THORN

Outdoor Lighting

Lighting people

Thorn Lighting part of the Zumtobel Group, is a globally trusted supplier of both outdoor and indoor lighting solutions.

Our 'smart' and sustainable lighting solutions create comfortable, fulfilling environments for people to live and work in more than 100 countries around the world.

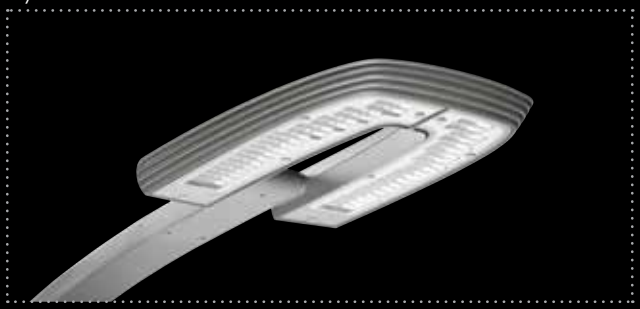
From roads to cityscapes, sports facilities to buildings and their surrounds, we have built a strong reputation for reliability, functionality and technically advanced design.

Our mission is to provide products and services which make it easier for customers to specify, install and maintain good quality, energy efficient lighting.

R2L2 10

Krystal 58

Oxane 52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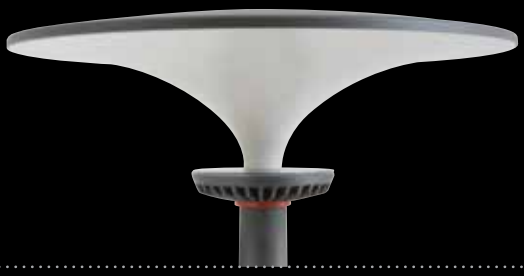

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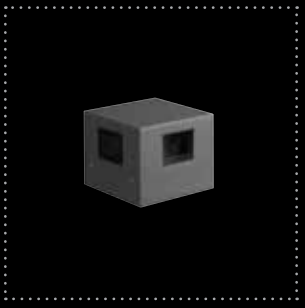

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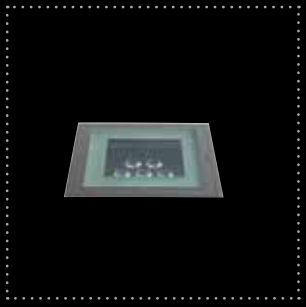
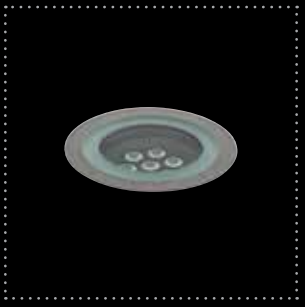


E/Fact Slim 130



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Promenade 150

Adelie Bollard 152

Suncyl

8m
6m
4m
2m

Stand-alone renewable energy solutions for LED lighting

If you are looking for stand-alone or renewable energy lighting solutions, our hybrid solar and wind turbine Suncyl poles provide the necessary energy with no connection to the electricity grid.

Unlike conventional solutions with unsightly inclined solar panels, Suncyl poles are covered 360° with cells. Combined with Thorn LED luminaires, they offer highly attractive and effective solutions that blend smoothly into the landscape.

In addition, Suncyl poles can be centrally controlled with a GSM module. You can therefore monitor the dimming level and duration in order to maximise energy savings.

Suncyl is the most attractive solar pole solution on the market, allowing effortless integration with the environment

A maintenance-free wind turbine pole provides even more efficiency, particularly in winter.

Proven technology with more than 300 poles installed across three continents (Europe, Asia, Middle East) since 2009

Choice of three solutions:

- Solar
- Wind turbine
- Solar and wind turbine (hybrid)

Customisation is possible up to a height of 12 metres

Suncyl poles are compatible with all of Thorn's key LED luminaires

Solar pole

Aluminium pole with flange

Covered 360° with panels fitted with poly-cristalline cells to convert daylight into electricity, stored in concealed batteries

The same technology as conventional solar panels

Cells wrapped in a high strength (IK08) polycarbonate cover, which is self-cleaning when raining

Treated to aid cleaning in case of vandalism

100% recyclable

Vertical wind turbine

Minimum wind speed: 3.5 m/s

Solves the problem of electricity generation during the winter

No aerodynamic noise

Only compatible with laterally mounted LED lanterns

Urban lighting

Quai des Célestins, Paris, France

R2L2

EN 60598 EN40 IK08 IP66

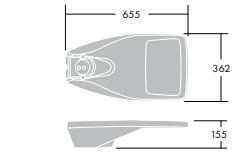
www.thornlighting.com

Ultra modern functional lanterns offering high performance, efficiency and lighting control for highways up to Class 1

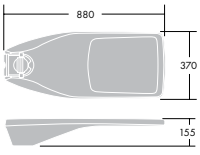
- Optical compartment: 12 to 180 LEDs (17 to 415W)
- Colour temperature: 4000K
- Luminaire efficiency: 95 lm/W max, 35000 lm max
- Thorn R-PEC optical system offering up to eleven light distribution options depending on project (motorways, intersections, major and secondary roads, city streets, IVS for pedestrian crossings)

Materials and finish

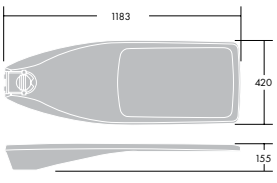
Body, canopies and spigot: die-cast aluminium, powder coated light grey finish (close to RAL 9006). Other RAL on request
Glass: 4mm thick toughened flat extra white tempered glass
Retaining screws: stainless steel
Screws: Ecolubric® treated



Size S



Size M



Size L

Clan C

EN 60598 EN 13201 IK08 T_a25 IP66

www.thornlighting.com/CLNC

Clan C Avenue du Général de Gaulle, Saint-Grégoire (35), France

Clan O

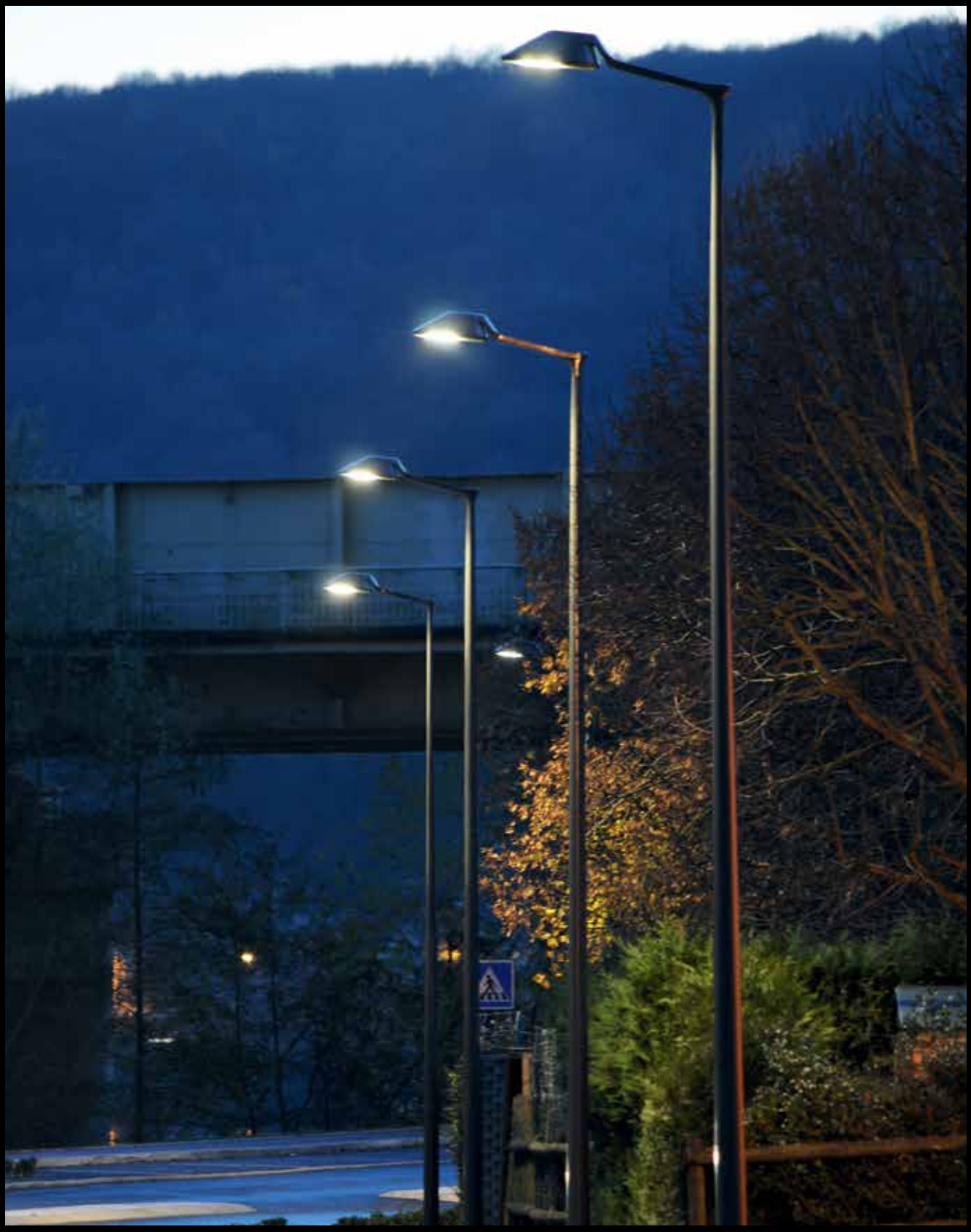
CE EN 60598 EN 13201 IK08 T_a25 IP66

www.thornlighting.com/CLNO

Clan O Saint-René (22), France

Clan

www.thornlighting.com/CLNC | www.thornlighting.com/CLNO



▲ **Clan C** Orival (27), France

▲ **Clan O** Saint-René (22), France

Clan

www.thornlighting.com/CLNC | www.thornlighting.com/CLNO

Venise Pole

Complete stylish lighting packages

- 26 possible combinations (brackets/luminaires)
- Street, asymmetric or IVS (for pedestrian crossing), optics provide visual coherence for many applications
- Comprehensive urban lighting solution coordinated with Plurio, Alumet, Mica and E/Fact luminaires, ideal for street lighting projects
- State-of-the-art LED versions with asymmetric street optic

Materials and finish

Lanterns

Body: die-cast aluminium (LM6), powder coated sandy silver grey finish (close to RAL 9006).

Enclose: toughened flat glass

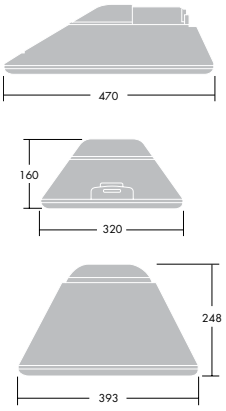
Reflectors and optical compartments (LED version): high reflective anodised aluminium

Fixing screws and clip: stainless steel

Brackets: die-cast aluminium, powder coated sandy silver grey finish (close to (RAL 9006)

Please ask for any other RAL finish

Poles: galvanised steel, texturised silver grey finish (Conica, Design, Venise poles) or anthracite grey (conical poles)



Clan

www.thornlighting.com/CLNC | www.thornlighting.com/CLNO

Conical poles

Clan C Archi
Clan O Basic
Clan C Basic
Clan C Archi

Dyana

CE EN 60598 EN40 EN 13201 IP66 IK09 IK10 T_a 0 +25

www.thornlighting.com/DYNL

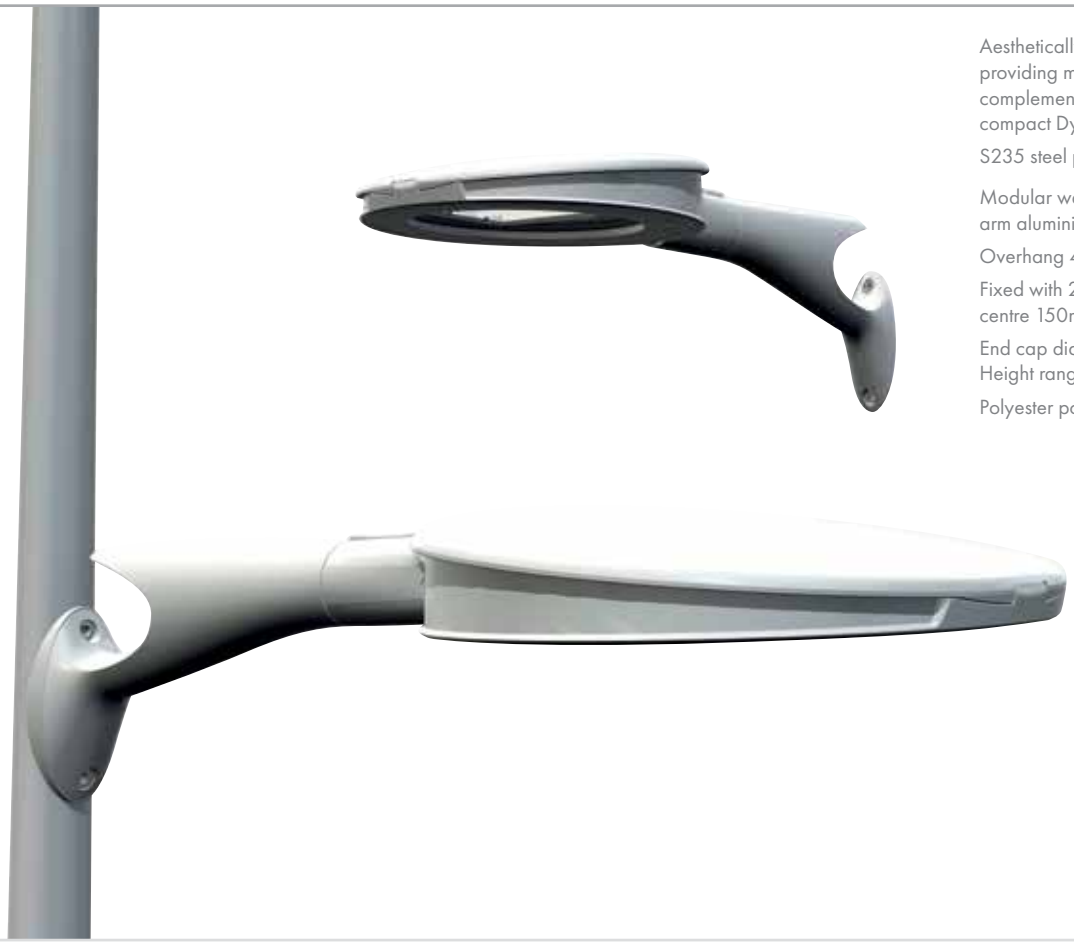
Dyana LED with Satys 2 bracket

Dyana
www.thornlighting.com/DYNL

▲ **Dyana LED** with Satys 2 bracket

Dyana on Satys 2 poles and brackets

Satys 2 range poles and brackets



Aesthetically vibrant street furniture providing modularity and a complementary shape to the compact Dyana lantern.

S235 steel pole.

Modular wall-mounted bracket and arm aluminium alloy AlSi7Mg.

Overhang 400mm.

Fixed with 2x M10 screws. Fixing centre 150mm.

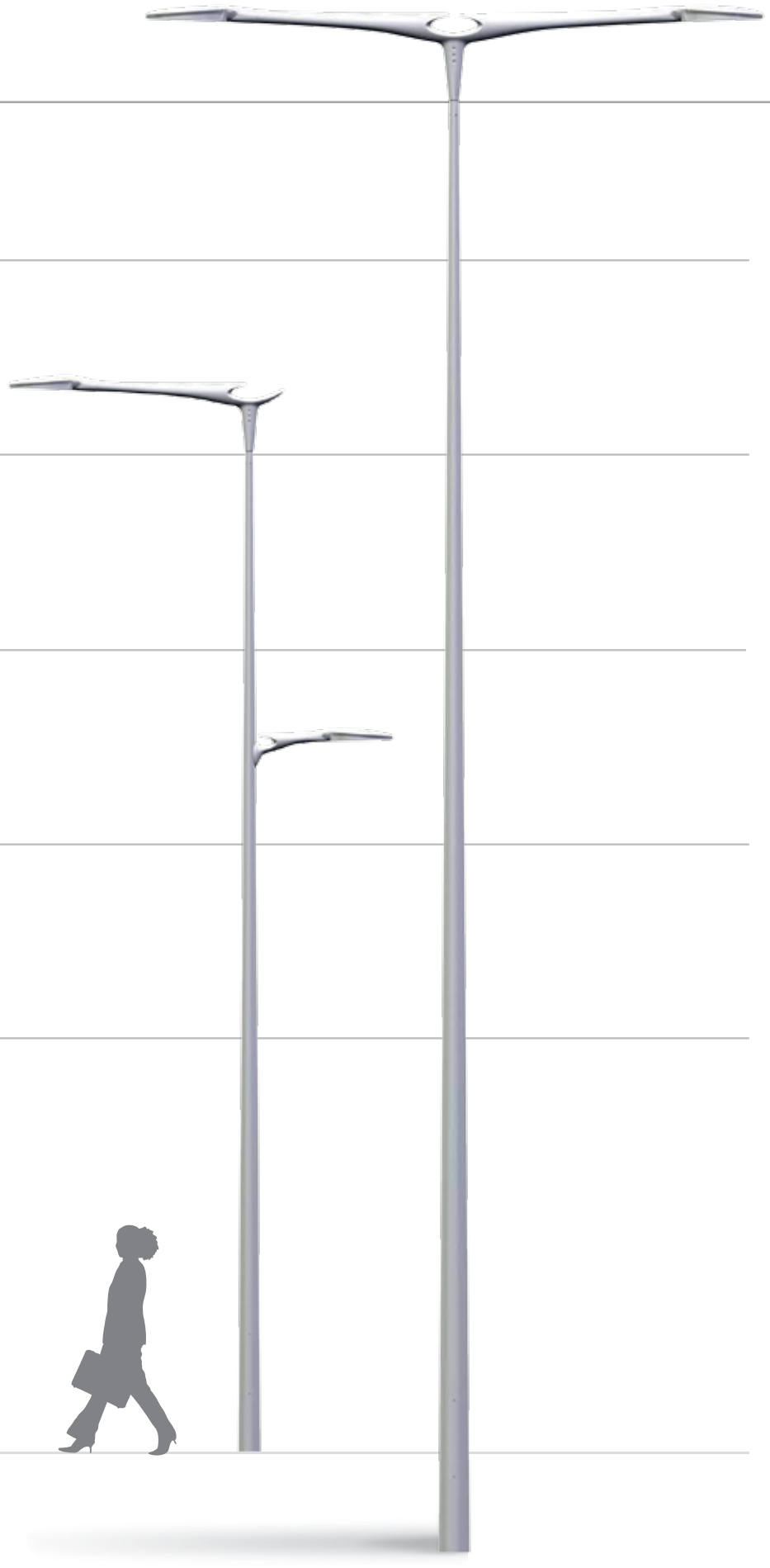
End cap dia. 60mm L 100mm. Height range: 5 to 9m.

Polyester powder coating.

Dyana on Satys 2 poles and brackets

www.thornlighting.com/DYNL

Size 1 : 4-7m
Size 2 : 6-10m

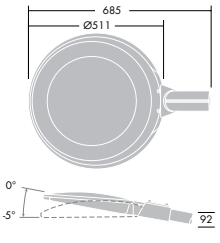


A stylish and powerful road lantern employing LED technology compliant with EN 13201, up to Me3 lighting classes

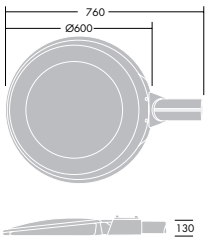
- Available in two sizes with a wide range of wattages (up to 168W)
- Highly efficient Thorn R-PEC optics provide light distributions for wide highways and narrow roads
- Autonomous power reduction system as standard for controlling energy consumption
- Post-top or side mounting
- New range of SATYS 2 coordinated brackets and poles blend perfectly into the urban environment

Materials and finish

Body and canopies: die-cast aluminium, powder coated anthracite grey finish (close to 9007)
Enclosure: 5mm thick toughened flat glass
Seal: silicone or ethylene-propylene (EPDM)



Size 1



Size 2

Decostreet

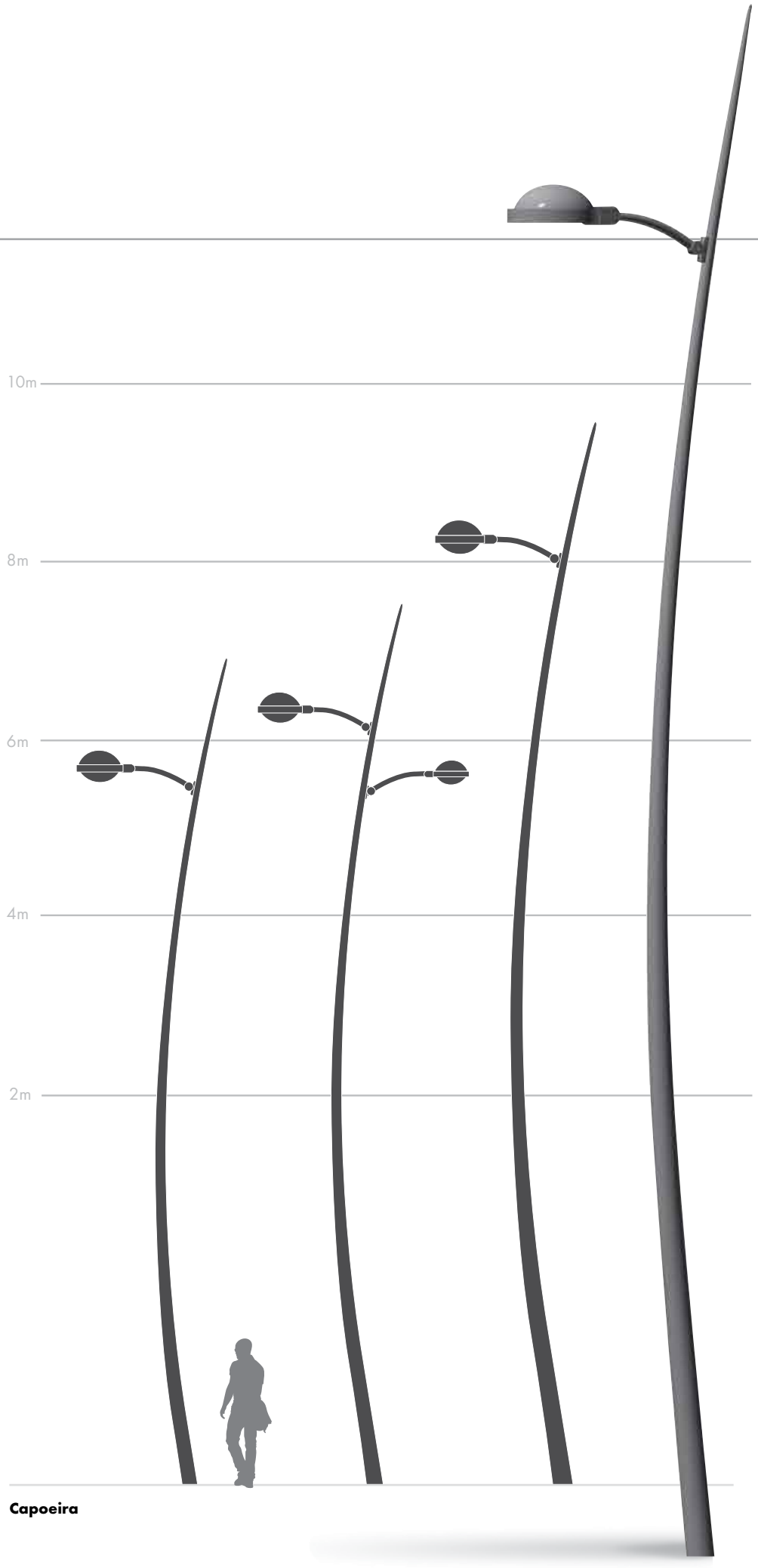
CE EN 60598 IP44 IP54 IP65 IP66 IK07 IK09 IK10

www.thornlighting.com/DECS

Rue de la Baume, Paris, France

Decostreet
www.thornlighting.com/DECS

▲ Avenue de la Grande Armée, Paris, France



Capoeira

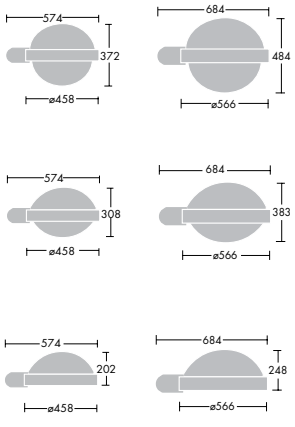
A successful combination of functional and decorative features, the Decostreet range offers a wide variety of attractive designs that adapt themselves to your requirements. The simple shape of the oval dome (shown on these pages) has a modern appeal while the generous capacity of the round dome is more traditional.

With a choice of oval or round bowl and with a straight or conical ring, Decostreet offers great choice.

Mounted laterally or suspended, its two sizes allow the creation of harmonious lighting combinations for traffic lanes and pedestrian walkways.

Materials and finish

Body and spigot: die-cast aluminium
Canopy: spun aluminium, grey painted finish RAL 7001, other RAL colours on request
Visors: acrylic, polycarbonate or toughened flat glass
Ring and spigot cover: polypropylene material coloured RAL 7012
Reflector: anodised aluminium



Size 1
Round, Oval
Scx : 0,11 m²

Size 2
Round, Oval
Scx : 0,14 m²

Capitale

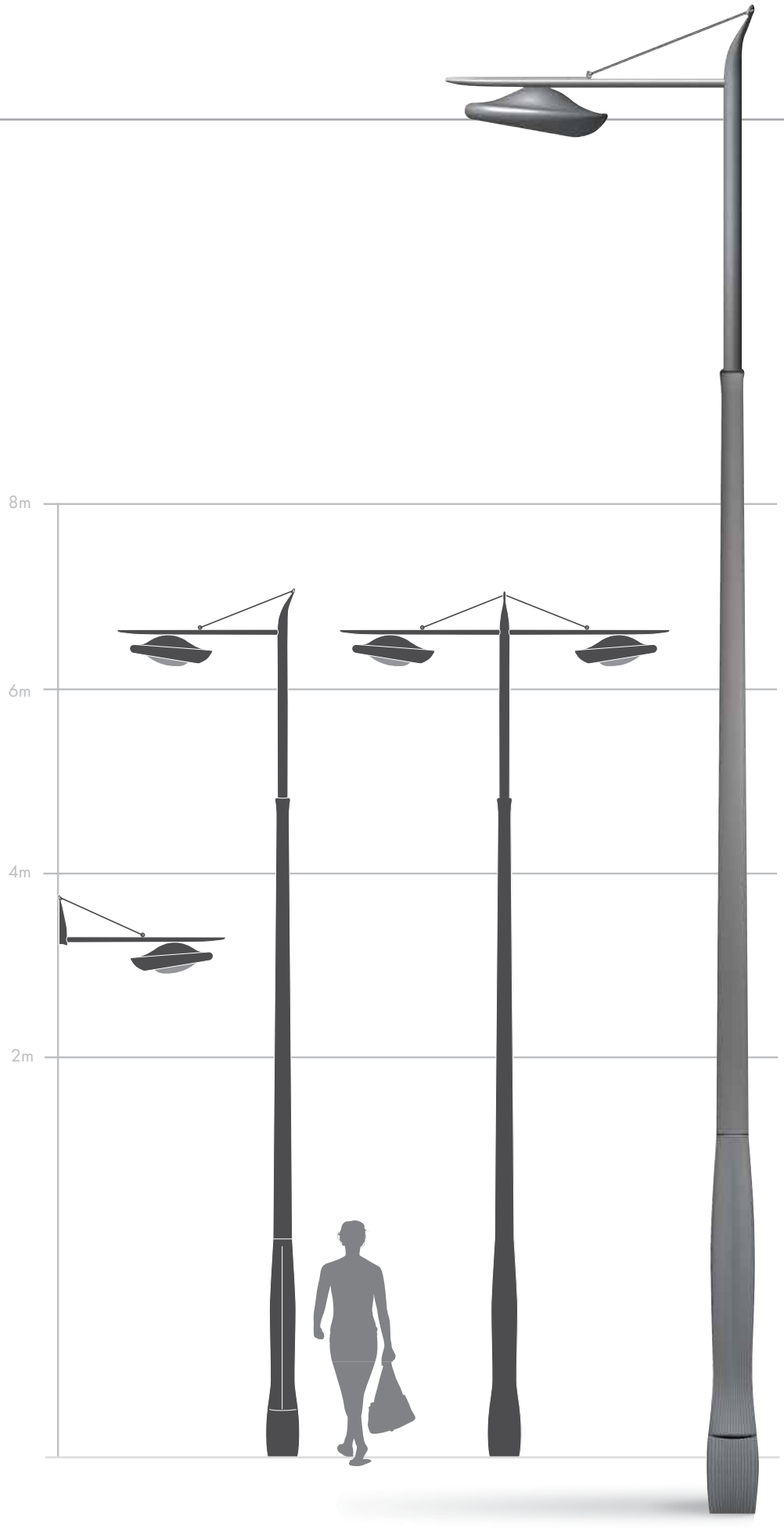
IP44 IP66 IK07

www.thornlighting.com

Quai des Célestins, Paris, France

Capitale

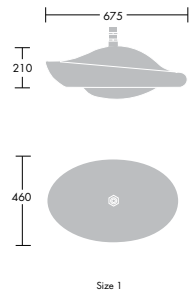
▲ Quai des Célestins, Paris, France



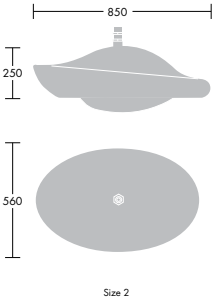
Developed in association with the designer Sylvain Dubuisson as part of the contemporary lighting fixtures supplied to the City of Paris, this range of luminaires comes in two sizes for illuminating roadways and pavements. A matching column and wall mount have been specially designed to carry these luminaires. This range is complemented by a decorative street lamp designed specifically for pedestrian lighting (see p 39).

Materials and finish

Body: die-cast aluminium.
Enclosure: elliptical aluminium.
Mounting with 34G stainless threaded tube.
Sealed optical compartment with aluminium reflector on polyester support and round front toughened glass lens.

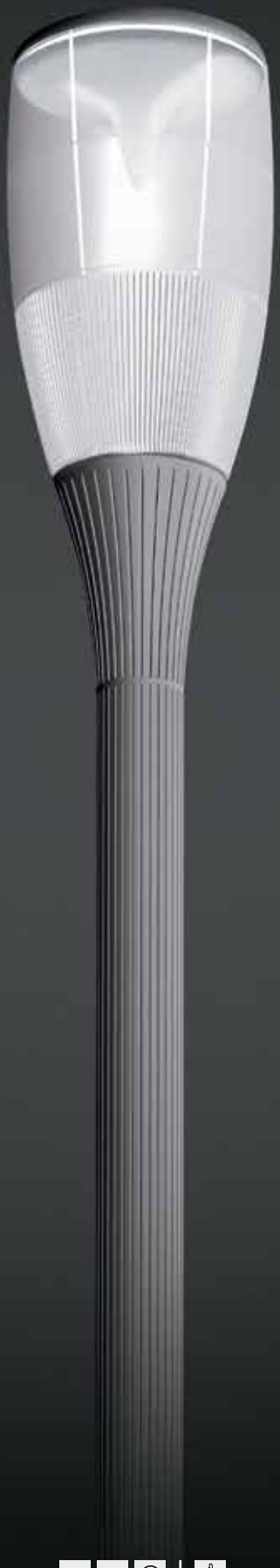


Size 1



Size 2

Capitale



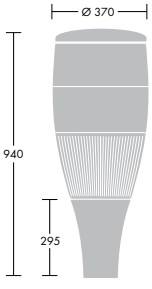
IP54 IK07

www.thornlighting.com

Rue Doudeauville, Paris, France

Developed in association with the designer Sylvain Dubuisson as part of the contemporary lighting fixtures supplied to the City of Paris, this range of decorative luminaires is intended for lighting pedestrian precincts, pavements, squares and forecourts. Its characteristic slender fluid design is matched by its imposing glass and die-cast construction. The ribbed base masks the light source and diffuses a glare-free light, while the interior cone ensures a consistent spread of light towards the ground. An asymmetric version reduces the amount of light diffused to the façades. This range is also available for wall mounting, and harmoniously complements the street luminaire specifically designed for traffic lanes (see page 37).

Materials and finish
Base and canopy: die-cast aluminium
Reflector: aluminium
Diffuser: clear/ribbed glass



Villyo

CE EN 60598 EN 13201 IP66 IK08

www.thornlighting.com

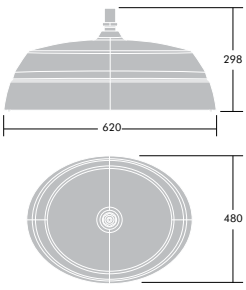
Ville de Lyon, France

Decorative hanging lantern of neo-classical design that blends smoothly into its environment

- Available as LED version (up to 113W) or for discharge lamps (up to 150W)
- High performance street optic
- Version with cut-off for avoiding obtrusive light
- Dedicated wall bracket with access hatch to terminal block for an attractive and harmonious lighting system

Materials and finish

Body and sleeve: die-cast aluminium, powder coated anthracite grey finish (close to RAL 9007)
Covers: 4mm thick toughened flat glass
Clip: stainless steel spring
Seal: silicone
Retaining screws: stainless steel



StyLED

CE EN 60598 EN40 IK08 IP66 |

www.thornlighting.com/STYL

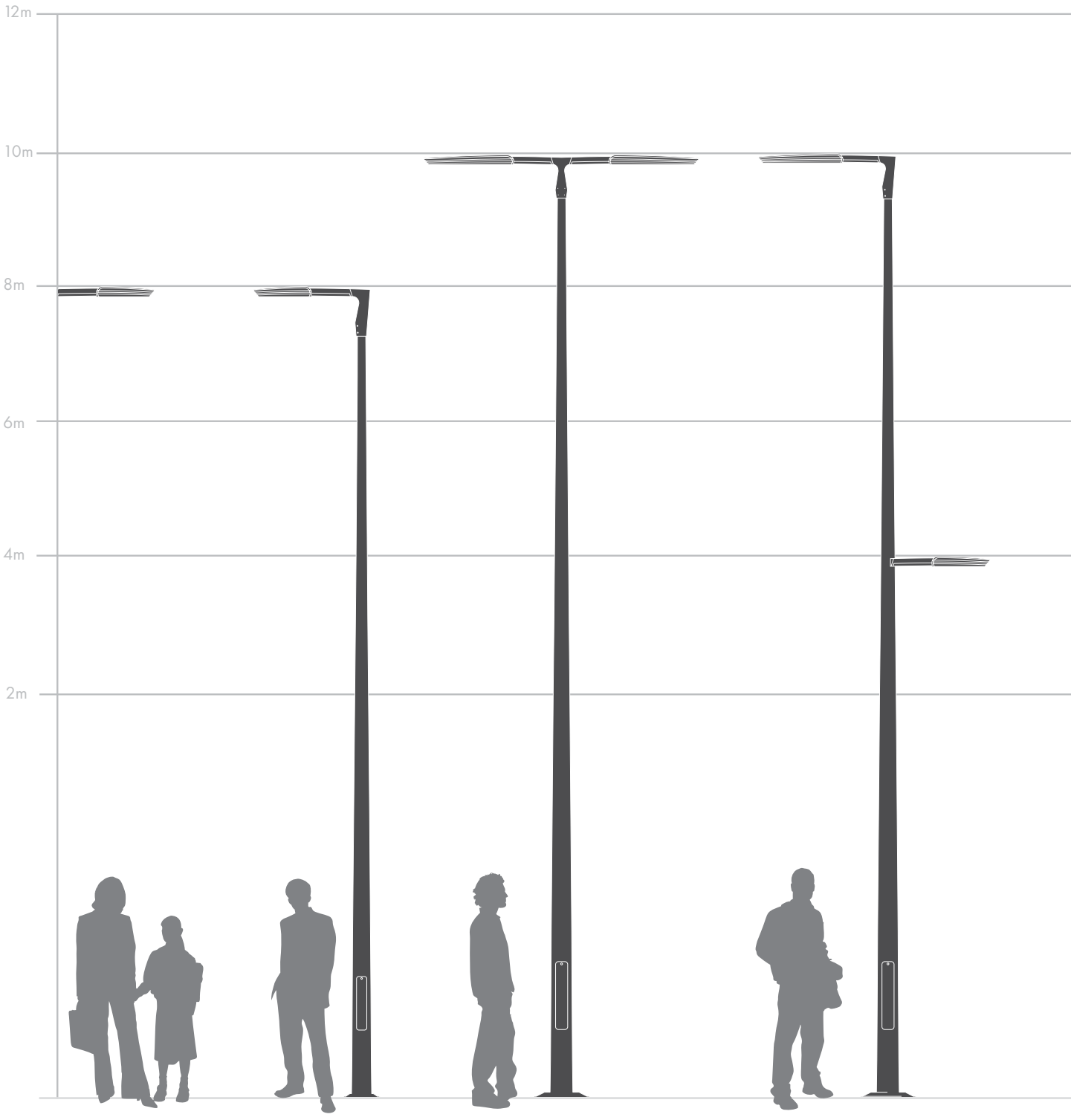
Boulevard Victor Hugo, Olivet (45), France

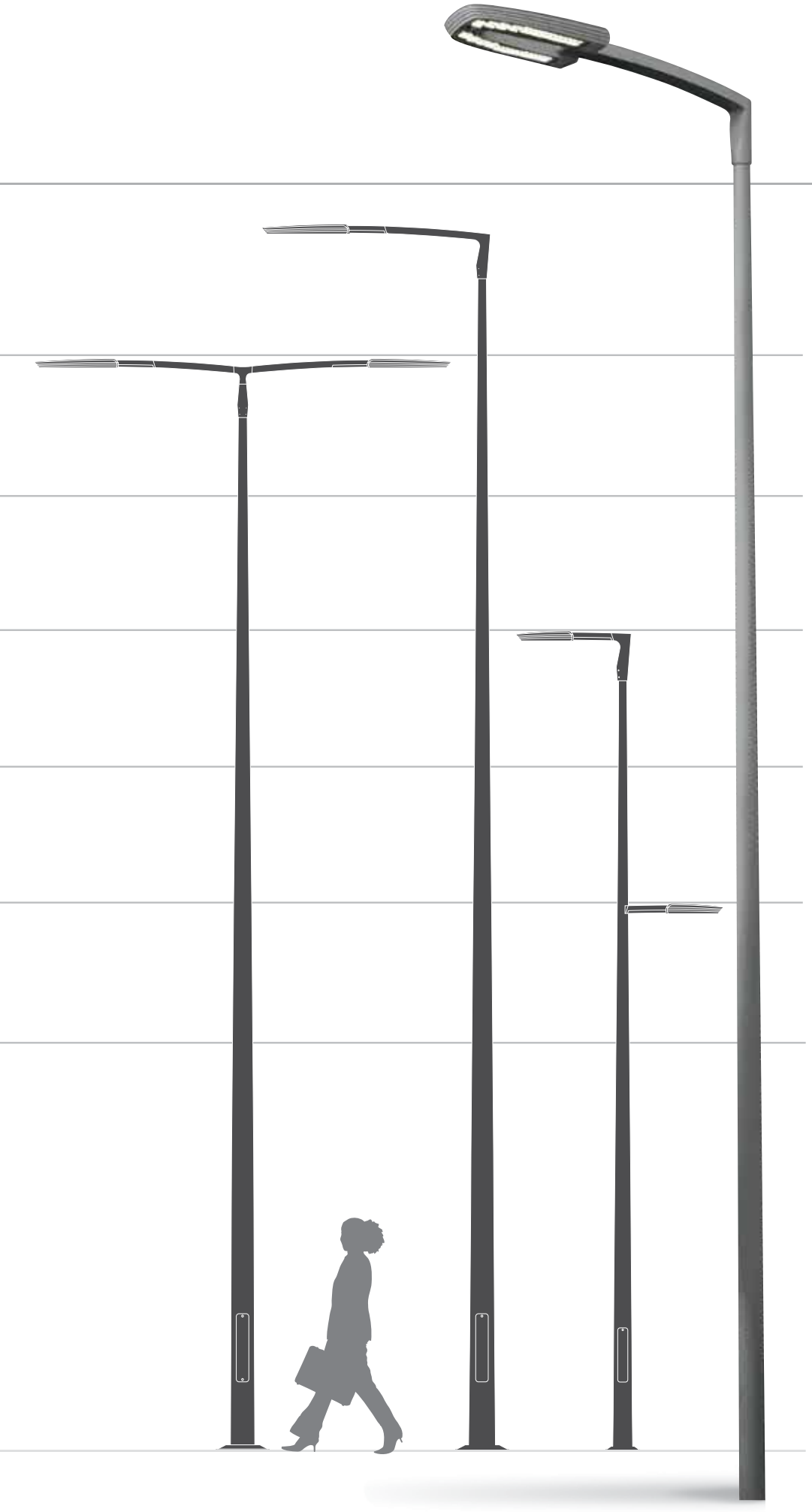
StyLED
www.thornlighting.com/STYL

▲ Clinique Saint-Jean Languedoc, Toulouse, France

◀ Clinique Saint-Jean Languedoc, Toulouse, France

StyLED
www.thornlighting.com/STYL



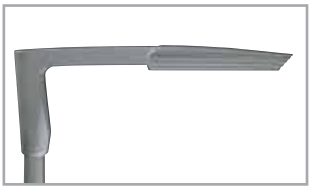


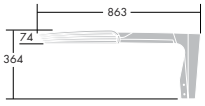
Range of functional lanterns combining innovative design and LED technology for comfortable and effective lighting of major and secondary roads.

- The EQFlux system offers up to 15 different light distributions covering all applications
- Versions with autonomous power reduction as standard maximise energy savings depending on requirements
- Built-in heat dissipator and flat glass cover for easy cleaning
- Range of coordinated brackets for a harmonious package

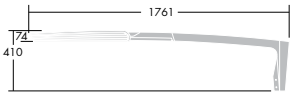
Materials and finish

Body and brackets: die-cast aluminium, powder coated texturised light and grey finish (close to RAL 9006)
Enclosure: toughened flat glass, self-cleaning treatment on request





Size 1



Size 2

Olsys Street

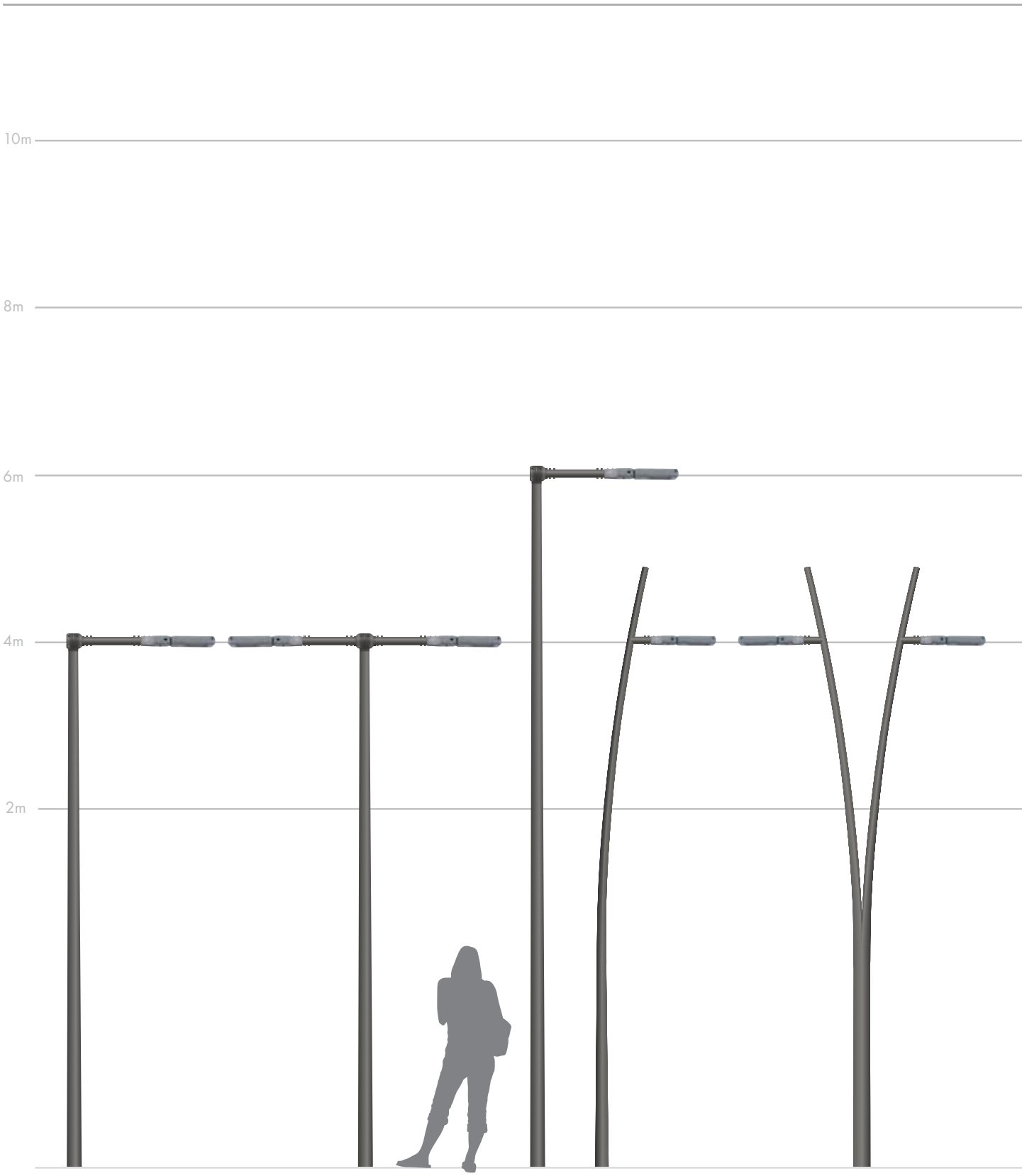
EN 60598 | EN 13201 | IK08 | IP66 | Ta25 | Ta -25 +50

www.thornlighting.com/OSYR

LASTEAM

Olsys Street

www.thornlighting.com/OSYR



Olsys poles

Size 1 : 4m
Size 2 : 6-8m

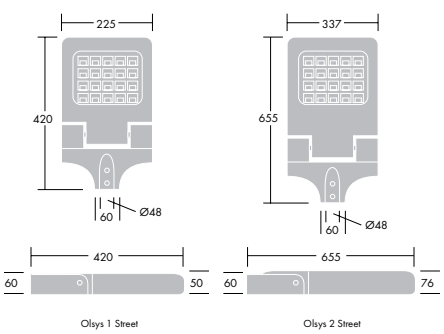
Simple and versatile urban lantern fitted state of the art LEDs for high performance and efficiency

- LED-powered in compliance with standard EN13201 and European recommendations: ULOR = 0%, lighting performance (source + auxiliary lamp) 70 lm/W at 4000K, for projects up to lighting class ME3
- Supplied with autonomous power reduction to reduce energy consumption during off-peak periods
- Overall costs reduced by an enhanced thermal control system that extends working life up to 80,000 hours at 25° with 70% maintained luminous output (without dimming)
- Aesthetically understated design coordinated with other luminaires in the Olsys range and available with a wide selection of brackets and pole combinations

Materials and finish

Body: die-cast aluminium (AS9U) powder coated silver grey finish RAL 9006
Enclosure: UV stabilised clear polycarbonate (size 1) or toughened glass (size 2)
Optics: polycarbonate (size 1), high reflectivity anodised aluminium mini-reflectors (size 2)
Brackets and mounting accessories: aluminium

Console double 500mm Double post-top bracket



Oxane

CE EN 60598 IK09 IP66 $T_{a\ -25\ +35}$ |

www.thornlighting.com/OXAN

Oxane on Zoria 2 poles and brackets

Zoria 2 range poles and brackets

Biomorph lighting fixtures, 100% steel, arched and bevelled conical shape, for overall dynamic coherence with Oxane.

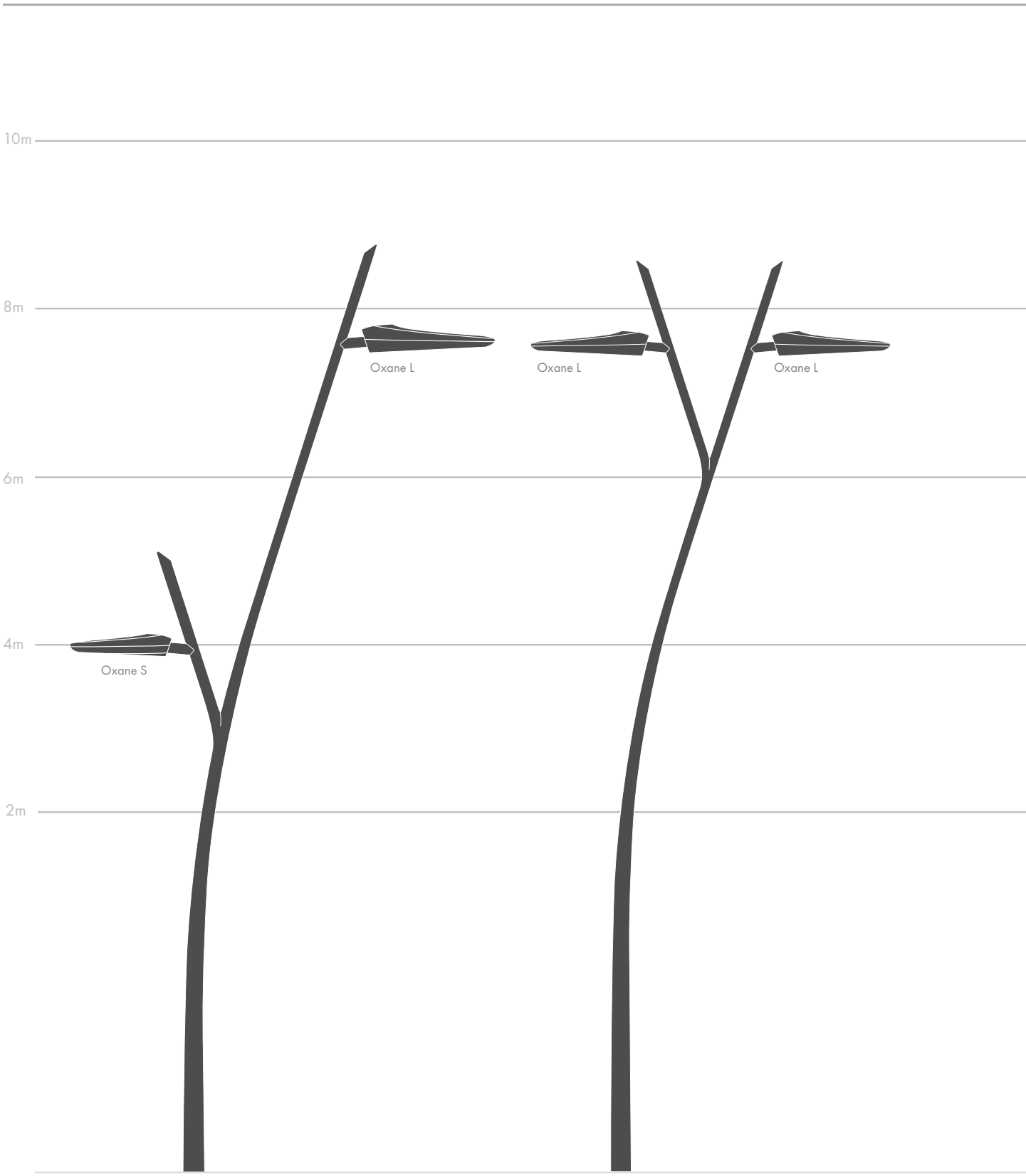
HLE S420 steel pole.

No visible welds.

Upper shaft with simple mounting height adjustment, bevelled, S235 steel.
Overhangs 1000 & 250mm.
Shafts Ø 60mm L 250mm.
Tilt 5°.
Mounting heights: 5 to 8 metres.
Polyester powder coating.

Oxane on Zoria 2 poles and brackets

www.thornlighting.com/OXAN



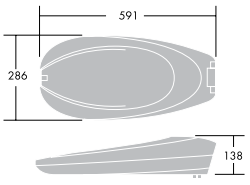
Zoria 2 range

Oxane S : 4-8m
Oxane L : 7-10m

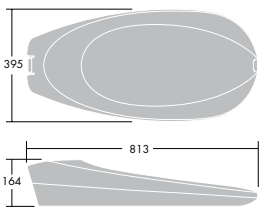
Range of street lanterns providing best in class LED technology with advanced performance up to lighting class ME1

- Available in two sizes with a wide range of power options (up to 169W)
- High efficiency Thorn R-PEC optics provide light distributions for wide highways and narrow roads
- Autonomous power reduction system as standard for controlling energy consumption
- Self-cleaning shape for reduced maintenance
- Quick opening from above and tool-free detachable control gear
- Possibility of coordination with Oracle type conventional functional lanterns

Materials and finish
Body and spigot: die-cast aluminium, powder coated texturised light grey (close to RAL 9006)
Cover: toughened flat glass
Cover screws and clip: stainless steel



Scx: 0.061m²
Oxane S



Scx: 0.083m²
Max. 17Kg
Oxane L

Krystal

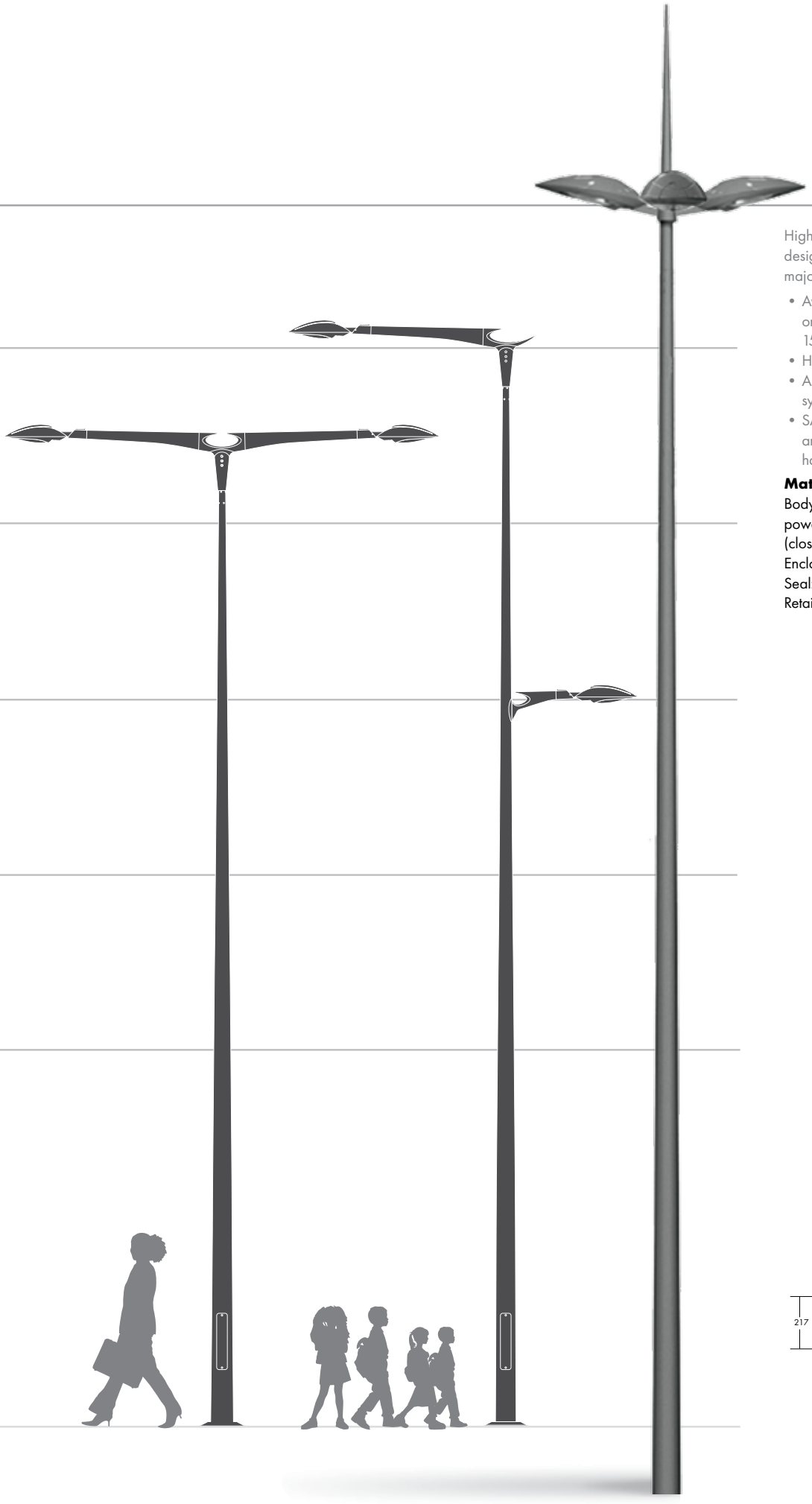
CE EN 60598 EN 13201 IP66 IK08

www.thornlighting.com

Saint-Paul-sur-Mer (59), France

Range with Satys 2 brackets

Needle-point poles

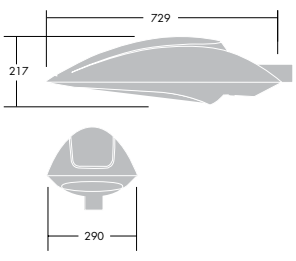


High performance distinctively designed lantern for minor and major roads

- Available with LED (up to 84W or for discharge lamps (up to 150W)
- High performance street optic
- Autonomous power reduction system as standard
- SATYS 2 coordinated brackets and poles for an attractive harmonious package

Materials and finish

Body and clip: die-cast aluminium powder coated texturised silver grey (close to RAL 9006)
Enclosure: toughened flat glass
Seal: silicone
Retaining screws: stainless steel



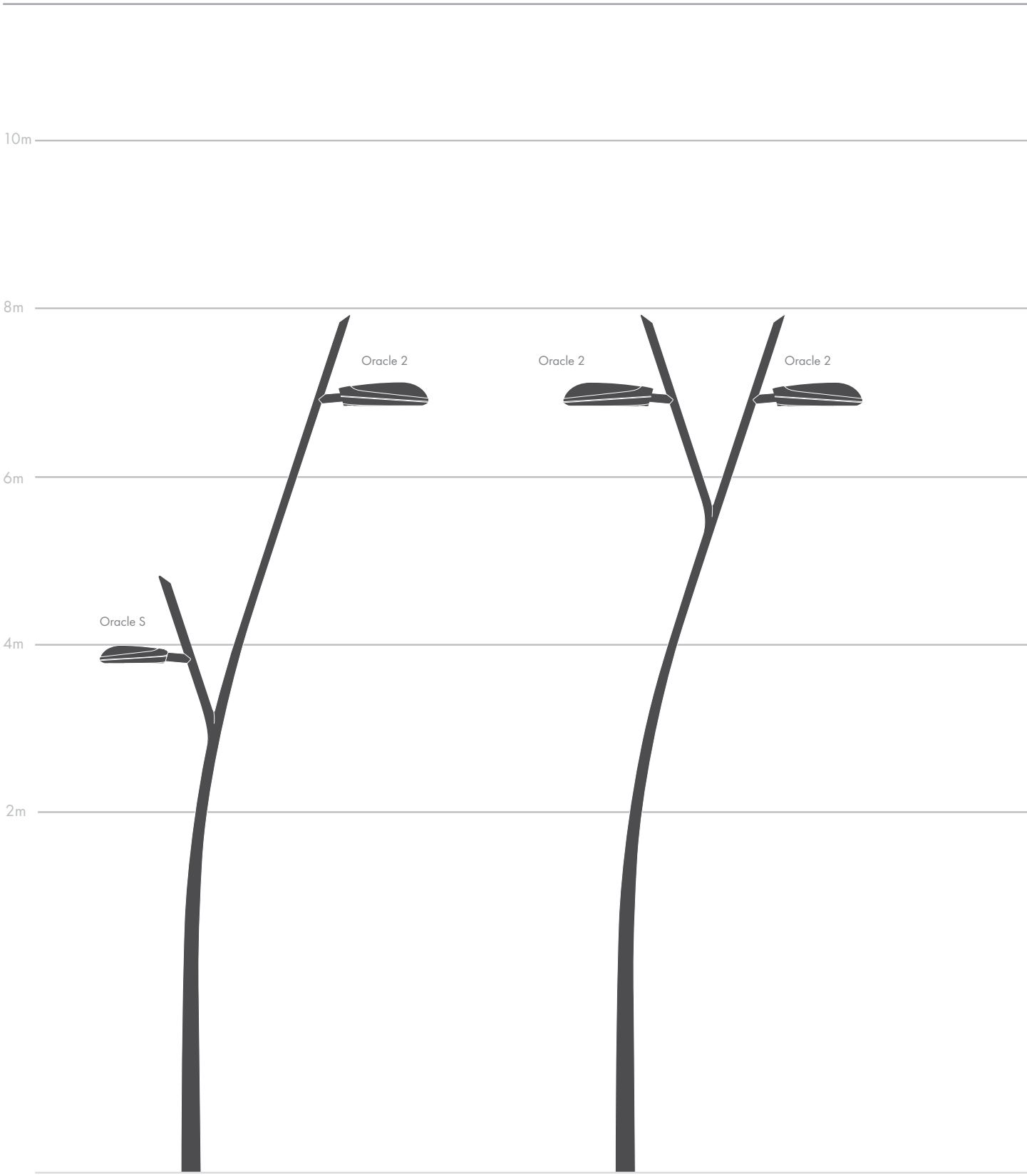
Oracle

IK08 IK10 IP66

www.thornlighting.com/ORCL

Oracle

www.thornlighting.com/ORCL



Zoria 2 range

Biomorph lighting fixtures, 100% steel, arched and bevelled conical shape, for overall dynamic coherence with Oxane.

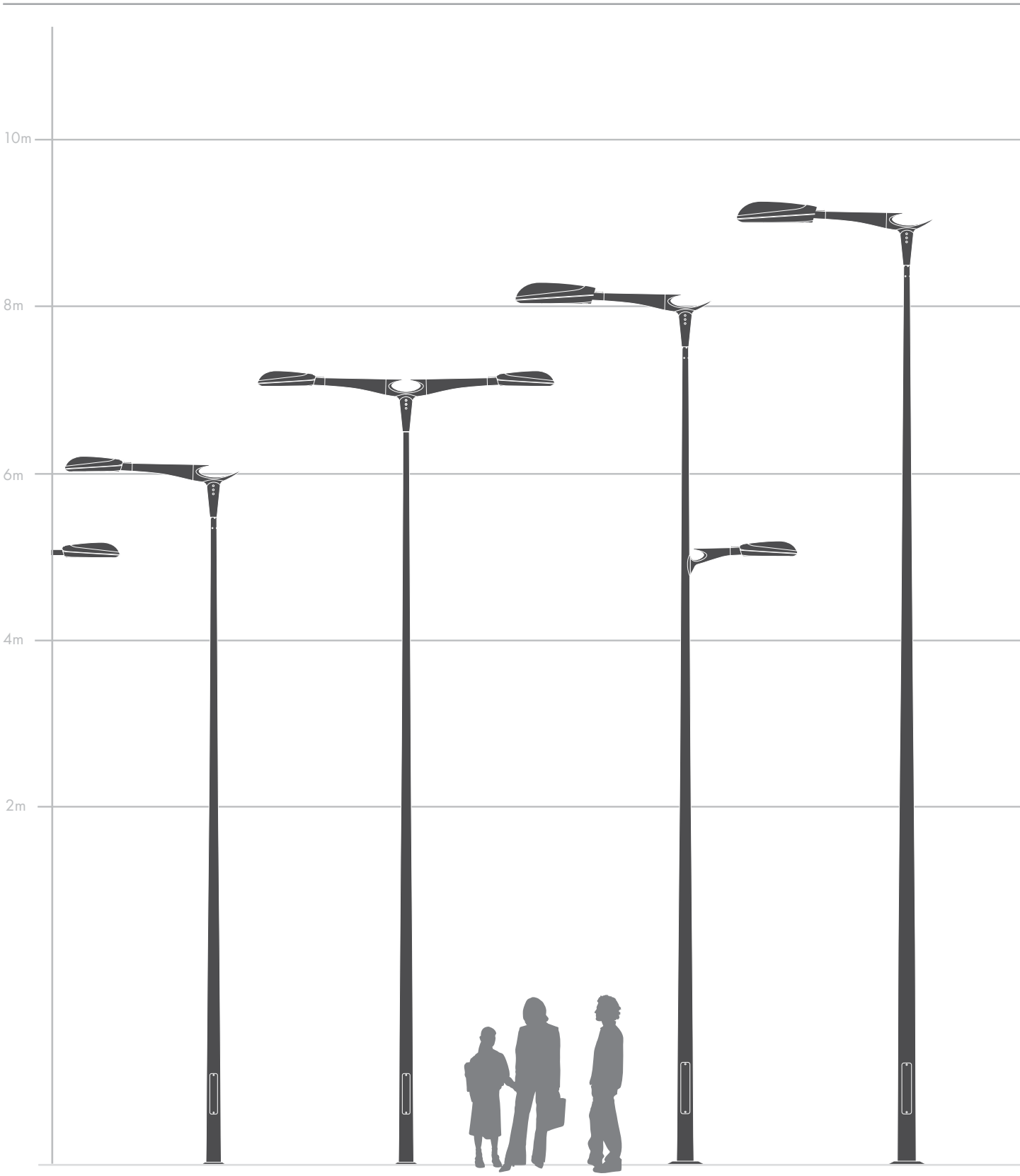
HLE S420 steel pole.

No visible welds.

Upper shaft with simple mounting height adjustment, bevelled, S235 steel.
Overhangs 1000 & 250mm.
Shafts Ø 60mm L 250mm.
Tilt 5°.
Mounting heights: 5 to 8 metres.
Polyester powder coating.

Oracle on Satys 2 brackets

www.thornlighting.com/ORCL



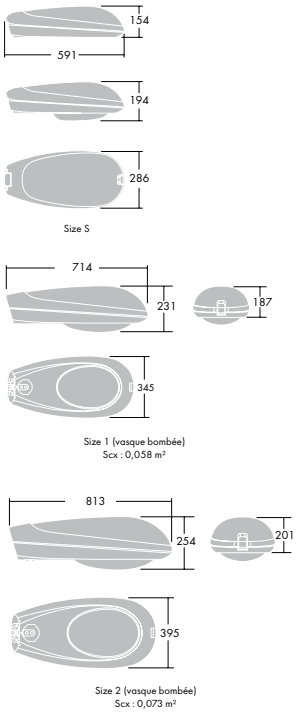
Collection with Satys 2 brackets

Range of eco-design street lanterns providing high performance up to lighting class ME1

- Available in three sizes with a wide range of power options (up to 400W)
- Choice of different covers (flat glass, curved glass, PC bowl)
- Robust construction and high levels of protection for long life
- Simple installation, speedy maintenance and energy-saving solutions
- The product's eco-design reduces its environmental footprint throughout its entire lifecycle (manufacture, usage and recycling)

Materials and finish

Body and spigot: die-cast aluminium
Enclosure: flat or curved toughened glass or UV stabilised polycarbonate curved bowl.
Opticlean self-cleaning glass on request
Cover screws and clip: stainless steel
Powder coated finish: sizes 1 & 2 = light grey (RAL9006); size S = texturised light grey (close to RAL 9006)



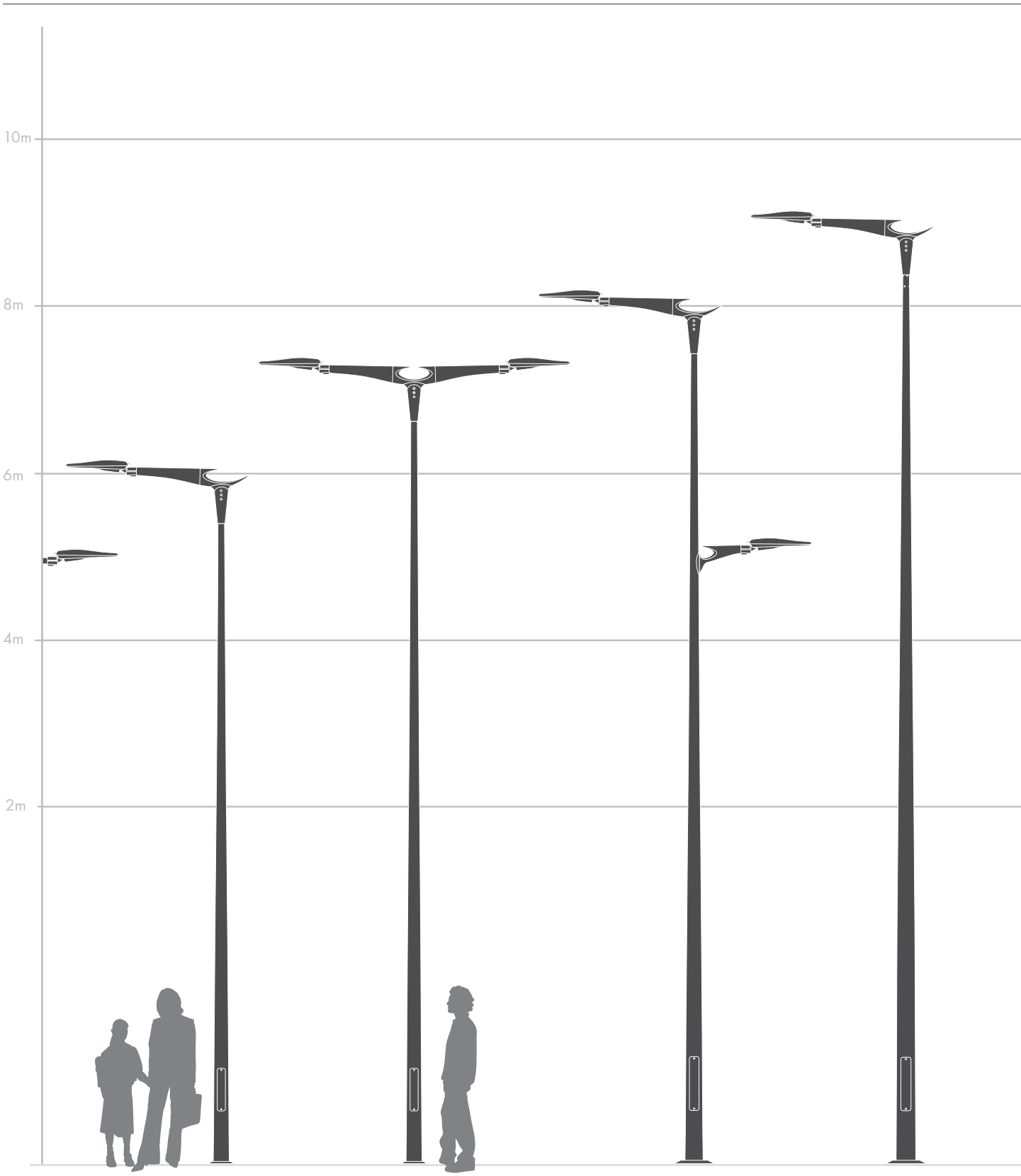
Isaro

CE | EN 60598 | EN 13201 | IK08 | IK10 | T_a -25 +35 | IP66 | | |

www.thornlighting.com/ISRO | www.thornlighting.com/ISRL

Isaro on Satys 2 brackets

www.thornlighting.com/ISRO | www.thornlighting.com/ISRL



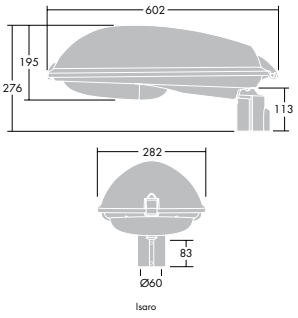
Range with Satys 2 brackets

Functional lantern providing precise timeless lighting for major and secondary roads

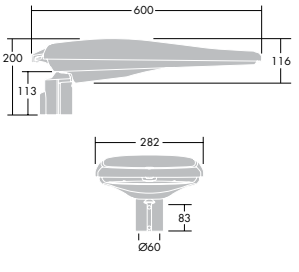
- Available as LED version (up to 84W) or for discharge lamps (up to 150W)
- High optical performance with -20° to +10° adjustable lantern tilt, ideal for accurate control during lighting renovation
- Minimised energy consumption with a rapid return on investment
- Pure timeless design, with reduced daytime visual impact Autonomous power reduction for energy savings during off-peak hours
- Aluminium construction, long lasting and easily recyclable materials, IP66 gasket

Materials and finish

Body and sleeve: die-cast aluminium powder coated grey finish RAL 9006 (other RAL colours on request)
Enclosures:
-HID version: toughened flat glass or UV stabilised polycarbonate bowl
-LED version: toughened flat glass
Retaining screws and clip:
stainless steel



Isaro



Isaro LED

Adelie

CE EN 60598 EN40 IP65 IK08 |

www.thornlighting.com/ADLE

Square Verdun, Bijou Plage, Cannes, France

Adelie

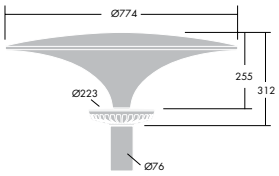
www.thornlighting.com/ADLE

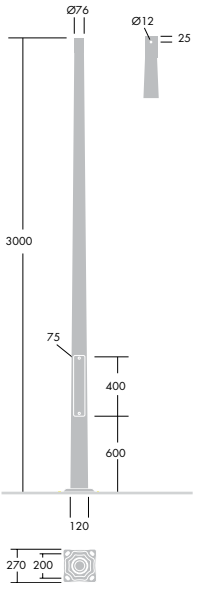
Square Verdun, Bijou Plage, ▶
Cannes, France

LED architectural luminaire for indirect lighting creating a comfortable and welcoming environment for parks, roads and building surrounds.

Materials and finish

Canopy: spun aluminium, powder coated sandy grey 900 (close to RAL7043)
Lens: PMMA acrylic
Reflector: aluminium powder coated white with Teflon® coating
Dedicated column: aluminium conical painted sandy grey 900
Control gear plate: aluminium)





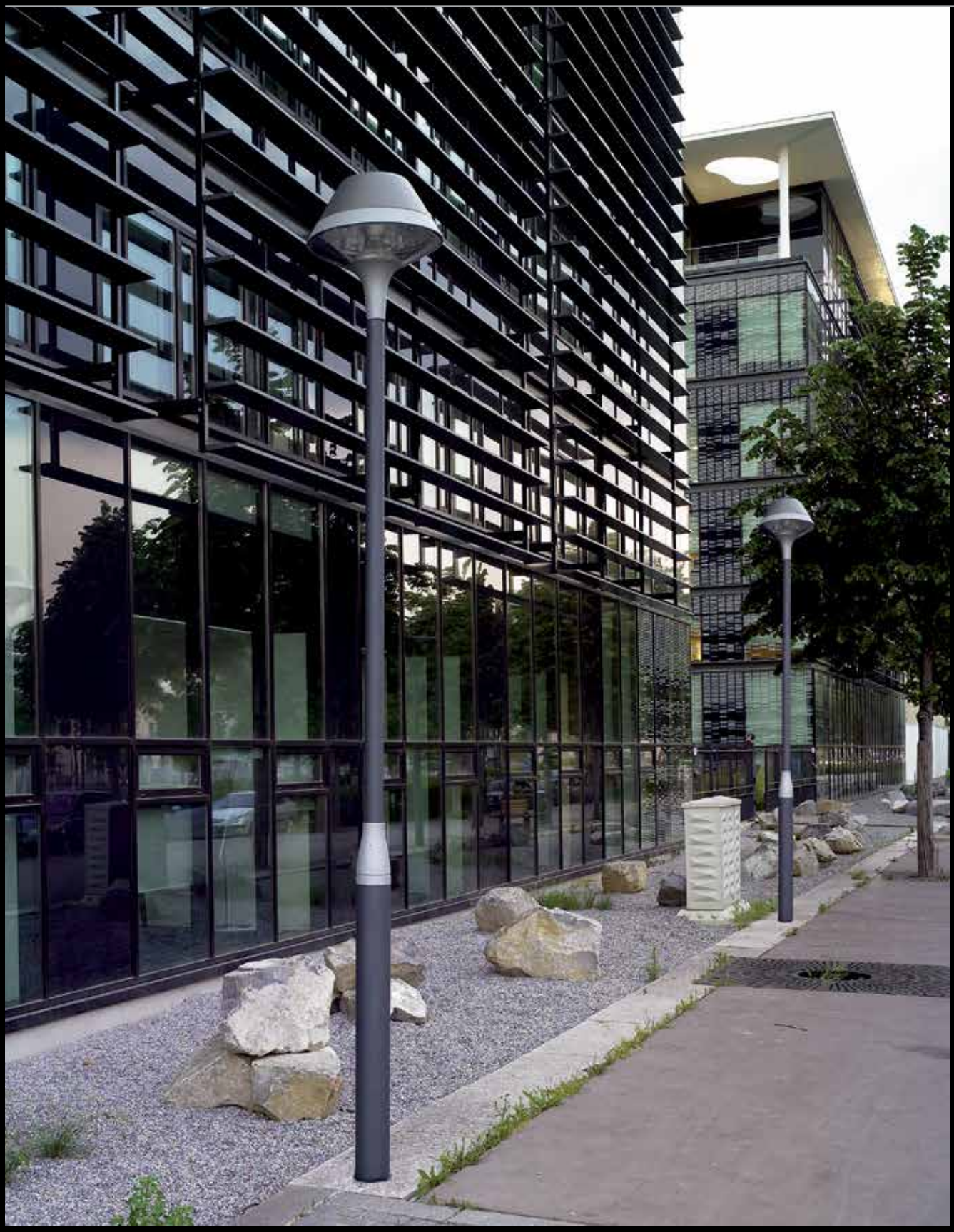
Plurio

CE | EN 60598 | EN 13201 | IK08 | T_a25 | IP66 | | | | | |

www.thornlighting.com/PLRL

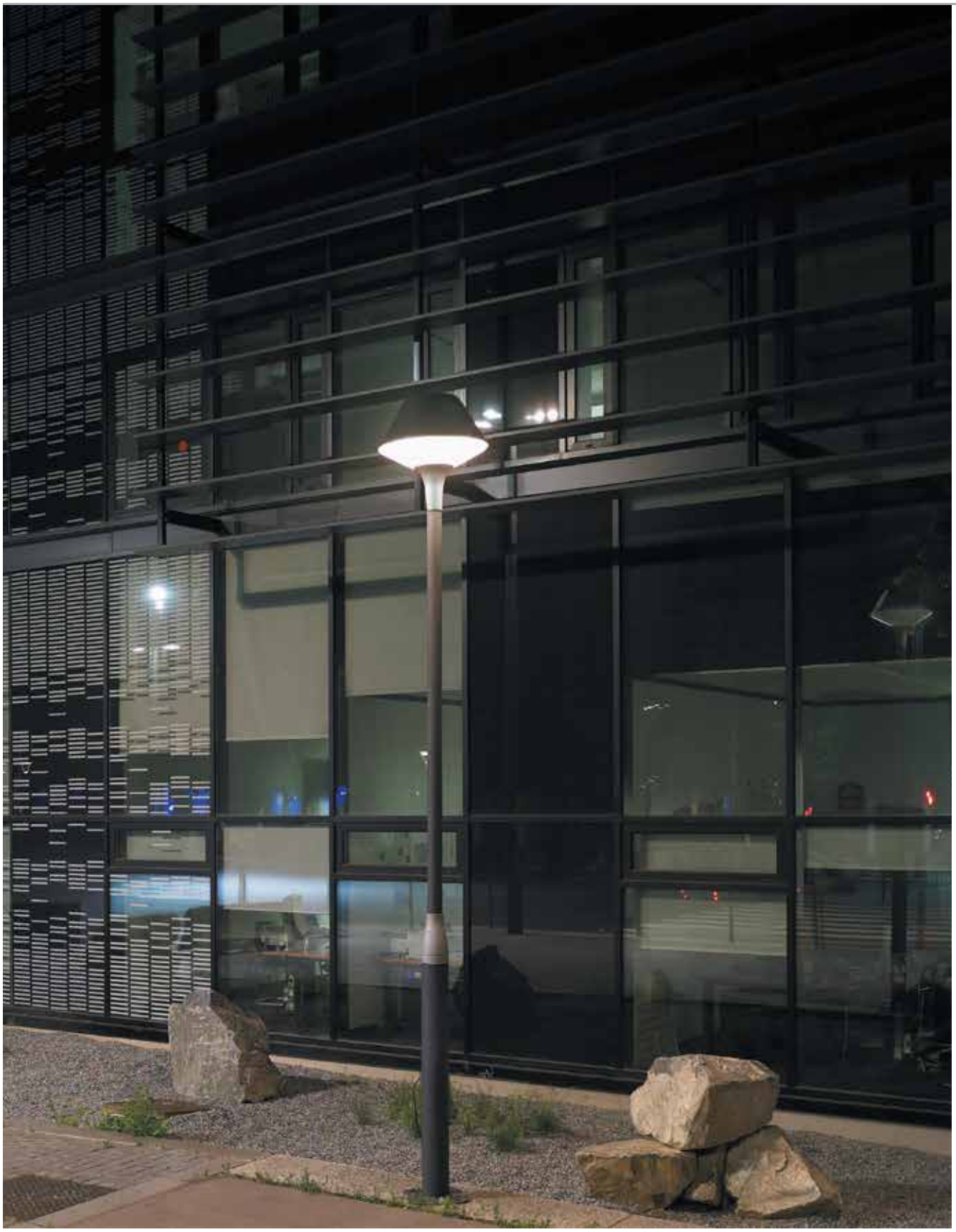
Plurio Saint-René (22), France

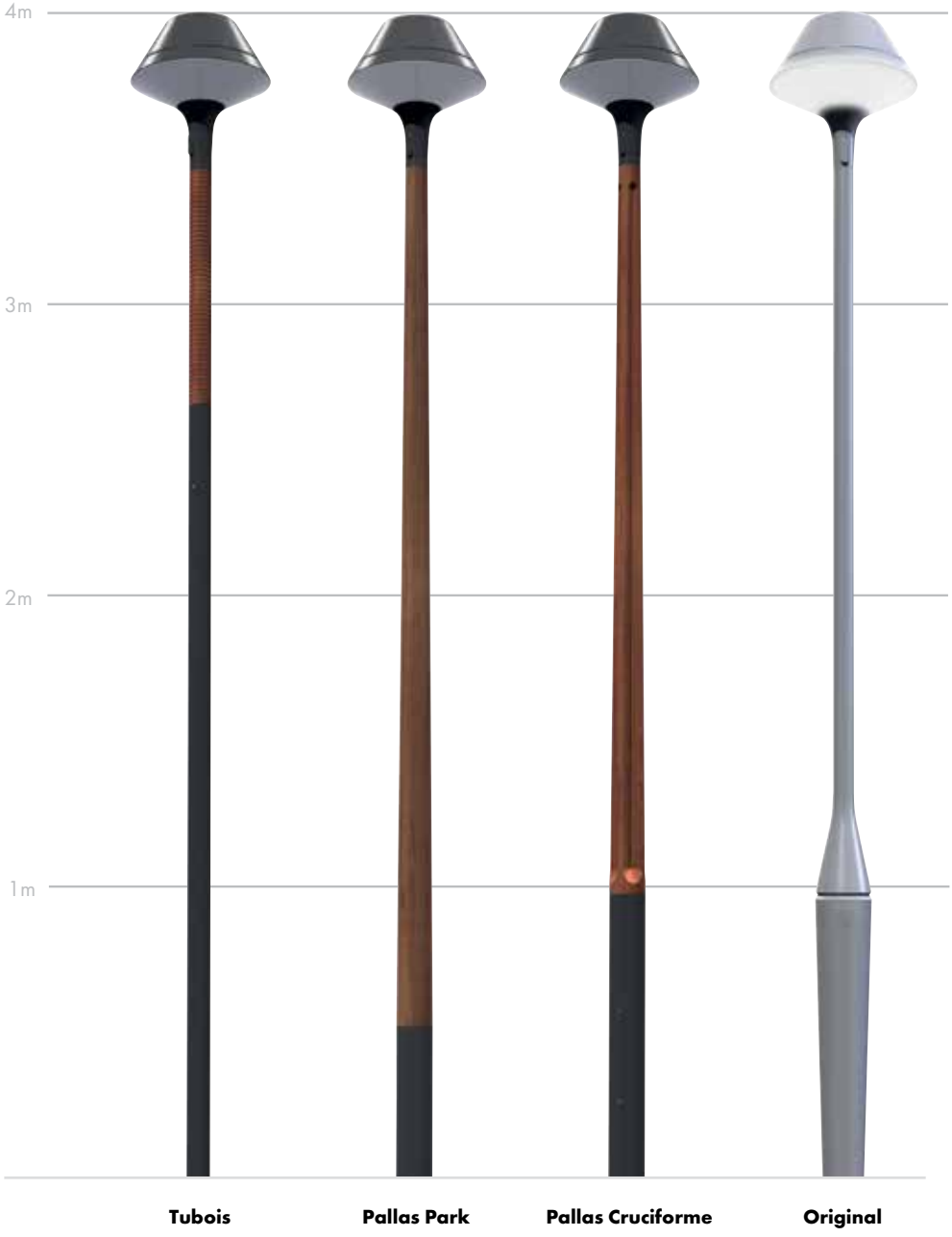
Plurio
www.thornlighting.com/PLRL



▲ Acigné (35), France

Plurio
www.thornlighting.com/PLRO



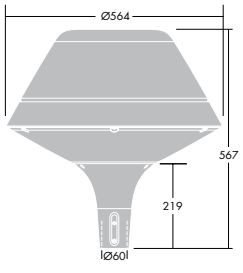


Range of decorative lanterns combining sustainability and comfort in residential and urban areas

- A simple user-friendly design Plurio offers two different styles of canopy with a choice of optics and accessories.
- The 'Original' version also offers a two-tone finish for greater effect.
- The selected shapes, combined with Plurio's innovative and high performance optical system, create a sense of space and a feeling of safety and well-being.
- The choice of light source, whether diffusing a white light or one that is slightly warmer, can create different environments to suit the landscapes to be illuminated.
- The lantern's eco-design guarantees a reduction in obtrusive light, energy consumption and CO2 emissions
- Range of dedicated columns – Complete range of columns and poles for harmonious integration.

Materials and finish

Aluminium canopy and base, powder coated silver grey finish (close to RAL 9006) or silver grey and dark grey (close to RAL 7043) in the two-tone version.
Bowl: UV stabilised clear polycarbonate with anti-glare prisms
Reflector: high reflectivity white ABS (HID version)
Mirrors (street version): high reflectivity anodised aluminium
Fixing screws: stainless steel



Scx: 0.070m²

Christian IV

CE EN 60598 EN 13201 IK08 T_a25 IP66

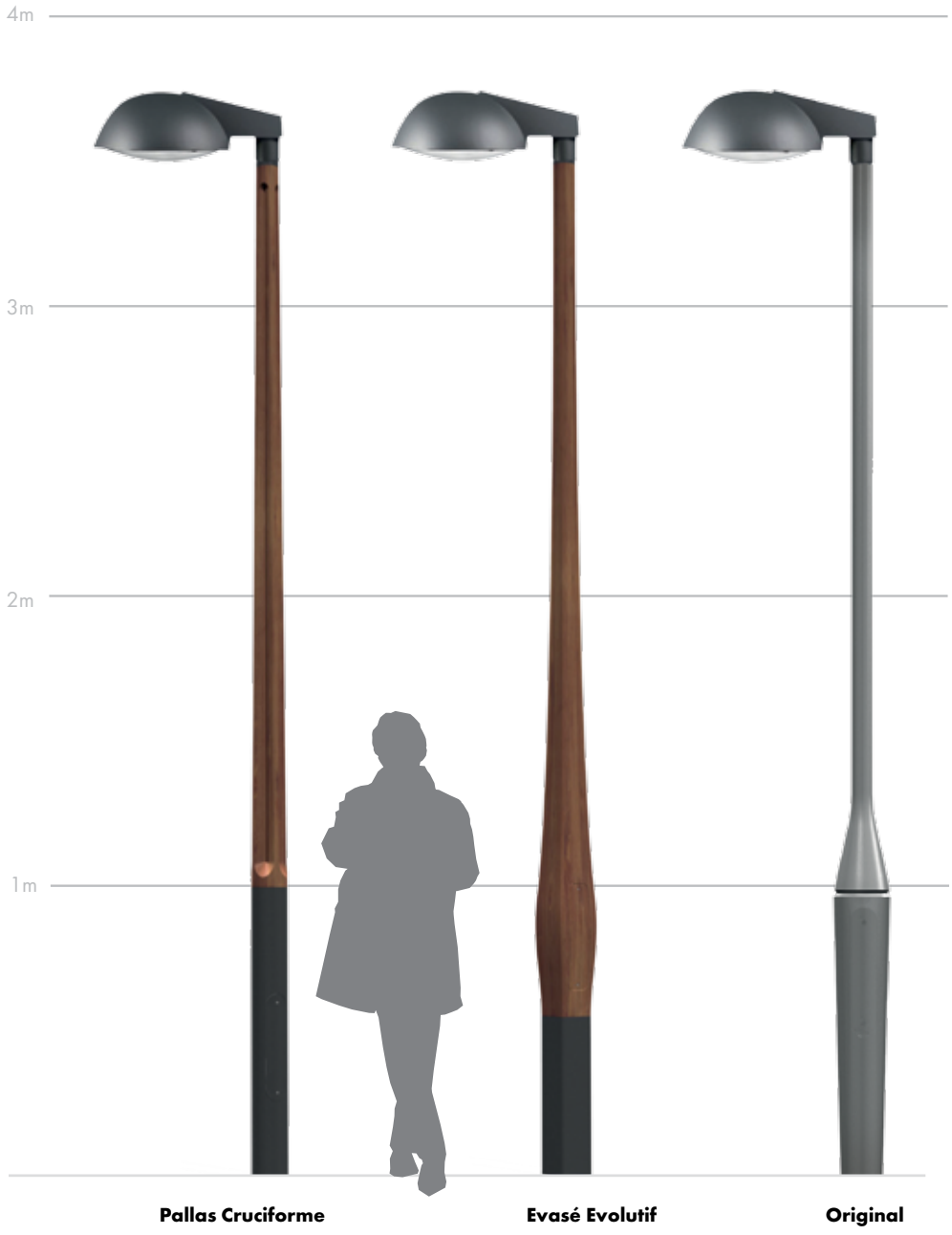
www.thornlighting.com/CHIV

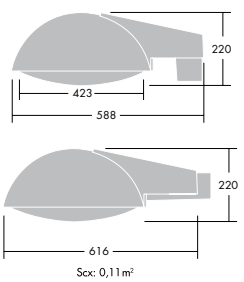
Christian IV
www.thornlighting.com/CHIV

A highly efficient lantern combining design, performance and strength for residential streets and pedestrian walkways

- LED optic with 32W/2500lm wattage, providing a comfortable white light (4200K)
- Improved asymmetric reflector for efficient lighting to reduce obtrusive light
- Glare limitation

Materials and finish
Body: die-cast aluminium, powder coated anthracite grey finish (close to RAL 7024). Other RAL colours on request
Shallow bowl enclosure: UV stabilised clear polycarbonate
Asymmetrical reflector: high purity anodised aluminium
Screws: Stainless Steel





Avenue D2 LED

CE EN 60598 EN 13201 IK08 IK10 T_a25 IP66

www.thornlighting.com/AVD2

Coudekerque (59), France

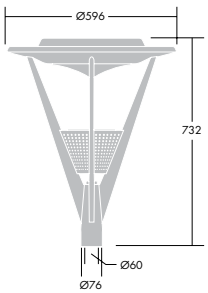
Avenue D2 LED
www.thornlighting.com/AVD2

Stylish, efficient and anti-glare post-top lantern offers unique and extremely comfortable lighting

- Choice of two light distributions: street or symmetrical
- Reduced operating costs with 100,000-hour lifetime in dual power mode (at 25°C with 70% maintained luminous output)
- Complete family with coordinated poles, bollards and wall mounts

Materials and finish

Body: die-cast aluminium.
Canopy: spun aluminium.
Finish: powder coated anthracite grey (close to RAL 7043).
Finial: copper colour metallised polycarbonate or stainless steel, covered with special varnish to prevent ageing and preserve the original bright appearance.
Diffuser: UV stabilised clear polycarbonate with anti-glare prisms.
Reflector and mirrors (street lighting): high reflective anodised aluminium.
Retaining screws: stainless steel



Avenue F2

CE EN 60598 EN 13201 IK08 T_a25 IP66

www.thornlighting.com/AVFL

Acigné (35), France

Avenue F2

www.thornlighting.com/AVFL

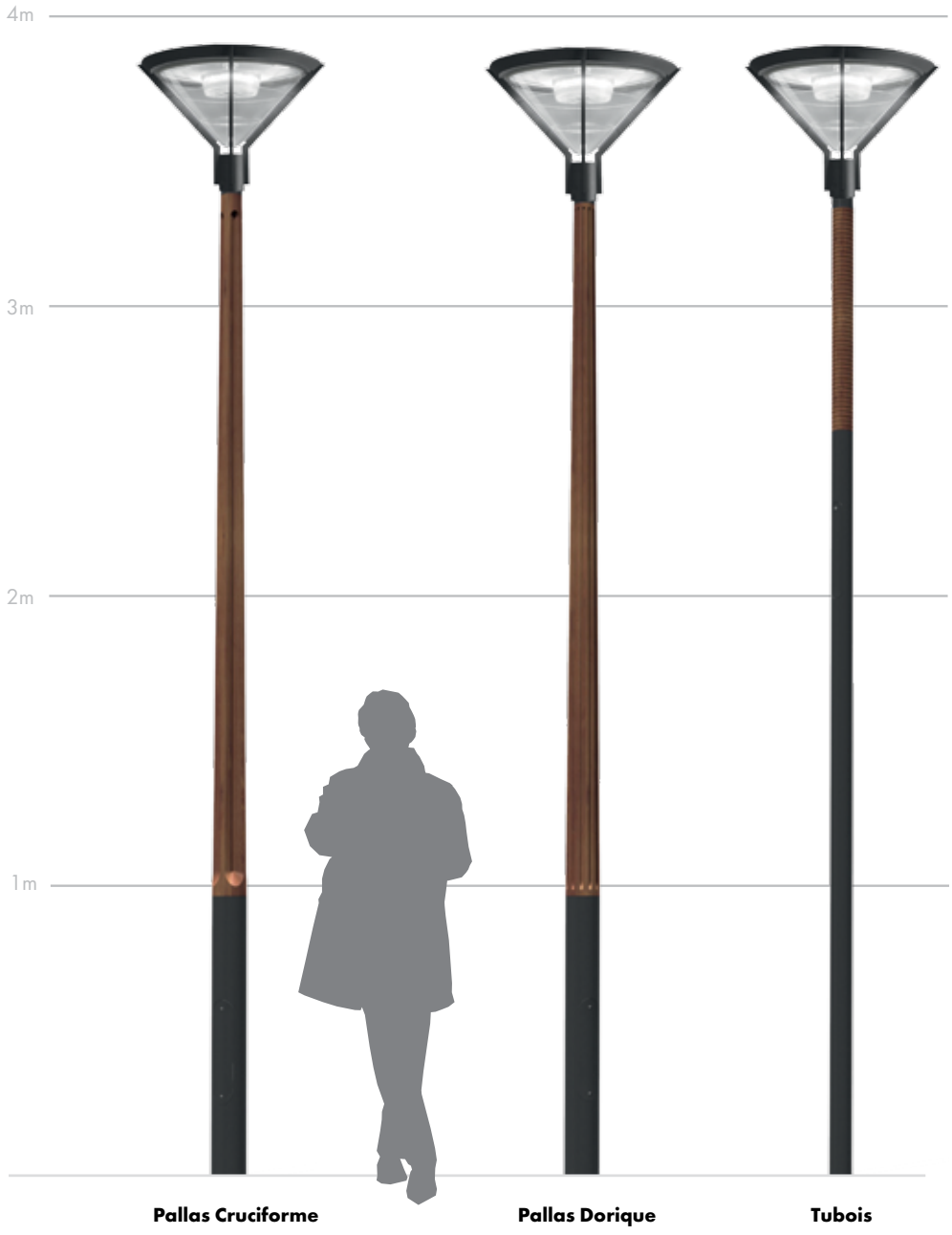
▲ Conseil Général de Chartres (28), France

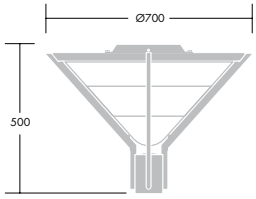
Post top lantern with prismatic crown for reduced glare and distinctive appearance

- Available as LED version (up to 40W) or for discharge lamps (up to 100W)
- Choice of two light distributions: street or symmetrical
- Power reduction as standard to optimise energy consumption
- Complete family with wall-mounted version and matching poles

Materials and finish

Body: die-cast aluminium LM6
Canopy: spun aluminium
Exterior finish: powder coated anthracite grey (close to RAL 7043)
Interior finish: white RAL 9016
Diffuser: UV stabilised clear PC
Mirrors (street lighting): high reflectivity anodised aluminium
Retaining screws: stainless steel





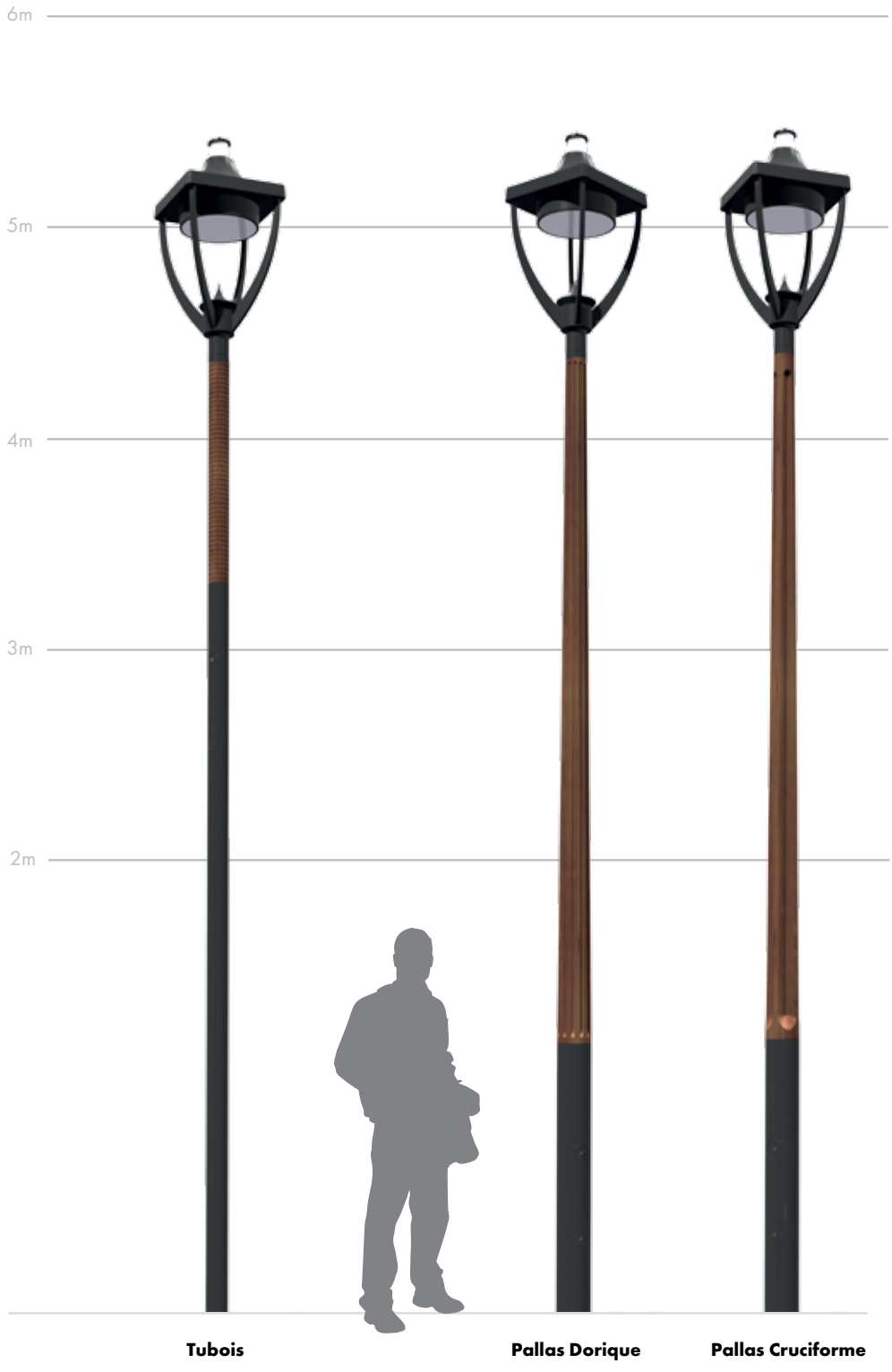
Legend

EN 60598 | IK08 | T_a25 | IP65 | CE |

www.thornlighting.com/LGNC

MIKO
MIKO

▲ Schwindratzheim (67), France



Classic post-top or suspended lantern with high performance optic

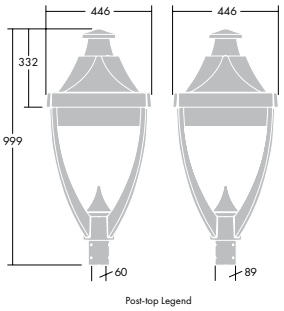
- Attractive cohesive design with four bracket arms in post-top and suspended versions
- Compatible with conventional and ultra modern light sources (LED and CosmoWhite)
- Additional energy saving solutions with autonomous power reduction and Dali dimming
- Post-top lantern for standard Ø 60mm spigot and available with or without upper light dome.

Materials and finish

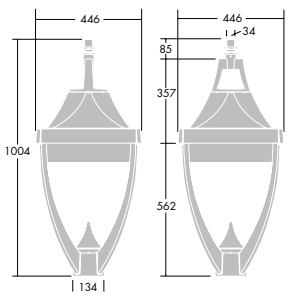
Body: die-cast aluminium, powder coated texturised grey (close to RAL 7043)

Enclose: toughened flat glass

Reflector: highly reflective anodised aluminium (HID version)



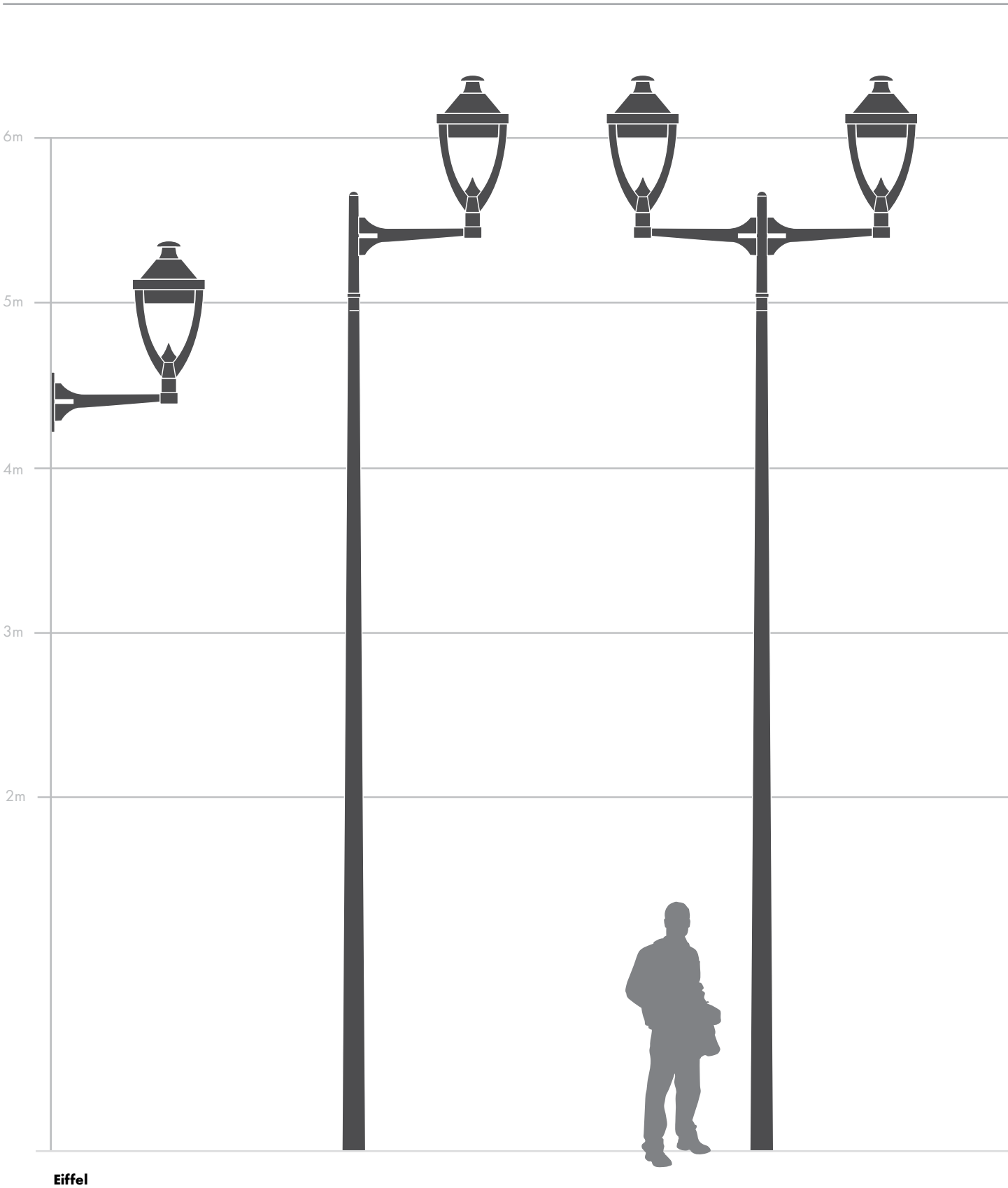
Post-top Legend



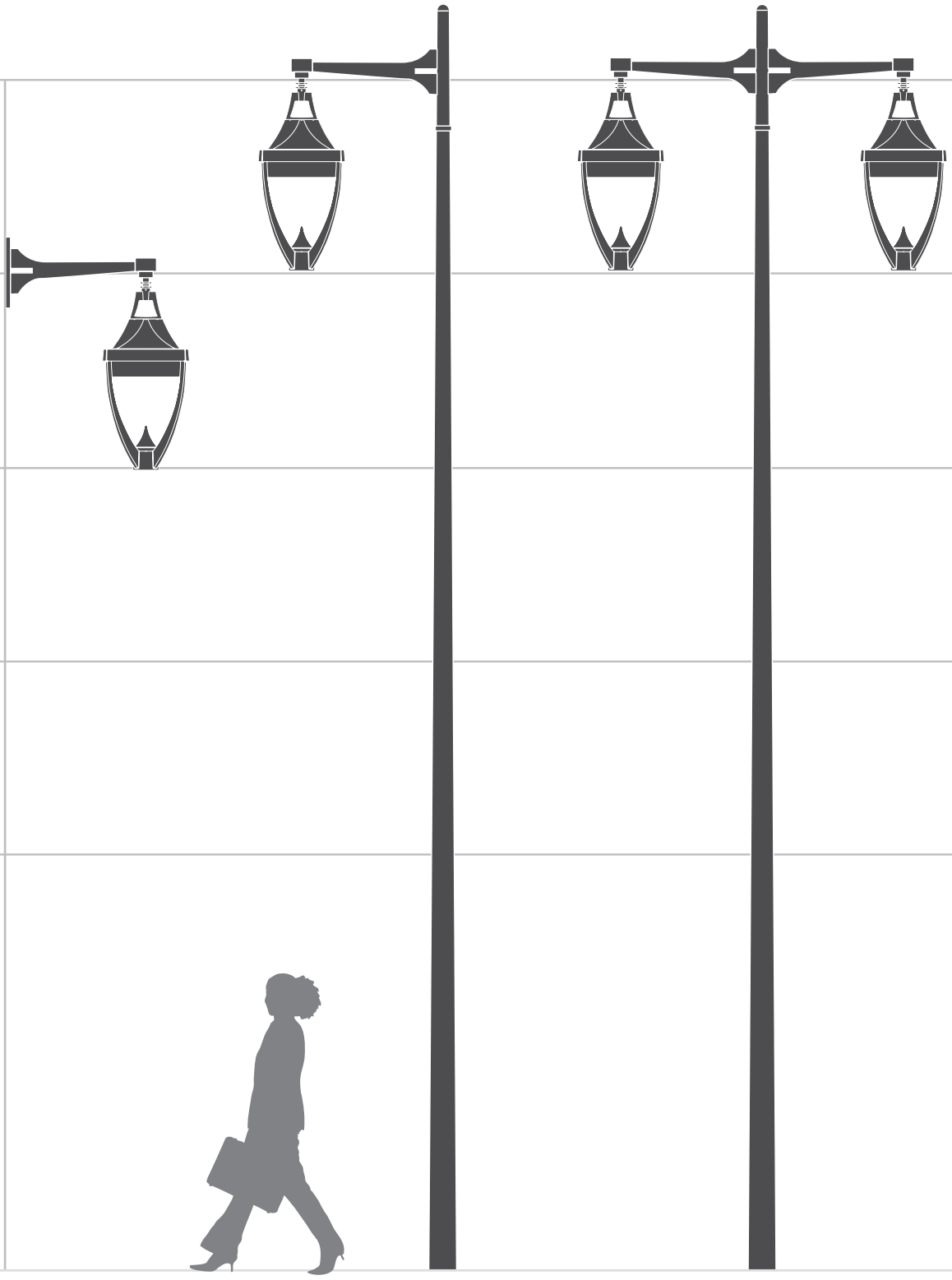
Suspended Legend

Legend

www.thornlighting.com/LGNC



Eiffel

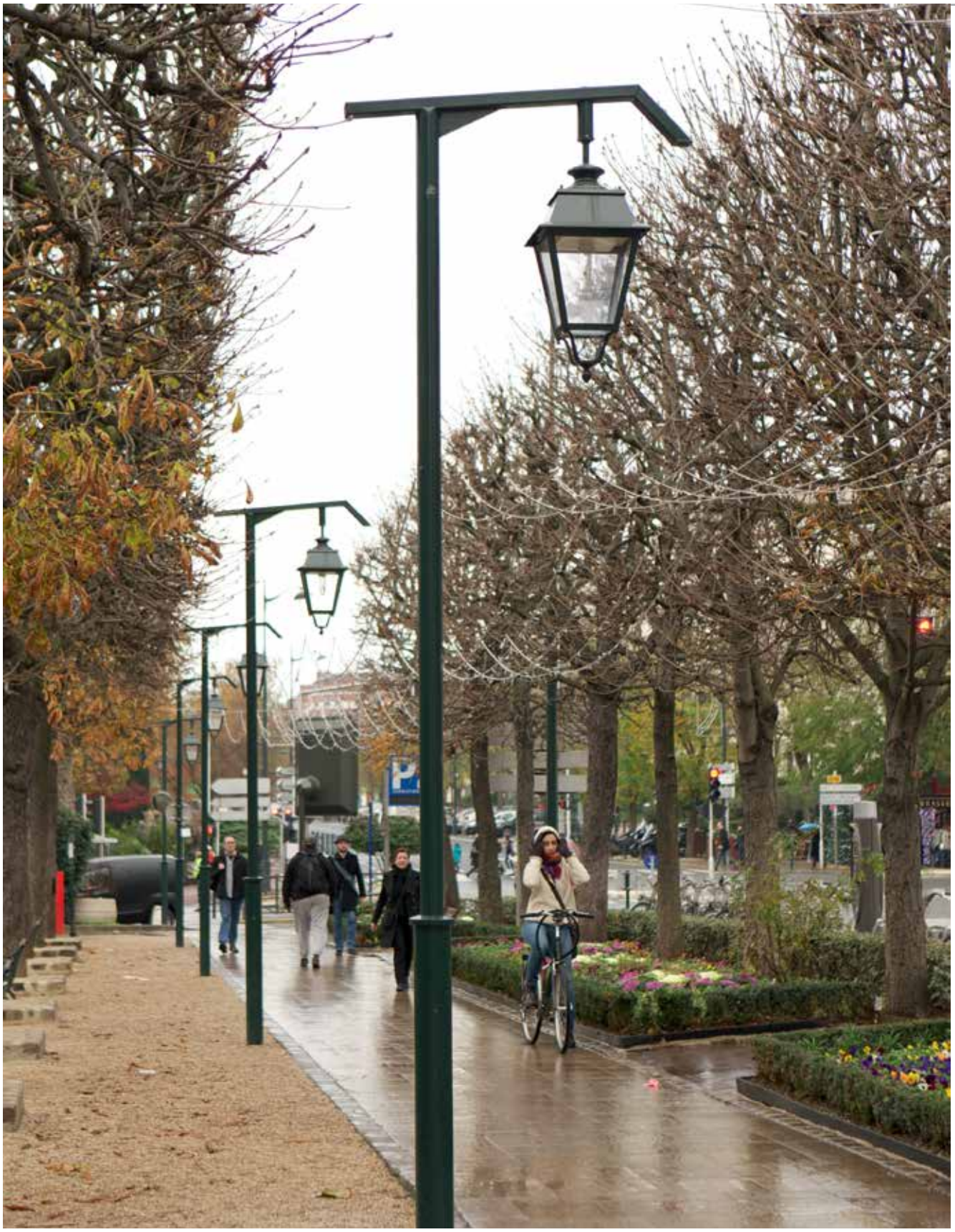


Eiffel

EP 145

CE EN 60598 EN 13201 IK08 IP66 T_a25 | www.thornlighting.com/EP14

EP 145 LED Bougival (78), France



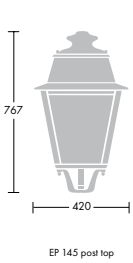
▲ **EP 145** sur mât Saint-Mandé, Place Charles Digeon, Saint-Mandé (94), France

A 19th Century style lantern providing a modern, robust and efficient lighting solution for the renovation of rural areas and historic districts

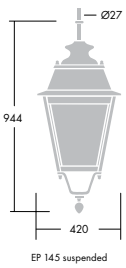
- Conventional lantern in black or real copper finish, with matching poles, arms and brackets for blending perfectly into the environment
- Compatible with LED light sources and discharge lamps
- Version with effective and efficient street optic that reduces glare and avoids obtrusive light.
- LED extended lifetime reduces operating costs and avoids the need for conventional lamp replacement
- Simple quick post-top or suspended installation to meet various urban and residential applications.

Materials and finish

Lantern body: stainless steel, black (RAL 9005) or copper finish specially treated against corrosion
Canopy: GRP/Polyester – black (RAL 9005) or copper finish
Seal: EPDM
Cover:
LED version: 5mm thick toughened glass
HID version: clear bowl or acrylic water droplet effect bowl



EP 145 post top



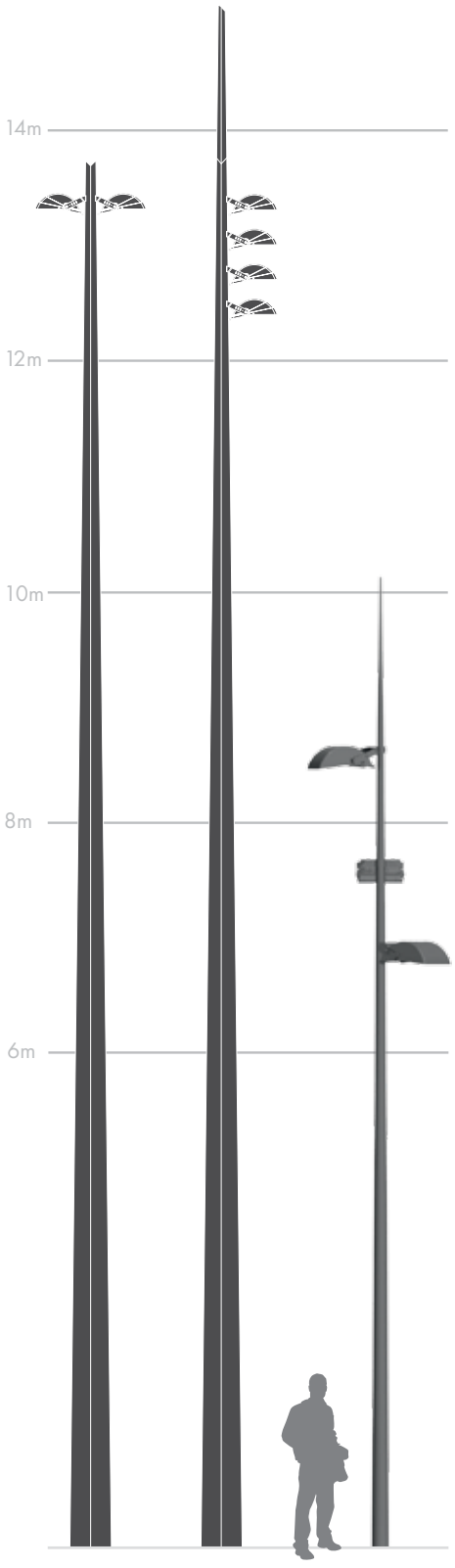
EP 145 suspended

Areaflood

EN 60598 | IK08 | IP66 | T_a35

www.thornlighting.com/AFLD

10-14m

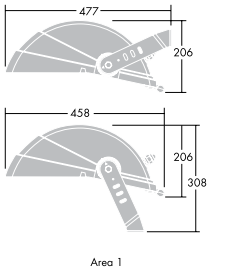


Multi-purpose floodlights offering high quality optical control and performance

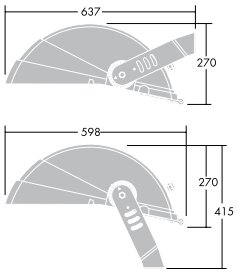
- Two floodlight sizes with a wide range of power options (up to 600W)
- Optical system with built-in visor for accurate flux control and reduced obtrusive light (0 cd at 90°)
- Autonomous power reduction and optional hot restrike system
- Many optical accessories (colour filters, louvre, wire guard) and installation accessories (top mounting bracket, decorative stirrup)
- Also compatible with indoor applications

Materials and finish

Body: die-cast aluminium AS12, powder coated anthracite grey finish
Gasket: Silicone
Hinges: PA 6.6 20% filled with glass fibre
Gear housing: PA 6.6 30% filled with glass fibre
Gear housing cover: polypropylene
Reflector: highly reflective pre-anodised aluminium
Cover: 5mm thick toughened flat glass
Accessories: metal frame, similar finish to body
Filters: self-tinted coloured glass



Area 1



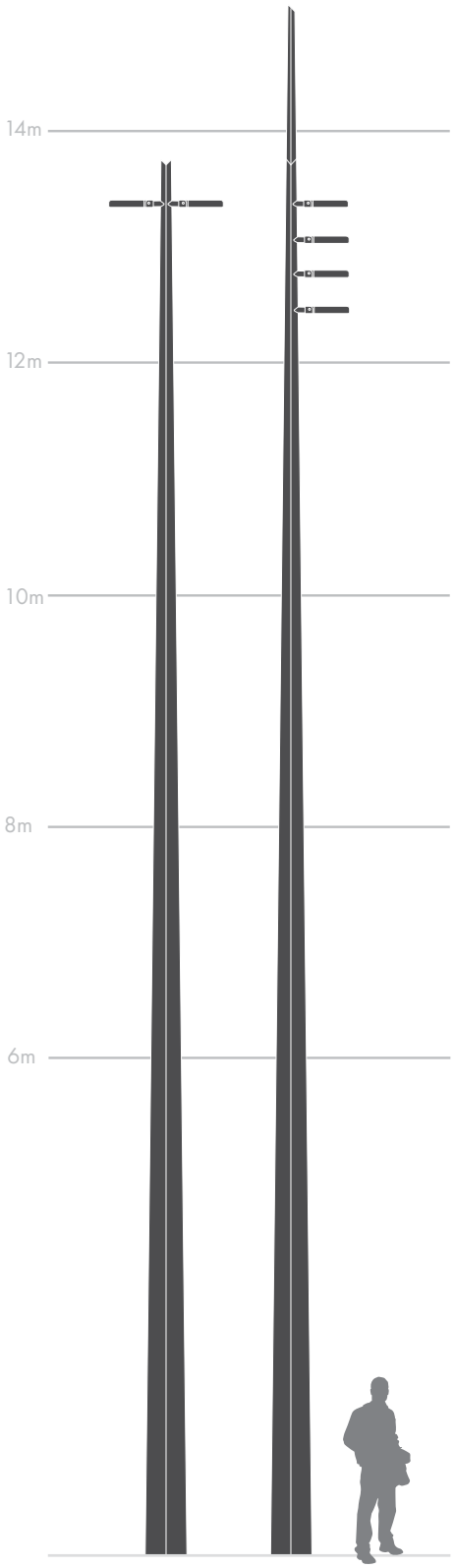
Area 2

Olsys Area

CE | EN 60598 | EN 13201 | IK08 | IP66 | T_a -25 +50

www.thornlighting.com/OSYS

10-14m

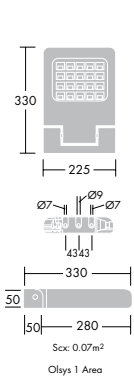


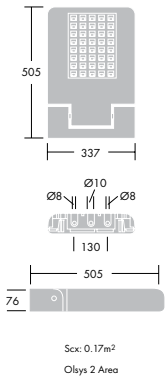
Robust, versatile and efficient LED floodlights for lighting large outdoor and indoor spaces

- Wide range with two sizes, four wattages and two colour temperatures. Three mounting options with a -90° to +90° adjustable tilt
- Overall costs reduced by an advanced thermal control system, for an extended life up to 80,000 hours at 25° with 70% maintained luminous output
- Tough weatherproof die-cast aluminium IP66/IK08 with 10kV overvoltage protection
- Minimalist luminaires, poles and brackets coordinated with other luminaires in the Olsys range to blend into the environment Olsys Area2 peut également être utilisé à l'intérieur de grands halls.
- Complete illumination system solution with Olsys Street and Olsys Illum, covering lighting of facades, car parks and service lanes.

Olsys Area2 can also be used inside large halls.

Materials and finish
Body: die-cast aluminium (AS9U) powder coated silver grey (close to RAL 9006)
Covers: UV stabilised clear polycarbonate (size 1) or tempered flat glass (size 2)
Optics: polycarbonate (size 1) or highly reflective anodised aluminium mini-reflectors (size 2)
Retaining screws: stainless steel





Illumination

Palais des Papes, Avignon, France (Lighting design and photo: Noctabene - Christophe Canadell)

Alumet

CE | EN 60598 | EN 13201 | IK08 | IK10 | T_a25 | IP66

www.thornlighting.com/ALUS

Allée Robert Doisneau, Boulogne-Billancourt (92), France

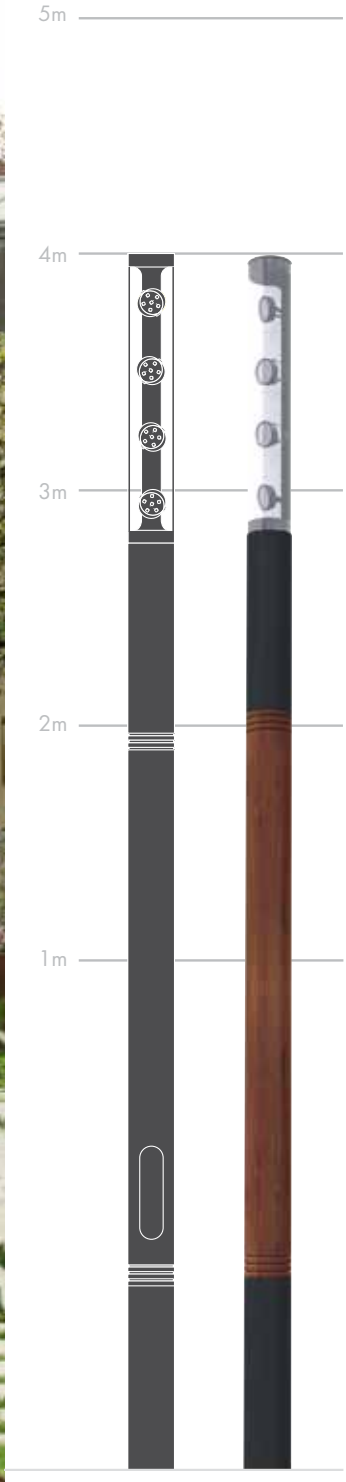
Alumet

www.thornlighting.com/ALUS

▲ **Alumet Stage**

▲ **Alumet Control Indirect** Acigné (35), France

▲ **Alumet Stage** Place de la République, Rennes (35), France



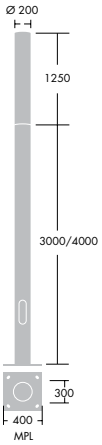
Family of stylish lighting columns that provide a comfortable night time ambience and attractive urban furniture during the day. Pure, clean lines give a discreet presence in the landscape. Equipped with conventional or LED light sources, Alumet Stage's opal or transparent top diffuses a soft white glare-free light, creates vertical illumination for pedestrian safety and provides possibilities for creating lighting effects.

Alumet Classic: safety and visual guidance switches on instantaneously with T16 fluorescent lamps. CRI>90.

Alumet Control Indirect: low upward light (ULOR <3%) to prevent obtrusive light.
A set of Fresnel rings directs the light output downwards. Decorative effect.

Alumet Control Direct: performance and efficiency (ULOR <2%) plus 180° slotted cut-off to reduce light spill.

Materials and finish
Opal diffuser : impact resistant acrylic
Top cover : die-cast aluminium
Column : extruded aluminium
Decorative cut-off : aluminium
Top/Column/Lampshield : powder coated sandy grey 150 finish (close to RAL 9006).
Other RAL colours on request



Contrast 2 LED

CE EN 60598 EN 13201 IK08 T_a25 IP66

www.thornlighting.com/CON2

Le Phénix Theatre, Valenciennes, France (Lighting design: Concepto)

Contrast 2 LED
www.thornlighting.com/CON2

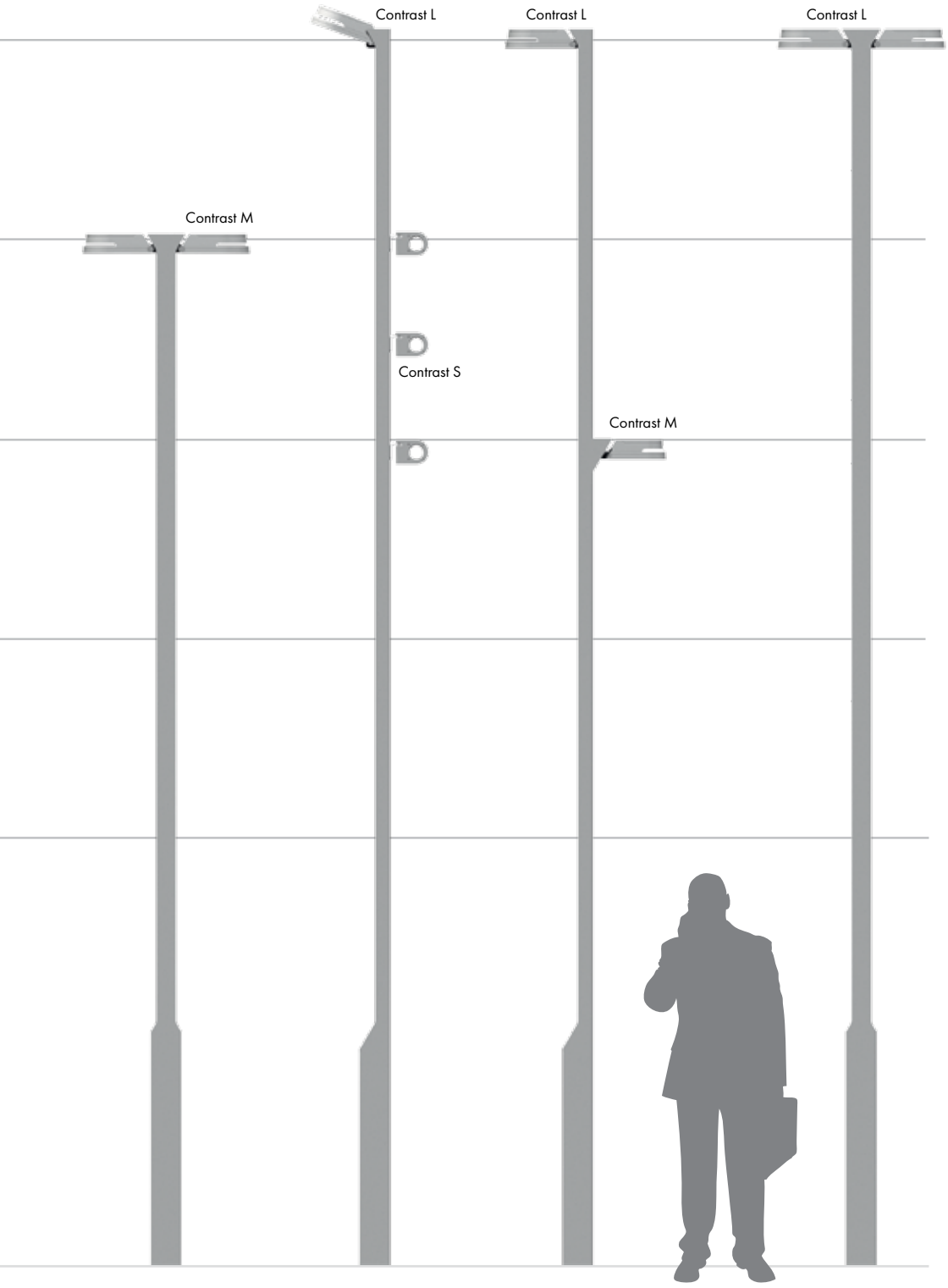
▲ Bridge d'Avignon (84), France, (Lighting design and photo: Noctabene)

▲ Ceramics Museum, Sèvres (92), France, (Lighting design and photo: Concepto)

▲ Contrast 2 LED range

Contrast 2 LED

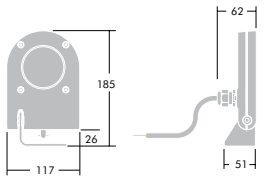
www.thornlighting.com/CON2



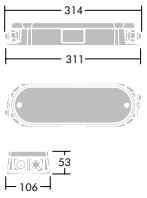
Compact unobtrusive floodlights with powerful beams and many effects from different light distributions combined with a wide range of accessories

- Compact design with integral control gear and DMX card (except for size Small)
- Available in three sizes (Small, Medium and Large) with a wide choice of LED colours, light distributions and accessories
- Manual adjustment of lumen output on Medium and Large floodlights for altering light intensity on site
- Choice of various holographic filters for shaping the light and creating static or dynamic effects without loss of output, while limiting glare

Materials and finish
Body and stirrup: die-cast aluminium, powder coated silver grey finish (close to RAL 9006)
Cover: 4mm thick toughened glass
Gasket: EPDM
Retaining screws: stainless steel



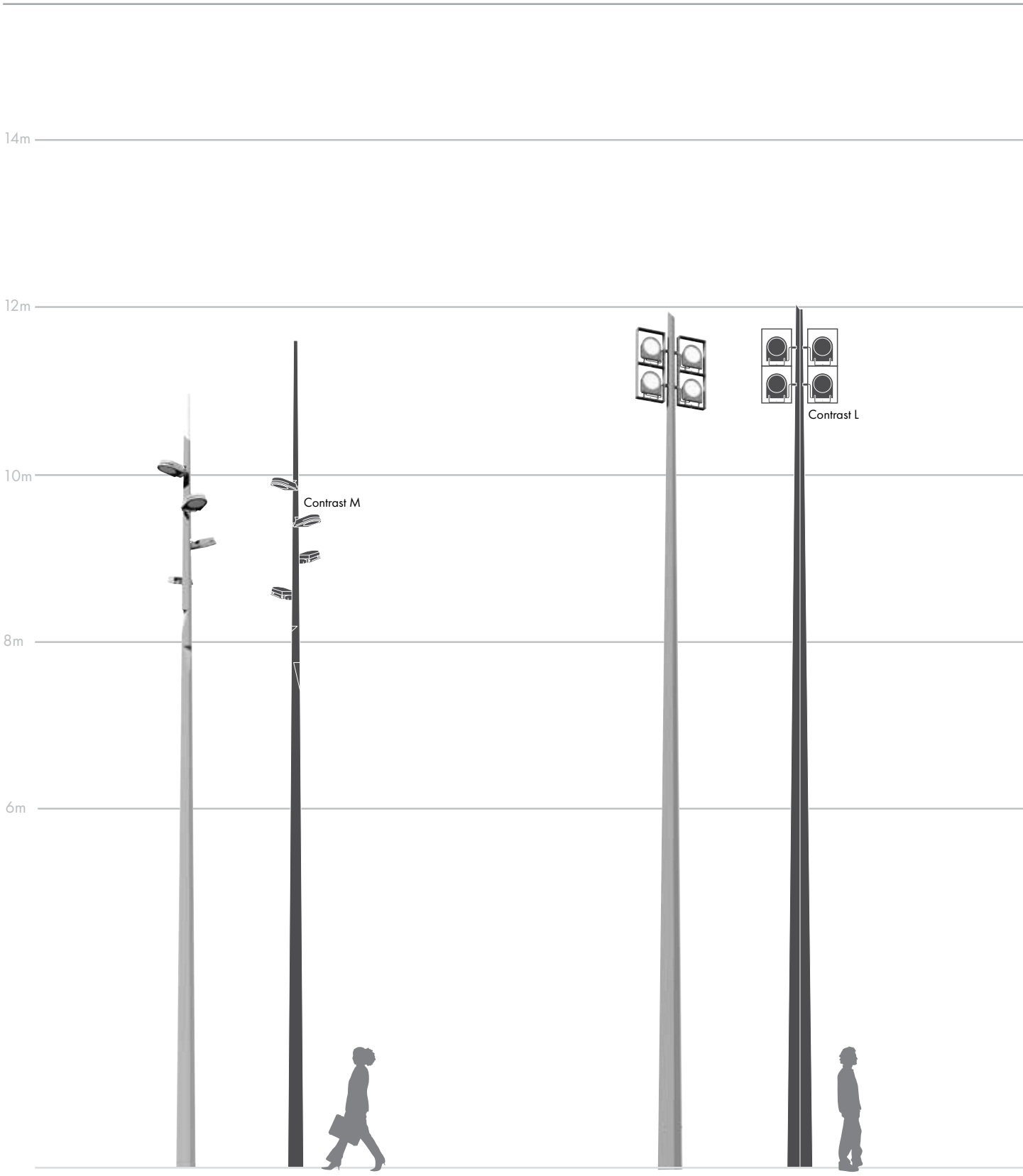
Size S

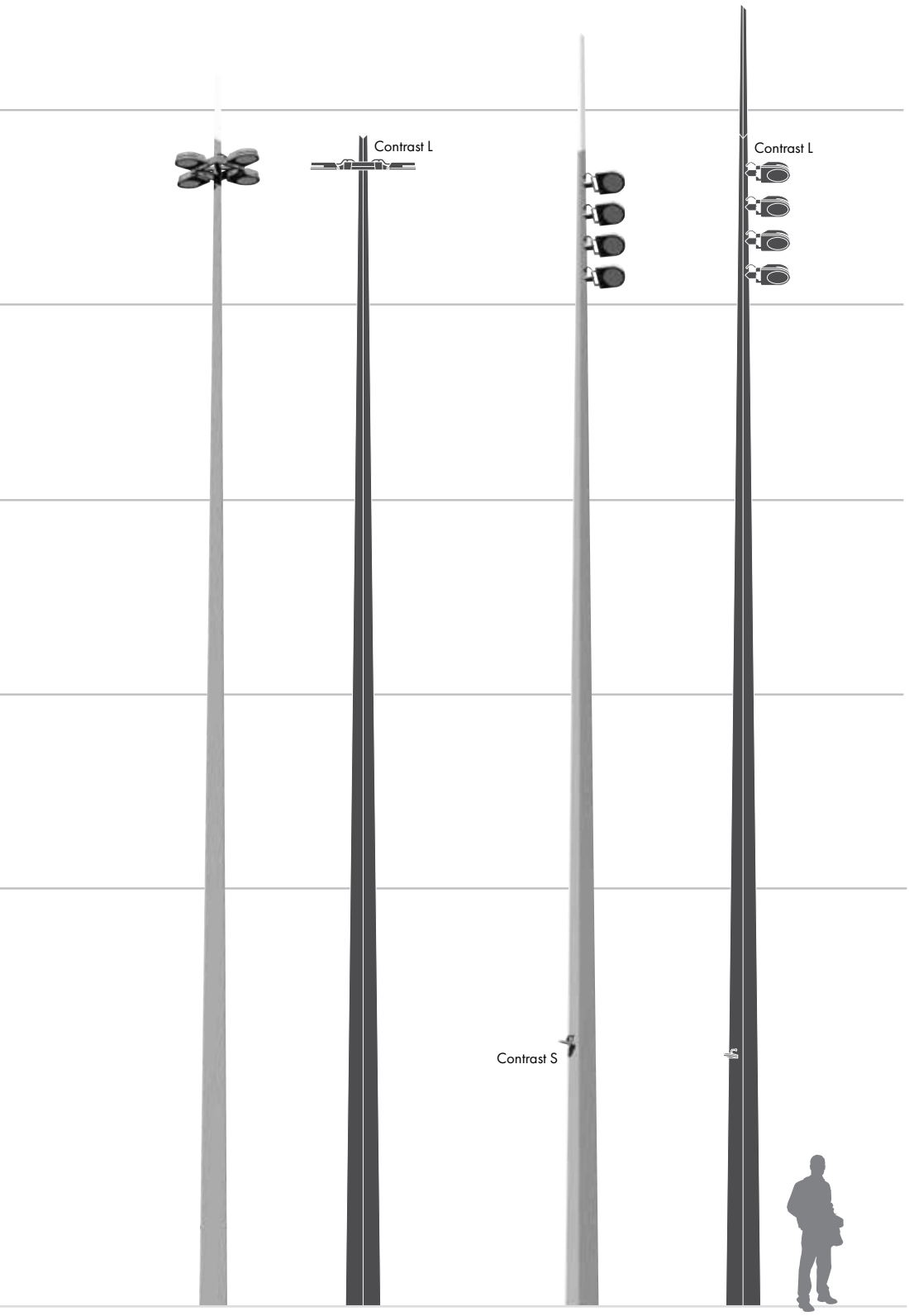


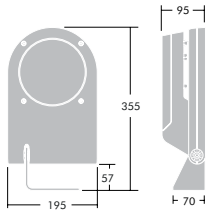
Control gear housing

Contrast 2 LED on pole (overhead view)

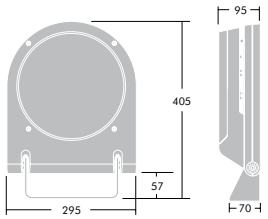
Contrast 2 LED
www.thornlighting.com/CON2



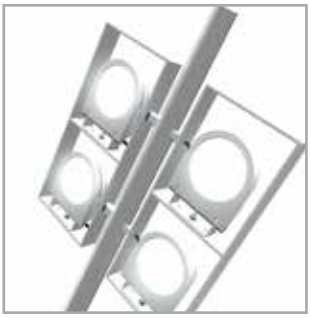




Size M



Size L



Contrast S - Details

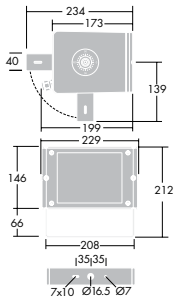
Qba

IK08 IP66 T_a25

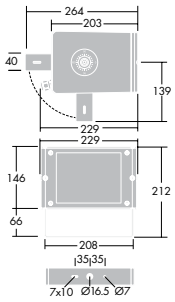
www.thornlighting.com/QBAL | www.thornlighting.com/QBLD

Qba's characteristic cube shape, with compact and simple lines make it unobtrusive when installed on-site, its mounting bracket being concealed by its sides. Qba is the ideal LED solution for illuminating close to façades and enhancing monuments and architectural details. Monochromatic or RGB full color versions, combined with the possibility of DMX connection, can bring about multiple lighting effects. The light beam can be sculpted and modified by a wide selection of accessories to add colours and lighting effects to projects.

Materials and finish
Body: die-cast aluminium, grey powder coated close to RAL 9007.
Other RAL colours on request.
Body screws: stainless steel.
Front lenses: 4mm toughened glass.
Accessory frame: die-cast painted aluminium.
Attachment retaining screws: nickel plated brass.



Sizr 1 Qba



Size 2 (Qba LED)

Palais des Papes, Avignon, France (Lighting design and photo: Noctabene - Christophe Canadell)

Olsys Illumination

EN 60598 | IK08 | IP66 | T_a -25 +50

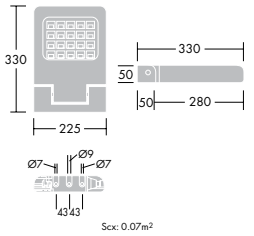
www.thornlighting.com/OSYI

Discreet, durable and efficient LED floodlight for creating decorative lighting effects

- No accessories required for the decorative lighting effects
- 90°/+90° tilt ensures you can place light exactly where you want it
- Exceptionally low cost of ownership with an optimised heat management system to provide a lifetime up to 80,000 hours (L70, 25°)
- Extremely durable full die-cast aluminium and IP66/IK08 rated package, complete with 10Kv surge protection

Materials and finish

Body: die-cast aluminium (AS9U) powder coated silver grey (close to RAL 9006)
Cover: UV stabilised clear polycarbonate (size 1)
Optic: polycarbonate
Retaining screws: stainless steel



Satin

CE EN 60598 IK08 IP67 960°C T_a25 |

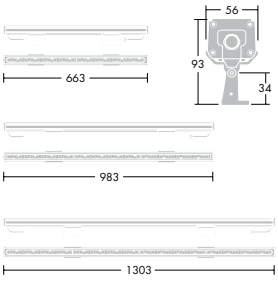
www.thornlighting.com/SATN

Concealed linear batten for highly effective façade illumination.

- Unobtrusive minimal cross-section
- Choice of light distributions, LED colours and batten lengths
- Juxtaposed installation for a uniform light beam
- Supplied pre-wired with built-in driver for simple quick installation

Materials and finish

Body: painted anodised aluminium
End caps: grey plastic
Cover: UV stabilised PC
Power supply cable: H05 RNF
Gasket: EPDM
Stirrup: stainless steel 304L
Other RAL colours, LED colours and special lengths on request. Upper shaft with simple mounting height adjustment, bevelled.



Quai d'Orsay Museum Steps, Paris, France (Lighting design: Agence ON)

Haline2

CE EN 60598 IK06 IP65 T_a -20 +50 |

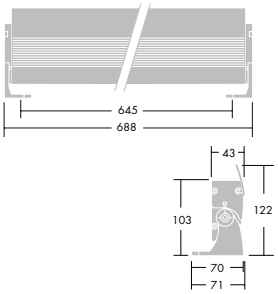
www.thornlighting.com/HALN

Discreet wall washer with visor for low glare illumination

- Discreet styling for easy integration with various architectures
- Pre-wired range for easy and quick installation
- Supplied complete with visor to avoid glare

Materials and finish

Body: anodised extruded aluminium, aluminium grey finish (close to RAL 9007)
End caps: anodised die-cast aluminium, grey finish
Stirrup: anodised die-cast aluminium, grey finish
Cover: toughened glass
H05RN-F 2 x 1mm² 0.35m long IN/OUT cable



E/Fact Slim

IP67 IK08 IK09

www.thornlighting.com/EFCT

Ile Monsieur – Saint Cloud, France (92)

▲ Eglise de Chambly, France (60)

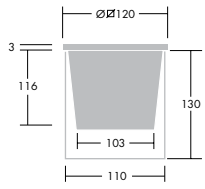
▲ Ile Monsieur – Saint Cloud, France (92)

A series of square or circular recessed walk-over luminaires compliant with EN60598-2-13: limited surface temperatures

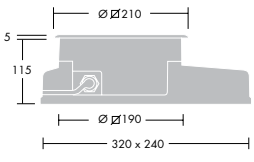
- Designed in accordance with the new contact temperature norm: <100°C for conventional versions and <40°C for LED versions.
- Sealed to IP67 with die-cast aluminium body. Wide choice of sizes, frames, mounting depths, light sources and control technologies to suit application
- Tilting angle adjustment for semi-frosted glass versions (except asymmetrical light distribution (A/S) and E/Fact1 18W TC-T)
- Integral power supplies, except E/Fact 0 20W QR-CBC which needs an external 12Vac and E/Fact 1 RGB

Materials and finish

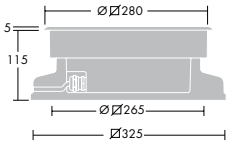
Bodies: die-cast aluminium, ENAB44100 (copper free) with powdered paint finish for high corrosion resistance
Frame: stainless steel AISI 316L (3mm thick) treated against corrosion or painted aluminium
Retaining screws: stainless steel
Front glass: toughened semi-frosted or frosted sodic glass.
Gasket: anti-ageing silicon
Recessing box: polypropylene
Cable: H07RN-F, 1m for size 00 and 0.5m for E/Fact Slim size 1, 2 and 3.
Holographic films: non-yellowing polycarbonate.
Low temperature version.



E/Fact LED

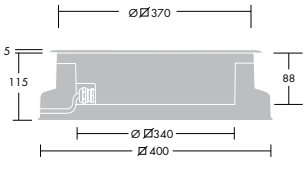


Size 1



Size 2

E/Fact Slim



Size 3

Mica

IP67 IK10

www.thornlighting.com/MICA

Mica
www.thornlighting.com/MICA

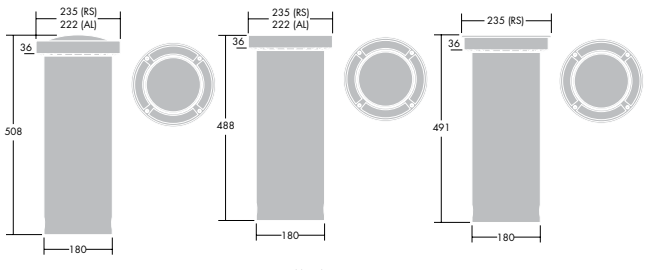
▲ Château des Longues Allées Park, Montauban, France (82)

▲ Hotel Dieu, Belleville, France

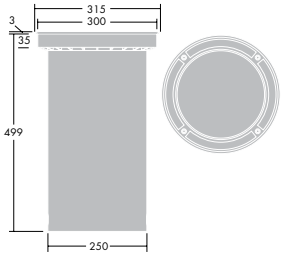
Illumination is easy with the Mica range of recessed walkover luminaires. Particularly robust, Mica will bear the weight of vehicles. Its four versions with increasing sizes and power guarantee the right product for the application, whatever the required lighting effect, including route guidance, accent lighting, illuminating foliage, statues, structures and building facades. With such a variety of light sources, optics, accessories and finishes, it's easy to find a suitable solution with Mica.

Materials and finish

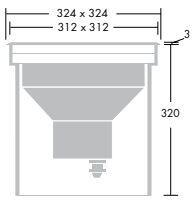
Bodies: die-cast aluminium, ENAB44100 (copper free) with powdered paint finish for high corrosion resistance.
Frame: stainless steel AISI 316L (3mm thick) treated against corrosion or painted aluminium.
Retaining screws: stainless steel
Front glass: toughened semi-frosted, clear or frosted sodic glass.
Gasket: anti-ageing silicon.
Recessing box: polypropylene.
Cable: H07RN-F 0.5m long for Mica Slim and Mica A versions and 0.8m long for Mica I and Mica B.
Holographic films: non-yellowing polycarbonate.
Low temperature version.



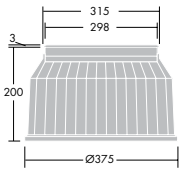
Mica A



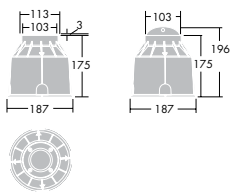
Mica I



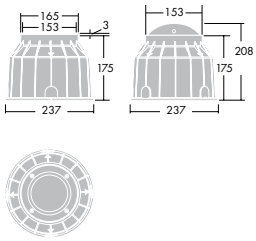
Mica B



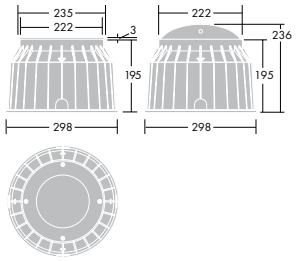
Mica Slim I



Mica Slim SST

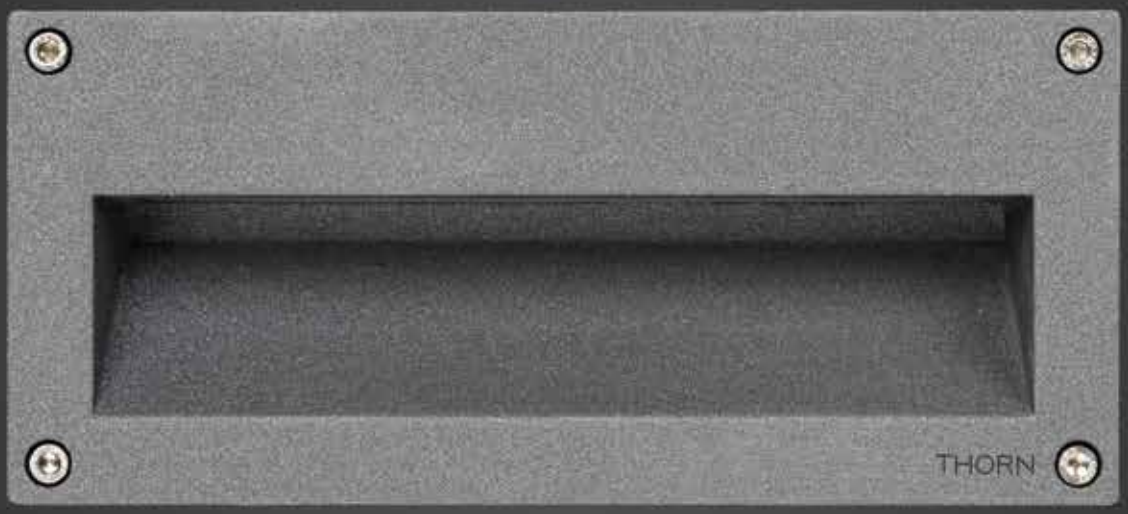


Mica Slim ST



Mica Slim AT

Linn



CE EN 60598 850°C IK08 IK10 IP65 T_a -15 +35

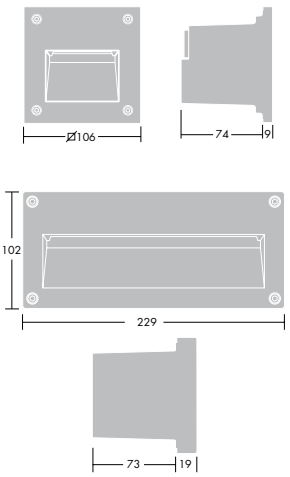
www.thornlighting.com/LINN

Complete range of modular wall-mounted luminaires providing a wide selection for all types of pedestrian walkways

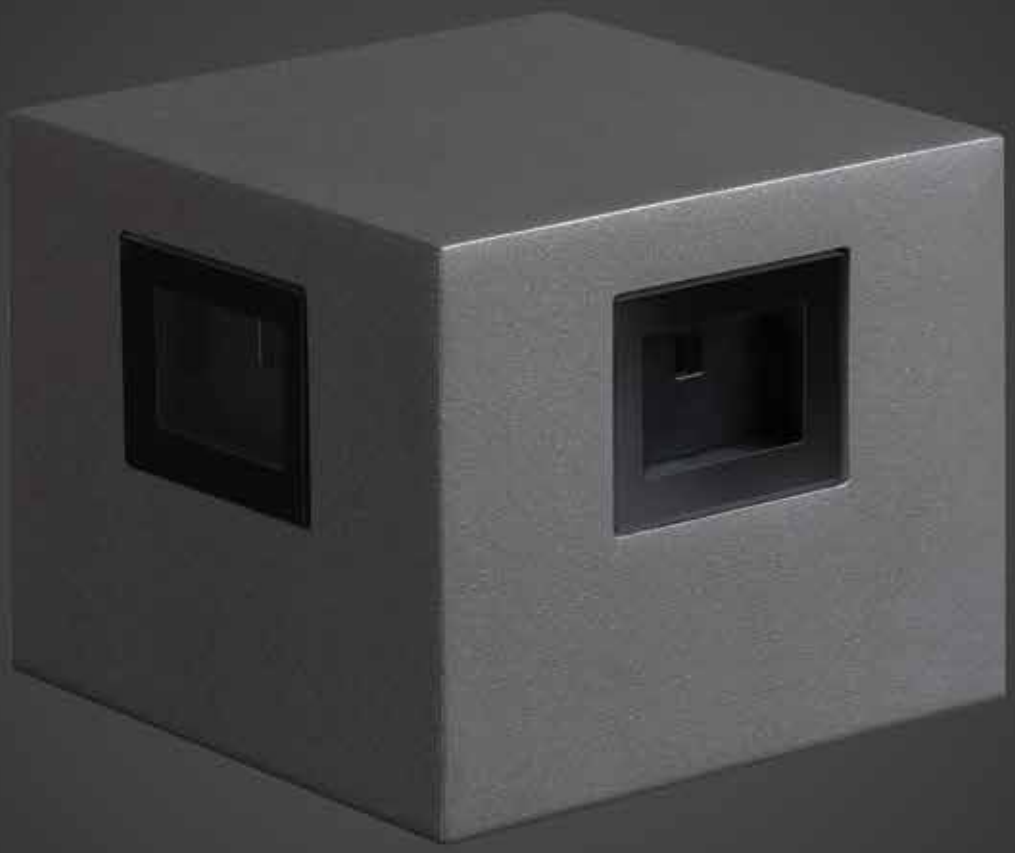
- The modular design offers an wide range of lighting possibilities
- With a compact body for easy integration with the pre-ordered recessed housing box
- Square or rectangular shape with a choice of four frames suitable for every environment

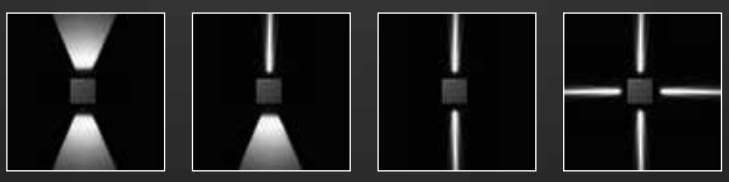
Materials and finish

Body: die-cast aluminium EN AB 47100 powder coated anthracite grey finish (close to RAL 7043)
Cover: toughened glass, 6mm thick for square version and 8mm thick for rectangular version
Recessed housing: polypropylene with 40% talc added and polystyrene cores
Gasket: Dutral
Retaining screws: stainless steel



Axyl





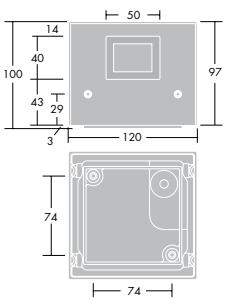
www.thornlighting.com/AXYL

Compact wall-mounted floodlights create impressive lighting effects on façades

- High performance LEDs provide good spacing with outstanding lighting effects
- Choice of four lighting effects
- Floodlights with all components in the same housing
- Compact cube-shaped housing blends into its environment

Materials and finish

Body: die-cast aluminium
Sandy anthracite grey finish EN AB 47100
Cover: 4mm thick toughened glass
Mounting support: polycarbonate
Gasket: silicone
Retaining screws: stainless steel



Cesar

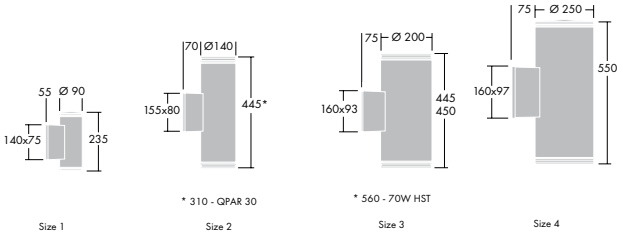
EN 60598 IP65 IK08

www.thornlighting.com/CESA

Cesar is a wall-mounted floodlight for illuminating façades with lighting that is both decorative and functional. Its simple vertical cylinder shape blends with the upwards and/or downwards light beams projected onto the façade. The wide choice of light sources and accessories ensures high quality lighting designs with narrow or diffused, symmetrical or asymmetrical effects, and colours (if required). The range is complemented by LED versions with their additional benefits: narrow coloured beam with low energy consumption and long life.

Materials and finish

Body and frame: die-cast aluminium EN AN4700 and extruded ENAW 6060 housing (copper free) with high corrosion resistance and powdered painted close to RAL 9007 with corrosion resistance. Other RAL colours available on request.
Reflector: pure aluminium.
Front glass: toughened glass, thickness 6mm - size 1, 8mm - sizes 2 and 3, 12mm - size 4.
Retaining screws: stainless steel
Gasket: silicone
Holographic films: non-yellowing polycarbonate



Lavaur Townhall, France (81)

EyeKon

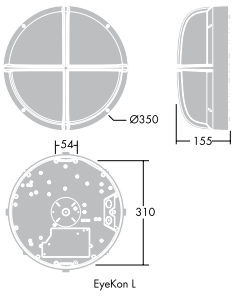
www.thornlighting.com/EYKL

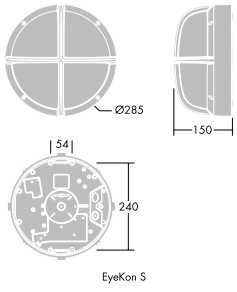
Vandal-proof IP65 bulkhead

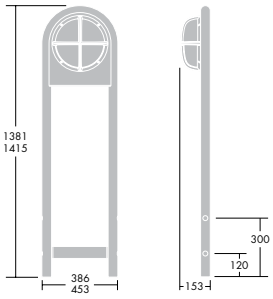
- Aluminium construction, sealed to IP65
- Designed to spread light sideways, allowing wider spacing without leaving dark areas
- Bezel, cross, visor and halo visor decorative features
- Highly efficient LED version (up to 1500lm) available with built in detection system and optional corridor mode

Materials and finish

Housing and decorative feature (cross, bezel and visor): die-cast aluminium
Diffuser: opal or clear polycarbonate
Reflector: aluminium
Gaskets: extruded silicone rubber







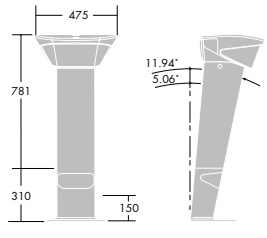
Orus

www.thornlighting.com/ORUS

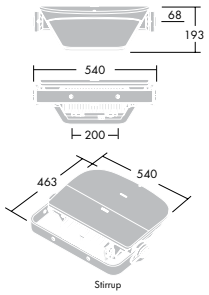
A new way to design a lighting installation! Orus is an innovative low-mounted (0.90m) shallow beam street luminaire. With Orus it's now possible to design a road free of lighting poles where direct light provides effective, efficient and comfortable lighting with minimal energy consumption and simplified installation and maintenance operations. Orus meets the requirements of projects where conventional lighting installations (with pole, bracket and lantern) are unsuitable, including in urban environments. Includes wood or Ductal concrete bollard options.

Materials and finish

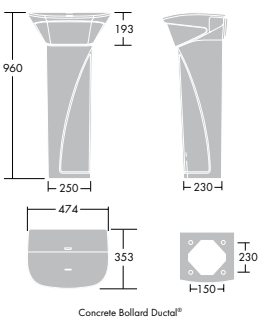
Body: die-cast aluminium
Bollard: 3mm steel powder coated grey (RAL 9006) or concrete, texturised dark grey
Enclosure: UV stabilised polycarbonate protected against graffiti and with extra scratch resistant treatment
Reflector: pure aluminium with high reflectance coating
Tamper-proof screws and bolts: stainless steel
Gaskets: silicon
Stirrup: die-cast aluminium



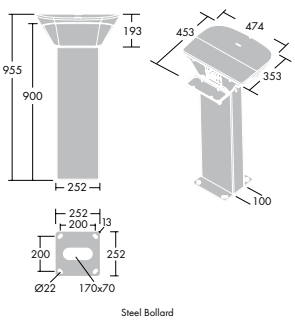
Wooden Bollard



Stirrup



Concrete Bollard Ductal®



Steel Bollard

Rangueil, Toulouse, France

Tea

EN 60598 IP65 IK10 650°C

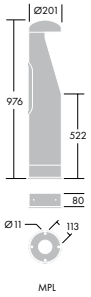
www.thornlighting.com/TEA1

Stylish and sturdy bollard enhances urban spaces

- Contemporary design which blends into the environment
- Robust reliable construction, IK10 impact resistance and vandal resistant
- Efficient and durable LEDs requiring little maintenance
- Efficient asymmetric light distribution compatible with the interministerial decree governing disabled access (PMR) and ULOR = 0% to limit obtrusive light.

Materials and finish

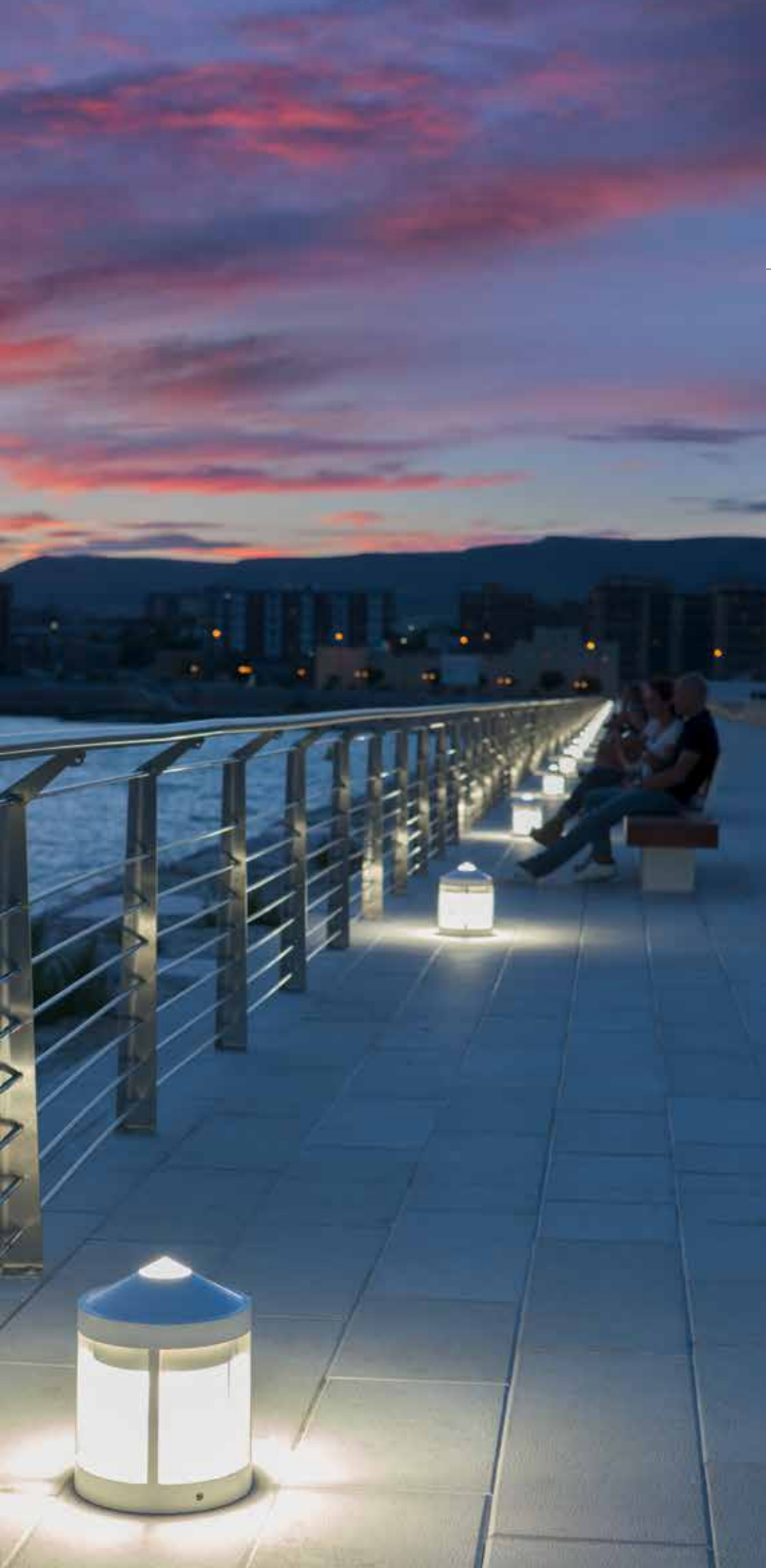
Body and bezel: stainless steel, electo-plated zinc
Diffuser: clear 5mm polycarbonate plate
Body and bezel colours: black (RAL 9005)



Seichebrières, France (45)

Promenade

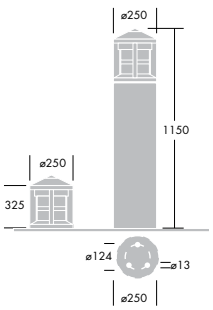
www.thornlighting.com/PMLD



This bollard's simple pure lines imply strength and harmony. The enhanced, uniform and glare-free distribution of this functional white lighting contributes to pedestrians' comfort. LED versions offer customisation possibilities in terms of colours, reliability and reduced operating costs. Promenade LED offers bollard or parapet versions. It provides an effective security solution for areas where direct switch-on with 100% of luminous output is required.

Materials and finish

Head and body: powder coated die-cast aluminium LM6, anthracite (close to RAL 7024)
Top cone: opal polycarbonate
Diffuser: clear polycarbonate with internal sand blasted anti-glare band



Adelie Bollard

IK10 IP66

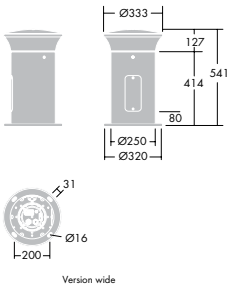
www.thornlighting.com/ADLB

Elegant vandal resistant bollard with high performance optic offering a comfortable light and energy saving solutions

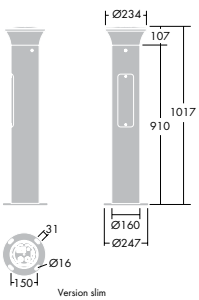
- Best in class LED optic provides a comfortable, low glare direct and indirect light with asymmetric or symmetric distribution, sympathetic to users with a lower viewing angle
- Durable and vandal resistant (IK10 40 joules for the slim version)
- Bi power dimming and presence detection options reduce energy consumption
- Available in two sizes – slim and wide – with the wide version also suitable for use as street furniture
- Optional decorative RGB colour band
- Complements the distinctive Adelie post top lantern
- Slender slim size with light distribution compatible with the interministerial decree governing disabled access (PMR)

Materials and finish

Column and base: aluminium (EN AW 6060)
Canopy: die-cast aluminum (EN AC 47100)
Diffuser: clear anti UV Polycarbonate
Reflector: white Polycarbonate
Gear Box: Polypropylene
Canopy and Column colour: powder coated dark grey (close to 7043)



Version wide



Version slim

D-CO LED Bollard

CE EN 60598 IK10 IP65 T_a25

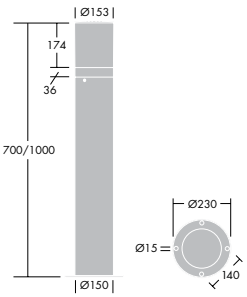
www.thornlighting.com/DCOB

A timeless bollard offering comfortable visual guidance

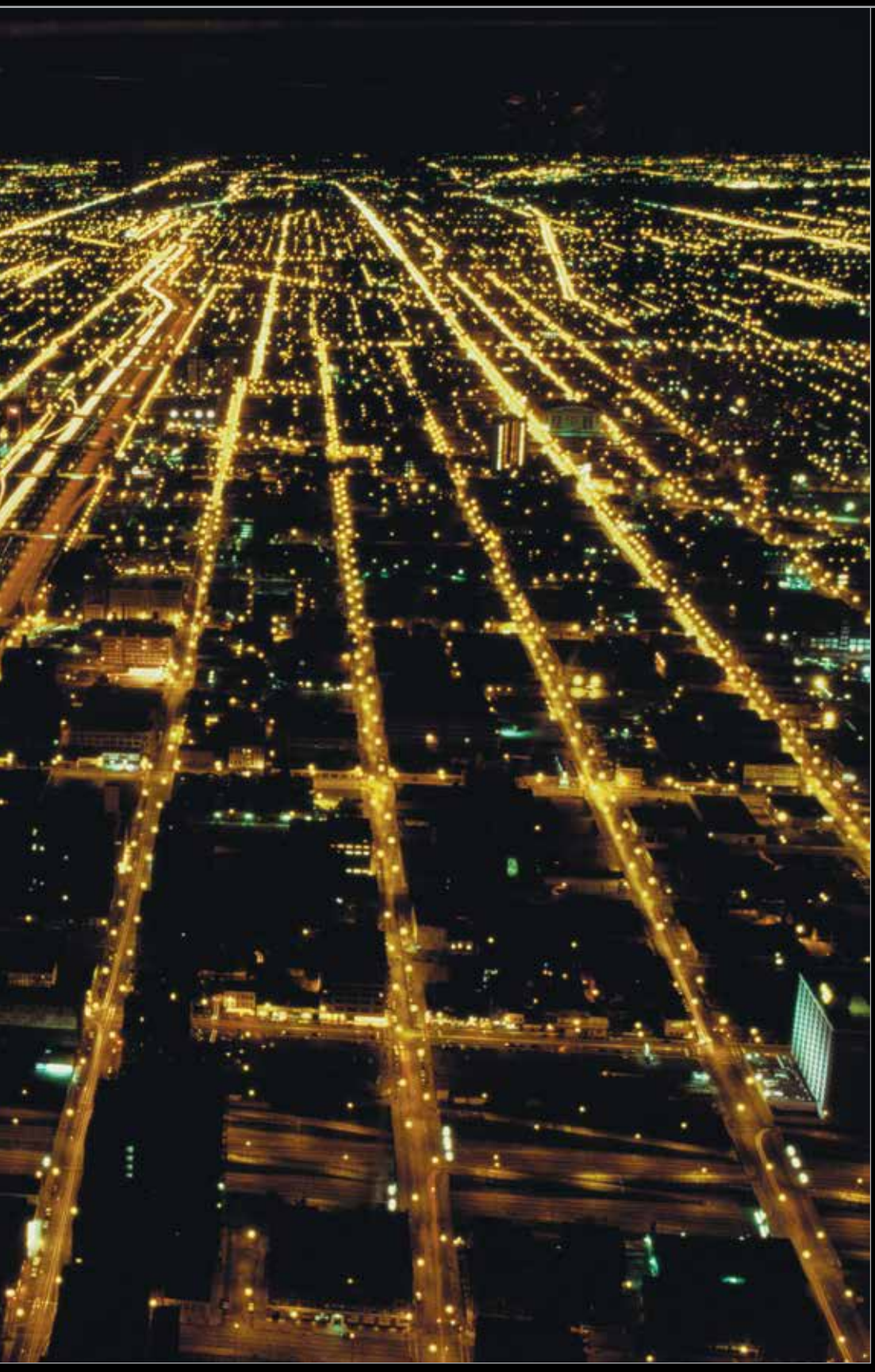
- Comfortable white light with no glare provided by a semi-opal anti-UV PC diffuser
- Suitable for any application thanks to high specs and two heights
- 60,000 hour lifetime (L80, 25°) ensures low maintenance costs
- Flange mounting, compatible with root spikes

Materials and finish

Top and body: aluminium, powder coated anthracite grey finish (close to RAL 7043)
Diffuser: UV stabilised semi-opal polycarbonate



Lighting control



Switching off the lights saves energy! Of course switching off the lights would be effective in saving energy, but safety would be compromised. Did you know?

- **Power reduction and presence detection,**

satisfy safety guidelines and regulatory requirements while bringing **energy savings**.

LED technology has major advantages: Instantaneous **switch-on with 100% available light**. LED gives a reassuring light.

Its **colour rendering** is vastly superior to that of conventional lamps and enhances the **attractiveness of urban areas**.

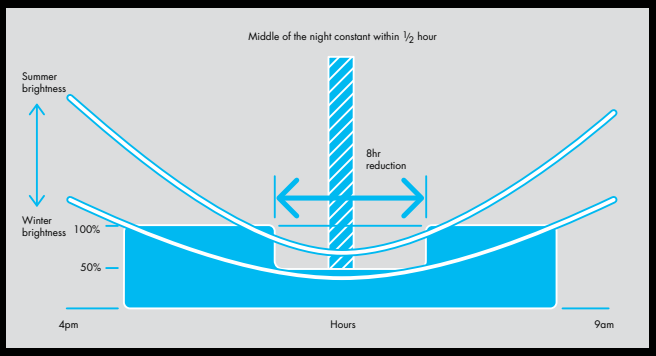
Centralised solutions: managing the lighting of a street, district or town; monitoring energy consumption and programming maintenance visits, thanks to data fed back to a central control point.

Power reduction

As the first stage in lighting management, reducing the power of lanterns brings a 20 to 40% energy saving.

Full power :
100% lumen output

Reduced wattage :
50% lumen output



50% light reduction, integral clock with automatic adjustment

Presence detection

The versatility of LED technology and the use of presence detection now makes it possible to manage public lighting in accordance with traffic frequency.

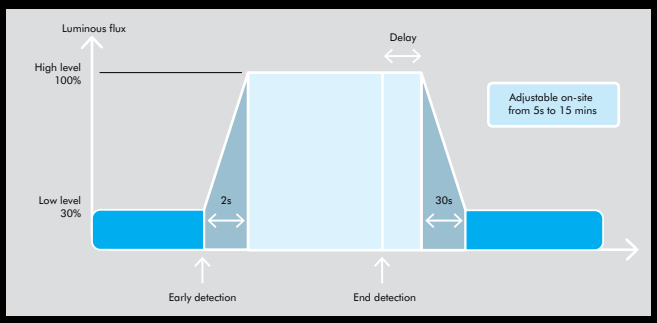
We offer two operating modes : ON/OFF switching or change from stand-by to full power. With different detection modes, infrared or high frequency, our solutions meet all your requirements.

Legend LED on detection sleeve

Luminaire with integral cell

Change from stand-by to full power

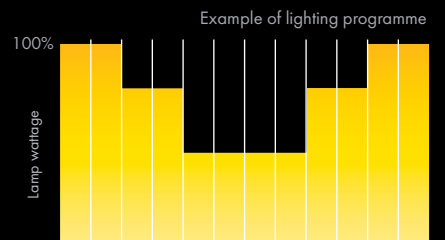
As the preferred solution, this mode maintains a permanent minimum level of illuminance and brings a feeling of safety.
When presence is detected, the level of illuminance changes instantaneously to its maximum for safe movement.



Centralised lighting control systems

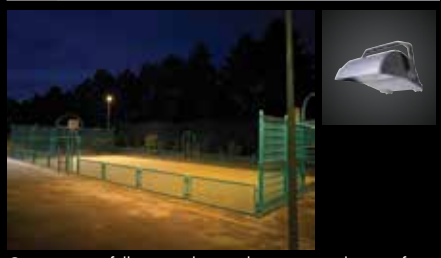
1 Motorway/main road

Dimming according to traffic conditions

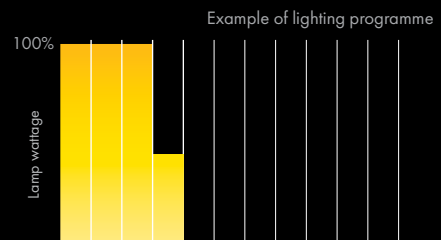


Performance table	
Energy savings	★ ★ ★ ★
Maintenance cost savings	★ ★ ★ ★
Comfort and safety	★ ★ ★ ★

2 Public playground

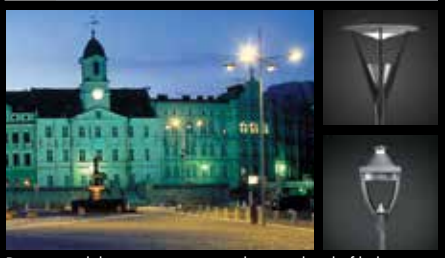


Operating on full power during playtime can also signify that closing time is approaching

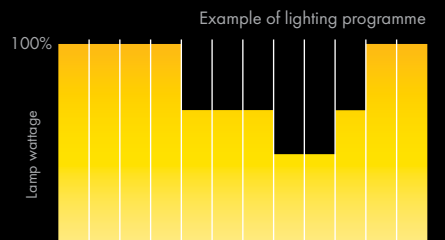


Performance table	
Energy savings	★ ★ ★
Maintenance cost savings	★ ★
Comfort and safety	★ ★ ★

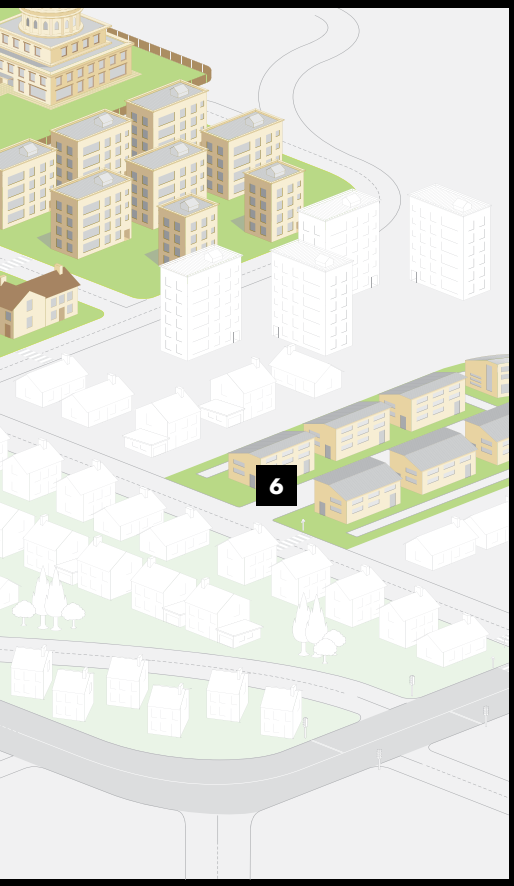
3 Town centre/pedestrian precinct



Dimming while maintaining an adequate level of lighting intensity and ensuring comfort and safety



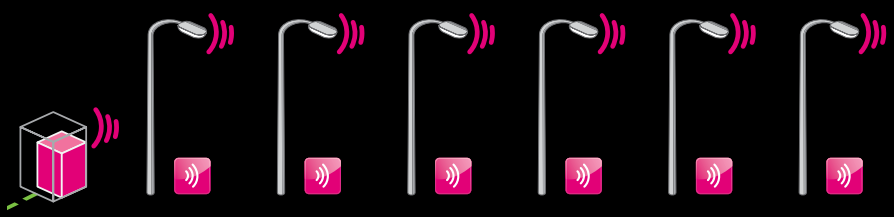
Performance table	
Energy savings	★ ★ ★
Maintenance cost savings	★ ★ ★ ★
Comfort and safety	★ ★ ★ ★



Thorn offers comprehensive remote management solutions for the monitoring and supervision of lighting installations.

Whether it's for public or private lighting installations or illuminations, you will always find the solution that meets your needs.

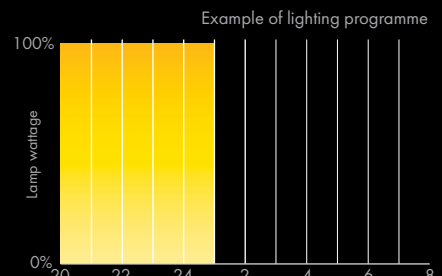
Example of an installation controlled by powerline



Example of installation managed by Radio-Fréquence

4 Illumination

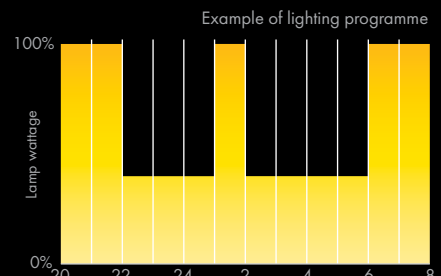
Extremely versatile system for easily adapting operating hours according to events



Performance table	
Energy savings	★ ★ ★
Maintenance cost savings	★ ★
Comfort and safety	★ ★

5 Docks/industrial areas

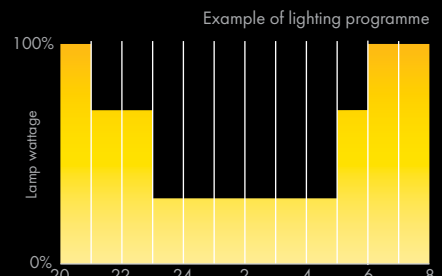
Possibility to link luminance levels with delivery schedules. It is also possible to regain control at any time.



Performance table	
Energy savings	★ ★ ★ ★
Maintenance cost savings	★ ★
Comfort and safety	★ ★ ★

6 Business park/campus

The system accompanies the workers at peak times and helps keep the area safe at night



Performance table	
Energy savings	★ ★ ★ ★
Maintenance cost savings	★ ★ ★
Comfort and safety	★ ★ ★ ★

Dynamic architectural lighting

From creating visual interest in urban spaces to electronically playing with light colours, lighting is always inventing new theatrical effects

To create and transmit emotions with electronic controls, the colour mixture is monitored for dosage and duration.

LEDs are the preferred light source for dynamic lighting. RGB LEDs enable the colour mixture to be produced at the very source of the light.

DMX helps create and control programmable lighting sequences according to the calendar

Thorn offers a comprehensive range of systems (Sensa, etc) suitable for all sizes of projects. The various linking systems: wired connection, radio, Internet etc., can be used to adapt communications to the project's configuration.

Technical support is available throughout the project (from design to commissioning). Please contact your local sales team for more information.

▼ Headquarters of Bouygues Immobilier, Issy les Moulineaux, France (92) (photos : Laurent Zylberman - Graphix Images)

▼ Ceramics Museum, Sèvres, France (92), (Lighting design: Concepto)

▲ Evry-Courcouronnes Station, France (91), (Lighting design and photos Agence Luminocité)

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