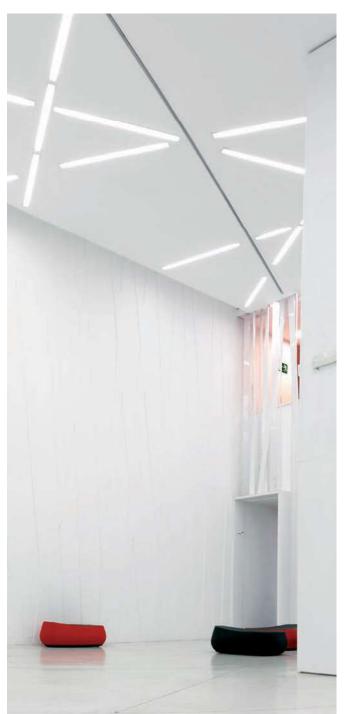


DESIGN

TROLL offers lighting concepts based on design, technology, quality, efficiency and competitiveness. Our R & D department investigates and develops new products and innovative lighting applications with the use of cutting-edge materials and production processes suited to the particular needs of each market. The brand relies on design professionals such as the French architect Jean Nouvel, who bring the benefit of their experience by projecting spaces and discovering unresolved needs. Its recognition of research and development of new concepts has repeatedly translated into prestigious awards such as Delta, IF and Design Plus.

QUALITY

The technological revolution offers opportunities to find new lighting applications. Recent digital solutions and the latest generation of LEDs provide significant benefits such as improved efficiency, increased light flow, improved colour rendering rates, longer service lives and many new options, creating a new paradigm for professional and domestic lighting applications. New technologies continue to advance. TROLL selects the most modern and most appropriate technology at all times and for each application, in order to design lighting concepts that guarantee the quality of TROLL products and the result of their applications.





TECHNOLOGY AND INNOVATION

Knowledge and understanding of modern technologies on one hand, and of the requirements of projects on the other, allow TROLL to develop innovative products capable of responding to new lighting requirements as well as to existing needs that until now may have lacked a suitable lighting solution. TROLL is constantly undertaking research in order to propose new concepts and ways of applying light to help dress spaces and thereby offer innovative products intended for highly specialised segments (health & care, retail, hospitality, etc.), providing added value for users and opening new paths to help understand light and its application.

EFFICIENCY

Energy efficiency is a maximum-priority criterion in all projects. TROLL constantly designs and innovates with the aim of reducing energy consumption via efficient products, without sacrificing light quality, in order to meet various lighting needs. Visual comfort and the desired light effects must be created with the minimum possible energy expenditure, maximising efficiency and implying the lowest possible maintenance costs in the future. This is achieved thanks to know-how that can be applied in a wide variety of applications, the study of the use of natural light, the use of the latest technology, the study of investment recovery and the implementation of lighting in each project.

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SPOTLIGHTS







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Spotlights 1,1 Ledmotiv

Lightmotiv is a complete range of spotlights for exterior use. One of the qualities of Lightmotiv is its versatility provided by a wide variety of reflectors, permitting the range to be used in many different exterior situations. An additional feature is the tilting for optic group units.

Features

Housing made of specially-treated cast aluminium to withstand tough weather conditions. High-purity aluminium reflectors. Silicon seals, stainless steel screws and decompression valve ensuring protection to IP 65standard.

Tempered protective glass.

There are six different optics for use in different situations: lighting gardens, pedestrian zones, residential areas, public areas, façades and vertical planes, signs and hoardings, patios, terraces.....





Power

LED 31,5W, 51W

12°, 24°, 36° / -15°, 15°, 40° asimetric

Colour temperature

3000K warm white - CRI≥80

4000K neutral white - CRI ≥ 80

Flujo nominal

31,5W - 4600lm, 51W - 6100lm

Control gear

Electronic (EL)

Electronic Dimmer Dali (ELDD)

IP - IK

IP65 -IK08

Finishes

Grey (21)

Suply voltage

220...240V, 50/60Hz

Installation

Floor

Features







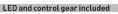


















31,5W

120 Control gear EL 4600 lm

3000K **11.1673.1311.21** 4000K 11.1673.1411.21 31,5W 120

Control gear ELDD 4600 lm

3000K **11.1673.1313.21** 4000K **11.1673.1413.21**

31,5W 31,5W 240 240

Control gear EL Control gear ELDD

4600 lm 4600 lm

3000K 11.1673.1321.21 3000K 11.1673.1323.21 4000K **11.1673.1421.21** 4000K **11.1673.1423.21**

31,5W 31,5W 36° 360

Control gear EL Control gear ELDD

4600 lm 4600 lm

3000K 11.1673.1331.21 3000K 11.1673.1333.21 4000K 11.1673.1431.21 4000K **11.1673.1433.21**

















31,5W -15º asimetric Control gear EL

4600 lm

3000K **11.1673.1351.21** 4000K **11.1673.1451.21** 31,5W

-15º asimetric Control gear ELDD 4600 lm

3000K **11.1673.1353.21** 4000K **11.1673.1453.21**

31,5W 31,5W 15º asimetric 15º asimetric Control gear EL Control gear ELDD 4600 lm 4600 lm

3000K **11.1673.1361.21** 3000K **11,1673,1363,21** 4000K 11.1673.1461.21 4000K 11.1673.1463.21

31,5W 31,5W 40° asimetric 40° asimetric Control gear EL Control gear ELDD 4600 lm 4600 lm

3000K 11.1673.1371.21 3000K **11.1673.1373.21** 4000K **11.1673.1471.21** 4000K 11.1673.1473.21

Ledmotiv Spotlights **1.**1

Features

















LED and control gear included









51W 12°

Control gear EL 6100 lm

3000K **11.1673.2311.21** 4000K **11.1673.2411.21** 51W 120

Control gear ELDD 6100 lm

3000K **11.1673.2313.21** 4000K 11.1673.2413.21

51W 51W 240 240

Control gear EL Control gear ELDD 6100 lm 6100 lm

3000K **11.1673.2321.21** 3000K **11.1673.2323.21** 4000K **11.1673.2421.21** 4000K **11.1673.2423.21**

51W 51W 360 36°

Control gear EL Control gear ELDD

6100 lm 6100 lm

3000K **11.1673.2331.21** 3000K **11.1673.2333.21** 4000K **11.1673.2431.21** 4000K **11.1673.2433.21**















51W

-15º asimetric Control gear EL 6100 lm

3000K **11.1673.2351.21** 4000K **11.1673.2451.21** 51W

-15º asimetric Control gear ELDD 6100 lm

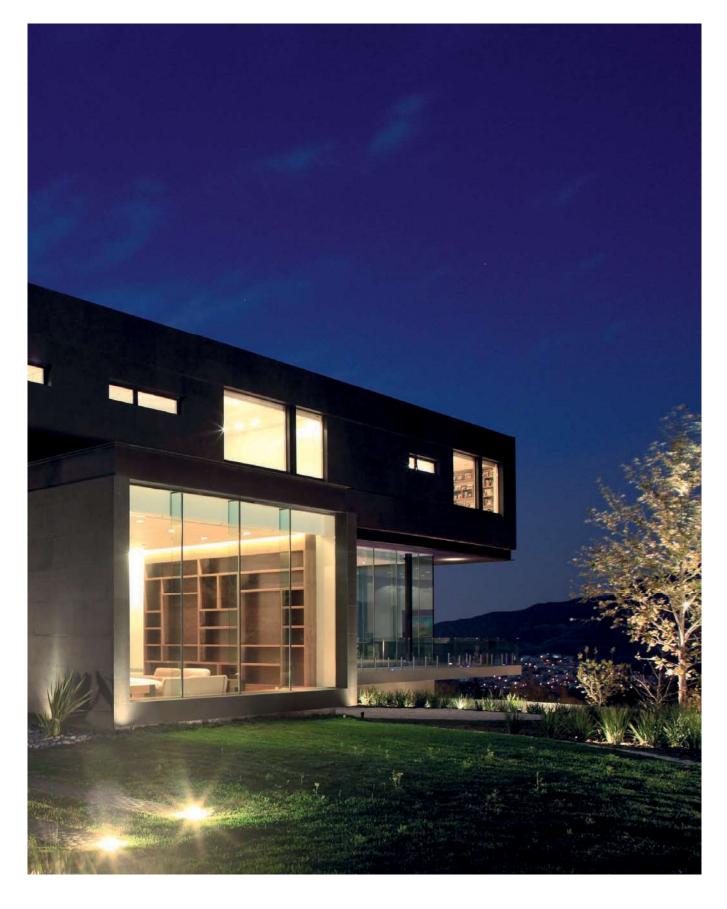
3000K **11.1673.2353.21** 4000K **11.1673.2453.21**

51W 51W 15º asimetric 15º asimetric Control gear ELDD Control gear EL 6100 lm 6100 lm

3000K **11.1673.2363.21** 3000K **11.1673.2361.21** 4000K **11.1673.2461.21** 4000K 11.1673.2463.21

51W 51W 40° asimetric 40° asimetric Control gear EL Control gear ELDD 6100 lm 6100 lm

3000K **11.1673.2371.21** 3000K **11.1673.2373.21** 4000K **11.1673.2471.21** 4000K **11.1673.2473.21**



OUT		
Spotlights	1.2	Canal S
		Canal

The perfect blend of technology and design, with sophistication and simplicity. Efficiency, long lifespan, stable light flow and immediate regulation response. Specifically created for high voltage and high efficiency applications.



Made in extruded aluminium protective clear glass. Stainless steel screns. Die cast end caps.

Applications

Canal S offers a infinity of models that give architects and lighting designer's unlimited inspiration and freedom when creating lighting scene in a wide range of situations.

- Wall-washer: functions as a projector, from inside or outside the building.
- Spot projector due to its power, with medium beam.

The Canal S luminaire projects light up to 45 meters.

This allows illumination and highlighting architectural features of great height such as columns, ribs and projections, giving a new illuminations dimension, impossible before.

- Luminescent buildings. It can be used between the facade and the second skin of the building; this creates an enormous edifice of light, with beams flowing out of the building, generating luminosity and life.



Power

1,2

LED 10,3W, 20,7W, 31,5W, 41,4W, 39,6W, 59,4W, 78,3W

LED 25° (Other optics on request)

Colour temperature

6500K coold white - CRI ≥ 80 (Other colour temperatures on request)

Nominal flux

10,3W - 713lm, 20,7W - 1427lm, 31,5W - 2140lm

41,4W - 2854lm, 39,6W - 2854lm, 59,4W - 4282lm, 78,3W - 5710lm

Nominal lumen output

Electronic (EL) (Other outputs on request)

IΡ

IP65 - IK08

Finishes

Grey

Supply voltage

220...230V, 50/60Hz

Installation

Floor, wall

Features









Versions:

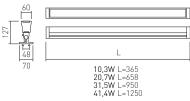
- •LED colours: Warm white 3000°K, Neutral white 4000°K, RGB, on request
 •Beam type: Narrow 9°, Wide 45°, Eliptical 9°x45°, on request
 •Regulation: DALI, DMX, PWM, on request



Zenithal bracket included (2 units)

LED and control gear included





10,3W 25° 365mm

713lm

6500K **LD139503604000**

20,7W 25° 1427lm 6500K LD139506504000

31,5W 25° 2140 lm 6500K **LD139509504000**

41,4W 25° 2854 lm 6500K LD139512504000



Zenithal bracket included (2 units)

LED and control gear included





39,6W L=684 59,4W L=981 78,3W L=1278

39,6W 250

2854lm

6500K **LD101506804000**

59,4W 25°

4282 lm

6500K **LD101509804000**

78,3W 25° 5710 lm

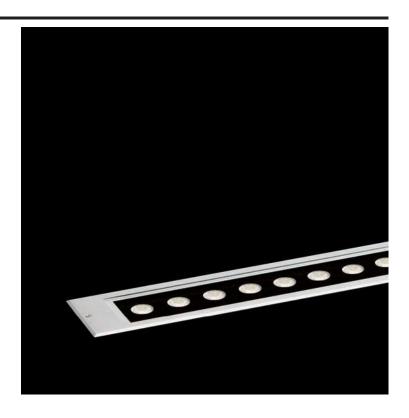
6500K LD101512704000

Canal S

Canal

The Canal range of LED linear fixtures can be recessed into any surface indoors or outdoors, also into paving.

Canal is an excellent solution to provide nearby surfaces with a wash of light, in colour if required.





Grand Hyatt Cairo, Egypt

Power

LED 9W, 18W, 27W

1.2

Beam

LED 8°, 60°, 15° x 90°

Colour temperature

3000K warml white - CRI ≥ 80

4000K neutral white - CRI ≥ 80

Nominal lumen output

LED 9W - 500 lm, 18W - 1000 lm, 27W - 1500 lm

Control gear

Electronic (EL)

IΡ

IP67 - IK08

Finishes

Inox

Supply voltage

220... 240V, 50/60Hz

Installation

Recessed

Features









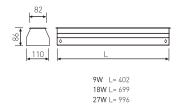




9W 9W 9W 80 60° 15° x 90° 500 lm 500 lm 500 lm

3000K **11.1693.1831.20** 3000K **11.1693.1832.20** 3000K **11.1693.1833.20** 4000K **11.1693.1841.20** 4000K **11.1693.1843.20** 4000K **11.1693.1842.20**

LED and control gear included



18W 18W 18W 60° 15° x 90° 1000 lm 1000 lm 1000 lm 3000K **11.1693.2831.20** 3000K **11.1693.2832.20** 3000K **11.1693.2833.20** 4000K **11.1693.2841.20** 4000K **11.1693.2842.20** 4000K **11.1693.2843.20**

27W 27W 27W 15° x 90° 1500 lm 80 60° 1500 lm 1500 lm

3000K **11.1693.3831.20** 3000K **11.1693.3832.20** 3000K **11.1693.3833.20** 4000K **11.1693.3841.20** 4000K **11.1693.3842.20** 4000K **11.1693.3843.20** Spotlights **1.**3 Beam

LED projectors designed to create outdoor light environments with a minimum energy consumption. Ideal solutions to lit up gardens, patios, facades...

Features:

Body built in cast aluminium, painted in anthracite-grey for outdoor environments. It incorporates a 4mm tempered glass, and it is supplied with a 1.5mts connection

It can be installed attached to horizontal or vertical surfaces or directly to the ground on soft soils by using a stake sold as accessory.

Available with 20 and 40-degree lenses, in 3000K and 4000K.





Residential, Mexico

Power

LED 6W, 12W, 18W

Beam

LED 20°, 45°

Colour temperature

3000K warm white - CRI≥80 4000K neutral white - CRI ≥ 80

Nominal lumen output

6W - 472lm / 389lm

12W - 1014lm / 846lm

18W - 1960lm / 1628lm

Control gear

Electronic (EL)

IP - IK

IP68, IK08

Finishes

Anthracite (22)

Supply voltage

220... 240V, 50/60Hz

Installation

Attached to horizontal or vertical

Accessories

Spike

Features







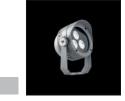








LED and control gear included







6W 20° 472 l 3000

472 lm 3000K **11.1606.1831.22** 4000K **11.1606.1841.22**

6W 45°

389 lm 3000K **11.1606.1832.22** 4000K **11.1606.1842.22**







LED and control gear included







12W 20° 1014 lm 3000K **11.1606.2831.22** 4000K **11.1606.2841.22**

12W 45° 846 lm

3000K 11.1606.2832.22 4000K 11.1606.2842.22







LED and control gear included







18W 20° 1960 lm 3000K **11.1606.3831.22** 4000K **11.1606.3841.22**

18W

45° 1628 lm 3000K **11.1606.3832.22** 4000K **11.1606.3842.22**

Accessories

Spike



Base for stake in polyamide L= 210 mm For 6W **11.1606.0001.22**



Base for stake in polyamide L= 308 mm For 12W/18W **11.1606.0002.22**







Spotlights

Single

Single is a small LED projector. Suitable for localised lighting, easy to integrate in the greenery of a garden.

Features

Body built in cast aluminium, painted in anthracite grey for outdoor environments. It incorporates a 3mm tempered glass, stainless steel top cover, and it is supplied with a 1.5mts connection cable.

It can be installed directly onto the ground on soft soils by using a stake.

Spike included.





Power

GU10 Max. 35W

1.4

IΡ

IP68 - IK04

Finishes

Anthracite (22)

Supply voltage

220... 240V, 50/60Hz

Installation

Floor

Features







Requires control gear

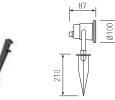
LED GU10

Spike included

For LED lamp







Max. 35W **11.0779.0001.22**

Spotlights 1.5 Fargo

External LED spotlights suitable for hard to reach areas, facades, fences, roofs... The construction materials are resistant to weathering and vandalism.



Features

Body built in aluminium. Protective glass. Suitable to be surface mounted in walls, ceilings.







Power

LED 9,2W, 25W, 50W, 90W,180W

Beam

100°, 110°

Colour temperature

4000K warm white - CRI ≥ 80

Nominal lumen output

9,2W -1269 lm, 25W - 3292 lm, 45W - 6344lm, 90W - 12186 lm, 180W - 25092 lm

Control gear

Electronic (EL)

IP - IK

IP65 - IK08

Finishes

Black (04 - 204)

Supply voltage

100...240V, 50/60 HZ

Installation

Walls, ceilings













LED and control gear included





9,2W 100° 1269 lm 4000K **11.5100.1401.04** 9,2W 100° 1269 lm SENSOR

4000K **11.5100.1409.04**





25W 100° 3292 lm 4000K **11.5100.3401.04** 25W 100° 3292 lm SENSOR 4000K **11.5100.3409.04**

LED and control gear included







LED and control gear included





45W 110° 6344 lm 4000K **5100/L284/204**





90W 110° 12186 lm 4000K **5100/L384/204**

LED and control gear included





180W 110° 25092 lm 4000K **5100/L484/204**

LED and control gear included

OUT

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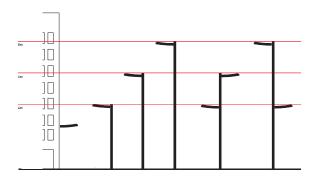


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Filar p. 268

Wind belongs to a new generation of urban lighting luminaires, designed with high lighting efficiency based on the use of LED's and with an optical group which ensures the efficiency of the fixture and, at the same time, high visual comfort. Wind arises from the collaboration between Uli Marchsteiner-Joan Casañes and Troll.





Power

LED 40W, 49,5W, 73W, 100W

Beam

130° x 45°

Colour temperature

4000K neutral white - CRI ≥ 70

Nominal lumen output

40W - 3500 lm, 49,5W - 4700 lm, 73W - 6550lm, 100W - 8365lm

Control gear

Electronic (EL)

IP - IK

IP66, IK07

Finishes

Grey (221)

Supply volatge

220... 230V, 50/60Hz

Installation

Floor

Accessories

End pole, wall-mounted version





Energy efficiency

The energy saving of Wind is more than 30% compared with conventional public lighting. A reduction in energy consumption means fewer emissions of greenhouse gases. Moreover, Wind is doubly efficient thanks to the custom designed control gear used to ensure fulfilment of high energy efficiency (90-95% according to load) and its adjustment with which makes it possible to vary levels of intensity.

Energy efficiency

Wind offers good photometric results, with excellent visual comfort and a high level of visual uniformity.

Visual comfort. An optical system has been designed in order for Wind to obtain excellent results and high visual comfort. Wind includes 50 LEDs and each LED includes an asymmetric reflector to maximise light flow. With this system the optical group can be configurable, with the possibility of directing the light to achieve a symmetrical or asymmetrical distribution and offer several options according to the application.

Uniformity. Wind also includes a prismatic methacrylate refractor at the bottom to achieve perfect evenness of lighting.



Design

Wind's design makes it fit in perfectly with the surroundings, ensuring the total absence of emission of flow to the upper hemisphere (FUH) and helping reduce maintenance costs.

High level of design. Wind belongs to a new generation of luminaires for today's cities. With a stylized, dynamic design and, above all, one which fits in with the urban environment. Reduced light pollution. Wind is designed to completely eliminate the emission of light flow to the upper hemisphere, thereby preventing light pollution.

Reduced maintenance costs. The use of LED technology helps reduce the maintenance costs of public lighting thanks to the long life of the LEDs.

Versatility. Wind is an urban lighting luminaire that offers several fitting options, on columns of 4, 6 or 8 meters in height, in groups of one, two or three luminaires and a wall-mounted model.



Features

The luminaire is made in die-cast aluminium with a slight curve of the 3,000mm radius which gives it an appearance of lightness and prevents upward emission of light flow. It contains high performance LEDs distributed in 10 modules of 5 LEDs each and with an optical system designed on the basis of asymmetric reflectors for each LED. The optical system makes it configurable, offering the possibility of achieving a symmetrical or asymmetrical distribution. It also has a prismatic methacrylate refractor at the bottom to achieve perfect uniformity of

Double silicone joint guaranteeing a sealed to high standards (IP66).

The electronic control gear is built in and supplies constant current, without fluctuations. The control gear can be adjustable with a two-level system, prepared for installations with flow regulation at the head or with control signal, to adapt to the real, dynamic needs of the project.

 ${\sf Can\ be\ mounted\ individually\ or\ in\ groups\ of\ two\ or\ three\ luminaires\ depending\ on\ the\ height}$ of the column. Enquire about columns, available heights: 4 meters, 6 meters, 8 meters. Mount for attaching the luminaire to the column not included (see accessories). There is also a wall mounted version that gets rid of the irritating effect of "light intrusion" in the housing. Control gear of standard versions can be adjustable by tension variations at the head, from 230V to 180V. Available versions with regulation by control line to 230V, DALI (on demand).

Poles

Wind by Uli Marchsteiner Joan Casañes

Features



















2.1

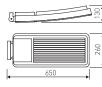


To complete the product reference, add finish

Luminaires







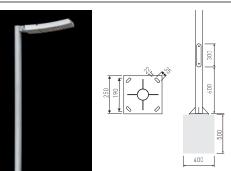


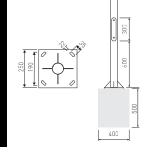






Poles





h=4m h=4m Ø 90 Ø 90 17/7154 17/7154









To complete the product reference, add finish





End / Medium pole (for pole 17/....) **15/7151**











End pole (to replace luminaires in poles of Ø60 mm)

15/7150

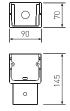








End pole (to replace luminaires in poles) **15/7153**







Wall-mounted version

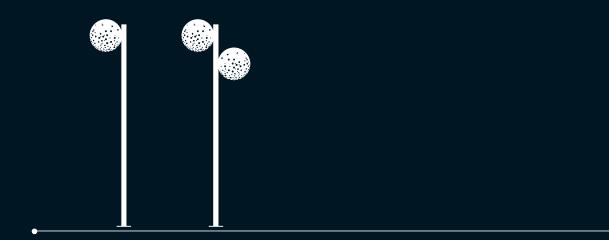
15/7152





Like sunlight filtering through leaves that is the concept behind Riddle. These spherical fixtures create a light and shadow effect to light outdoor urban or private areas.

The spherical, perforated design sets it apart from other fixtures on the market. By day, its sculptured lines add to the surroundings while they shroud them in mystery at night.





Built from high quality cast aluminium, and then machined and

anodised in silver grey.

Integrated electronic ballast for metal HIT 150W halide lamps.

Columns

Also included when ordering refs. 6601/150 and 6602/300, forming a unit with the luminaires.

They are cylindrical and made of galvanized steel, with their own inspection hatch.

The upper part has channels to alter the height of the fixture mount by up to 600 mm.

This means that the installation can have several light points in an intentionally irregular pattern, which emphasises the overall sculptural concept.



Power

HIT 150W, 2 x 150W

Beam

120°

Control gear

Electronic (EL)

IP - IK

IP65 - IK10

Finishes

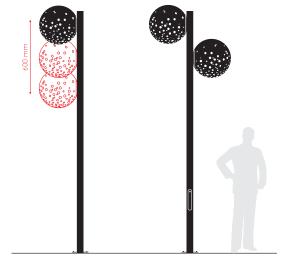
Grey (21)

Supply voltage

220... 240V, 50/60Hz

Installation

Floor



Features









Luminaire made of aluminium. Cylindrical columns made of galvanized steel and paited. Columns $\,$ included. Height 3.5m.



G12 **HIT**







150W 120° Weight of fixture 15,6 kg. (without column) **6601/150/21**

Control gear included





2x150W 120°

Weight of 2 luminaires 31,3 kg. (without column) 6602/300/21

Control gear included



2.3 Filar Poles

Architectural luminaire designed to light outdoor spaces such as public squares, parks, garden areas, corporative buildings, and open areas in Hotels, theatres, as well as urban leisure spaces.

Features

Body built in aluminium with diffuser tube in acrylic satin material. Luminaire sets a high luminous efficacy LED panel which provide 3000lm (4000K) or 5000lm



Power

LED 26W, 39W

Beam

360°

Colour temperature

4000K neutral white - CRI ≥ 85

5000K cold white - $CRI \ge 75$

Nominal lumen output

25W - 3000 lm, 37W - 5000 lm

Control gear

Electronic (EL)

ΙP

IP65

Finishes

Black

Supply voltage

220... 230V, 50/60Hz

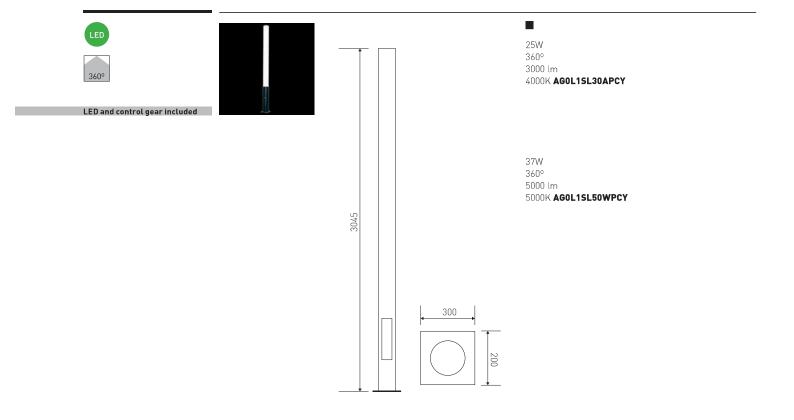
Installation

Floor









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BOLLARDS







Riddle p. 272

Plolar p. 274

Mark p. 276

500 mm. diameter

Built from high quality cast aluminium, and then machined and anodised in silver grey. Integrated electronic ballast for metal HIT 70W halide lamps.

250 mm. diameter

Injection moulding polycarbonate, then machined and anodised in silver grey.





Power

LED 8W

HIT 70W

HIT-TC 20W

QT 14 60W

Colour temperature

3000K warm white - CRI ≥ 80

Control gear

Electronic (EL)

IP - IK

IP65, IK08, IK10

Finishes

Grey (21)

Supply voltage

220... 240V, 50/60Hz

Installation

As floor-mounted signalling fixture

Features











LED and Control gear included





8W

3000K **11.6603.0001.21**



G12 **HIT**



Manufactured in injected aluminium

Control gear included





70W 6600/70/21



PG J5 HIT-TC



Lamp and control gear included





20W

6603/20/21



G9 **QT 14** (230V)



Manufactured in polycarbonate Lamp included





60W 6603/60/21





Spain

Bollards **3.**2 Polar

Polar is a LED bollard designed for signalling outdoor pedestrian areas. A solution for horizontal lighting that distributes light generously and in a pleasant way, without emission in the upper hemisphere, thus avoiding light pollution.

Features

Columns built in extruded aluminium, painted for the outdoors, high-purity aluminium reflector, with frosted polycarbonate diffuser, LED and equipment incorporated.





Power LED 9W

Beam

100°

Colour temperature

3000K warm white - CRI≥80

4000K neutral white - CRI ≥ 80

Nominal lumen output

8W - 800 lm

Control gear

Electronic (EL)

IP - IK

IP65, IK08

Finishes

Anthracite (22) Supply voltage

220... 240V, 50/60Hz

Installation

Floor

Features



IK 08

LED

Lamp LED and control gear included





8W 100° 800 lm 3000K **11.7600.0033.22** 4000K **11.7600.0043.22**



Bollards 3.3 Mark

LED solutions designed to signal gardens and pedestrian areas, with a design that embellishes and delimits the outdoor spaces.

Features

Columns built in extruded aluminium, painted for the outdoors, LED and system incorporated.







Power

LED 5,4W, 6,3W

Colour temperature

3000K warm white - $CRI \ge 80$ 4000K neutral white - $CRI \ge 80$

Nominal lumen output

<u>5,4W - 265lm, 6,3W - 254lm</u>

Control gear

Electronic (EL)

IP - IK

IP54, IK08

Finishes

Anthracite (22)

Supply voltage

220... 240V, 50/60Hz

Installation

Floor

















5,4W 265 lm 3000K **11.7600.0032.22** 4000K **11.7600.0042.22**







6,3W 254 lm 3000K **11.7600.0031.22** 4000K **11.7600.0041.22**

Lamp LED and control gear included



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RECESSED







Small-up p. 282



Atlante p. 284



e-Wall p. 286



Num p. 288

Mini-up is a full program of small recessed lights with LED in various colours, that provides low level perimeter illumination for safe orientation as step or exit signing, etc. Available in round and square shapes, Mini-Up is most suitable on walkways areas and has a variety of uses.

Features

Recessed luminaire with injected aluminium body, painted with protection for the outdoors. Stainless steel front in two versions, round and square. Tempered 5mm thick glass. It holds a weight of 780Kg. It is supplied with PVC niche. 20-degree opening angle. It is supplied with a 0.5mts connection cable.

IP68 version available, suitable for submersible installations.

Built-in system, except for submersible versions.





Iberostar hotel, Mexico

Power

LED 3W Beam

20°

Colour temperature

3000K cold white - CRI≥80 4000K neutral white - CRI≥80

Nominal lumen output

2,6W - 139 / 174 lm, 3W - 120 / 139 lm

Control gear

Electrónico (EL)

IP - IK

IP67, IP68, IK06, IK09

Finishes

Inox (20)

Supply voltage

220... 240V, 50/60Hz

24VDC (versión sumergible)

Installation

Recessed





Housing included



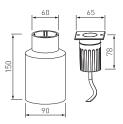




Resistance 780Kg

LED and control gear included













Resistance 780Kg

LED and control gear included





3W 200 drill Ø 90 120 lm - 3000K **11.5200.0032.20** 139 lm - 4000K **11.5200.0042.20**



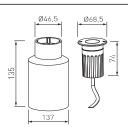






LED and control gear included













Small-Up is a set of recessed LED with an outer ring of stainless steel designed for floorings. Can be installed both outdoors and indoors. Its function is to illuminate and signal passageways.

Features

Body made of die-cast aluminium with stainless steel front. 8mm tempered glass protection screen. The adjustable version holds loads up to 780Kg and up to 2.500Kg in case of the fixed version. Versions for grazing lighting in one, two or four openings, with capacity to hold up to 2.000Kg.

It is supplied with a 0.5mts connection cable. It is supplied with PVC niche. LED and equipment incorporated.

The adjustable version has an outdoor gobo for adjustment.





Iberostar Hotel, Mexico

Power

LED 6W Beam

20° - 1 Beam - 2 Beams - 4 Beams

Colour temperature

3000K cold white - CRI≥80

4000K warm white - CRI ≥ 80

Nominal lumen output 6W - 376 / 478 lm

Control gear

Electronic (EL)

IP - IK

IP67, IK09, IK10

Finishes

Inox [20]

Supply voltage

220... 240V, 50/60Hz

Installation

Recessed floor







Housing included



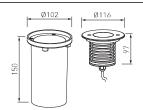




Fixed Resistance 2.500Kg









376 lm - 3000K **11.5202.0031.20** 478 lm - 4000K **11.5202.0041.20**



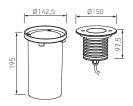




Orientable 30° Resistance 780Kg

LED and control gear included







376 lm - 3000K **11.5202.0032.20** 478 lm - 4000K **11.5202.0042.20**





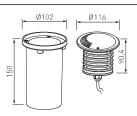




Resistance 2.000Kg

LED and control gear included





6W

1 beam 376 lm - 3000K **11.5180.0031.22** 478 lm - 4000K **11.5180.0041.22**





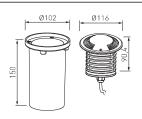




Resistance 2.000Kg

LED and control gear included







6W

2 beams 376 lm - 3000K **11.5180.0032.22** 478 lm - 4000K **11.5180.0042.22**





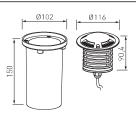




Resistance 2.000Kg

LED and control gear included







6W 4 beams

376 lm - 3000K **11.5180.0033.22**

478 lm - 4000K **11.5180.0043.22**





Recessed lighting 4.3

Atlante is a range of recessed LED luminaries designed for medium sized indirect illumination of facades, trees or objects of small to medium sizes.

Features

Body made of die-cast aluminium with stainless steel front. 10mm tempered glass protection screen. It holds loads over 2900Kg. It is supplied with a 0.5mts connection cable. It is supplied with PVC niche. LED COB and equipment incorporated; with 38-degree lens reflector.



Atlante



Iberostar Hotel, Mexico

Power

LED 13W, 16W, 25W

Beam

10°

T^o Color

3000K cold white - CRI≥80 4000K neutral white - CRI≥80

Flujo nominal

13W - 1715 lm, 16W - 2194 lm, 25W - 3439 lm

Control gear

Electronic (EL)

IP - IK

IP67, IK10

Finishes

Inox (20)

Supply voltage

220... 240V, 50/60Hz

Installation

Recessed floor







Housing included

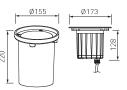




Resistance 4.400Kg

Lamp LED and control gear included





13W 10° 1715 lm 3000K **11.5203.0031.20** 4000K **11.5203.0041.20**

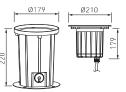




Resistance 2.900Kg

Lamp LED and control gear included





16W 10° 2194 lm 4000K **11.5203.0032.20** 4000K **11.5203.0042.20**





Resistance 5.000Kg

Lamp LED and control gear included





25W 10° 3439 lm 3000K **11.5203.0033.20** 4000K **11.5203.0043.20**







Recessed lighting 4.4 e-Wall

e-Wall is a range of recessed LED for walls to provide grazing lighting and beaconing both for outdoors and indoors.

Available in different shapes, finishes and sizes.

Features

Outdoor recessed luminaire with stainless steel front and aluminium body. Opal polycarbonate diffuser. Available in versions with slats or diffuser. LEDs and equipment incorporated. It is supplied with a 0.5mts connection cable.











Power

LED 1W, 6,5W

Beam

80°, 120°

Colour temperature

3000K warml white - CRI ≥ 80

4000K neutral white - CRI ≥ 80

Nominal lumen output

1W - 31 lm / 34 lm, 6,5W - 66 lm / 80lm, 113 lm / 137 lm

Control gear

Electronic (EL)

IP - IK

IP65, IK09, IK10

Finishes

Inox (20)

Supply voltage

220... 240V, 50/60Hz

Installationn

Recessed

Features



Polycarbonate protective glass

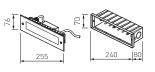






Diffuser





6,5W

120° drill-hole 240 x 70 113 lm - 3000K **11.5000.0031.20** 137 lm - 4000K **11.5000.0041.20**

LED and control gear included

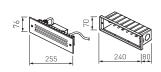






Louvers





6,5W

120° drill-hole 240 x 70

66 lm - 3000K **11.5000.0032.20** 80 lm - 4000K **11.5000.0042.20**

LED and control gear included







Circle







1W 80°

drill-hole Ø71 31 lm - 3000K **11.5000.0033.20** 34 lm - 4000K **11.5000.0043.20**

LED and control gear included

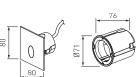






 ${\sf Squared}$





1W 800 drill-hole Ø71 31 lm - 3000K **11.5000.0034.20** 34 lm - 4000K **11.5000.0044.20**

LED and control gear included

Recessed lighting

4.5

Num

Num is a reduced range of recessed downlights suitable for places demanding a high degree of water-tightness – such as bathrooms, damp installations or outdoor porches.

Features

Cast aluminium body and hoop with special treatment for outdoor use. Protective clear glass. Stainless steel set screws.



Power

LED 13,5W, 25,7W

Beam

30°, 60°

Colour temperature

3000K warml white - CRI ≥ 80

4000K neutral white - CRI ≥ 80

Nominal lumen output

13,5W - 1563 /1528 lm, 25,7W - 2881 / 2819 lm

Control gear

Electronic (EL)

IP - IK

IP65 - IK06

Finishes

White (33)

Supply voltage

220... 240V, 50/60Hz

Installation

Recessed

Features















LED and control gear included





13,5W 30° drill hole Ø 125

1563lm 3000K **11.0460.8300.33** 4000K **11.0460.8400.33** 13,5W

60° drill hole Ø 125 1528lm

3000K **11.0460.8301.33** 4000K **11.0460.8401.33**









LED and control gear included





25,7W 30° drill hole Ø 182 2881 lm 3000K **11.0460.8310.33** 4000K **11.0460.8410.33**

25,7W 60° drill hole Ø 182 2819 lm 3000K **11.0460.8311.33** 4000K **11.0460.8411.33**





OUT_

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SURFACE













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Kubik p. 298

BerylKNLEDU&D Lico S p. 300

p. 302

5.1 Surface Apliques

A range of wall lamps for surface mounting designed for atmospheric lighting. High protection ratings for use outdoors or indoors.

This range includes several shapes, materials and light sources for mounting on wall, ceiling or simply mural.





Power

LED 6,3W, 9W, 16,2W

Beam

105°

Nominal lumen output

3000K warm white - CRI ≥ 80

4000K neutral white - CRI ≥ 80

Nominal lumen output

LED 6,3W - 300 lm, 9W - 450 lm, 16,2W - 860 lm

Control gear

Electronic (EL)

ΙP

IP54

Finishes

White (33)

Anthracite (22)

Supply voltage

220... 230V, 50/60Hz

Installation

wall, ceiling











Diffuser

Lamp LED and control gear included





9W 450lm control gear EL 3000K 11.6105.0001.22



Grid

Lamp LED and control gear included





9W 450lm control gear EL 3000K **11.6105.0002.22**



Semicircle

Lamp LED and control gear included





9W 450lm control gear EL 3000K **11.6105.0003.22**



Diffuser

Lamp LED and control gear included





6,3W 300 lm control gear EL 3000K 11.6105.0011.22



Grid

Lamp LED and control gear included





6,3W 300 lm control gear EL 3000K **11.6105.0012.22**



Semicircle

Lamp LED and control gear included





6,3W $300 \, \mathrm{lm}$ control gear EL 3000K **11.6105.0013.22** Surface 5.1 Apliques

Features





Finishes



.33



Louvers

Lamp LED and control gear included





16,2W 105° 860 lm control gear EL 4000 K 11.1611.0001



Diffuser

Lamp LED and control gear included





16,2W 105° 860 lm control gear EL 4000 K **11.1611.0002**







5.2

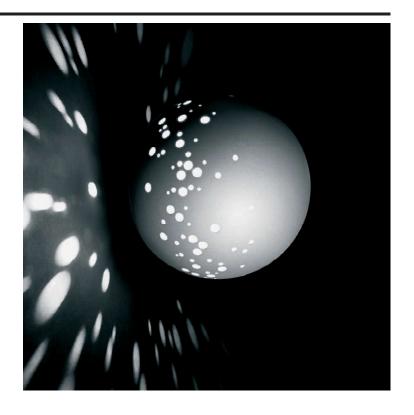
Injection moulding polycarbonate, machined and anodised in silver grey.

Two models:

- -Fixed to ceilings/walls.
- -Hanging from the ceiling.

Concept

The Riddle range has a very special design. Following a close observation of Nature, the idea of reproducing the light and shadow of sunlight filtering through leaves was created.





Power

LED 8W

HIT-TC 20W

QT-14 max.60W

QT-32 100W

Colour temperature

3000K warm white - CRI ≥ 80

Control gear

Electronic (EL)

IP - IK

IP65 - IK08

Finishes

Grey (21)

Supply voltage

220... 240V, 50/60Hz

Installation

wall, ceiling, suspended

Accessori

Hanging

Features Finishes **C €** | IP 65 8W 3000K **11.6603.0001.21** LED and control gear included PG J5 HIT-TC G9 **QT-14** 20W 60W 3000K **6603/20/21** 6603/60/21 Lamp and control gear included G9 **QT-14** PG J5 HIT-TC max. 60W **6604/60/21** 20W 3000K **6604/20/21** Lamp and control gear included G12 **HIT** E 27 **QT-32** 100W 70W 66005/100/21 66005/70/21 Control gear included

Accessories

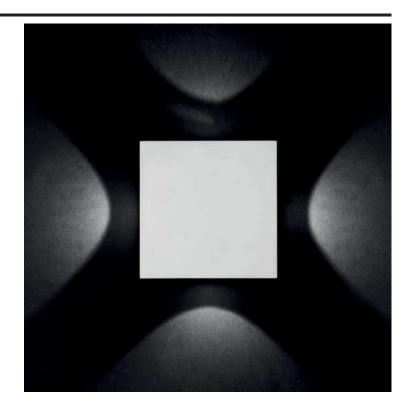
Hanging



For ref: 6604/20, 6604/60 **20/6604/21**

Surface **5.**3 Kubik

Square-format luminaire with lenses, that allows creation of different light effects. Luminaires can be set up with one Beam, two beams, three beams, or four beams to create emission beams single, double, triple or fourfold over façades, walls or passing areas.



Features:

Body built in aluminium specially coated with bad environmental conditions resistant paint. Luminaire with high protection degree: IP65. Electronic gear built in the luminaire. Surface mounted installation.



Iberostar Hotel, Mexico

Power

LED 7,2W, 12,6W

Beam

105°, UP 60° + 20°

Nominal lumen output

<u>7,2W - 273 / 524 lm, 12,6W - 963 lm</u>

Colour temperature

4000K neutral white - CRI ≥ 80

Control gear Electronic (EL)

IΡ

IP65

Finishes

White

Anthracite

Supply voltage 220...240V, 50/60Hz

Intallation

Surface

LED and control gear included

Surface **5.**4 Beryl KN LED U&D

Luminaires designed for accent and decorative lighting in restaurants, coffee shops, hotels and passing areas. There are versions with higher protection to create effects on walls and porches. Surface mounted luminaire suitable to light whatever surface through light beams and lenses with effects mono-emission and biemission.



Body built in aluminium. High isolation degree: IP40/IP65. Available to ceiling and wall mounted to create up and down effect. Gera built in the luminaire. Surface wall and ceiling mounted installation.



Power

LED 5W

Beam

120 + 120

Colour temperature

3000K warm white - CRI≥80 6000K cold white - CRI ≥ 80

Nominal lumen output

5W - 344lm

Control gear

Electronic (EL)

IP - IK

P65, IK04

Finishes

Grey

White

Supply voltage

220...230V, 50/60Hz

Installation

Surface, ceiling, wall

Features



IP 65

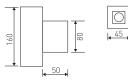




Wall Mounted

LED and control gear included





5W 12° + 12° 5W 12° + 12° 248 lm 3000K AG0KPGD2-4LED34C 248 lm 3000K **AG0KPGD2-4LED-21**

5W 12° + 12° 5W 12° + 12° 344 lm 6000K **AG0KPGD2-4LED21W** 344 lm 6000K **AG0KPGD2-4LED34W** Surface 5.5 Lico S

Lico S is a system of sealed fixtures for LEDs which can be set in continuous lines or as an independent module.

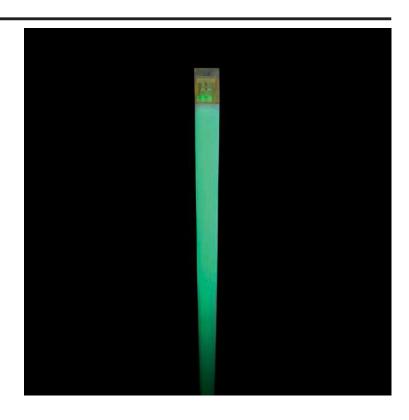
Lico S can be mounted on any surface, although there are also recessed models. Low power LEDs in white, single colour or RGB enable colour to be used as a live element of the décor. Changing cycles can be programmed.

Features

Made in extruded polycarbonate, satin finished, with the ends permanently sealed by end-caps. Can be clipped to a mount for fitting to any surface. Hermetic lighting unit, incorporating strips of LEDs.

LEDs included. Power rating shown for each module. Remote control gear. Fixtures require auxiliary equipment.

Supplied with 5 metres of 2 x 1.5 mm^2 silicone cable, for remote control installation.



Power

LED 8,6W, 14,4W, 20,2W, 23W, 38,4W, 54W

Bean

120°

Colour temperature

3000K warm white - CRI \geq 85

6500K cold white - CRI≥85

Nominal lumen output

8,6W - 103,9 lm, 14,4W - 172,8 lm, 202W - 241,9 lm

Control gear

Electronic (EL)

IP - IK

IP65, IK10

Supply voltage

220... 230V, 50/60Hz

Installation

Surface



Features







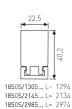




Required control gear





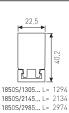


8,6W 8,6W 23W 120° 120° 120° 103,9 lm 103,9 lm 103,9 lm

6500K **1850S/130584** 3000K 1850S/130583 RGB 1850S/1305RGB

LED included





14,4W 14,4W 38,4W 120° 120° 120° 172,8 lm 172,8 lm 172,8 lm

RGB 1850S/2145RGB 6500K **1850S/214584** 3000K **1850S/214583**

LED included





20,2W 20,2W 54W 120° 1200 1200 241,9 lm 241,9 lm 241,9 lm

6500K **1850S/298584** 3000K **1850S/298583** RGB 1850S/2985RGB

I FD included



1850S/1305... L= 1294 1850S/2145... L= 2134 1850S/2985... L= 2974

Hermetic connector





With terminals up to 4mm² section. To join 5mm² silicone cable to 13 mm². L=120mm

48/04



Sealed connecting box to incorporate varius types of units

49/00

Auxiliary equipment IP20

Power supply 120-240Vac/24V 35W Power supply 120-240Vac/24V 60W Power supply 120-240Vac/24V 96W Power supply 120-240Vac/24V 180W 71/LD3524 71/LD6024 71/LD10024 71/LD15024

Auxiliary equipment IP67

Power supply 220-240Vac/24V 60W Power supply 120-240Vac/24V 96W Power supply 120-240Vac/24V 150W

Auxiliary equipment for regulation

DAL**I** dimmer 24V

71/LDRD2412504

Leds dimmer 12-24V on/off, push, DALI, 0-10V, 1-10V

73/DLP

Leds dimmer 12-24V on/off, push, DALI, 0-10V, 1-10V (slave)

73/DLS

lighting your ideas

