

PHILIPS

MileWide² LED

Public lighting



Product guide

Perfect integration in contemporary cityscapes





MileWide² LED

Performance and design in perfect balance

Today's cities offer a dazzling variety of environments – from intimate shopping streets to grand plazas, from busy residential areas to peaceful parks. A city never sleeps: there are always people on the move, and they need their streets and squares to be well lit, especially at night. Lighting helps give a city its character, it is a source of energy and life. And the new Philips MileWide² LED range was designed to do just that – now and into the future.

4

Introduction



6

Design

The idea behind
the design



Applications

A high degree of flexibility

8

12

Family range



Dedicated
complete sets

14

16

Standard
complete sets

Lighting performance

20

22

Application examples

24

In control

Connected lighting
Network controls
Stand alone controls



29

Dimensional drawings

30

Specifications

Main specifications
Specification table
Pole specifications
Bracket specifications



Complete solutions

that can elevate your street

The MileWide family of urban lighting products has long been valued by city planners for its excellent performance and stylish design. The new MileWide² LED series evolves this range and adds a second form factor: MileWide² LED Large, which can fit installation heights of up to 12 meters. MileWide² LED offers a newly redesigned set of luminaires that combine with poles and brackets to offer you complete solutions that can elevate your city center and streets, as well as the bridges and roads around your city.



High performance, high comfort

MileWide² LED lets city dwellers enjoy the best lighting performance, while focusing on their comfort and safety. The new design enhances urban lighting comfort by incorporating different innovations like a larger spacing between the LEDs and a new, improved lens shape. To further minimize lighting pollution, MileWide² LED uses flat glass to preserve the dark sky and optimize glare control (achieving 0 candela at 90°).



Designed to endure

Every aspect of the MileWide² LED new design was fine-tuned to improve its longevity. The LEDs' long lifetime ensure minimal maintenance, and the top-quality materials can endure all weather types in Europe. The aluminum housing and tempered glass achieve an IK08 mechanical resistance and an IP66 ingress protection. Also, transitions and product edges have been designed to minimize erosion and dust collection.



The idea behind the design

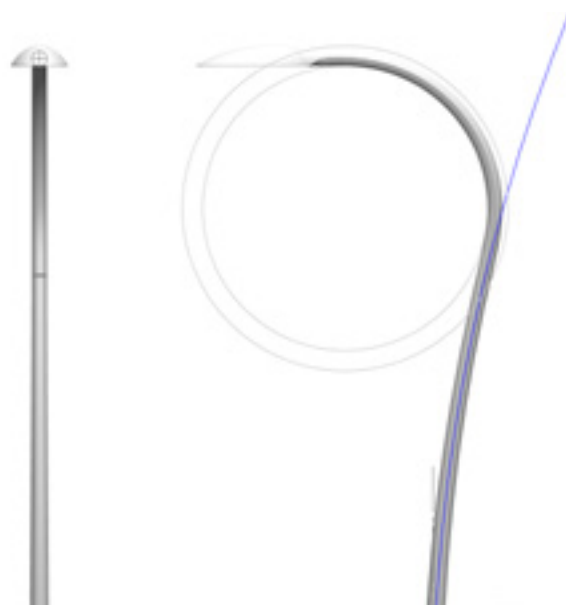
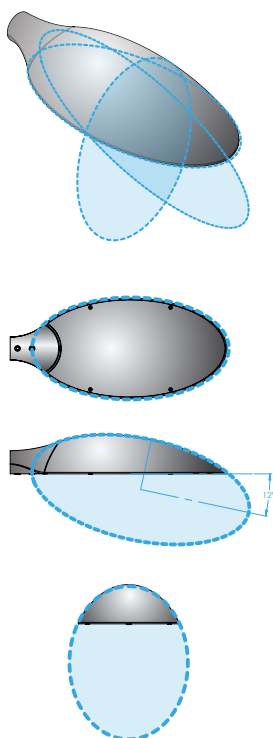


Stig Myler,
Holscher Design Agency

“Almost twenty years ago, we designed the first MileWide urban lighting solution. MileWide was the first system in the world to have a unified design language for signs, signals, park accessories and street lighting.” – Holscher Design Agency

Now that LED technology has found a mature place in the development of street lighting, we have created MileWide², exploiting the ultimate design freedom that LEDs offer. The result is a very discreet solution including not only the luminaire, but also several poles and brackets, all with clean lines radiating a strong character.

The initial principle of all our solutions is based upon the clean geometry of the luminaire design, built up of three ellipses of which one is slightly tilted corresponding to the light direction. This results in a clear shape, a minimum use of materials and clean lines that fit many urban environments and perfectly integrates into today's cityscapes.'



Applications

A high degree of flexibility

MileWide2 LED is a street lighting solution that combines design with high quality lighting performance. Designed around and dedicated to the latest LED technology, the MileWide2 LED range has a slimmer and smoother design that aesthetically fits into many different architectural contexts, and a high flexibility in terms of applications. Due to the new design of the LED board combined with renewed optics, MileWide2 LED offers you a solution with best-in-class lighting performance and maximized energy savings.

MileWide2 LED is part of our Urban Inspiration lighting portfolio. It incorporates all the necessary functional aspects of lighting whilst also having a strong focus on the emotional value of light. In this way, it helps to create the right ambience, enhance people's well-being, and make the city more livable. For every application we have a number of solutions that will inspire you and enhance your city, while also fulfilling all your specific requirements.

Traffic route

- Boulevard and avenue
- Main urban/access road
- Roundabout

City center

- Boulevard and avenue
- Side street
- Square, park and playground
- Roundabout
- Cycle path and footpath
- Shopping and pedestrian area
- Parking area
- Public transport area

Residential area

- Residential street
- Cycle path and footpath
- Roundabout
- Square, park and playground
- Parking area









Outdoor lighting

MileWide® LED

Applications

Family range



MileWide² LED

Side-entry
Ø 42 / 48 mm

Post-top
Ø 60 / 76 mm

MileWide² LED Large

Side-entry
Ø 48 / 60 mm

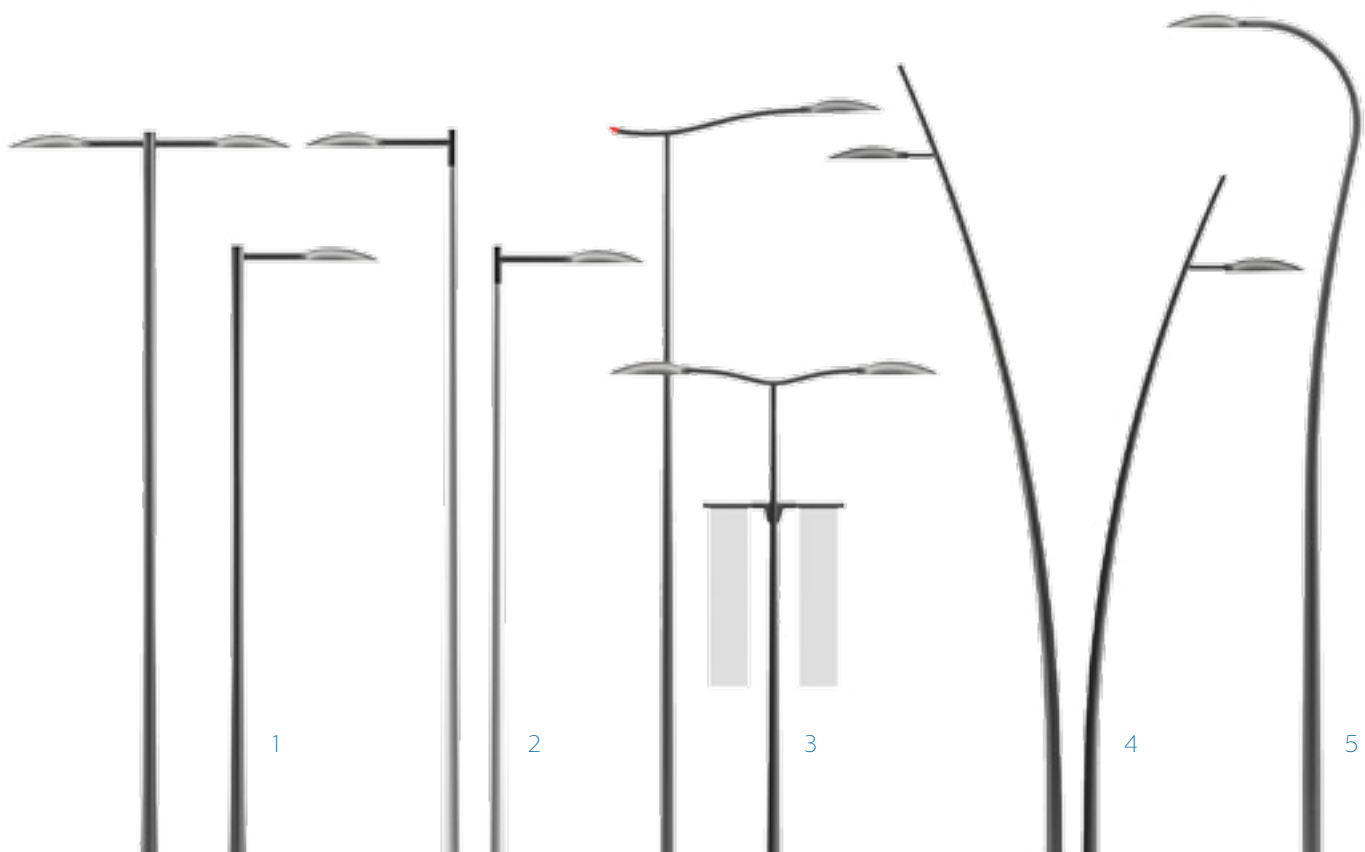
Post-top
Ø 60 / 76 mm

Spigot arrangements

1 Dedicated spigot for side-entry
Ø 48 mm for MileWide² LED
Ø 60 mm for MileWide² LED Large

2 Dedicated spigot for post-top
Ø 60 / 76 mm

From busy traffic roads up to the city center, for renovation and new projects, the MileWide² LED family is a perfect solution. Due to the different mounting possibilities and two different sizes, installations varying from 4 up to 12 meter will not be any issue. Below an overview of the sizes, mounting possibilities and poles & brackets that are available for you.



Complete sets

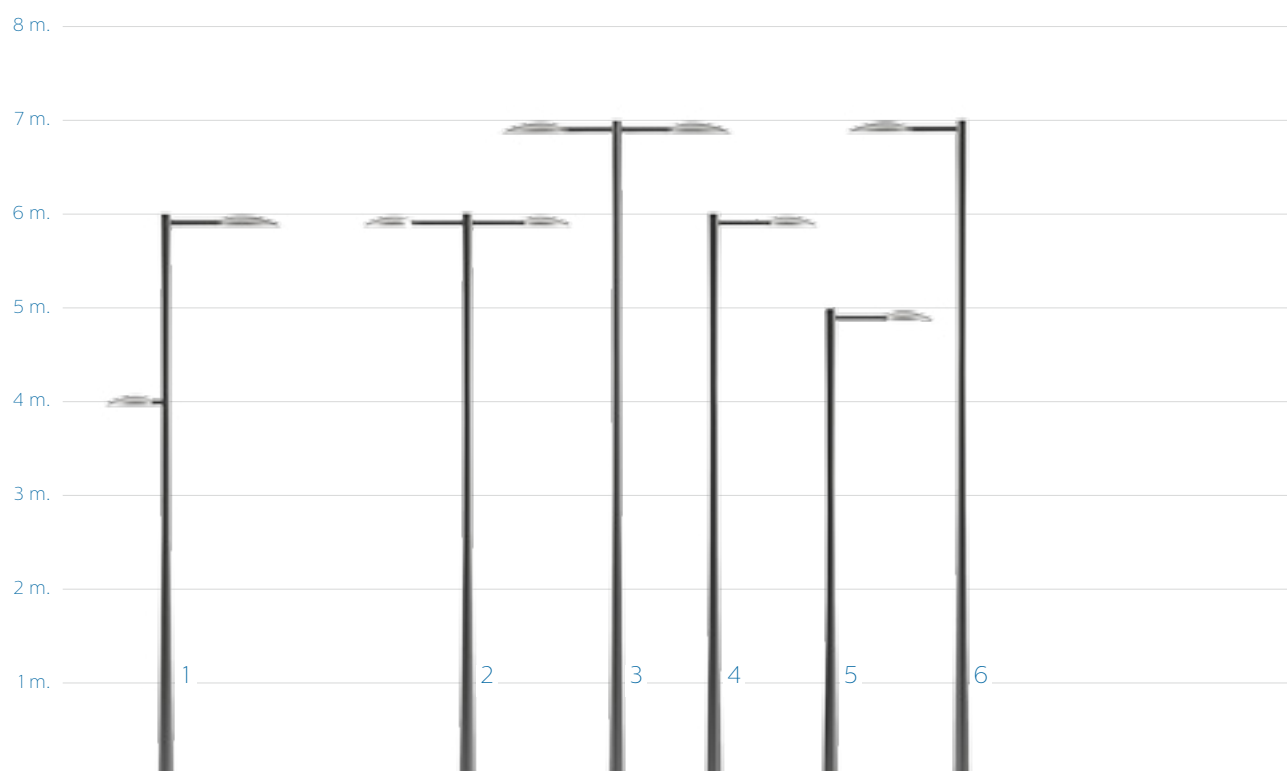
The genuine solutions Bend and Slend by Holsher Design complete the luminaire family with dedicated poles and brackets. A wider range of standard pole and bracket combinations is also available.

- 1 Slend dedicated complete set
- 2 Boulevard complete set
- 3 UrbanWave complete set
- 4 Curve pole complete set
- 5 Bend dedicated complete set

Dedicated complete sets

The MileWide² LED family can be combined with our dedicated Slend and Bend complete sets designed by Holscher Design, to give it a more creative and inspirational appearance.

Slend pole



- 1 MileWide² LED + Slend pole with single bracket + MileWide² LED + rear bracket
- 2, 3 MileWide² LED + Slend pole with double bracket
- 4-6 MileWide² LED + Slend pole with single bracket

Bend pole

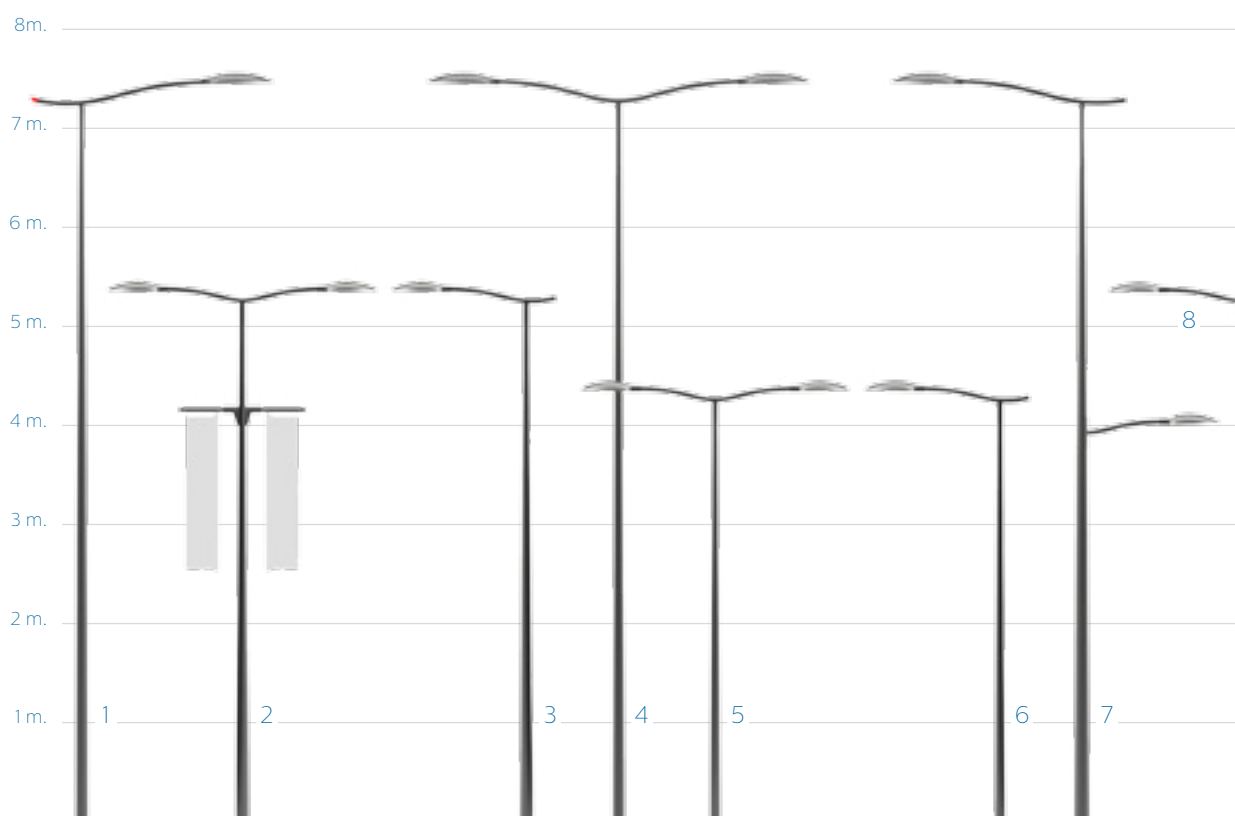


- 1-3** MileWide² LED + Bend pole with single bracket
4, 5, 6 MileWide² LED + Bend pole with single bracket + MileWide² LED + rear bracket

Standard complete sets

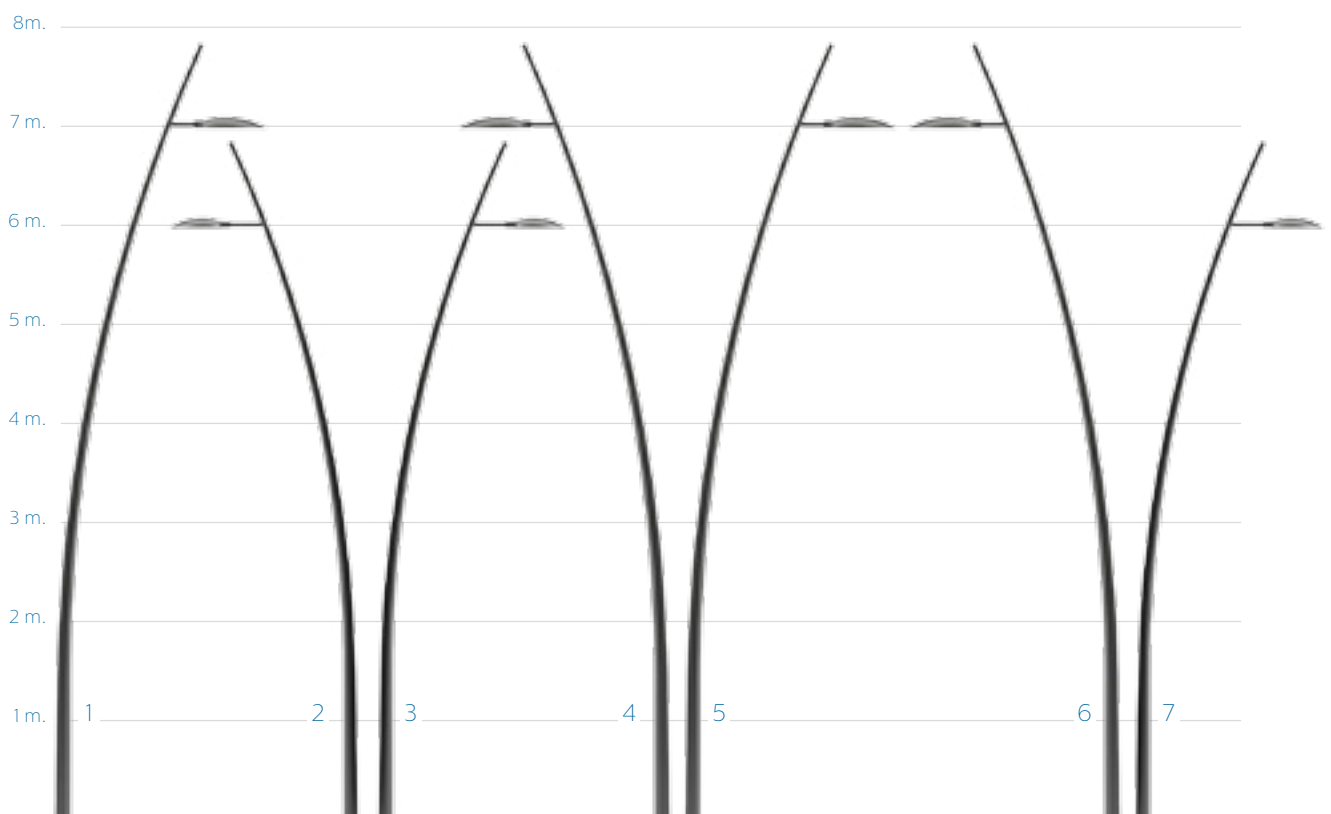
The MileWide² LED family can be combined with our standard poles and brackets portfolio to give it a more creative and inspirational appearance. Below some examples, but we have more complete set configurations available.

UrbanWave bracket

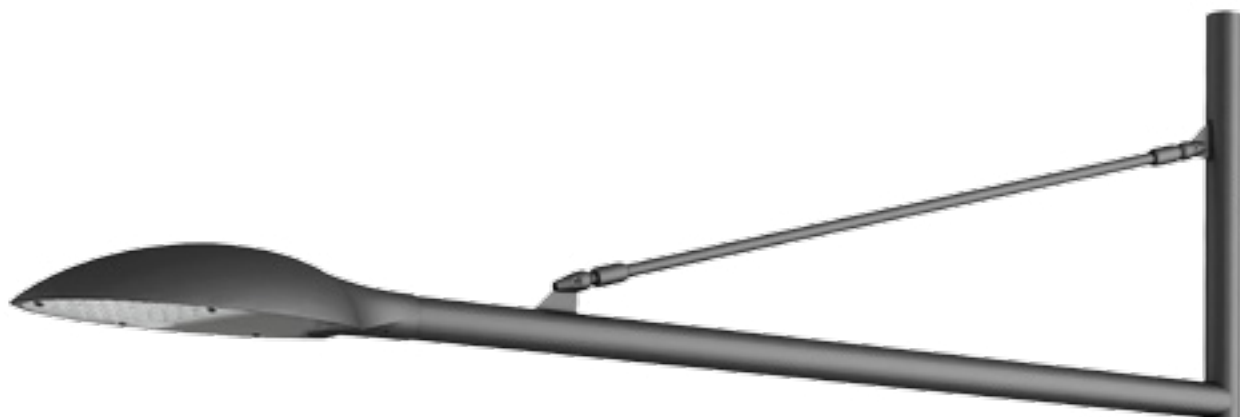


- 1, 4** MileWide² LED + UrbanWave L1200 bracket + Accante pole
- 2, 3, 5, 6** MileWide² LED + UrbanWave L750 bracket + Accante pole
- 7** MileWide² LED + UrbanWave L1500 bracket + Accante pole + UrbanWave L750 rear bracket
- 8** MileWide² LED + UrbanWave L750 wall bracket

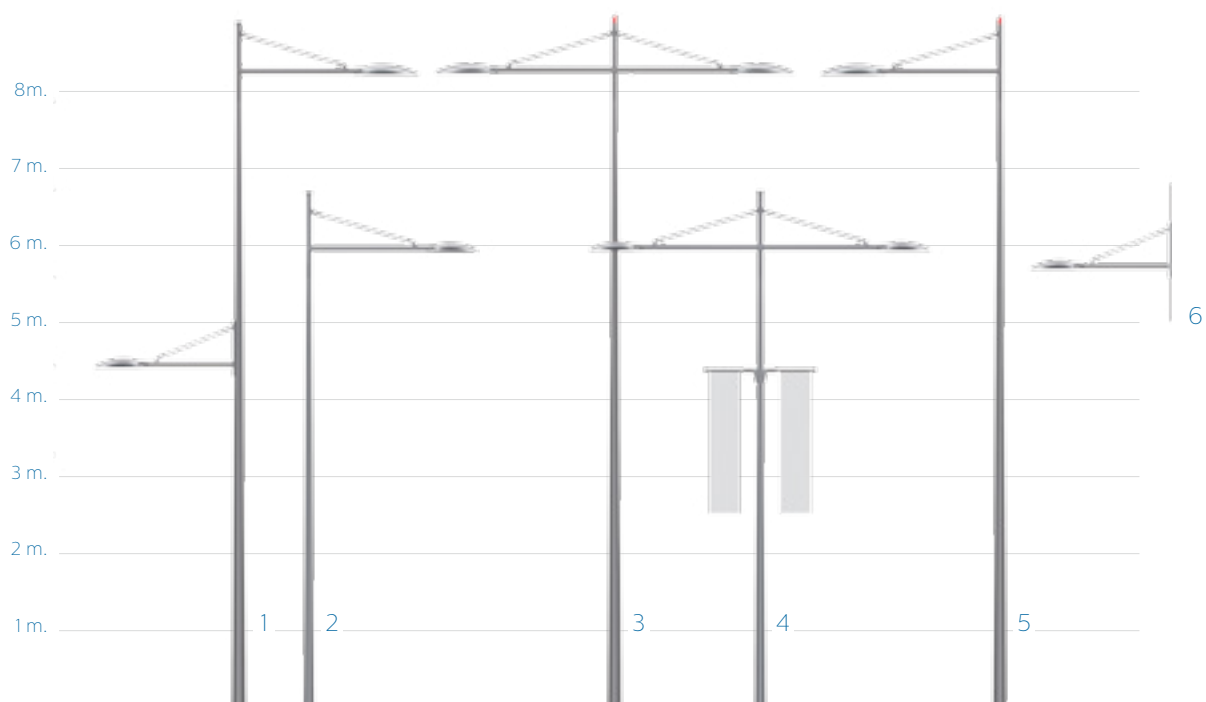
Curve pole



1-7 MileWide² LED + Curve pole with bracket



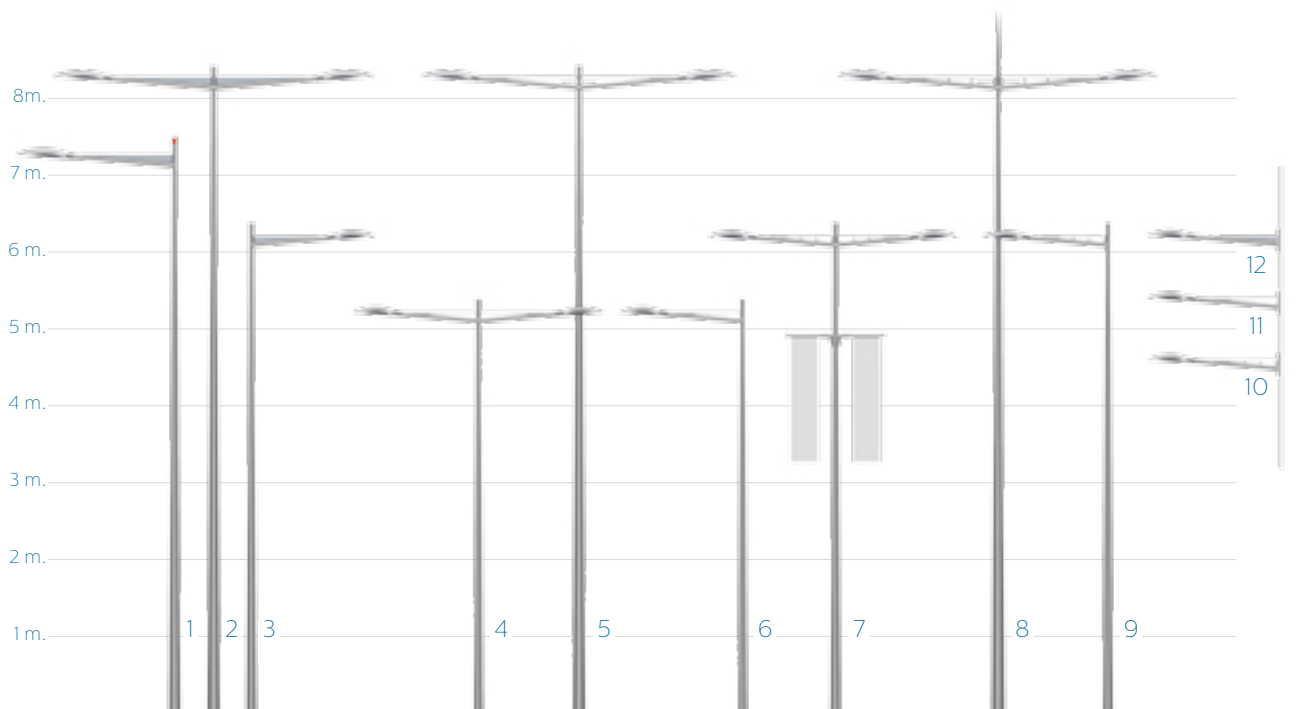
Caravelle bracket



- 1** MileWide² LED + Caravelle single bracket + Aloa/Accante pole + MileWide² LED + Caravelle rear bracket
- 2** MileWide² LED + Caravelle single bracket + Aloa/Accante pole
- 3** MileWide² LED + Caravelle double bracket + Aloa/Accante pole + lighting point
- 4** MileWide² LED + Caravelle double bracket + Aloa/Accante pole
- 5** MileWide² LED + Caravelle single bracket + Aloa/Accante pole + lighting point
- 6** MileWide² LED + Caravelle wall bracket



Mayotte bracket



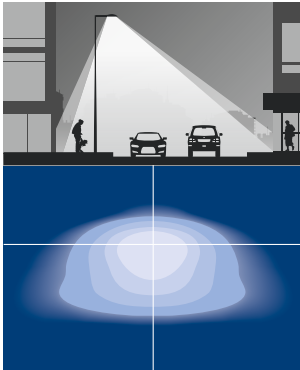
- 1** MileWide² LED + Mayotte single bracket + Aloa/Accante pole + lighting cap
- 2** MileWide² LED + Mayotte double bracket + Aloa/Accante pole
- 3** MileWide² LED + Mayotte single bracket + Aloa/Accante pole
- 4, 5** MileWide² LED + Mayotte with rod double bracket + Aloa/Accante pole
- 6** MileWide² LED + Mayotte with rod single bracket + Aloa/Accante pole
- 7** MileWide² LED + Mayotte double bracket open + Aloa/Accante pole
- 8** MileWide² LED + Mayotte double bracket open + Aloa/Accante pole + point
- 9** MileWide² LED + Mayotte single bracket open + Aloa/Accante pole
- 10** MileWide² LED + Mayotte wall bracket open
- 11** MileWide² LED + Mayotte with rod wall bracket
- 12** MileWide² LED + Mayotte wall bracket



Lighting **performance**

MileWide² LED offers a wide flexibility in term of lighting distributions and luminous flux used for different applications.

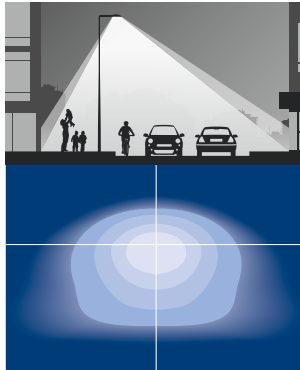
DM Distribution Medium



ME3 (to ME6) and CE class
 for road and street lighting

- Upward light output ratio,
ULOR = 0%
- Upward light ratio,
ULR = 0%
- Luminous intensity class,
G3 at tilt 0°

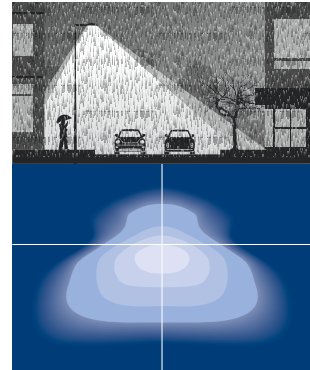
DW Distribution Wide



ME3 (to ME6) and CE class
 for road and street lighting

- Upward light output ratio,
ULOR = 0%
- Upward light ratio,
ULR = 0%
- Luminous intensity class,
G3 at tilt 0°

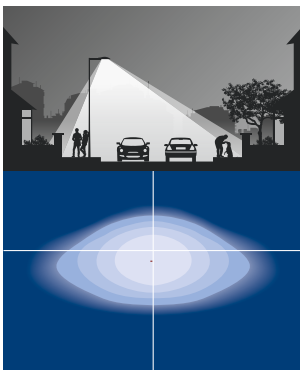
DK Distribution Medium for wet road conditions



MEW class for
 road lighting

- Upward light output ratio,
ULOR = 0%
- Upward light ratio,
ULR = 0%
- Luminous intensity class,
G6 at tilt 0°

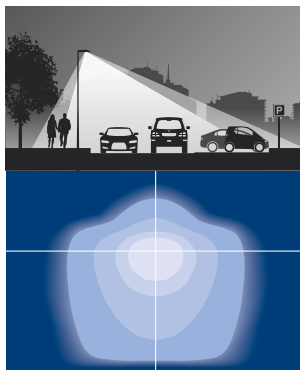
MSO Medium Street Optic



CE and S class for street
 and path lighting

- Upward light output ratio,
ULOR = 0%
- Upward light ratio,
ULR = 0%
- Luminous intensity class,
G3 at tilt 0°
- Not available in
MileWide² LED Large

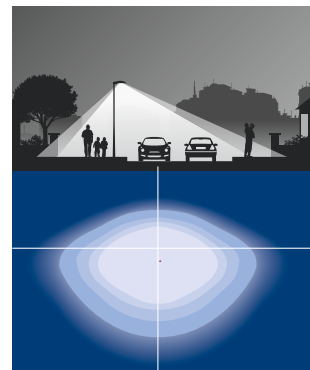
A Distribution Asymmetrical*



CE and S class for area
 and square lighting

- Upward light output ratio,
ULOR = 0%
- Upward light ratio,
ULR = 0%

DRW Distribution Residential Wide*



P and S class for wide
 residential street lighting

- Upward light output ratio,
ULOR = 0%
- Upward light ratio,
ULR = 0%
- Not available in
MileWide² Large

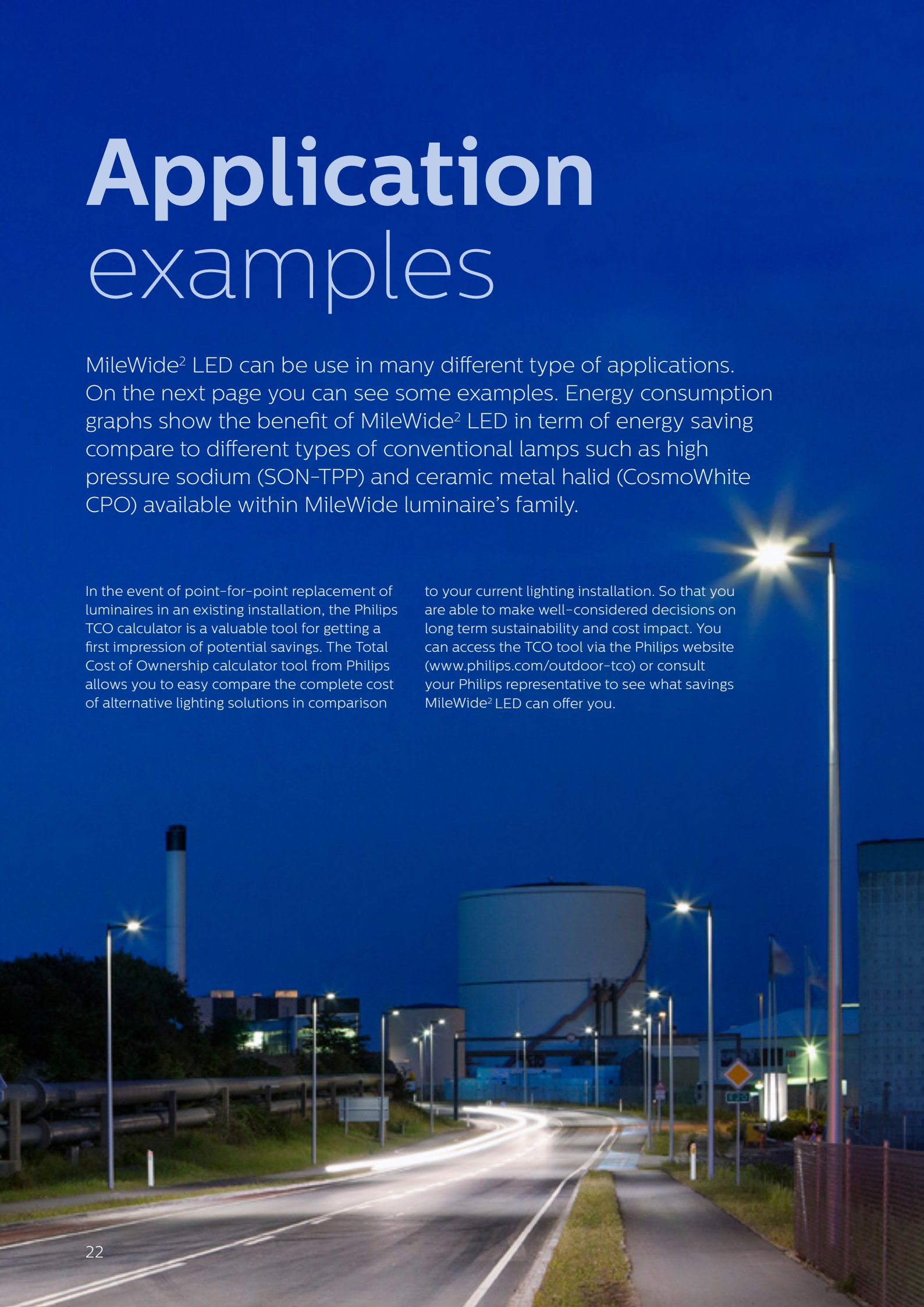
* A, MSO and DRW optic are not available in the Large version.

Application examples

MileWide² LED can be use in many different type of applications. On the next page you can see some examples. Energy consumption graphs show the benefit of MileWide² LED in term of energy saving compare to different types of conventional lamps such as high pressure sodium (SON-TPP) and ceramic metal halid (CosmoWhite CPO) available within MileWide luminaire's family.

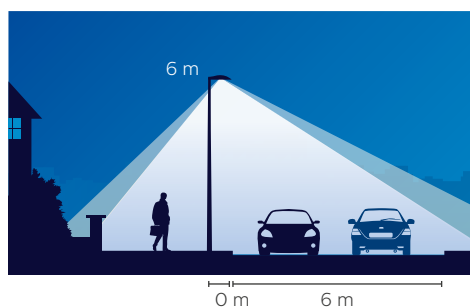
In the event of point-for-point replacement of luminaires in an existing installation, the Philips TCO calculator is a valuable tool for getting a first impression of potential savings. The Total Cost of Ownership calculator tool from Philips allows you to easy compare the complete cost of alternative lighting solutions in comparison

to your current lighting installation. So that you are able to make well-considered decisions on long term sustainability and cost impact. You can access the TCO tool via the Philips website (www.philips.com/outdoor-tco) or consult your Philips representative to see what savings MileWide² LED can offer you.



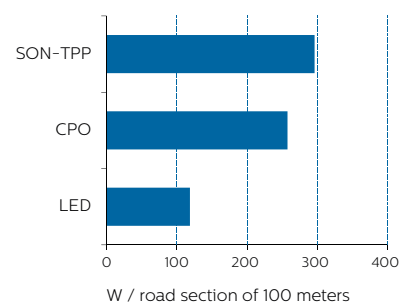
The situations shown represent some typical applications in the outdoor environment.
 The road geometry used in these examples is shown in the sketches.

Residential street

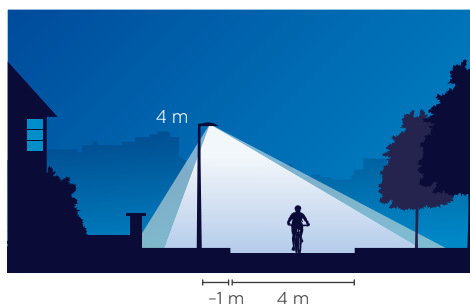


MileWide² LED

Class	CE4
Light distribution	DM
Source	GRN55/740
Spacing	32 m
Wattage	38 W

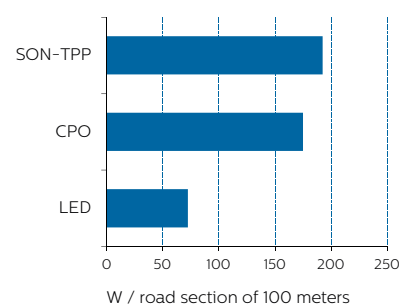


Cycle path

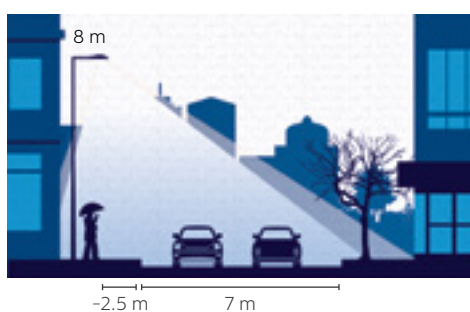


MileWide² LED

Class	S4
Light distribution	MSO
Source	GRN30/740
Spacing	32 m
Wattage	23 W

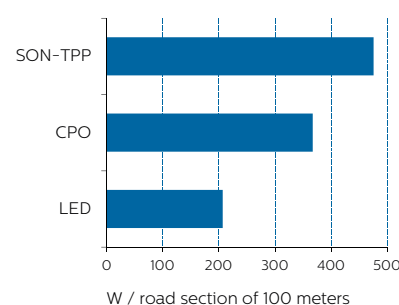


Road under wet conditions

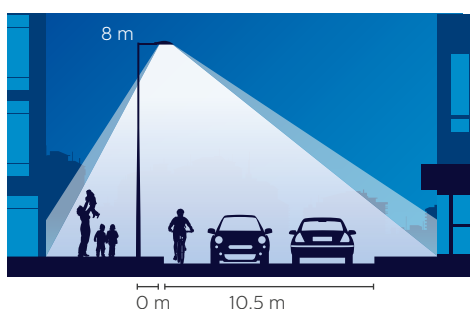


MileWide² LED Large

Class	MEW3
Light distribution	DK
Source	GRN96/740
Spacing	32 m
Wattage	66 W

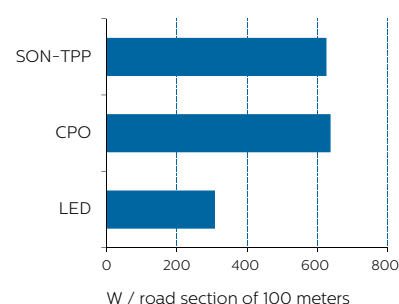


Mixed traffic street



MileWide² LED Large

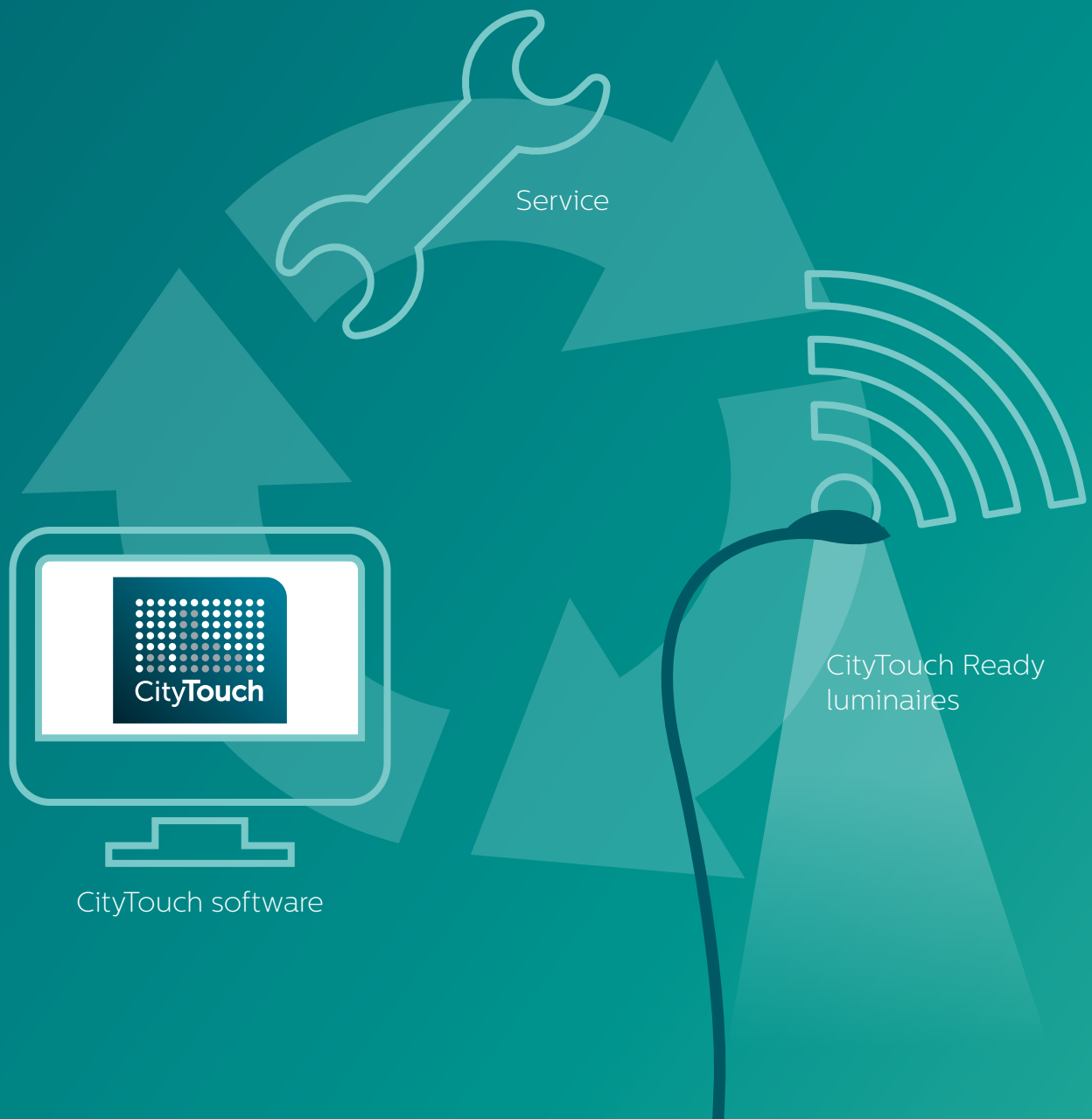
Class	ME3b
Light distribution	DW
Source	GRN155
Spacing	37 m
Wattage	114 W



MileWide² LED in control

Lighting city streets, roads and public spaces presents many challenges, partly because the dynamics of city life are changing constantly due to fluctuations in traffic density, etc.

This means you need the right level of lighting to respond to these changes in order to make the city feel safe, attractive and inviting. But at the same time you are under pressure to reduce energy costs and maximize your green credentials. Philips offers a complete range of intelligent lighting controls to help you overcome all these problems and make your city more livable and sustainable.



Connected lighting

CityTouch Ready luminaires

MileWide² LED can be seamlessly connected to CityTouch software via CityTouch connect app (remote management), with all the intelligence being integrated into the luminaire without the need for any additional hardware. Communication runs directly via the public mobile network. An additional advantage is that you are not required to perform any maintenance. Furthermore, the entire connectivity management is covered by the service we provide, ensuring there is no hassle for you, the customer. Once connected to the power

supply, a light point automatically appears on the CityTouch map at the right location - with all the relevant technical parameters imported into the system.

CityTouch connect app is an intelligent, interactive remote management solution for street lighting. It brings your city lighting to life and offers you flexibility, information and accuracy. The system's flexibility enables you to respond easily to expected and unexpected situations by dimming or brightening any of the areas within your city to ensure

safety and well-being. Information keeps you up to date on the current status of every single luminaire, facilitating more effective maintenance and faster repairs. And accurate energy metering gives you a precise overview of actual energy consumption.



CityTouch connect app key features



Control of each individual light point

You have the flexibility to adjust every single luminaire to changing situations or requirements at any time. You can adjust calendars to suit your individual needs simply by changing the switching points of each dimming profile via drag and drop.



Fault detection and notification

Faster and better provision of information about the current status of the lighting infrastructure enables you to address maintenance issues more quickly and to improve the maintenance service level.



Accurate energy metering

Accurate energy metering for each individual luminaire enables you to monitor your energy bills and to identify potential new savings.

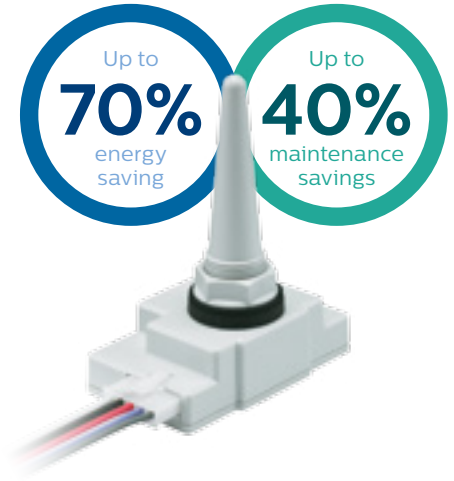
Network controls

StarSense Wireless with RF antenna

StarSense Wireless is a networked control system based on two-way wireless communication using the latest RF mesh network technology. The system enables individual light points to be controlled remotely and to be managed via online platforms like CityTouch.

Lighting operators can control the outdoor lighting infrastructure remotely, setting dimming levels

to achieve considerable energy savings. Also, they get real-time feedback from the luminaires, reducing operating and maintenance costs via accurate scheduling of on-site maintenance service tasks, while improving both the quality and reliability of outdoor lighting.



Stand alone controls

LumiStep control

An integrated control system available in the Philips driver, which lowers the flux of the light source and power consumed over a period of 6 and 8 hours. The potential energy savings (on power system) are up to 25%, depending on the luminaires and light source used.



DynaDimmer control

An integrated control system included in each light point - operated on electronic equipment and can be integrated into the Philips driver. It can apply 5 levels of power, (re)definable on the level and duration, per chosen light point. An average energy saving of approximately 50% per year can be realized.

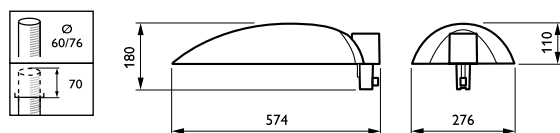


Public lighting
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MileWide² LED
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In control
.....

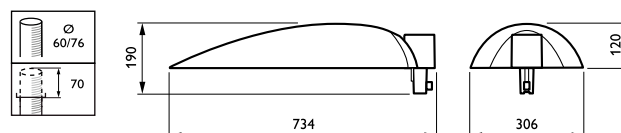


Dimensional drawings

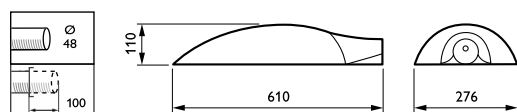
MileWide² LED - BPP435 - Post-top



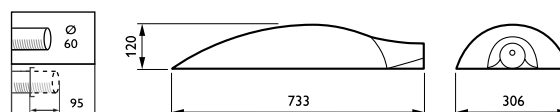
MileWide² LED Large - BPP436 - Post-top



MileWide² LED - BPP435 - Side-entry

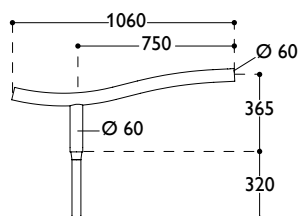


MileWide² LED Large - BPP436 - Side-entry

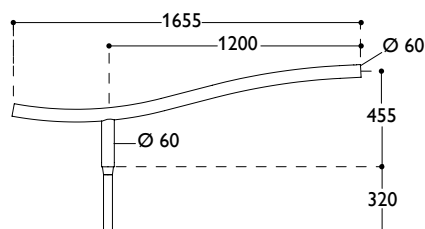


Brackets

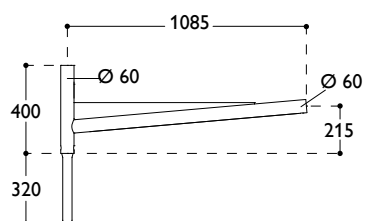
UrbanWave L750



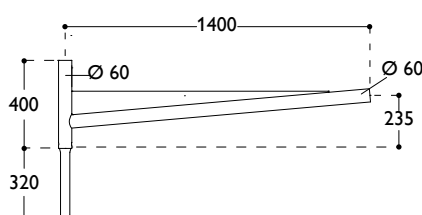
UrbanWave L1200



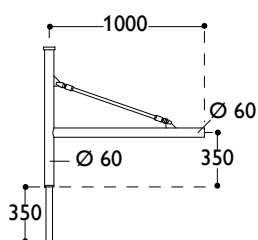
Mayotte L1085



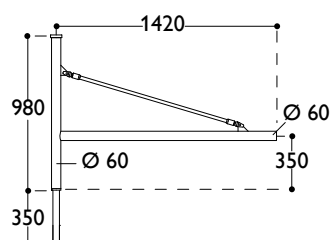
Mayotte L1400



Caravelle Low 1000

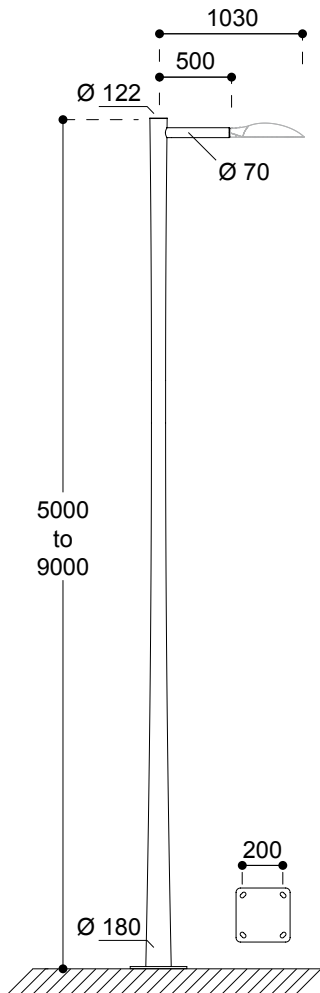


Caravelle Low 1420

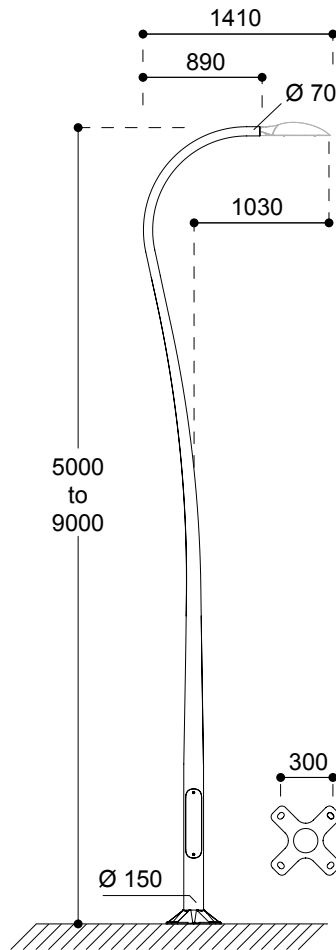


Poles

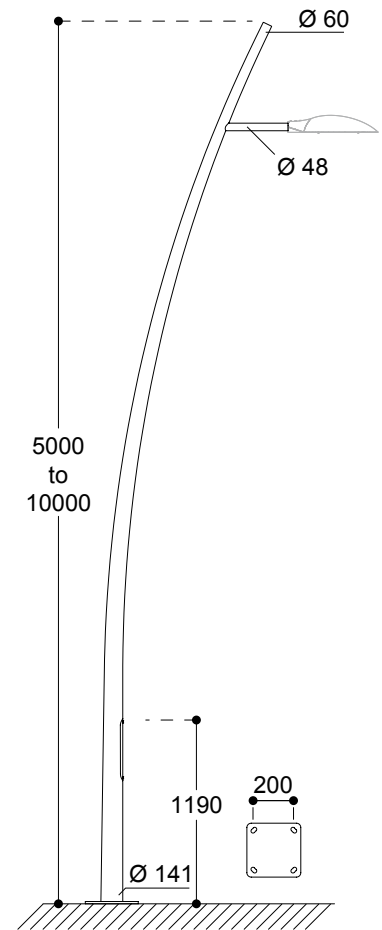
Slend + MileWide² LED



Bend + MileWide² LED



Curve + MileWide² LED



Main specifications

Product features	MileWide ² LED	MileWide ² LED Large
Type	BRP435 (side-entry), BPP435 (post-top)	BRP436 (side-entry), BPP436 (post-top)
Light source	Built-in LED module	Built-in LED module
Color temperature	3000 K (warm white), 4000 K (neutral white)	3000 K (warm white), 4000 K (neutral white)
Color Rendering Index	70 (neutral white), 80 (warm white)	70 (neutral white), 80 (warm white)
Luminous flux	(depending on LED configuration) warm white: 1,650 – 8,000 lm neutral white: 1,750 – 9,000 lm	(depending on LED configuration) warm white: 7,300 – 13,300 lm neutral white: 6,600 – 14,800 lm
Power	GreenLine (GRN) 14 to 86 W depending on LED configuration	GreenLine (GRN) 60 to 138 W depending on LED configuration
Luminaire efficacy	From 100 lm/W up to 130 lm/W	From 100 lm/W up to 130 lm/W
Lumen maintenance	Up to 100,000 hours at L80B10	Up to 100,000 hours at L80B10
CLO	CLO is available	CLO is available
Warranty	Silver 5 years	Silver 5 years
Optic	Distribution Medium (DM), Distribution Wide (DW) Distribution Medium for wet road conditions (DK), Medium Street Optic (MSO)	Distribution Medium (DM), Distribution Wide (DW) Distribution Medium for wet road conditions (DK), Medium Street Optic (MSO)
Optical cover	Flat Glass (FG)	Flat Glass (FG)
Installation	Side-entry: Ø 48 mm, Post-top: Ø 60 / 76 mm No adjustable tilt angle	Side-entry: Ø 60 mm, Post-top: Ø 60 / 76 mm No adjustable tilt angle
Controls system input	DALI	DALI
Driver	Philips Xitanium Driver	Philips Xitanium Driver
Intelligence control	LumiStep (LS), DynaDimmer (DDF), SDU (D4) External dimming 1-10 V (D7/D9) CityTouch Ready, StarSense RF Wireless, AmpLight	LumiStep (LS), DynaDimmer (DDF), SDU (D4) External dimming 1-10 V (D7/D9) CityTouch Ready, StarSense RF Wireless, AmpLight
Mains voltage	210-240 V / 50-60 Hz	210-240 V / 50-60 Hz
Electrical class	I, II	I, II
Material	Housing: high-pressure, die-cast aluminum, coated, Gasket: silicone rubber, heat resistant Optics: plastic (PMMA) Cover: glass, thermally hardened	Housing: high-pressure, die-cast aluminum, coated, Gasket: silicone rubber, heat resistant Optics: plastic (PMMA) Cover: glass, thermally hardened
Color	Philips Satin Silver Grey (close to RAL 9006), Philips Ultra Dark Grey (close to RAL 7022), Other RAL or AKZO colors available on request	Philips Satin Silver Grey (close to RAL 9006), Philips Ultra Dark Grey (close to RAL 7022), Other RAL or AKZO colors available on request
IP-rating	IP66	IP66
IK-rating	IK08	IK08
Weight	8.5-9 kg	12 kg
SCx	0.049 m ²	0.066 m ²
Electrical connection	M20 cable gland with strain relief, for cable Ø 6-10 mm	M20 cable gland with strain relief, for cable Ø 8-10-14 mm
Operating temperature range	- 20°C < Ta< 35°C	- 20°C < Ta< 35°C
Surge protection	4 kV, 10 kV optional	4 kV, 10 kV optional
Maintenance	From below, 5 screws Be aware: Non captive screws	From below, 5 screws Be aware: Non captive screws

Specification table

Luminaire version	Product family codes	GRN	Source flux (lm)	System power (W)	
				WW	NW
MileWide ² LED	BPP/BRP435	GRN19	1,900	15	14
MileWide ² LED	BPP/BRP435	GRN22	2,200	18	16
MileWide ² LED	BPP/BRP435	GRN25	2,500	21	19
MileWide ² LED	BPP/BRP435	GRN30	3,000	25	23
MileWide ² LED	BPP/BRP435	GRN35	3,500	30	27
MileWide ² LED	BPP/BRP435	GRN40	4,000	35	32
MileWide ² LED	BPP/BRP435	GRN45	4,500		36
MileWide ² LED	BPP/BRP435	GRN50	5,000	38	
MileWide ² LED	BPP/BRP435	GRN55	5,500		38
MileWide ² LED	BPP/BRP435	GRN60	6,000	46	
MileWide ² LED	BPP/BRP435	GRN65	6,500		46
MileWide ² LED	BPP/BRP435	GRN70	7,000	56	
MileWide ² LED	BPP/BRP435	GRN75	7,500		55
MileWide ² LED	BPP/BRP435	GRN80	8,000	65	
MileWide ² LED	BPP/BRP435	GRN85	8,500		63
MileWide ² LED	BPP/BRP435	GRN90	9,000	73	
MileWide ² LED	BPP/BRP435	GRN95	9,500		71
MileWide ² LED	BPP/BRP435	GRN100	10,000	83	
MileWide ² LED	BPP/BRP435	GRN105	10,500		79
MileWide ² LED	BPP/BRP435	GRN115	11,500		86

Luminaire version	Product family codes	GRN	Source flux (lm)	System power (W)	
				WW	NW
MileWide ² LED Large	BPP/BRP436	GRN81	8,100	61	
MileWide ² LED Large	BPP/BRP436	GRN91	9,100	69	
MileWide ² LED Large	BPP/BRP436	GRN96	9,600		66
MileWide ² LED Large	BPP/BRP436	GRN101	10,100	78	
MileWide ² LED Large	BPP/BRP436	GRN106	10,600		75
MileWide ² LED Large	BPP/BRP436	GRN110	11,100	85	
MileWide ² LED Large	BPP/BRP436	GRN116	11,600		82
MileWide ² LED Large	BPP/BRP436	GRN120	12,000	95	
MileWide ² LED Large	BPP/BRP436	GRN125	12,500		90
MileWide ² LED Large	BPP/BRP436	GRN130	13,000	104	
MileWide ² LED Large	BPP/BRP436	GRN135	13,500		98
MileWide ² LED Large	BPP/BRP436	GRN140	14,000	113	
MileWide ² LED Large	BPP/BRP436	GRN145	14,500		106
MileWide ² LED Large	BPP/BRP436	GRN150	15,000	122	
MileWide ² LED Large	BPP/BRP436	GRN155	15,500		115
MileWide ² LED Large	BPP/BRP436	GRN160	16,000	131	
MileWide ² LED Large	BPP/BRP436	GRN165	16,500		123
MileWide ² LED Large	BPP/BRP436	GRN175	17,500		131
MileWide ² LED Large	BPP/BRP436	GRN185	18,500		138

Pole specifications

Pole specifications	Slend	Bend	Curve
Material	Aluminum	Aluminum	Steel
Pole height	5, 6, 7, 8 and 9 m	5, 6, 7, 8 and 9 m	5, 6, 7, 9 and 10 m
Installation type	Ground section	Ground section	Ground section
Color	Philips Satin Silver Grey (close to RAL 9006)	Philips Satin Silver Grey (close to RAL 9006)	Philips Satin Silver Grey (close to RAL 9006)
	Philips Ultra Dark Grey (close to RAL 7022)	Philips Ultra Dark Grey (close to RAL 7022)	Philips Ultra Dark Grey (close to RAL 7022)
	Other RAL or AKZO colors available on request	Other RAL or AKZO colors available on request	Other RAL or AKZO colors available on request
Certification	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40

Bracket specifications

Bracket specifications	Slend	Bend	Curve
Material	Aluminum	Aluminum	Steel
Mounting to luminaire	Side-entry Ø 60 mm Side-entry Ø 48 mm	Side-entry Ø 60 mm Side-entry Ø 48 mm	Side-entry Ø 48 mm
Tilt angle	0°	0°	0°
Color	Philips Satin Silver Grey (close to RAL 9006). Philips Ultra Dark Grey (close to RAL 7022). Other RAL or AKZO colors available on request.	Philips Satin Silver Grey (close to RAL 9006). Philips Ultra Dark Grey (close to RAL 7022). Other RAL or AKZO colors available on request.	Philips Satin Silver Grey (close to RAL 9006). Philips Ultra Dark Grey (close to RAL 7022). Other RAL or AKZO colors available on request.
Certification	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40

Bracket specifications	UrbanWave	Caravelle	Mayotte
Material	Steel	Steel	Steel
Mounting to luminaire	Side-entry Ø 60 mm Side-entry Ø 48 mm	Side-entry Ø 60 mm Side-entry Ø 48 mm	Side-entry Ø 60 mm Side-entry Ø 48 mm
Mounting to support	Single or double arm bracket Post-top tenon for top Ø 60 mm	Single or double arm bracket Post-top tenon for top Ø 60 mm	Single or double arm bracket Post-top tenon for top Ø 60 mm
Rear bracket mounting	2 points and fixing center 250 mm	2 points and fixing center 250 mm	2 points and fixing center 250 mm
Wall bracket mounting	2 points and fixing center 250 mm	2 points and fixing center 250 mm	2 points and fixing center 250 mm
Tilt angle	3°	0°	3°
Color	Philips Satin Silver Grey (close to RAL 9006). Philips Ultra Dark Grey (close to RAL 7022). Other RAL or AKZO colors available on request.	Philips Satin Silver Grey (close to RAL 9006). Philips Ultra Dark Grey (close to RAL 7022). Other RAL or AKZO colors available on request.	Philips Satin Silver Grey (close to RAL 9006). Philips Ultra Dark Grey (close to RAL 7022). Other RAL or AKZO colors available on request.
Certification	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40

