LiGHTPRO
PROFESSIONAL OUTDOOR LIGHTING

Collection
2025

lightpro.nl/en

Ambiance at **its** **best!**

Find out what **garden lighting** will do for you!

Lightpro is a Techmar brand. We focus fully on 12-volt outdoor lighting. Easy to install, easy to expand and energy-efficient. That's because Lightpro lights and accessories are developed on the basis of low voltage (12 volts). So you don't need to bury the cables and our system is guaranteed to be safe for both people and animals.

We design outdoor lighting for any garden that deserves that extra bit of attention, be it with spotlights, wall lights or post lighting. We are the specialist that professionals turn to with questions and requests.

This brochure contains all our light fixtures, accessories and application options. Check out the inspiring options and get started right away.

Lightpro - professional outdoor lighting

Get **inspired** every day

Discover Lightpro at a selling point!
Would you like to see Lightpro products for real?
Then go to our website for a selling point near you!

Contents

Without outdoor lighting

With outdoor lighting

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A world of difference: perfect lighting for your garden

Discover how outdoor lighting can make a world of difference! Transform your garden from a dark outdoor space into a warm and inviting paradise with our 12-volt lighting. Enjoy a beautifully illuminated garden every evening, where the keywords are style and safety.

The benefits of our system

Energy-efficient & durable
All Lightpro's light fixtures feature LED light sources.
√ Extremely low energy consumption
√ Long service life

Simple & flexible
Our system works on 12 volts.
√ Easy to fit
√ No electrician required
√ Easily expandable

Safe
12 volts is low voltage and therefore harmless.

Dutch design
We design and manufacture all our products ourselves at our innovation centre.
√ Tight-knit team
√ Best quality guaranteed
√ Top-grade range

6 Years Warranty
We provide a 6-year warranty on all our products.

step by step

1 Make a plan of your garden.

2 Map out which elements you really want to illuminate.

3 Determine whether your lighting should be functional or mood lighting.

4 Select the fixtures that reflect the style of your garden.

Create your own lighting plan
Check out our product configurator on the website!

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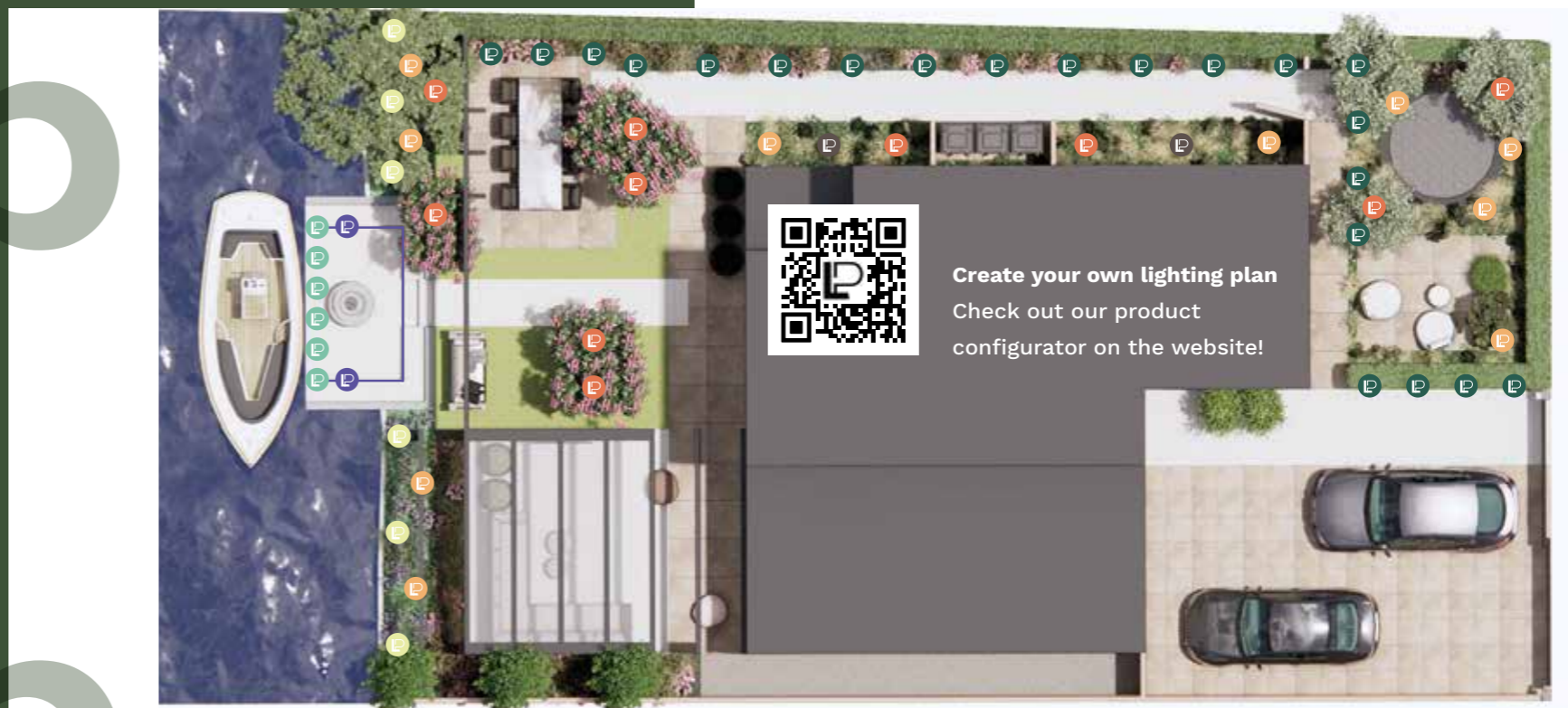
Lighting plan

These days, outdoor lighting is indispensable. There's always a type of outdoor lighting that suits the style of your garden. Create a cozy mood in your garden and make your garden safer with 12-volt outdoor lighting. We supply various fixtures for that. No idea how to begin? A lighting plan ensures that you know in advance what you'll need. In the evening, go outside and look at which areas you want to illuminate. What would you really like to illuminate or accentuate? Then calculate the total wattage of your lighting plan to determine whether you need multiple transformers! It's easy to create a lighting plan yourself or together with a garden designer or architect! The necessary steps are given above.

Cable plan

Once the lighting plan is fully developed, the next step is to draw up a Cableplan. A good Cableplan is essential to ensure that the installation of the lighting runs efficiently and without unforeseen problems. By determining in advance where Cables will be located, you can avoid potential bottlenecks during implementation.

Do you need any help drawing up your lighting or cable plans? Then contact the Lightpro Customer Support team!

1 Draw a rough sketch based on the lighting plan and start with the transformer(s). Are you unsure whether you need one or more transformers? Then add up the wattage of the fixtures and accessories you've chosen.

2 Starting with the transformer, draw the cables along the lighting. Note the number of meters of cable so you know which roll you'll need. Did you know that Lightpro allows you to use up to 80 meters of cable from the transformer for each branch?
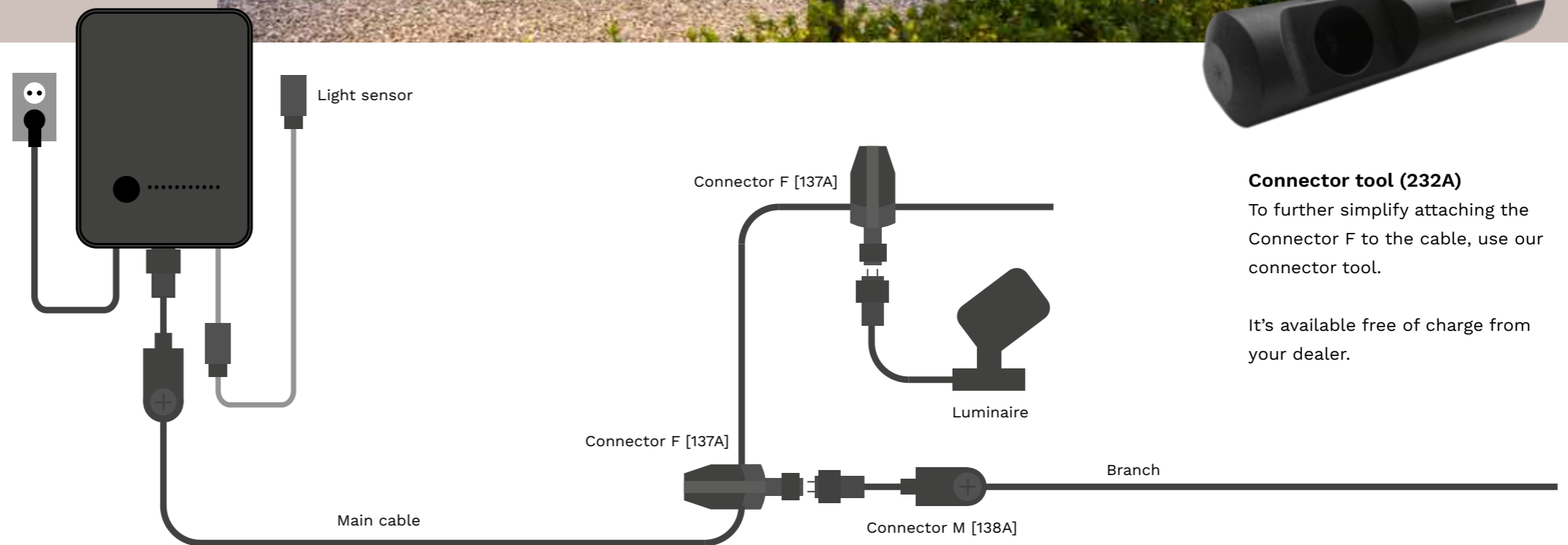
step by step

The system

Lightpro's garden lighting offers various options for creating cosy lighting in your outdoor space. Lightpro is a professional brand specializing in high-quality products that operate on 12 volts. The 12-volt cable system is safe, flexible and watertight, and doesn't have to be buried. It's easy to install cables of up to 80 meters. The single-piece special connector makes installing 12-volt outdoor lighting easy and quick!

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Using these steps, you'll easily install our 12-volt outdoor lighting:

1 Lay out the lights in the required locations and roll out the main cable.

2 Connect the Connector F to the main cable and place the light.

3 Connect the cable from the light to the Connector F.

4 Connect the Connector M at the beginning of the main cable.

5 Plug the Connector M into the transformer.

6 Insert the transformer plug into the socket.

Light sensor

Connector F [137A]

Connector F [137A]

Luminaire

Connector F [137A]

Branch

Main cable

Connector M [138A]

For more explanation, watch our YouTube channel or scan this QR code:

Connector tool (232A)
To further simplify attaching the Connector F to the cable, use our connector tool.

It's available free of charge from your dealer.

A Connector F is supplied with each luminaire. Want to make a branch? Then make sure you purchase both a Connector F and a Connector M.

New in 2025!

Have you mounted the Touch Transformer outdoors and do you want to protect it from the elements? Then our Cover gives extra protection. This Cover is made of high-quality, durable plastic, and slides easily over both the 100-W and 150-W Touch Transformer models.

Transformer Touch Cover (231A)
Plastic
195 x 135 x 77 mm (H x W x D)

Lightpro is a very dynamic company. We're continually improving our products to make sure you have the best outdoor lighting solutions. We proudly present our newest 12-volt products: **Tiga Wall, Tiga Corner, Deco 30, Deco 40, Deco 50,** our new **Onyx series, LED Strip Clips, Extension Cable** and the **Connector Cover!**

These innovations were specially designed to make your outdoor space even more atmospheric, safe and user-friendly, and ensure you get even more out of your Lightpro 12-volt system. With features such as the easy plug-and-play installation, Lightpro is the go-to brand for any garden enthusiast looking for stylish and safe outdoor lighting.

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Extension cable 0,3m (1381011)
Plastic - Black
SPT-2W
0,3 meter

Tough weather conditions? Use this handy tool to make our Connector F IP68.

Connector Cover (247A)
Plastic
IP68
5 Pieces
Including gel
120 x 47 x 55 mm (H x W x D)

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Simply attach the clips to the corresponding surface and press in the LED strip (175L) for an attractive, sleek finish.
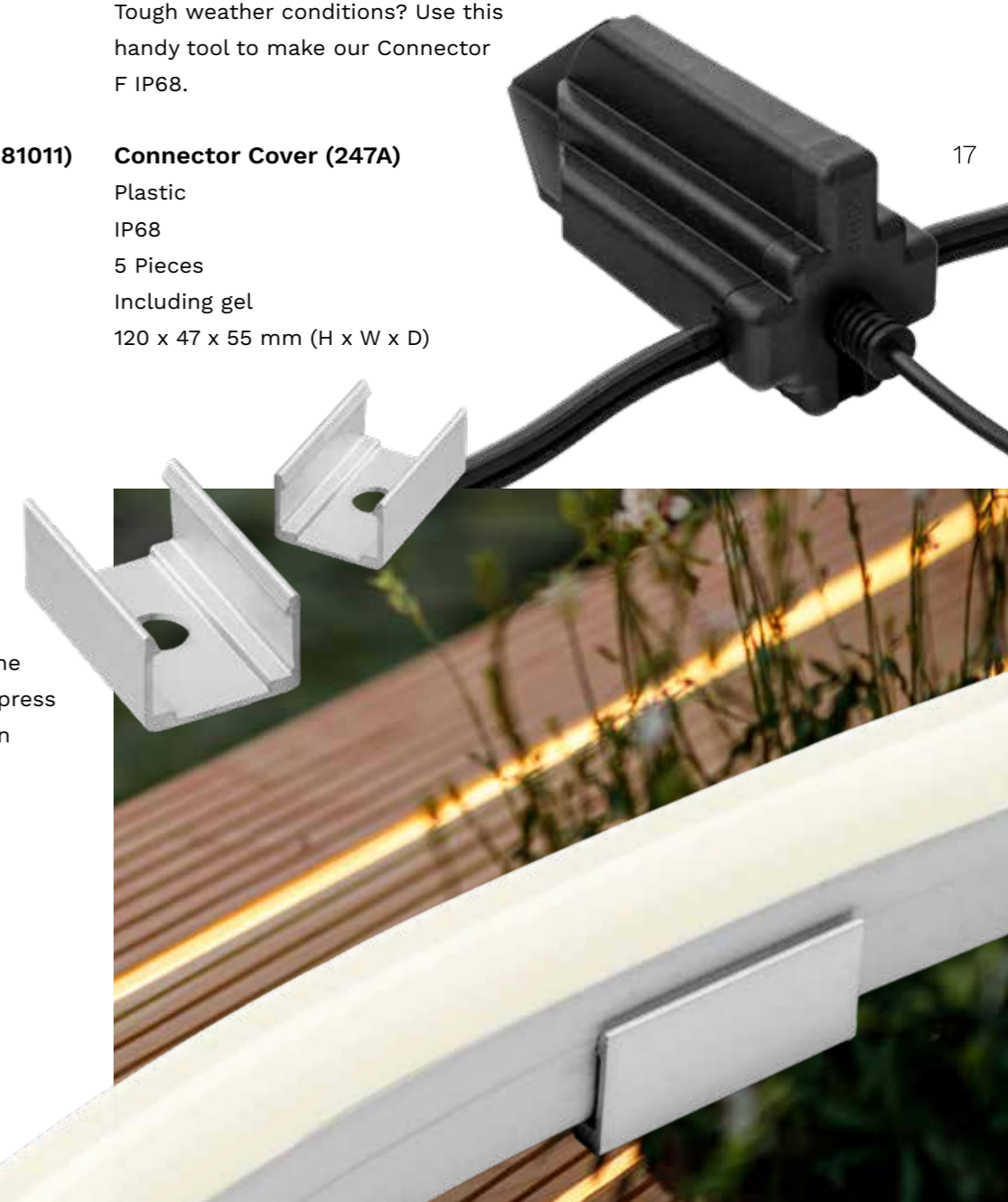
LED strip clips (250L)
Aluminium
60 Pieces
Includes screws & plugs
9 x 11 x 17 mm (H x W x D)

Deco 30 Smart (Zigbee) (254N)
Polyethylene - White
LED 5 W
RGB
280 lm
300 mm (Ø)

Deco 40 Smart (Zigbee) (255N)
Polyethylene - White
LED 5 W
RGB
280 lm
400 mm (Ø)

Deco 50 Smart (Zigbee) (256N)
Polyethylene - White
LED 5 W
RGB
280 lm
500 mm (Ø)

Illuminate your garden in style with Lightpro's latest products!

Light up your canopy with our Tiga Corner! This unique dimmable luminaire can be placed at any angle using the bracket provided.

DIMMABLE

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Tiga Corner (208S)
Aluminium - Black
LED 3,5 W
2.700 K
10 - 100 lm
46 x 93 x 105 mm (H x W x D)

Tiga Wall (249W)
Aluminium - Black
LED 3,5 W
3.000 K
70 lm
75 x 75 x 42 mm (H x W x D)

Onyx 30 RS (240D)
Stainless steel 316
LED 0,5 W
2.700 K
4 lm
59 x 45 mm (H x Ø)
Drillhole 30 mm

Onyx 60 RS (242D)
Stainless steel 316
LED 1 W
2.700 K
23 lm
59 x 75 mm (H x Ø)
Drillhole 60 mm

Lenses supplied as standard

Opal

Honeycomb

Clear

19

Onyx 30 RA (241D)
Aluminium - Anthracite
LED 0,5 W
2.700 K
4 lm
59 x 45 mm (H x Ø)
Drillhole 30 mm

Onyx 60 RA (243D)
Aluminium - Anthracite
LED 1 W
2.700 K
23 lm
59 x 75 mm (H x Ø)
Drillhole 60 mm

Onyx 90 RA (245D)
Aluminium - Anthracite
LED 2 W
2.700 K
76 lm
78 x 105 mm (H x Ø)
Drillhole 90 mm

Let's get Smart!

'Hey Google, turn on the garden lights!'

Our Smart product line: bring your garden to life! Lightpro's smart accessories give you complete control over your outdoor lighting. If you want to upgrade your existing Lightpro system to a smart system, **Smart Switch** offers an easy solution. Alternatively, install the **Smart Motion Sensor** to detect motion, and define a response. That could mean one lamp turning on, or several luminaires at once, perhaps even in a different color such as red? Our easy-to-use app gives you complete control!

Unique in our range: a smart, 12-volt camera, ideal for any garden project.

For more information, please visit our smart page

Zigbee and Wi-Fi: always connected.
Our smart solutions use **Zigbee** and **Wi-Fi** technology.
Wi-Fi connects devices to the internet, so you can control your Lightpro system from anywhere in the world with the Lightpro app. At home, work, or on vacation? You're always in control. The app also gives you access to useful features such as the **astronomical clock** and **weather forecasts**, making your garden lighting even smarter.
Zigbee allows your smart wired devices to communicate with each other in a mesh network. As a result, Zigbee products act as mutual boosters, enabling you to also install your lights in spots without a Wi-Fi signal. Useful for larger gardens! Zigbee also consumes little energy, so your smart products last longer.

The Lightpro app allows you to easily set timers, determine the desired light color, and decide what the Motion Sensor does when it detects movement. The Lightpro app can be downloaded from the Apple App Store or Google Play.

These products work using voice control:

Ok Google   amazon alexa

Download the Lightpro app here

Enhance the **charm** of your garden with **Lightpro garden lighting!**

The Lightpro Gateway converts a Wi-Fi signal to Zigbee, enabling communication with our Smart fixtures and Smart Motion Sensors.

Gateway Smart (Wi-Fi - Zigbee) (219A)
Plastic - Black
Range 20 meters
IP20
USB Powered
64 x 64 x 15 mm (H x W x D)

Need more information?
Visit our Smart videos

Deco 30 Smart (Zigbee) (254N)
Polyethylene - White
LED 5 W
RGB
280 lm
300 mm (Ø)

Deco 40 Smart (Zigbee) (255N)
Polyethylene - White
LED 5 W
RGB
280 lm
400 mm (Ø)

Deco 50 Smart (Zigbee) (256N)
Polyethylene - White
LED 5 W
RGB
280 lm
500 mm (Ø)

Castor Smart (Zigbee) (200N)
Aluminium - Anthracite
LED 5 W
RGB
280 lm
95 x 60 x 120 mm (H x W x D)

Atik Smart (Zigbee) (246N)
Aluminium - Black
LED 5 W
RGB
280 lm
135 x 120 mm (H x Ø)
Drillhole 100 mm

Oberon Smart (Zigbee) (199N)
Aluminium - Anthracite
LED 5 W
RGB
280 lm
665 x 64 mm (H x Ø)

Frame the
moment

Discourage uninvited guests and ensure safety in your garden. The wireless motion sensor works via Zigbee. You can maintain a maximum distance of 20 metres from the Zigbee Gateway or a Zigbee lamp. Make sure the Motion Sensor is no further than 16 metres away from the Gateway to add in the app.

Motion Sensor Smart (Zigbee) (227A)
Plastic - Black
Detection range up to 10 meters
Detection angle 120 degrees
Includes 2 AAA Batteries
70 x 70 x 32 mm (H x W x D)

zigbee

Lightpro Smart allows you to control everything! Data can be stored in the Cloud, but it is also possible to add a micro SD card for extra memory. The camera uses IR night vision. Thanks to the integrated PIR motion sensor, the lights will switch on when motion is detected. The camera detects motion up to 10 metres away and has a 65-degree detection angle. Our new 12-volt camera runs on Wi-Fi and can easily be combined with our system.

Camera Smart 12V (Wi-Fi) (218A)
Plastic - Black
71 x 66 x 188 mm (H x W x D)
IP65
Usage 7 watt
• Combines motion with smart outdoor lighting
• PIR motion sensor included
• Detects motion up to 10m
• Detection angle 65°
• Cloud data storage
• (optional) Local storage on micro SD card
• IP65 certified product
• Night vision (IR)
• Install max. 40 meters from router

WiFi

For more information,
please visit our smart page

If you have fixtures that cannot be controlled intelligently yet, but that you would like to control via an app, then the Lightpro Smart Switch is the perfect solution! The Smart Switch is suitable if you already have a Lightpro system in your garden or are just starting out with a new system: either way, it makes your garden lighting easy to use and energy efficient.
Control your entire lighting system easily with the Lightpro app. Illuminate all or part of a garden at the touch of a button. The option to control settings remotely means lights never stay on unnecessarily.

The Switch is controlled via Wi-Fi, and is easy to connect to a 12-volt system. The Smart Switch also features an astronomical clock, which automatically turns your lights on and off at sunrise and sunset. It means you can enjoy an attractive garden without having to change time settings.

Switch Smart (Wi-Fi) (238A)
Plastic - Black
Range 40 meters
75 x 70 x 30 mm (H x W x D)

WiFi

Outdoor lighting from **Lightpro** makes your garden **safer**!

"In addition, outdoor lighting has been shown to deter uninvited guests."

A well-lit garden isn't just attractive: it also makes your outdoor space a safer place, whether you're enjoying a quiet moment in the garden in the evening or need to be sure you can get in your home safely. An illuminated garden provides better visibility for steps and dark areas, so you can see clearly where you're walking. What's more, it has been proven that outdoor lighting helps keep uninvited guests out.

1

Illuminate Your Paths
It's important that you can see the paths in your garden easily, especially after dark. Poorly lit paths increase the risk of tripping or slipping, especially if it's wet or icy. Place Lightpro ground spots or free-standing lights along paths to provide clear marking and make a walk through your garden much safer.

2

Illuminated Steps
If you have steps in your garden or on your patio, it's essential to illuminate them properly. You can make your steps safe with subtle recessed spotlights or LED strips, among other solutions. This both looks stylish and prevents falls caused by poor visibility.

3

Motion Detector
The Smart Motion Sensor is an excellent choice for increasing safety and security around your home. You can set lights to come on and go off as preferred, and have them switch on automatically as soon as someone approaches. There are two advantages to this system: it deters unwanted visitors, and provides instant lighting when you enter your garden or driveway.

4

Choose Durable, Safe Materials
It's important your garden lights are made of waterproof, weather-resistant materials. Lightpro lighting is famed for its durable and rugged construction, so you can relax in the knowledge that your lighting can withstand all kinds of weather. It's also a good idea to use LED sources, such as those supplied by Lightpro, as these are energy efficient and do not overheat.

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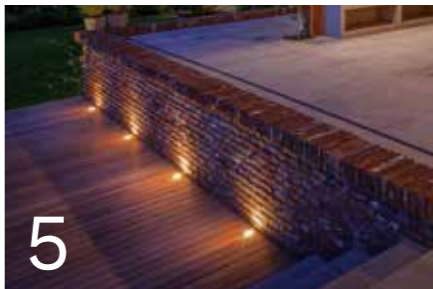
Accent Lighting To Improve Orientation
Illuminating specific trees, shrubs or other perennial elements in your garden creates a beautiful atmosphere with the added bonus that any obstacles are clearly visible. Lightpro accent lighting makes it easy to find your way around your garden at night, and prevents unexpected collisions.

6

Smart Lighting And Timers
Use Lightpro's smart lighting or timers to ensure that your garden is always lit at the right time. This not only increases comfort, it also boosts safety, as your garden is never completely shrouded in darkness. Set the lights to come on automatically as soon as the sun goes down.

Conclusion

Garden lighting plays a crucial role in enhancing security around your home. Strategically placed Lightpro light fixtures make your garden a more attractive place, prevent accidents, and keep unwanted visitors out. The result? You can enjoy your garden in peace at any time of the day.

Insects & birds

If you want to illuminate your garden attractively without disturbing local wildlife, Lightpro's 12-volt outdoor lights are an animal-friendly choice. They protect both birds and insects. Read all about making the right choice here, including the perfect color temperature (Kelvin or K) and luminosity (lumens or lm) for a garden where wildlife feels at home.

Tips

o Recommended light settings:
  - Color temperature: 2.700 to 3.000 K (warm white light)
  - Light intensity: 100 to 300 lm for soft, ambient lighting
o Use dimmable LED light sources to adjust the brightness to suit the mood and time of night.
o To avoid glare, use downlighters that direct light downward. This prevents birds and insects from becoming caught in the light.
o Use an astronomical clock to protect insects and birds when they are active.

Reduce Light Pollution

Excessive or poorly directed outdoor lighting creates light pollution and has a negative impact on the charm of your garden in the evening hours. Lightpro 12-volt outdoor lighting, however, can be directed exactly where you need it. By choosing the right color temperature and a modest brightness in terms of lumens, you reduce light pollution and protect the natural rhythms of the wildlife around your home.

Attract Insects And Birds To Your Garden

Although insects, such as butterflies and bees, are often attracted to bright, warm light, this light can disrupt their natural rhythms. To make your garden really insect-friendly, choose outdoor lighting with a low color temperature of 2.700 to 3.000 K. This soft, warm light is less attractive to nocturnal insects. Red light is also very insect-friendly, as insects cannot detect it easily and are less attracted to it. That makes it an excellent choice for an eco-friendly garden. Use Lightpro smart fixtures where you can set the color temperature yourself! This type of lighting is also good for birds. Bright light can have a major impact on birds' sleep patterns, so it's important to choose warm light between 2.700 and 3.000 K to avoid disturbing them. This light imitates the light at sunset, which boosts the natural sleep rhythm of birds. Avoid cool white or blue light, as this can be very distracting to birds.

For insects, it's also a good idea to take the brightness into account. Choose bulbs with about 100 to 300 lm. This creates subtle lighting that is bright enough to create a cozy atmosphere, but not too much for insects. You can then enjoy a beautifully lit garden without harming wildlife!

Lighting plan

5x	Castor 4	
3x	Juno 2	
8x	Onyx 30	
3x	Agate	
5x	Atik R1	
2x	Transformator Touch 100W	
1x	100m Cable	
1x	Switch Smart	
2x	Motion Sensor Smart	

Stand tall **shine bright**

Easily create the ambience you want with our outdoor post lights. We have a solution to satisfy every wish.

LIGHTPRO

Post lights

Erba Mid

Erba Mid (223P)
Aluminium - Anthracite
LED 1,1 W
3.000 K
100 lm
734 x 20 mm (H x Ø)

Erba Set (222P)
Aluminium - Anthracite
LED 1,1 W (3x)
3.000 K
100 lm
Large   904 x 20 mm (H x Ø)
Medium   734 x 20 mm (H x Ø)
Small   564 x 20 mm (H x Ø)

Oberon Smart (Zigbee) (199N)
Aluminium - Anthracite
LED 5 W
RGB
280 lm
665 x 64 mm (H x Ø)

zigbee

• A Connector F is supplied with each luminaire

Oberon Hi

DIMMABLE

DIMMABLE

DIMMABLE

Oberon Lo (190P)

Aluminium - Anthracite
LED 4 W
3.000 K
40 - 400 lm
420 x 64 mm (H x Ø)

Oberon Hi (191P)

Aluminium - Anthracite
LED 4 W
3.000 K
40 - 400 lm
665 x 64 mm (H x Ø)

Oberon Dl (192P)

Aluminium - Anthracite
LED 9 W
3.000 K
75 - 750 lm
600 x 93 x 110 mm (H x W x D)

• A Connector F is supplied with each luminaire

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Alon

Eros Lo (217P)
Aluminium/glass- Black
LED 3,5 W
2.200 K
280 lm
550 x 115 mm (H x Ø)

Eros Hi (214P)
Aluminium/glass- Black
LED 3,5 W
2.200 K
280 lm
870 x 115 mm (H x Ø)

Alon (221P)
Metal - Anthracite
LED 3,3 W
3.000 K
30 - 310 lm
700 x 64 x 160 mm (H x W x D)

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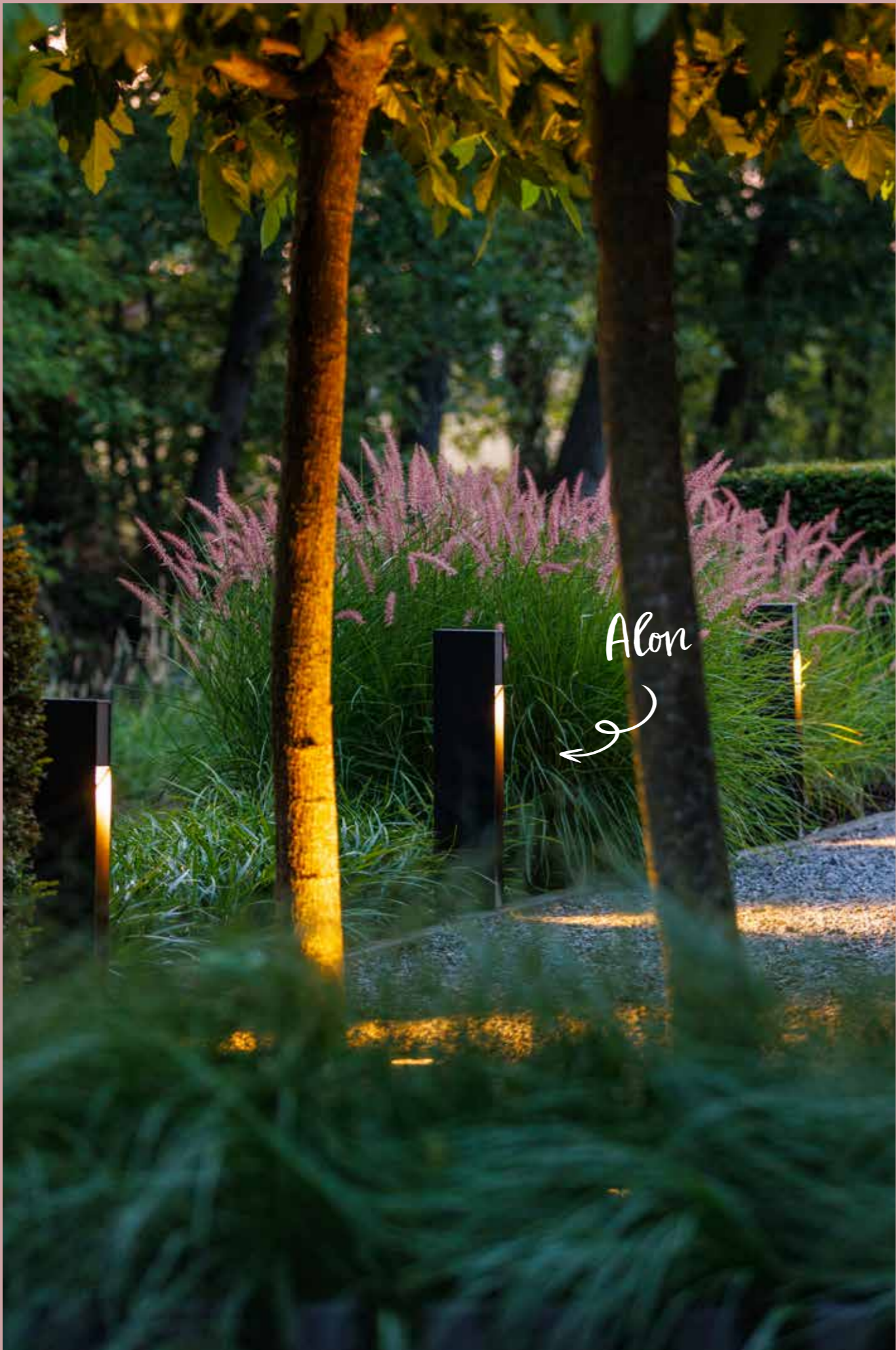
• A Connector F is supplied with each luminaire

Barite 60

Barite 40 (112P)
Aluminium - Black
LED 2,6 W
3.000 K
230 lm
410 x 65 mm (H x Ø)

Barite 60 (111P)
Aluminium - Black
LED 2,6 W
3.000 K
230 lm
575 x 65 mm (H x Ø)

Nodin (128P)
Stainless steel 316
LED 2,6 W
3.000 K
230 lm
1.050 x 55 mm (H x Ø)

DIMMABLE

DIMMABLE

• A Connector F is supplied with each luminaire

You are spot on

Want to attractively illuminate shrubs, trees and other objects? Then choose our spotlights with different light beams. Our powerful spotlights literally put a beautiful large tree in the 'spotlight'! If you prefer to play with the brightness, dimmable spotlights are what you are looking for.

Spotlights

44

Castor 4

Castor 3 (177S)
Aluminium - Anthracite
LED 2,5 W
3.000 K
200 lm
95 x 60 x 100 mm (H x W x D)

Castor 4 (178S)
Aluminium - Anthracite
LED 3,5 W
3.000 K
40 - 400 lm
95 x 60 x 100 mm (H x W x D)

DIMMABLE

Castor 8 (179S)
Aluminium - Anthracite
LED 8 W
3.000 K
80 - 800 lm
95 x 60 x 115 mm (H x W x D)

DIMMABLE

45

Castor 9 (180S)
Aluminium - Anthracite
LED 9 W
3.000 K
65 - 750 lm
95 x 60 x 120 mm (H x W x D)

DIMMABLE

exchangeable reflector

Castor Smart (Zigbee) (200N)
Aluminium - Anthracite
LED 5 W
RGB
280 lm
95 x 60 x 120 mm (H x W x D)

zigbee

• A Connector F is supplied with each luminaire

Juno Tube

360°

Quartz (196W)
Aluminium - Black
LED 1,8 W
3.000 K
150 lm
105 x 50 x 88 mm (H x W x D)
- Can also be used as a wall light

Juno Tube (213S)
Aluminium - Anthracite
LED 4 W
3.000 K
372 lm
85 x 55 x 68 mm (H x W x D)

The **Tube** can be used in combination with the **Juno Tube** and can either be placed in the ground or mounted on a wall using the accessories supplied.

Tube [215A]
Aluminium - Anthracite
1.200 x 20 mm (H x Ø)

• A Connector F is supplied with each luminaire
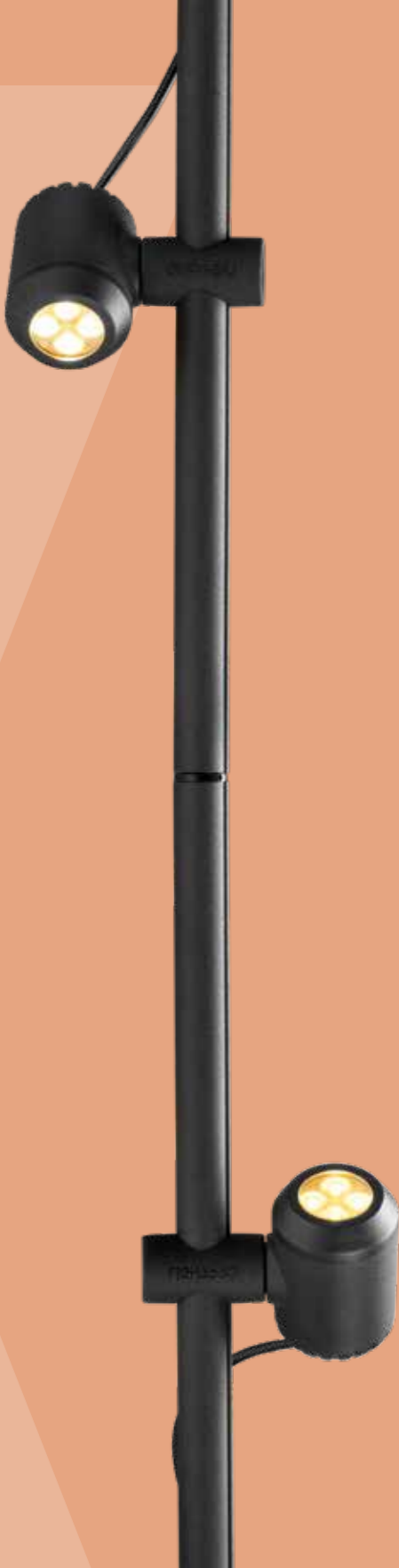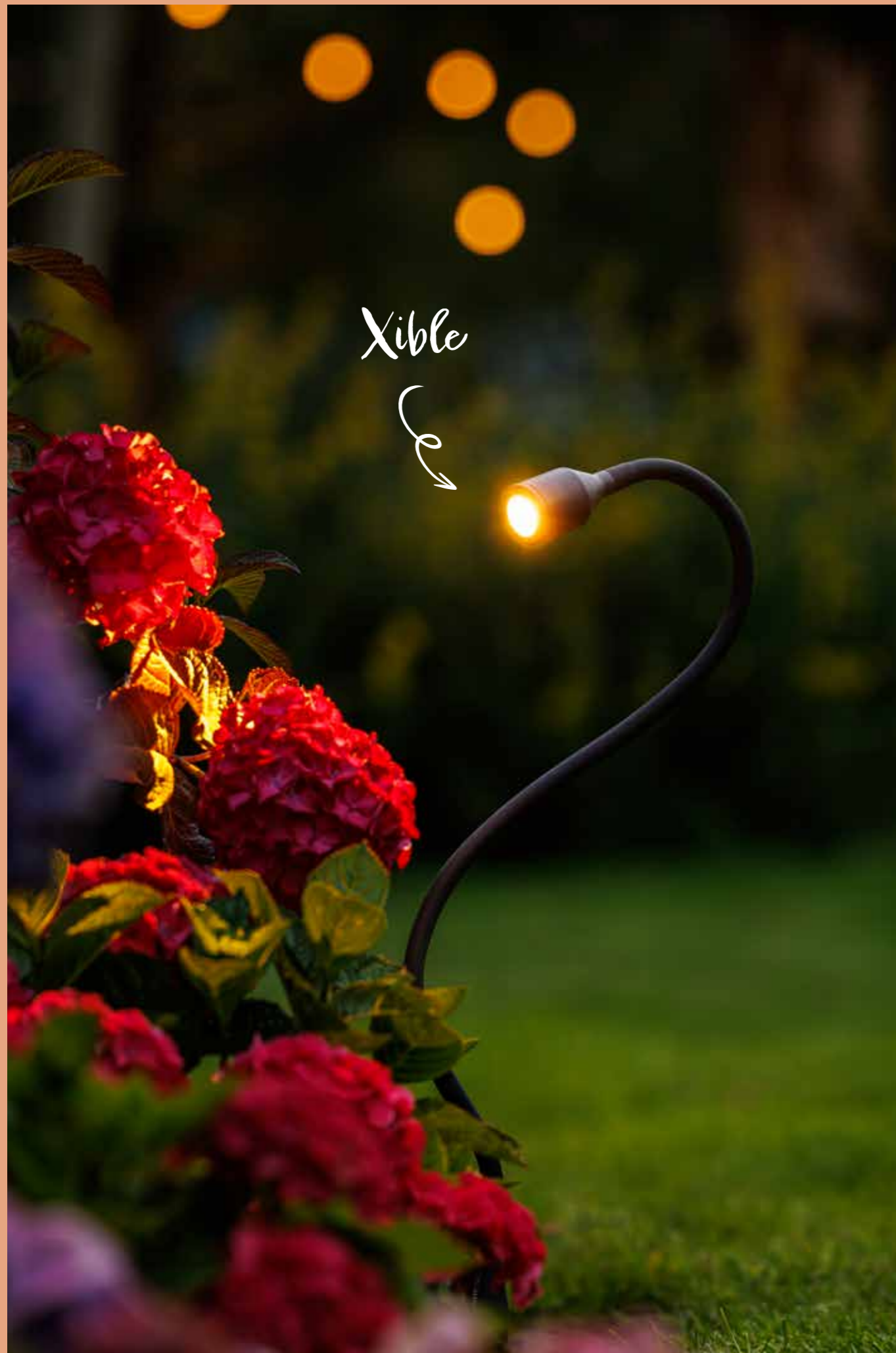
Xible

Avior (181S)
Aluminium - Anthracite
LED 16 W
3.000 K
150 - 1.500 lm
125 x 180 x 68 mm (H x W x D)

DIMMABLE

DIMMABLE

Tiga DL (209S)
Aluminium - Black
LED 4,2 W
3.000 K
9 - 90 lm
88 x 68 x 63 mm (H x W x D)
- Can also be used as a wall light

Xible (224S)
Aluminium - Anthracite
LED 2 W
2.700 K
160 lm
695 x 36 mm (H x Ø)
- Can also be used as a wall light

• A Connector F is supplied with each luminaire

Juno 2

The Nilus is an underwater spotlight; its design matches that of the Castor and Juno. The Nilus has an IP68 protection rating, making it suitable for permanent underwater use up to half a meter. The Nilus stands securely in a pond thanks to its weighted base, but it is also easy to attach to a solid surface thanks to the supplied screws and plugs that fit precisely into the base. The Nilus has an SMD LED light source which emits a warm white light. In short, you can easily, quickly and safely create an underwater scene with the Nilus.

IP68

Nilus (210S)
ABS - Black
LED 3,4 W
3.000 K
362 lm
135 x 95 x 110 mm (H x W x D)

Juno 2 (193S)
Aluminium - Anthracite
LED 1,5 W
3.000 K
192 lm
85 x 55 x 68 mm (H x W x D)

Juno 4 (194S)
Aluminium - Anthracite
LED 4 W
3.000 K
372 lm
85 x 55 x 68 mm (H x W x D)

• A Connector F is supplied with each luminaire

From wall to wow!

LiGHTPRO

Lighting a fence, garden wall or canopy? With our wall lights, this has never been easier!

Wall lights

Tiga Corner

Ixion 12V (182W)
Aluminium - Anthracite
LED 4,5 W x2
3.000 K
45 - 530 lm
110 x 110 x 110 mm (H x W x D)

DIMMABLE

Ixion Small 230V (230W)
Aluminium - Anthracite
LED 3W x2
3.000 K
500 lm
100 x 100 x 100 mm (H x W x D)

Tiga Wall (249W)
Aluminium - Black
LED 3,5 W
3.000 K
70 lm
75 x 75 x 42 mm (H x W x D)

Tiga Corner (208S)
Aluminium - Black
LED 3,5 W
2.700 K
10 - 100 lm
46 x 93 x 105 mm (H x W x D)

DIMMABLE

• A Connector F is supplied with each luminaire

Quartz
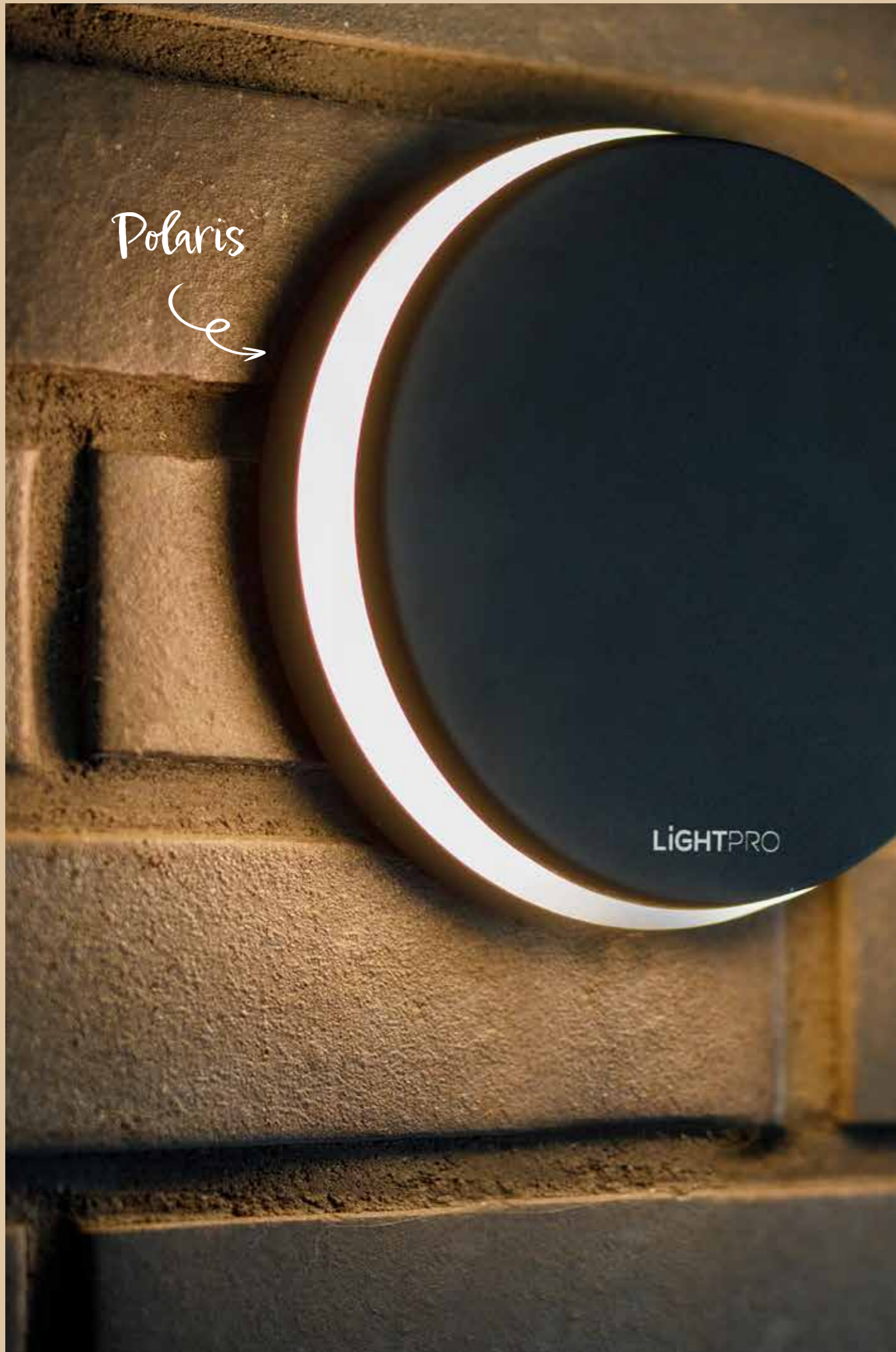
Kuma (184W)
Aluminium - Anthracite
LED 6 W
3.000 K
300 lm
145 x 35 mm (Ø x D)

DIMMABLE

360°

Tiga DL (209S)
Aluminium - Black
LED 4,2 W
3.000 K
9 - 90 lm
88 x 68 x 63 mm (H x W x D)
- Can also be used as a spotlight

Quartz (196W)
Aluminium - Black
LED 1,8 W
3.000 K
150 lm
105 x 50 x 88 mm (H x W x D)
- Can also be used as a spotlight

• A Connector F is supplied with each luminaire

Polaris

The **Tube** can be used in combination with the **Juno Tube** and can either be placed in the ground or mounted on a wall using the accessories supplied.

Tube (215A)
Aluminium - Anthracite
1.200 x 20 mm (H x Ø)

Juno Tube (213S)
Aluminium - Anthracite
LED 4 W
3.000 K
372 lm
85 x 55 x 68 mm (H x W x D)

Polaris (185W)
Aluminium - Anthracite
LED 6 W
3.000 K
500 lm
140 x 35 mm (H x Ø)

• A Connector F is supplied with each luminaire

Light your **path**

Decklights

Our extensive range of premium lighting offers the best solution for every garden. Do you want a beautifully lit walkway or a stunning star path in your garden? Use several Lightpro decklights to create your own dream garden. Simply place them in tiling, decking, or even gravel or soil.

Onyx 90 RA

The Onyx 30, 60 and 90 are supplied with a ground pipe as standard so that these lights can be placed in gravel or soil. We also supply the following lenses:

Opal   Honeycomb   Clear

Onyx 20 Sleeve (237A)
Aluminium - Black
35 x 31 mm (H x Ø)
Drillhole 25 mm

Onyx 20 (212D)
Plastic - Black
LED 0,3 W
2.700 K
1 lm
33 x 20 mm (H x Ø)
Drillhole 20 mm

Onyx 30 RS (240D)
Stainless steel 316
LED 0,5 W
2.700 K
4 lm
59 x 45 mm (H x Ø)
Drillhole 30 mm

Onyx 60 RS (242D)
Stainless steel 316
LED 1 W
2.700 K
23 lm
59 x 75 mm (H x Ø)
Drillhole 60 mm
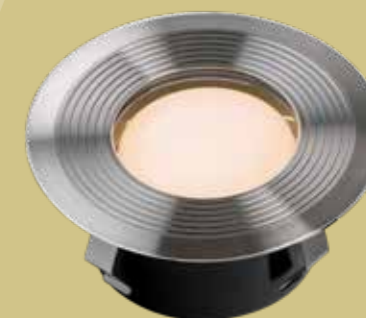
Onyx 90 R1 (156D)
Stainless steel 316
LED 2 W
2.700K
76 lm
42 x 105 mm (H x Ø)
Drillhole 90 mm

Onyx 30 RA (241D)
Aluminium - Anthracite
LED 0,5 W
2.700 K
4 lm
59 x 45 mm (H x Ø)
Drillhole 30 mm

Onyx 60 RA (243D)
Aluminium - Anthracite
LED 1 W
2.700 K
23 lm
59 x 75 mm (H x Ø)
Drillhole 60 mm

Onyx 90 RA (245D)
Aluminium - Anthracite
LED 2 W
2.700 K
76 lm
59 x 105 mm (H x Ø)
Drillhole 90 mm

• A Connector F is supplied with each luminaire

The **Rodas** converts any garden into an 'outside room' that you can enjoy until late into the night.

Rodas see page 73

The Sky is the limit

A tree or shrub properly illuminated makes for a spectacular sight. And this is easy to do yourself by installing uplights. An ideal way to draw more attention to an object in the garden. When night falls, these spotlights create a beautiful lighting effect. Want to bet you take a peek into your garden more often?

Uplights

Atik R1

Atik R1 (186U)
Aluminium - Black
LED 9 W
3.000 K
65 - 750 lm
135 x 120 mm (H x Ø)
Drillhole 100 mm

DIMMABLE
adjustable reflector
exchangeable reflector

Atik Smart (Zigbee) (246N)
Aluminium - Black
LED 5 W
RGB
280 lm
135 x 120 mm (H x Ø)
Drillhole 100 mm

zigbee

Agate (102U)
Stainless steel 316
LED 2,6 W
3.000 K
230 lm
113 x 115 mm (H x Ø)
Drillhole 90 mm

Nomia (207U)
Aluminium - Black
LED 3 W
3.000 K
313 lm
125 x 90 mm (H x Ø)
Drillhole 70 mm

• A Connector F is supplied with each luminaire

Glow with the flow

We have a variety of fixtures so you can create exactly the right mood. These include the playful effect of our Rodas hanging lights, the subtlety of our LED strip, and the allure of our Deco lights. Mood lighting creates extra warmth in your garden.

Decorative lights
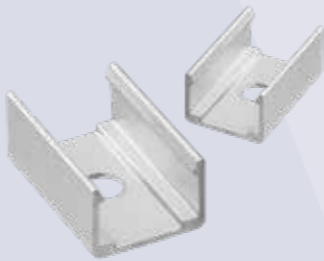
LED strip

LED strip clips (250L)
Aluminium
60 Pieces
Includes screws & plugs
9 x 11 x 17 mm (H x W x D)

Rodas (239R)
Aluminium - Black
LED 1,1 W (3x)
3.000 K
100 lm
100 x 20 mm (H x Ø)

The 15-meter LED strip can be
cut to size. It's perfect for use
alongside stairs, a border or in a
canopy, for example. It increases
safety and security in and around
your garden, and enhances the
atmosphere.

LED strip (175L)
Flexible Neoprene
LED 2,2 W (per meter)
3.000 K
90 lm (per meter)
15 x 10 x 15.000 mm (H x W x D)

LED strip connector (220L)
Plastic
27 x 27 x 60 mm (H x W x D)

• A Connector F is supplied with each luminaire

Smart lighting has never been **easier** or more **stylish!**

Deco Smart bulbs: combine style, convenience and atmosphere in one. Transform your garden at the touch of a button. With the intuitive app, you easily control color, brightness and lights to ensure your garden always has the perfect ambiance. They also work seamlessly with voice assistants such as Google Assistant and Alexa.

Deco 30 Smart (Zigbee) (254N)
Polyethylene - White
LED 5 W
RGB
280 lm
300 mm (Ø)

Deco 40 Smart (Zigbee) (255N)
Polyethylene - White
LED 5 W
RGB
280 lm
400 mm (Ø)

Deco 50 Smart (Zigbee) (256N)
Polyethylene - White
LED 5 W
RGB
280 lm
500 mm (Ø)

• A Connector F is supplied with each luminaire

The finishing touch

You can approach us not only fo rprofessional outdoor lighting, but of course also for all related materials. After all, good accessories are indispensable when it comes to installing 12-volt outdoor lighting. This includes transformers, cables and connectors. But a remote control is also a valuable addition to your lighting plan.

Accessoiries

Transformator 24 W (198A)
Plastic - Black
24 Watt
78 x 47 x 78 mm (H x W x D)
Connector M (138A) Required
EU Plug

Transformator Touch 100 W
Plastic - Black
100 Watt
185 x 123 x 77 mm (H x W x D)
Including Light sensor, Connector M
and timer function (10 settings)
EU Plug (225A)
BS Plug (228A)

Transformator Touch 150 W
Plastic - Black
150 Watt
185 x 123 x 77 mm (H x W x D)
Including Light sensor, Connector M
and timer function (10 settings)
EU Plug (226A)
BS Plug (229A)
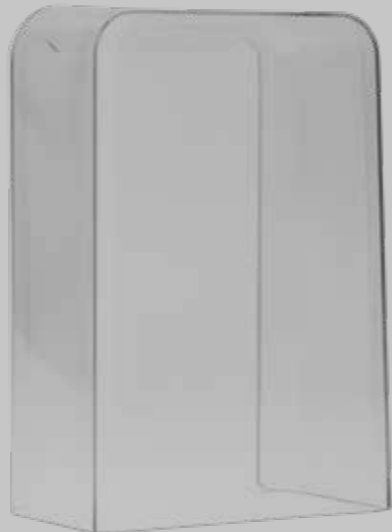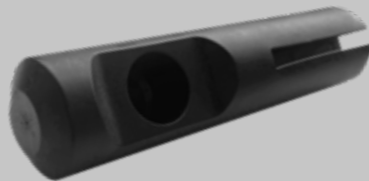
Transformer Touch Cover (231A)
Plastic
195 x 135 x 77 mm (H x W x D)

Connector tool (232A)
To further simplify attaching the
Connector F to the cable, use our
connector tool.

**Extension cable lightsensor
(162A)**
Plastic - Black
6 meter

Cable splitter (216A)
Plastic - Black
40 x 60 x 20 mm (H x W x D)
Create multiple branches in one go

Remote control + Receiver (166A)
Plastic - Black
75 x 70 x 38 mm (H x W x D)
Range 40 meters
With the remote control you can
remote control to switch the outdoor
off. Up to 9 lights can be connected to
one remote control.
Batteries included

Receiver (167A)
Plastic - Black
70 x 70 x 35 mm (H x W x D)
Range 40 meters

Cable 25m (025C14)
Plastic - Black
14AWG
25 meter
Including end caps

Cable 50m (050C14)
Plastic - Black
14AWG
50 meter
Including end caps

Cable 100m (100C14)
Plastic - Black
14AWG
100 meter
Including end caps

Cable 200m (200C14)
Plastic - Black
14AWG
200 meter
Including end caps

Connector M (138A)
Plastic - Black
Type M (Male)
40 x 27 x 60 mm (H x W x D)
Voor transformator (198A) of voor
het maken van een aftakking.

Connector F (137A)
Plastic - Black
Type F (Female)
45 x 23 x 60 mm (H x W x D)

Connector Cover (247A)
Plastic
IP68
5 Pieces
Including gel
120 x 47 x 55 mm (H x W x D)

78

79

Onyx 20 Sleeve (237A)
Alluminium - Black
35 x 31 mm (H x Ø)
Drillhole 25 mm
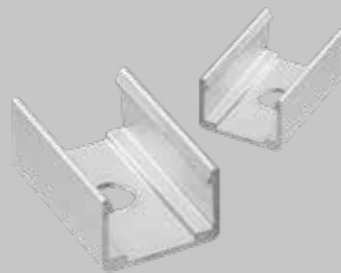
LED strip clips (250L)
Aluminium
60 Pieces
Includes screws & plugs
9 x 11 x 17 mm (H x W x D)

Tube (215A)
Aluminium - Anthracite
1.200 x 20 mm (H x Ø)

80

81

Extension cable 1m (146A)
Plastic - Black
SPT-2W
1 meter

Extension cable 3m (147A)
Plastic - Black
SPT-2W
3 meter

Extension cable 0,3m (1381011)
Plastic - Black
SPT-2W
0,3 meter

Anti-glare hood (189A)
Aluminium - Anthracite
55 x 65 x 65 mm (H x W x D)
For the Castor 3, 4, 8 en 9.

Ground spike (21363011)
Metal
310 x 185 x 185 mm (H x W x D)
Can be used for the Nodin,
Eros Lo and Eros Hi.

Motion Sensor Smart (Zigbee) (227A)
Plastic - Black
Detection range up to 10 meters
Detection angle ¹20 degrees
Includes 2 AAA Batteries
70 x 70 x 32 mm (H x W x D)

Camera Smart 12V (Wi-Fi) (218A)
Plastic - Black
71 x 66 x 188 mm (H x W x D)
IP65
Usage 7 watt

LED strip connector (220L)
Plastic
27 x 27 x 60 mm (H x W x D)

Gateway Smart (Wi-Fi - Zigbee) (219A)
Plastic - Black
Range 20 meters
IP20
USB Powered
64 x 64 x 15 mm (H x W x D)

Switch Smart (Wi-Fi) (238A)
Plastic - Black
Range 40 meters
IP44
75 x 70 x 30 mm (H x W x D)

Technical
information

Post lights
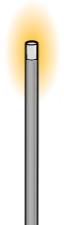
Erba

Article number 222P | **EAN code** 8719979283643 | **HS Code** 94052190 | **Warranty** 6 Years

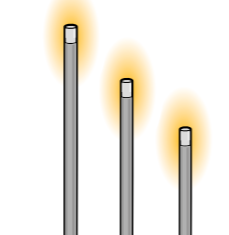| Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Connector F (3x)
Colour	Anthracite	Replaceable	No	Ground spike (3x)
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	20 mm	Wattage	1,1 W (3x)	
Height	904 + 734 + 564 mm	Lumen output	100 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	81	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	
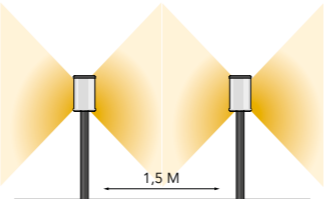
Erba Mid

Article number 223P | **EAN code** 8719979283650 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Connector F
Colour	Anthracite	Replaceable	No	Ground spike
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	20 mm	Wattage	1,1 W	
Height	734 mm	Lumen output	100 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	81	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	
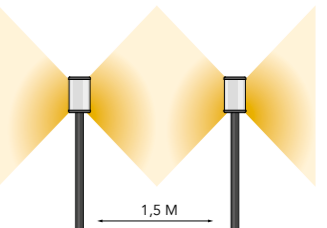
Eros Lo

Article number 217P | **EAN code** 8719979282813 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium/Glas	Type	Filament LED	Mounting material
Colour	Black	Replaceable	Yes	Connector F
Cable	1,2 m H05RN-F	Voltage	12 V AC/DC	Ground spike
		Start-up-voltage	9 V	Hex key
Diameter	115 mm	Wattage	3,5 W	
Height	550 mm	Lumen output	280 lm	
Drillhole	-	Light colour (CCT)	2.200 K	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	80	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	G	
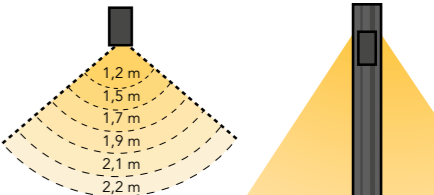
Eros Hi

Article number 214P | **EAN code** 8719979282691 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium/Glas	Type	Filament LED	Mounting material
Colour	Black	Replaceable	Yes	Connector F
Cable	1,2 m H05RN-F	Voltage	12 V AC/DC	Ground spike
		Start-up-voltage	9 V	Hex key
Diameter	115 mm	Wattage	3,5 W	
Height	870 mm	Lumen output	280 lm	
Drillhole	-	Light colour (CCT)	2.200 K	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	80	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	G	
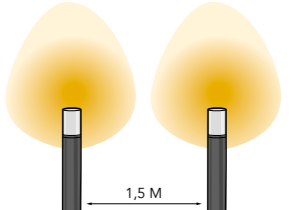
Alon

Article number 221P | **EAN code** 8719979283469 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Metal	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike
Depth	160 mm	Start-up-voltage	9 V	Hex key
Width	64 mm	Wattage	3,3 W	Yes
Height	700 mm	Lumen output	30 - 310 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	70°	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	80	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	G	

Oberon Lo

Article number 190P | **EAN code** 8719979280796 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike
		Start-up-voltage	9 V	Foam ring
Diameter	64 mm	Wattage	4 W	Hex key
Height	420 mm	Lumen output	40 - 400 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	82	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	F	
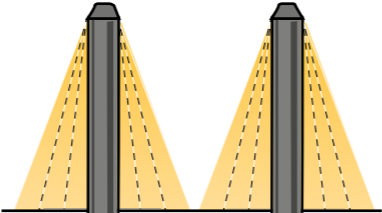
Oberon Hi

Article number 191P | **EAN code** 8719979280802 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike
		Start-up-voltage	9 V	Foam ring
Diameter	64 mm	Wattage	4 W	Hex key
Height	665 mm	Lumen output	40 - 400 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	82	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	F	

1,5 M
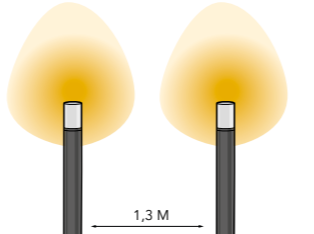
Oberon DL

Article number 192P | **EAN code** 8719979282080 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	COB LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike
Depth	110 mm	Start-up-voltage	9 V	Hex key
Diameter	93 mm	Wattage	9 W	3x interchangeable plates
Height	600 mm	Lumen output	75 - 750 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	Variabel	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	91	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	F	

2,10 m
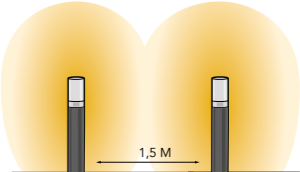
Oberon Smart

Article number 199N | **EAN code** 8719979281502 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED (MR16)	Mounting material
Colour	Anthracite	Replaceable	Yes	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike
		Start-up-voltage	9 V	Hex key
Diameter	64 mm	Wattage	5 W	
Height	665 mm	Lumen output	300 lm	
Drillhole	-	Light colour (CCT)	2.700 - 6.500 K + RGB	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	80	
Smart	Yes, Zigbee	Switch on/off	10.000	
Required	Gateway	Dimmable	Yes (app)	
		Energy class	G	

1,3 M
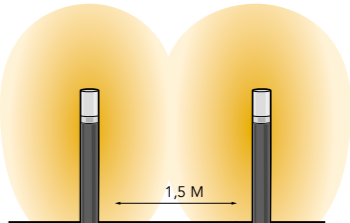
Barite 40

Article number 112P | **EAN code** 5907800856873 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED (MR16)	Mounting material
Colour	Black	Replaceable	Yes	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Foam ring
		Start-up-voltage	9 V	Ground spike
Diameter	65 mm	Wattage	2,6 W	Hex key
Height	410 mm	Lumen output	230 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	Rondom	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	

1,5 M

Barite 60

Article number 111P | **EAN code** 5907800856866 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED (MR16)	Mounting material
Colour	Black	Replaceable	Yes	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Foam ring
		Start-up-voltage	9 V	Ground spike
Diameter	65 mm	Wattage	2,6 W	Hex key
Height	575 mm	Lumen output	230 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	Rondom	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	

1,5 M
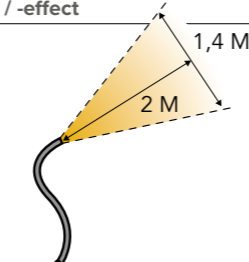
Nodin

Article number 128P | **EAN code** 5907800857030 | **HS Code** 94052190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Stainless steel 316	Type	SMD LED (MR16)	Mounting material
Colour	Silver gray	Replaceable	Yes	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Hex key
		Start-up-voltage	9 V	Ground spike (Sold separately. See page 81)
Diameter	55 mm	Wattage	2,6 W	
Height	1050 mm	Lumen output	230 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	

1,5 M
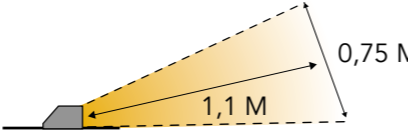
Xible

Article number 224S | **EAN code** 8719979283667 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents	
Material	Aluminium	Type	SMD LED (MR8)	Connector F	
Colour	Anthracite	Replaceable	No	Ground spike	
Cable	1,15 m SPT-1W	Voltage	12 V AC/DC	Wall mountable	
Depth		Start-up-voltage	9 V		
Diameter	36 mm	Wattage	2 W		
Height	695 mm	Lumen output	160 lm		
Drillhole	-	Light colour (CCT)	2.700 K	**Light beam / -effect**	
IP Class	IP44	Light angle	30°		
Protection class	III	Average lifetime	25.000 Hours		
Base- or wall mountable		CRI	84		
		Switch on/off	10.000		
		Dimmable	No		
		Energy class	F		

1,4 M
2 M
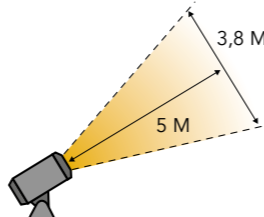
Tiga DL

Article number 209S | **EAN code** 8719979282110 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents	
Material	Plastic/Aluminium	Type	SMD LED	Mounting material	
Colour	Black	Replaceable	No	Connector F	
Cable	1,4 m SPT-1W	Voltage	12 V AC/DC	Ground spike	
Depth	63 mm	Start-up-voltage	9 V	Hex key	
Width	68 mm	Wattage	4,2 W	Wall mountable	
Height	88 mm	Lumen output	9 - 90 lm		
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**	
IP Class	IP67	Light angle	90°		
Protection class	III	Average lifetime	25.000 Hours		
Base- or wall mountable		CRI	83		
		Switch on/off	10.000		
		Dimmable	Yes		
		Energy class	G		

0,75 M
1,1 M
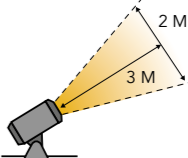
Castor Smart

Article number 200N | **EAN code** 8719979281526 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents	
Material	Aluminium	Type	SMD LED (MR16)	Mounting material	
Colour	Anthracite	Replaceable	Yes	Connector F	
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike	
Depth	120 mm	Start-up-voltage	9 V	Hex key	
Width	60 mm	Wattage	5 W		
Height	95 mm	Lumen output	300 lm		
Drillhole	-	Light colour (CCT)	2.700 - 6.500 K + RGB	**Light beam / -effect**	
IP Class	IP44	Light angle	40°		
Protection class	III	Average lifetime	25.000 Hours		
Base mounted		CRI	80		
Smart	Yes, Zigbee	Switch on/off	10.000		
Required	Gateway	Dimmable	Yes (app)		
		Energy class	G		

3,8 M
5 M
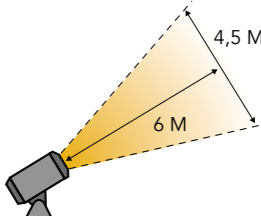
Castor 3

Article number 177S | **EAN code** 5907800859881 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents	
Material	Aluminium	Type	SMD LED	Mounting material	
Colour	Anthracite	Replaceable	No	Connector F	
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike	
Depth	100 mm	Start-up-voltage	9 V	Hex key	
Width	60 mm	Wattage	2,5 W		
Height	95 mm	Lumen output	200 lm		
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**	
IP Class	IP67	Light angle	40°		
Protection class	III	Average lifetime	25.000 Hours		
Base mounted		CRI	84		
		Switch on/off	10.000		
		Dimmable	No		
		Energy class	F		

2 M
3 M
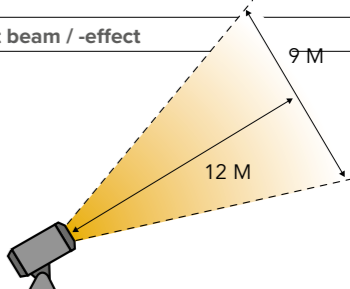
Castor 4

Article number 178S | **EAN code** 5907800859898 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents	
Material	Aluminium	Type	SMD LED	Mounting material	
Colour	Anthracite	Replaceable	No	Connector F	
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike	
Depth	100 mm	Start-up-voltage	9 V	Hex key	
Width	60 mm	Wattage	3,5 W		
Height	95 mm	Lumen output	40 - 400 lm		
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**	
IP Class	IP67	Light angle	40°		
Protection class	III	Average lifetime	25.000 Hours		
Base mounted		CRI	81		
		Switch on/off	10.000		
		Dimmable	Yes		
		Energy class	E		

4,5 M
6 M
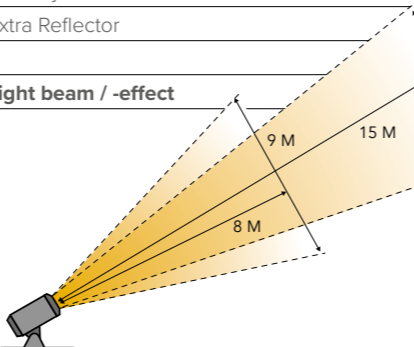
Castor 8

Article number 179S | **EAN code** 5907800859904 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents	
Material	Aluminium	Type	SMD LED	Mounting material	
Colour	Anthracite	Replaceable	No	Connector F	
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike	
Depth	115 mm	Start-up-voltage	9 V	Hex key	
Width	60 mm	Wattage	8 W		
Height	95 mm	Lumen output	80 - 800 lm		
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**	
IP Class	IP67	Light angle	40°		
Protection class	III	Average lifetime	25.000 Hours		
Base mounted		CRI	82		
		Switch on/off	10.000		
		Dimmable	Yes		
		Energy class	F		

9 M
12 M
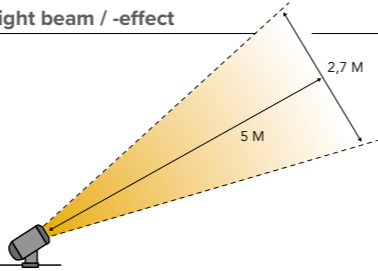
Castor 9

Article number 180S | **EAN code** 5907800859911 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	COB LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike
Depth	120 mm	Start-up-voltage	9 V	Hex key
Width	60 mm	Wattage	9 W	Extra Reflector
Height	95 mm	Lumen output	65 - 750 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	30° / 60°	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	91	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	F	
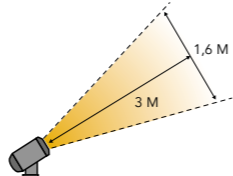
Juno Tube

Article number 213S | **EAN code** 8719979282677 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	3 m	Voltage	12 V AC/DC	Hex key
Depth	68 mm	Start-up-voltage	9 V	
Width	55 mm	Wattage	4 W	
Height	85 mm	Lumen output	372 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP65	Light angle	30°	
Protection class	III	Average lifetime	25.000 Hours	
Required	Tube	CRI	83	
Base- or wall mountable		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	
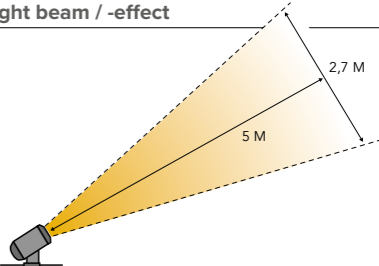
Juno 2

Article number 193S | **EAN code** 8719979280826 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	2	Voltage	12 V AC/DC	Ground spike
Depth	68 mm	Start-up-voltage	9 V	Hex key
Width	55 mm	Wattage	1,5 W	Base
Height	85 mm	Lumen output	192 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP67	Light angle	30°	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	D	
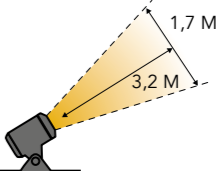
Juno 4

Article number 194S | **EAN code** 8719979280833 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	2 m H05RN-F	Voltage	12 V AC/DC	Ground spike
Depth	68 mm	Start-up-voltage	9 V	Hex key
Width	55 mm	Wattage	4 W	Base
Height	85 mm	Lumen output	372 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP67	Light angle	30°	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	
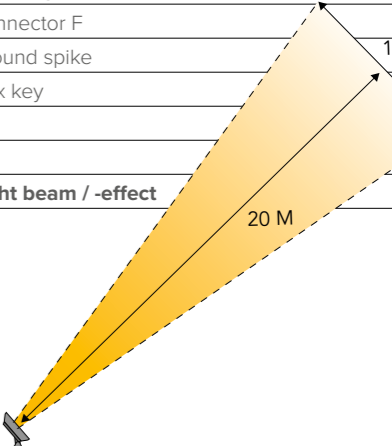
Nilus

Article number 210S | **EAN code** 8719979282127 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	ABS	Type	SMD LED	Connector F
Colour	Black	Replaceable	No	Mounting material
Cable	5 m H05RN-F	Voltage	12 V AC/DC	
Depth	110 mm	Start-up-voltage	9 V	
Width	95 mm	Wattage	3,4 W	
Height	135 mm	Lumen output	362 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP68	Light angle	30°	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	82	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	

Avior

Article number 181S | **EAN code** 5907800859928 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	COB LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Ground spike
Depth	68 mm	Start-up-voltage	9 V	Hex key
Width	180 mm	Wattage	16 W	
Height	125 mm	Lumen output	150 - 1500 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	100°	
Protection class	III	Average lifetime	25.000 Hours	
Base mounted		CRI	80	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	F	

Spotlights

The object you want to illuminate is the key determiner when selecting the right spotlight. So take a good look at how much light output is needed to illuminate your entire tree or bush.

7 M
6 M
5 M
4 M
3 M
2 M
1 M

92

Juno 2   Juno 4   Xible   Tiga DL   1.2 M

7 M
6 M
5 M
4 M
3 M
2 M
1 M

Castor 3   Castor 4   Castor 8

20 M

15 M

10 M

5 M

3.8 M

93

Castor 9   Castor SMART   Avior
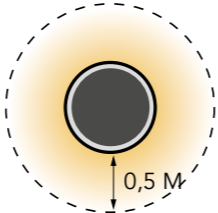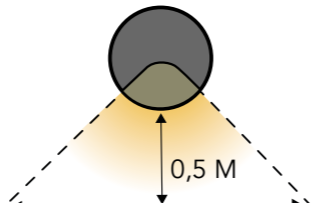
Wall lights
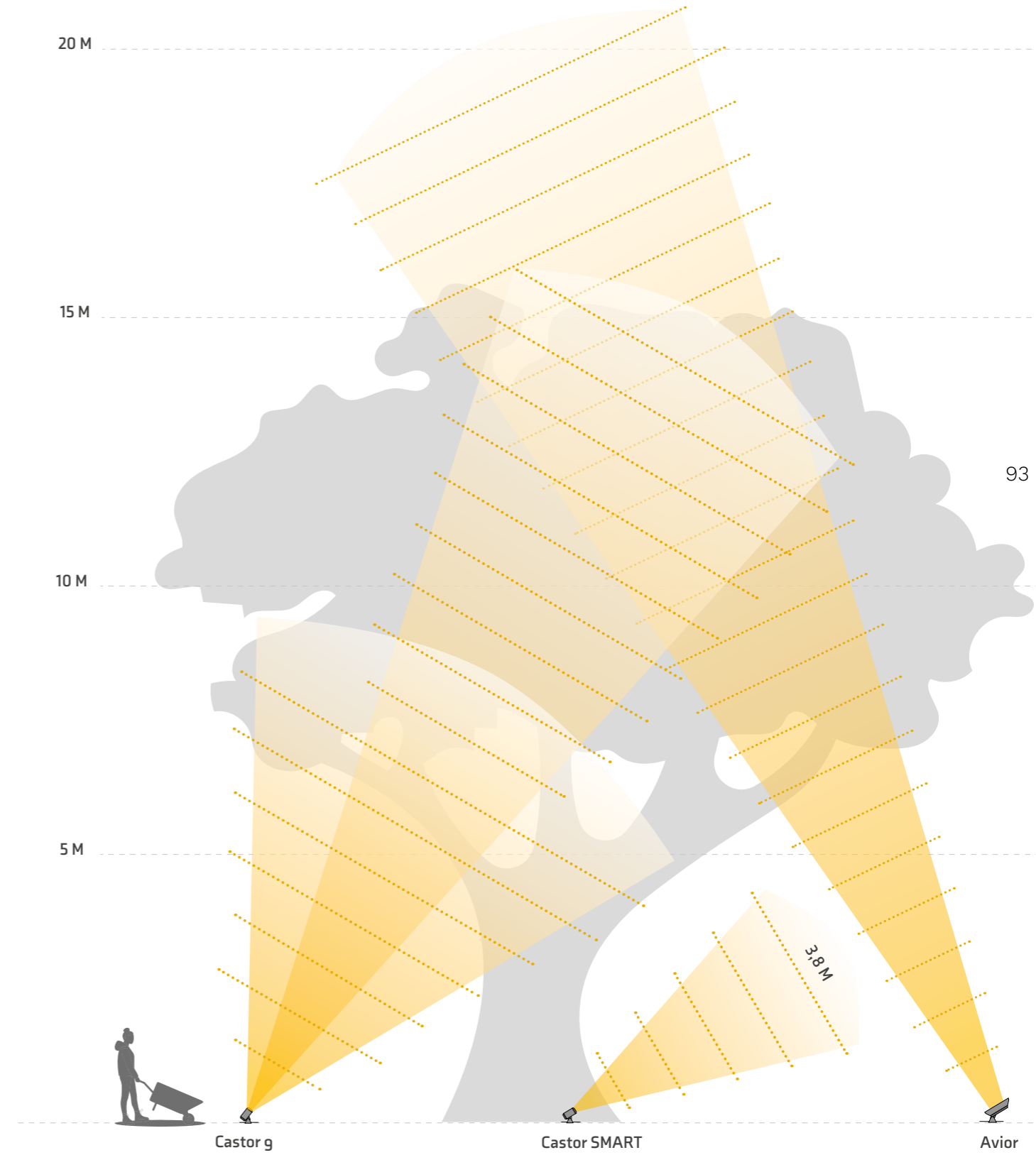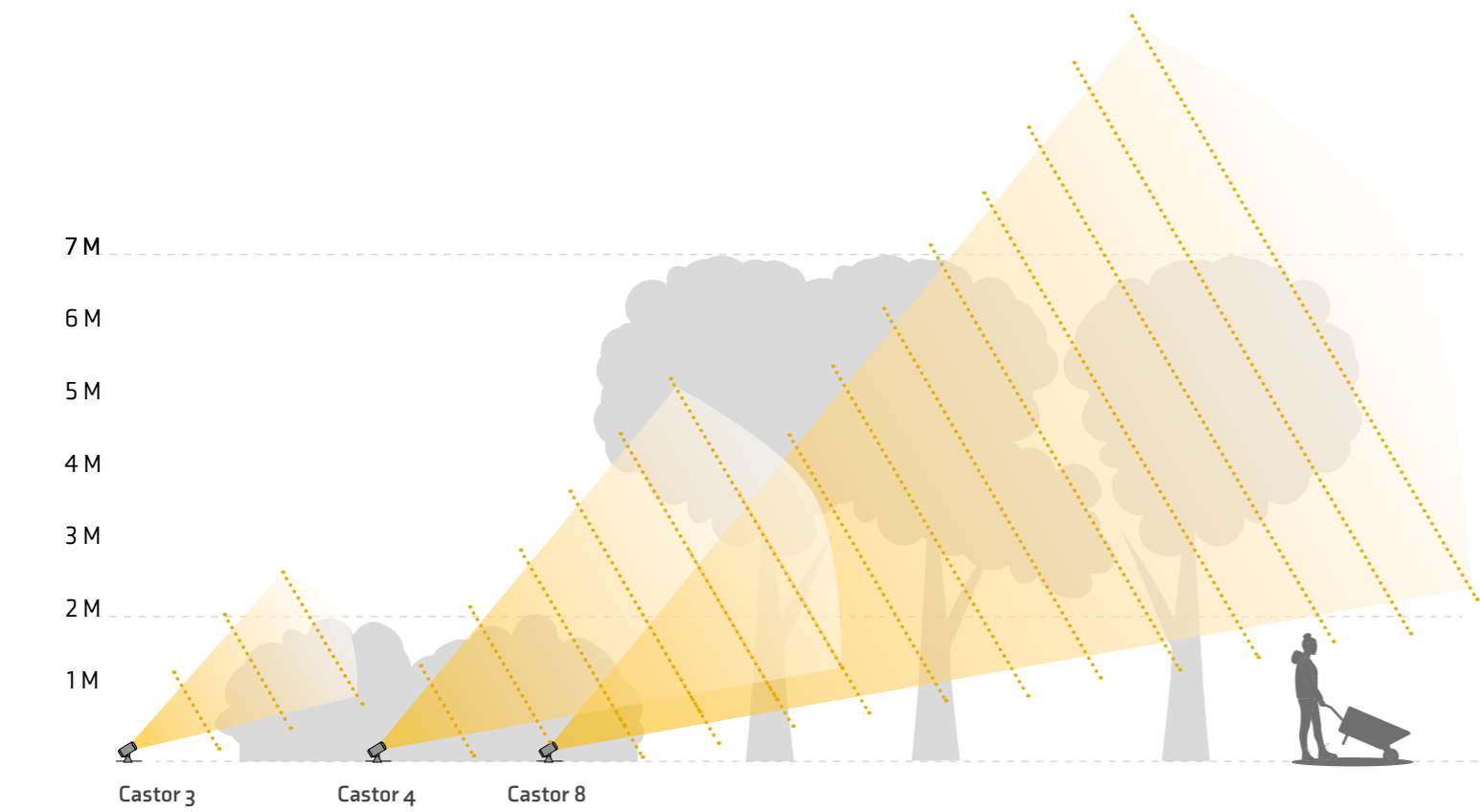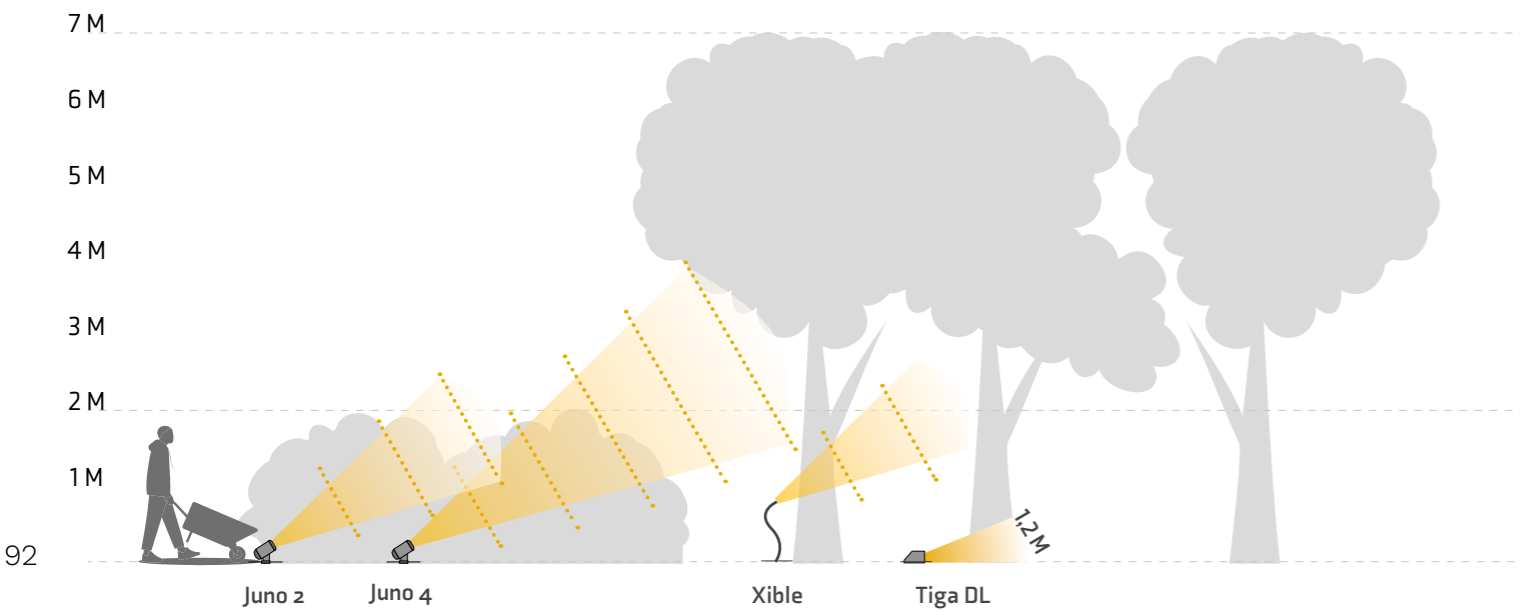
Polaris

Article number 185W | **EAN code** 5907800859966 | **HS Code** 94051190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	3 m SPT-1W	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Depth	35 mm	Wattage	6 W	
Diameter	145 mm	Lumen output	500 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	360°	
Protection class	III	Average lifetime	25.000 Hours	
Wall mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	G	

0,5 M
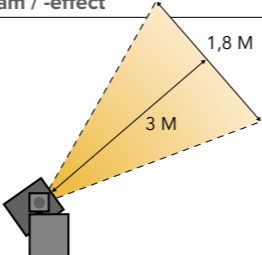
Kuma

Article number 184W | **EAN code** 5907800859959 | **HS Code** 94051190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	3 m SPT-1W	Voltage	12 V AC/DC	Hex key
		Start-up-voltage	9 V	
Depth	35 mm	Wattage	6 W	
Diameter	145 mm	Lumen output	294 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	90°	
Protection class	III	Average lifetime	25.000 Hours	
Wall mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	G	

0,5 M
1 M
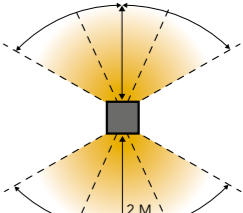
Quartz

Article number 196W | **EAN code** 8719979281083 | **HS Code** 94051190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED (MR11)	Mounting material
Colour	Black	Replaceable	Yes	Connector F
Cable	3 m SPT-1W	Voltage	12 V AC/DC	Ground spike
Depth	88 mm	Start-up-voltage	9 V	
Width	50 mm	Wattage	1,8 W	
Height	105 mm	Lumen output	150 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	30°	
Protection class	III	Average lifetime	25.000 Hours	
Wall mounted		CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	

1,8 M
3 M

94
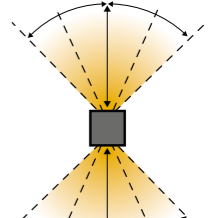
Ixion Small 230V

Article number 230W | **EAN code** 8719979283810 | **HS Code** 94051190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	GW-A310-6	Mounting material
Colour	Anthracite	Replaceable	No	Hex key
Cable	3 m SPT-1W	Voltage	230 V	Distance holder
Depth	100 mm	Start-up-voltage	-	
Width	100 mm	Wattage	3 W (x2)	
Height	100 mm	Lumen output	500 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP65	Light angle	120°	
Protection class	III	Average lifetime	25.000 Hours	
Wall mounted		CRI	80	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	E	

2 M
0°-60° 0°-60°
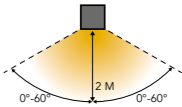
Ixion

Article number 182W | **EAN code** 5907800859935 | **HS Code** 94051190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	COB LED	Mounting material
Colour	Anthracite	Replaceable	No	Connector F
Cable	3 m SPT-1W	Voltage	12 V AC/DC	Hex key
Depth	110 mm	Start-up-voltage	9 V	
Width	110 mm	Wattage	4,5 W (x2)	
Height	110 mm	Lumen output	45 - 530 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP44	Light angle	0 - 90°	
Protection class	III	Average lifetime	25.000 Hours	
Wall mounted		CRI	84	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	G	

2 M
0°-45° 0°-45°

Tiga Wall

Article number 249W | **EAN code** 8719979284435 | **HS Code** 94051190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	COB LED	Mounting material
Colour	Black	Replaceable	No	Connector F
Cable	1,5 m SPT-1W	Voltage	12 V AC/DC	
Depth	42 mm	Start-up-voltage	9 V	
Width	75 mm	Wattage	4	
Height	75 mm	Lumen output	70 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP67	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Wall mounted		CRI	80	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	G	

2 M
0°-60° 0°-60°

95

Tiga Corner
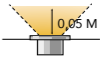
Article number 208S | **EAN code** 8719979282103 | **HS Code** 94051190 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Mounting material
Colour	Black	Replaceable	No	Connector F
Cable	3 m SPT-1W	Voltage	12 V AC/DC	
Depth	105 mm	Start-up-voltage	9 V	
Width	93 mm	Wattage	3,5	
Height	46 mm	Lumen output	100 lm	
Drillhole	-	Light colour (CCT)	2.700 K	
IP Class	IP44	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Wall mounted		CRI	80	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	G	

Decklights
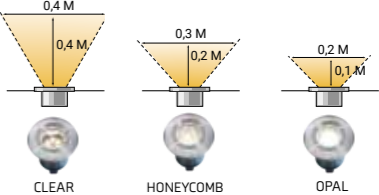
Onyx 20

Article number 212D | **EAN code** 8719979282233 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Plastic	Type	SMD LED	Connector F
Colour	Black	Replaceable	No	
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	20 mm	Wattage	0,3 W	
Height	33 mm	Lumen output	1 lm	
Drillhole	20 mm	Light colour (CCT)	2.700 K	**Light beam / -effect**
IP Class	IP67	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	Yes (Car)	CRI	80	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	-	
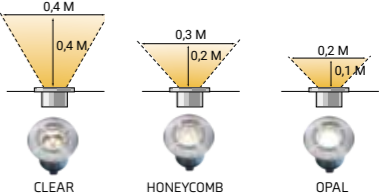
Onyx 30 RS

Article number 240D | **EAN code** 8719979284350 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Stainless steel 316	Type	SMD LED	Additional lenses
Colour	Silver gray	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	45 mm	Wattage	0,5 W	
Height	59 mm	Lumen output	4 lm	
Drillhole	30 mm	Light colour (CCT)	2.700 K	**Light beam / -effect**
IP Class	IP67	Light angle	65°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	Yes (Car)	CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	-	
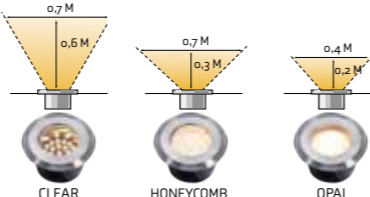
Onyx 30 RA

Article number 241D | **EAN code** 8719979284367 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Additional lenses
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	45 mm	Wattage	0,5 W	
Height	59 mm	Lumen output	4 lm	
Drillhole	30 mm	Light colour (CCT)	2.700 K	**Light beam / -effect**
IP Class	IP67	Light angle	65°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	Yes (Car)	CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	-	
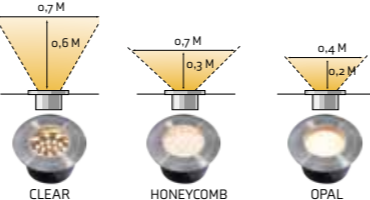
Onyx 60 RS
Article number 242D | **EAN code** 8719979284374 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Stainless steel 316	Type	SMD LED	Additional lenses
Colour	Silver gray	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	75 mm	Wattage	1 W	
Height	59 mm	Lumen output	23 lm	
Drillhole	60 mm	Light colour (CCT)	2.700 K	**Light beam / -effect**
IP Class	IP67	Light angle	65°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	Yes (Car)	CRI	84	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	-	
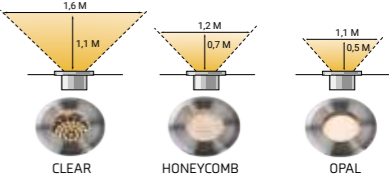
Onyx 60 RA
Article number 243D | **EAN code** 8719979284381 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Additional lenses
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	75 mm	Wattage	1 W	
Height	59 mm	Lumen output	23 lm	
Drillhole	60 mm	Light colour (CCT)	2.700 K	**Light beam / -effect**
IP Class	IP67	Light angle	65°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	Yes (Car)	CRI	84	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	-	
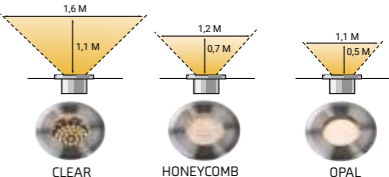
Onyx 90 R1
Article number 156D | **EAN code** 5907800858051 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Stainless steel 316	Type	SMD LED	Additional lenses
Colour	Silver gray	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	105 mm	Wattage	2 W	
Height	42 mm	Lumen output	76 lm	
Drillhole	90 mm	Light colour (CCT)	2.700 K	**Light beam / -effect**
IP Class	IP67	Light angle	80°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	Yes (Car)	CRI	84	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	G	

Onyx 90 RA
Article number 245D | **EAN code** 8719979284404 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Additional lenses
Colour	Anthracite	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	105 mm	Wattage	2 W	
Height	59 mm	Lumen output	76 lm	
Drillhole	90 mm	Light colour (CCT)	2.700 K	**Light beam / -effect**
IP Class	IP67	Light angle	80°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	Yes (Car)	CRI	84	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	G	

Atik R1

Article number 186U | **EAN code** 5907800859973 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	COB LED	Groundtube
Colour	Black	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	Hex key
		Start-up-voltage	9 V	Extra Reflector
Diameter	120 mm	Wattage	9 W	
Height	135 mm	Lumen output	65 - 750 lm	
Drillhole	100 mm	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP67	Light angle	30° / 60°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	No	CRI	91	
		Switch on/off	10.000	
		Dimmable	Yes	
		Energy class	F	
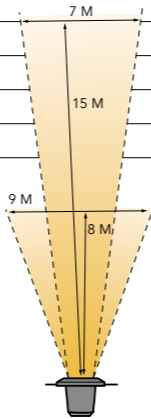
Nomia

Article number 207U | **EAN code** 8719979282097 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Groundtube
Colour	Black	Replaceable	No	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	90 mm	Wattage	3 W	
Height	125 mm	Lumen output	313 lm	
Drillhole	70 mm	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP67	Light angle	40°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	No	CRI	82	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	
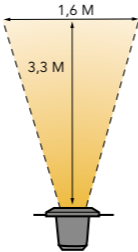
Atik Smart

Article number 246N | **EAN code** 8719979284411 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED (MR16)	Groundtube
Colour	Black	Replaceable	Yes	Connector F
Cable	1 m H05RN-F	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	120 mm	Wattage	4,9 W	
Height	135 mm	Lumen output	207 lm	
Drillhole	100 mm	Light colour (CCT)	6.500K	**Light beam / -effect**
IP Class	IP67	Light angle	30° / 60°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	No	CRI	80	
		Switch on/off	10.000	
Smart	Yes, Zigbee	Dimmable	Yes	
Required	Gateway	Energy class	F	
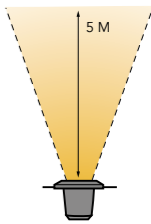
Agate

Article number 102U | **EAN code** 5907800856774 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Stainless steel 316	Type	SMD LED (MR16)	Groundtube
Colour	Silver gray	Replaceable	Yes	Connector F
Cable	0,5 m H05RN-F	Voltage	12 V AC/DC	Hex key
		Start-up-voltage	9 V	
Diameter	115 mm	Wattage	2,6 W	
Height	113 mm	Lumen output	230 lm	
Drillhole	90 mm	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP67	Light angle	36°	
Protection class	III	Average lifetime	25.000 Hours	
Crossable	No	CRI	83	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	

Uplights

18 M
17 M
16 M
15 M
14 M
13 M
12 M
11 M
10 M
9 M
8 M
7 M
6 M
5 M
4 M
3 M
2 M
1 M

Agate   Atik R1   Nomia   Atik SMART
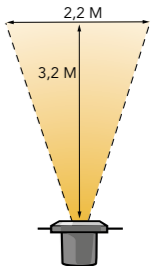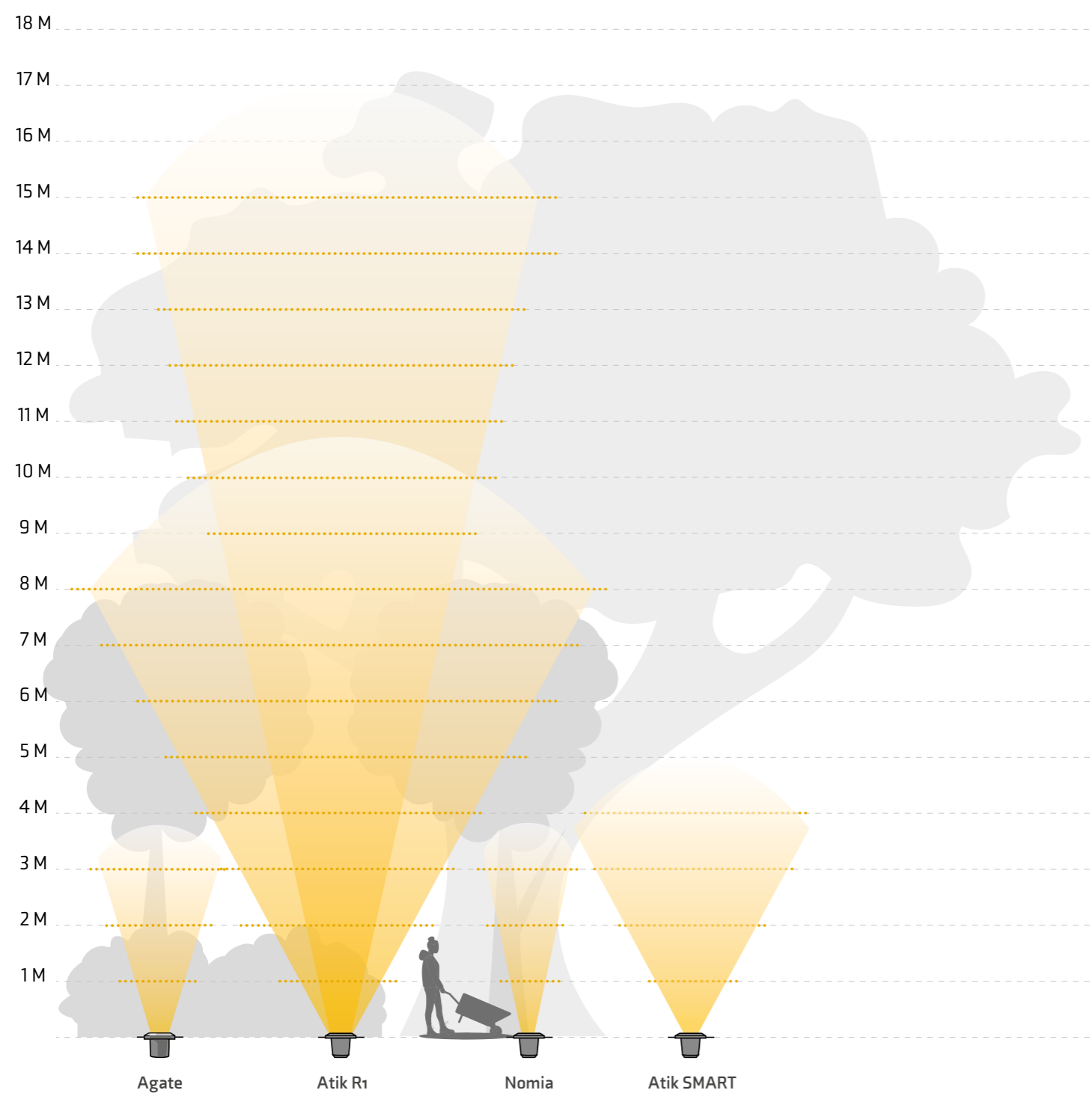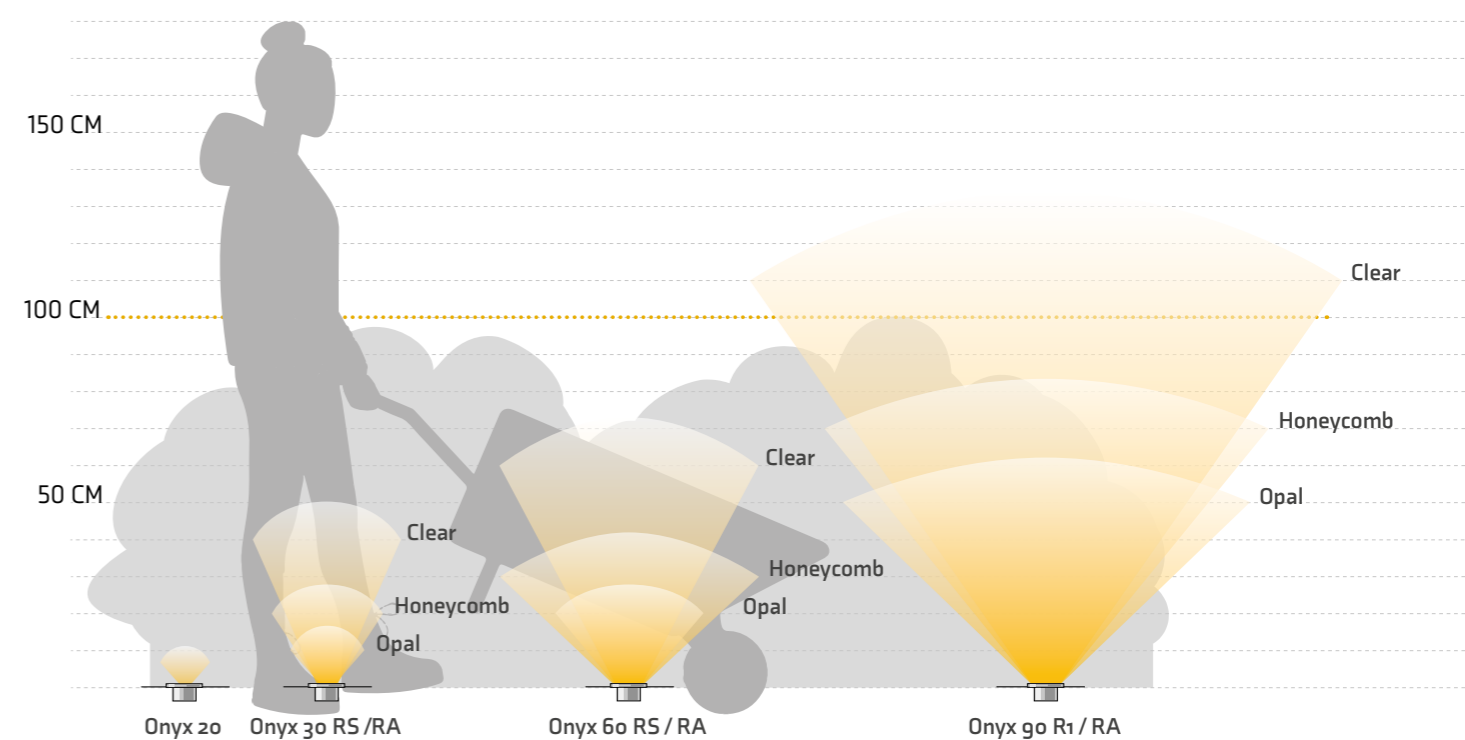
Decklights

Decklights are most commonly used as orientation lights. In the image below you can easily compare the different decklights and select the right one.

Opal   Honeycomb   Clear

150 CM
100 CM
50 CM

Clear
Honeycomb
Opal

Clear
Honeycomb
Opal

Clear
Honeycomb
Opal

Onyx 20   Onyx 30 RS /RA   Onyx 60 RS / RA   Onyx 90 R1 / RA

Decorative lights

Deco 30 Smart

Article number 254N | **EAN code** 8719979284572 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Polyethylene	Type	SMD LED (MR16)	Mounting material
Colour	White	Replaceable	Yes	Connector F
Cable	1,5 m H05RN-F	Voltage	12 V AC/DC	Base
Lengte	300 mm	Start-up-voltage	9 V	Stick
Width	300 mm	Wattage	4 W	
Height	300 mm	Lumen output	280 lm	
		Light colour (CCT)	RGB	**Light beam / -effect**
IP Class	IP44	Light angle	Rondom	
Protection class	III	Average lifetime	25.000 Hours	
		CRI	-	
Smart	Yes, Zigbee	Switch on/off	10.000	
Required	Required	Dimmable	Yes (app)	
		Energy class	-	
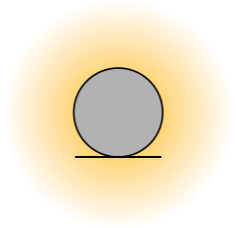
Deco 40 Smart

Article number 255N | **EAN code** 8719979284589 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Polyethylene	Type	SMD LED (MR16)	Mounting material
Colour	White	Replaceable	Yes	Connector F
Cable	1,5 m H05RN-F	Voltage	12 V AC/DC	Base
Lengte	400 mm	Start-up-voltage	9 V	Stick
Width	400 mm	Wattage	4 W	
Height	400 mm	Lumen output	280 lm	
		Light colour (CCT)	RGB	**Light beam / -effect**
IP Class	IP44	Light angle	Rondom	
Protection class	III	Average lifetime	25.000 Hours	
		CRI	-	
Smart	Yes, Zigbee	Switch on/off	10.000	
Required	Gateway	Dimmable	Yes (app)	
		Energy class	-	

Deco 50 Smart

Article number 256N | **EAN code** 8719979284596 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Polyethylene	Type	SMD LED (MR16)	Mounting material
Colour	White	Replaceable	Yes	Connector F
Cable	1,5 m H05RN-F	Voltage	12 V AC/DC	Base
Lengte	500 mm	Start-up-voltage	9 V	Stick
Width	500 mm	Wattage	4 W	
Height	500 mm	Lumen output	280 lm	
		Light colour (CCT)	RGB	**Light beam / -effect**
IP Class	IP44	Light angle	Rondom	
Protection class	III	Average lifetime	25.000 Hours	
		CRI	-	
Smart	Yes, Zigbee	Switch on/off	10.000	
Required	Gateway	Dimmable	Yes (app)	
		Energy class	-	

LED strip

Article number 175L | **EAN code** 5907800859850 | **HS Code** 94051940 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Plastic	Type	SMD LED	Excl. LED strip connector [220L]
Colour	Wit	Replaceable	No	
Cable	-	Voltage	12 V AC/DC	
Lengte	15 m	Start-up-voltage	9 V	
Width	10 mm	Wattage	2,2 Watt per meter	
Height	15 mm	Lumen output	90 lm / m	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP67	Light angle	180°	
Protection class	III	Average lifetime	25.000 Hours	
Required	LED strip connector	CRI	81	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	G	
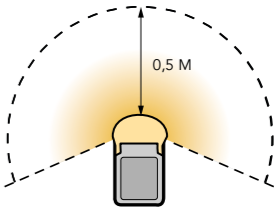
Rodas

Article number 239R | **EAN code** 8719979284169 | **HS Code** 94051990 | **Warranty** 6 Years

Product		Lightsource		Supplied accessoiries / contents
Material	Aluminium	Type	SMD LED	Connector F
Colour	Black	Replaceable	No	
Cable	3 m	Voltage	12 V AC/DC	
		Start-up-voltage	9 V	
Diameter	20 mm	Wattage	1,1 W (3x)	
Height	100 mm	Lumen output	100 lm	
Drillhole	-	Light colour (CCT)	3.000 K	**Light beam / -effect**
IP Class	IP65	Light angle	-	
Protection class	III	Average lifetime	25.000 Hours	
		CRI	80	
		Switch on/off	10.000	
		Dimmable	No	
		Energy class	F	
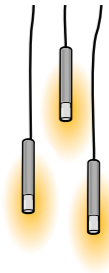
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