PHILIPS

MileWide²

LED

Professional Lighting

Performance and design in a perfect balance

www.philips.co.uk/outdoorlighting

Design language

The idea behind the design

'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. Now that LED technology has found a mature place in the development of street lighting, we have created Milewide[2], 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.

Stig Myler, designer

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.'
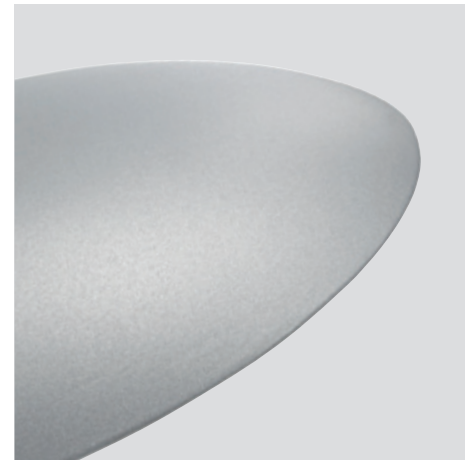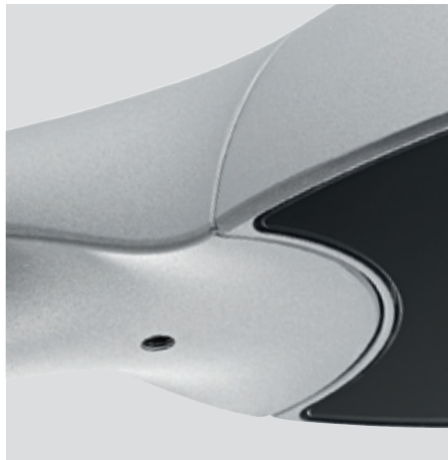
Applications

A total solution

For many years the MileWide family has been known for its excellent performance and own stylish design language. The new MileWide^2 family is the evolution of this well-known MileWide street lighting range, offering not only a new redesigned set of luminaires, but combined with poles and brackets as a whole, to offer you complete solutions that can elevate your street, city centre or roads around your city. MileWide^2 is a family of two sizes, MileWide^2 and MileWide^2 large, dimensioned to fit installation heights up to 12 metre.

Designed to endure

MileWide^2 is designed to be long lasting. Not only due to the long lifetime (L80F10 at 100,000 hours), but also as a result of the design. Materials of the best quality are used to endure and withstand all weather types in Europe. Transitions and product edges have been designed to minimise erosion and dust collection. The aluminium housing and tempered glass result in an IK08 mechanical resistance and an IP66 ingress protection.
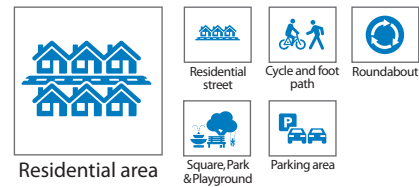
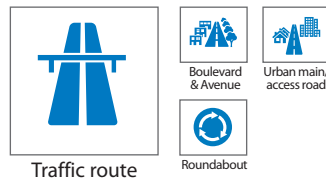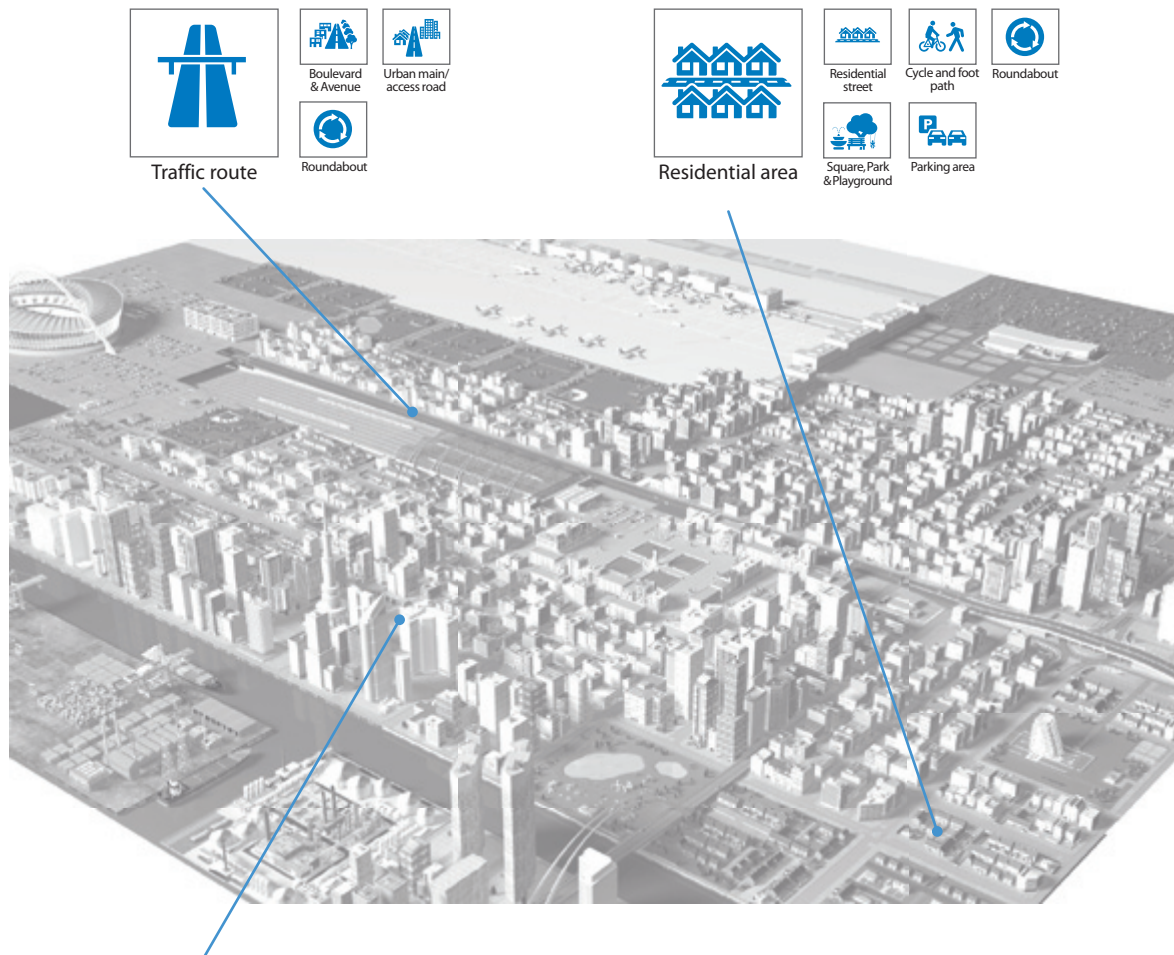## High performance, high comfort

MileWide^2 is made to enjoy the best lighting performance with focus on comfort. Due to a combination of different factors, like a larger spacing between the LEDs and new shape of the led board, more light comfort is obtained. Furthermore MileWide^2 uses flat glass to preserve the dark sky (0 candela at 90° / glare control) and ensures the best maintenance factor.

Applications

MileWide[2] is a street lighting solution that combines design with high quality lighting performance. Designed around and dedicated to the latest LED technology, the MileWide[2] range has a slimmer and smoother design while best-in-class lighting performance can be realised and your energy savings are maximised. Due to the new design of the led board combined with renewed optics, MileWide[2] offers you a solution that aesthetically fits into many different architectural contexts, and a high flexibility in terms of applications.

Traffic route
- Boulevard & Avenue
- Urban main/ access road
- Roundabout

Residential area
- Residential street
- Cycle and foot path
- Roundabout
- Square, Park & Playground
- Parking area

City centre
- Boulevard & Avenue
- Side street
- Square, Park & Playground
- Roundabout
- Cycle and foot path
- Shopping & Pedestrian area
- Parking area
- Public transport area

Urban inspiration lighting

MileWide[2] is part of our Urban inspiration lighting portfolio and incorporating all necessary functional primary aspects of lighting, but with a strong focus on the emotional values of lighting. To create the right ambience, enhance areas, increase well-being, promote tourism and heritage and increase the liveability in the city. For every application in the city we do have several solutions to really inspire and enhance your city, whilst meeting your demands and beyond.

Applications

Applications

Applications

Applications

Family range

From busy traffic roads up to the city centre, for renovation and new projects, the MileWide[2] family is a perfect solution. Due to the different mounting possibilities and two different sizes, installations varying from 4 up to 12 metre will not be any issue. Below is an overview of the sizes, mounting possibilities and poles & brackets that are available for you.

MileWide[2]

MileWide[2]
Side-entry
Ø 42 / 48 mm

MileWide[2]
Post-top
Ø 60 / 76 mm

Milewide[2] Large

MileWide[2] Large
Side-entry
Ø 48 / 60 mm

MileWide[2] Large
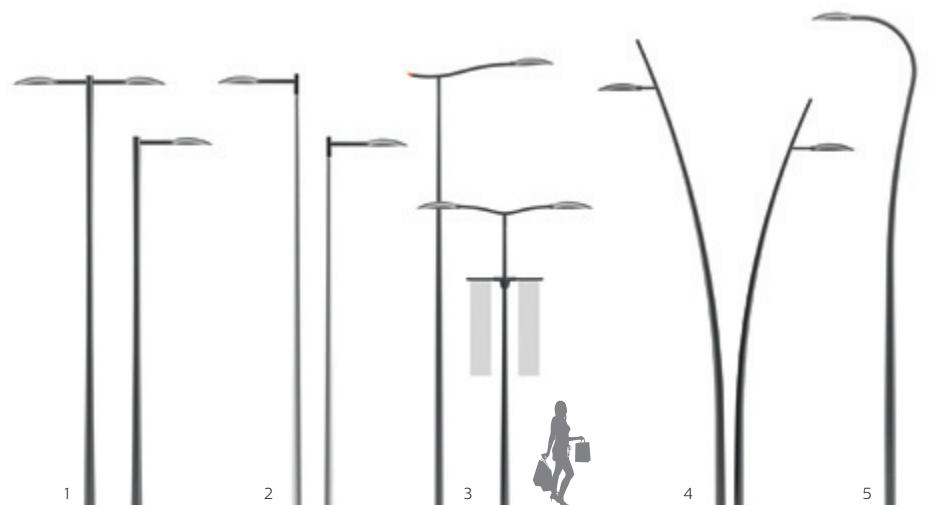Post-top
Ø 60 / 76 mm

Spigot arrangements

Dedicated spigot for side-entry:
Ø 48 mm for MileWide[2]
Ø 60 mm for MileWide[2] Large

Dedicated spigot for post-top
Ø 60 / 76 mm

MileWide[2] + dedicated 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 complet set 5. Bend dedicated complete set
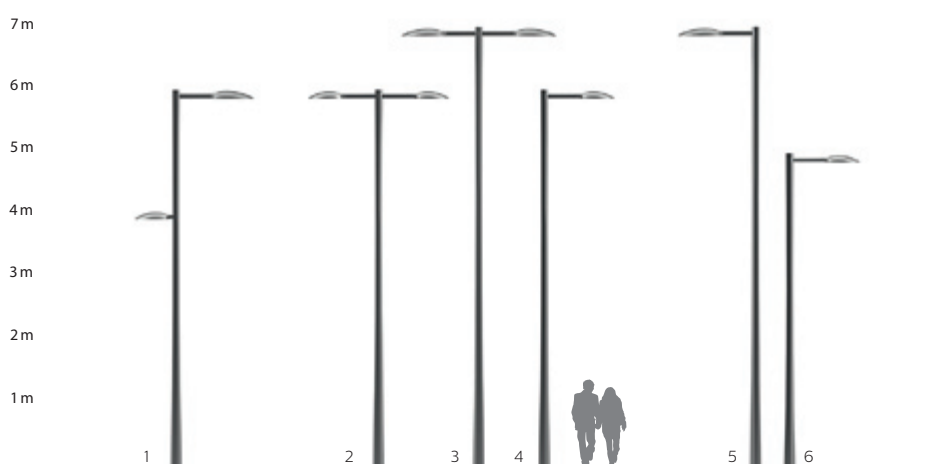
MileWide² dedicated complete sets

The MileWide² 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 + Slend pole with single bracket + MileWide² + rear bracket 2-3. MileWide² + Slend pole with double bracket 4-5-6. MileWide² + Slend pole with single bracket

MileWide² + Slend

Bend pole

1-2-3. MileWide² + Bend pole with single bracket
4-5-6. MileWide² + Bend pole with single bracket + MileWide² + rear bracket
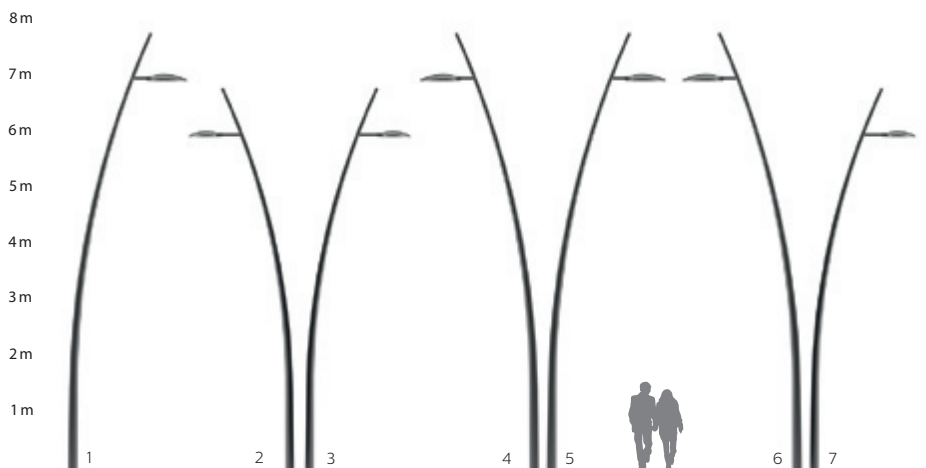
MileWide² + Bend

MileWide² standard complete sets

The MileWide² family can be combined with our standard poles and brackets portfolio to give it a more creative and inspirational appearance. Below are some examples, but we have more complete set configurations available. Please refer to our Inspiration for urban complete sets catalogue.

Curve pole

1-2-3-4-5-6-7. MileWide² LED + Curve pole with bracket

MileWide² + Curve

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
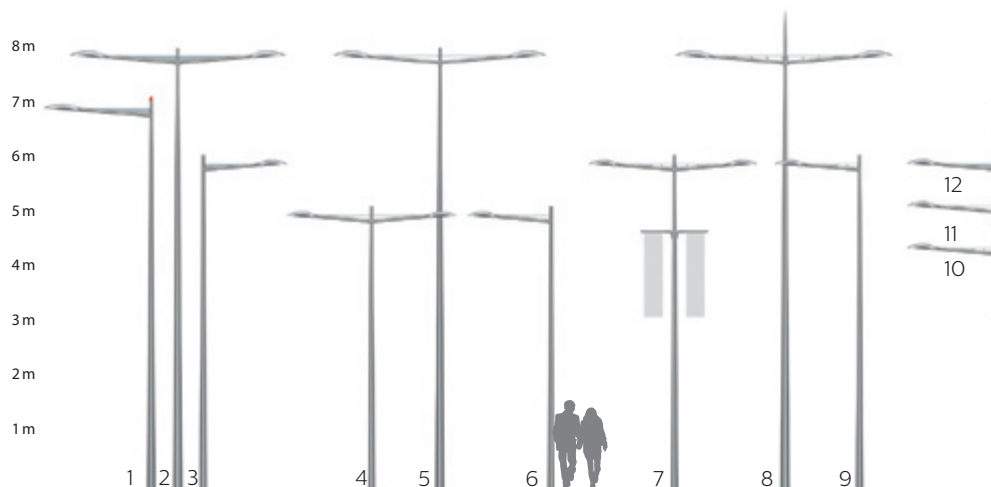

MileWide² + UrbanWave

MileWide² standard complete sets

Mayotte bracket

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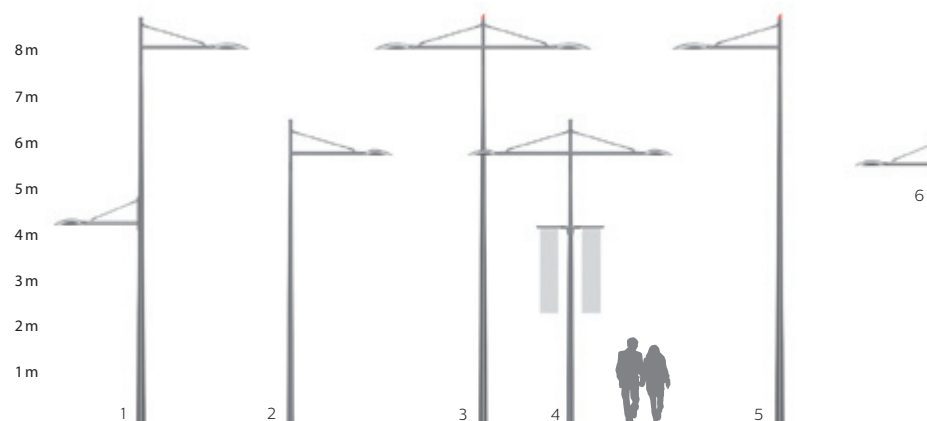

MileWide² + Mayotte

Caravelle bracket

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

MileWide² + Caravelle

Lighting performance

Light distribution

MileWide[2] 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 < 3%
- 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 < 3%
- Luminous intensity class, G3 at tilt 0°

DK Distribution Medium for wet road conditions

MEW class for road and street lighting

- Upward light output ratio, ULOR = 0%
- Upward light ratio, ULR < 3%
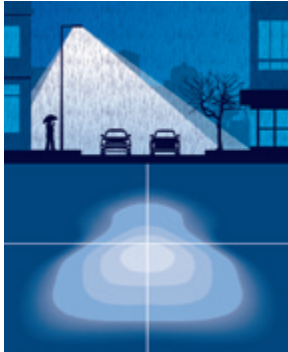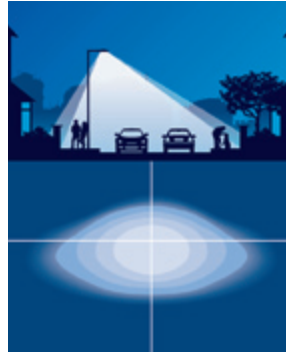- Luminous intensity class, G6 at tilt 0°

MSO Medium Street Optic

CE and S class for street and path lighting

- Upward light output ratio, ULOR = 0%
- Upward light ratio, ULR < 3%
- Luminous intensity class, G3 at tilt 0°
- Not available in MileWide[2] Large

MileWide² in control

Lighting city streets, roads and public spaces presents many challenges.
The dynamics of city life change constantly due to traffic density and different traffic levels. You need the right levels of lighting to respond to those changes and make the city feel safe, attractive and inviting whilst also under pressure to reduce energy costs and maximise your green credentials. Philips offers you a complete intelligent lighting controls range to help you overcome all those problems and make the city more liveable and sustainable.
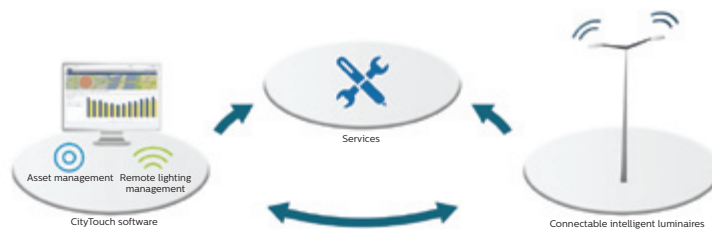
CityTouch LightWave

MileWide² can be seamlessly connected with CityTouch LightWave through the luminaire; no additional hardware is needed. Communication runs directly through the public mobile network.

The whole connectivity management is part of our service, removing the need for you to carry out any maintenance.

Once connected to the power supply a light point automatically appears on the CityTouch map at the right location – with all technical parameters imported into the system.

CityTouch LightWave is an intelligent, interactive remote management solution for street lighting. It brings your city lighting to life and provides you with flexibility, knowledge and accuracy.

Its flexibility enables you to react to situations by dimming or brightening all areas of the city to ensure safety and well-being. It keeps you informed about the current status of every single luminaire– for better maintenance and faster repairs. Its precise energy metering gives you a perfect overview on real non-estimated energy consumption.

Asset management Remote lighting management

CityTouch software

Services

Connectable intelligent luminaires

CityTouch LightWave key features

Control of each individual light point

You get the flexibility to adapt every single luminaire to changing situations or demands of the city at any time. To adjust calendars to the individual needs you are free to change the "switching points" of every dimming profile simply via drag and drop.

Fault detection & notification

A quicker and better knowledge of the current status of the lighting infrastructure enables you to manage faster maintenance and improve the maintenance service level.
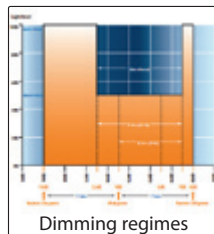
Accurate energy metering

With accurate energy metering down to the level of each single luminaire it is possible to verify your energy bills and identify new potential savings.
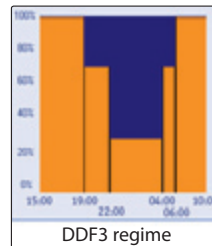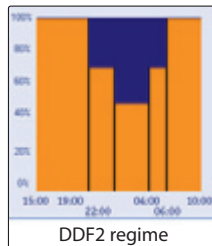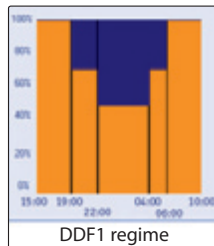
MileWide² in control

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, 8 or 10 hours (3 pre-programmed versions). The potential energy saving (on power system) is up to 25 %, depending on the luminaires and light source used.

Dimming regimes
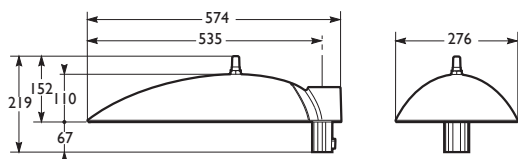
DynaDimmer control

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. For example, an average energy saving of approximately 50 % per year can be realised.
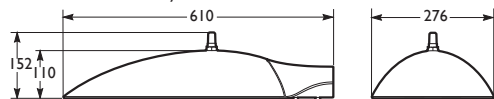

DDF1 regime

DDF2 regime

DDF3 regime

Main specifications

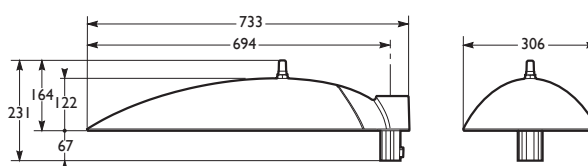| Product features	Specifications MileWide²	Specifications MileWide² Large
Type	BRP435 (side-entry) • BPP435 (post-top)	BRP436 (side-entry) • BPP436 (post-top)
Light source	Built-in LED module	Built-in LED module
Colour temperature	3000K (warm white) • 4000K (neutral white)	3000K (warm white) • 4000K (neutral white)
Colour 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 86W depending on LED configuration	GreenLine (GRN) 60 to 138W 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	Up to 100,000 hours
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	1-10 V and DALI	1-10 V and DALI
Driver	Philips Xitanium Driver	Philips Xitanium Driver
Inrush current driver	40W: 65A@100µs • 100W: 80A@150µs	100W: 80A@150µs • 150W: 108A@140µs
Intelligence control	LumiStep (LS) • DynaDimmer (DDF) • SDU (D4) External dimming 1-10 V (D7/D9) • CityTouch client	LumiStep (LS) • DynaDimmer (DDF) • SDU (D4) External dimming 1-10 V (D7/D9) • CityTouch client
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 aluminium, coated Gasket: silicone rubber, heat resistant Optics: plastic (PMMA) Cover: glass, thermally hardened	Housing: high-pressure, die-cast aluminium, coated Gasket: silicone rubber, heat resistant Optics: plastic (PMMA) Cover: glass, thermally hardened
Colour	Satin Silver Grey (close to RAL9006), Philips Ultra Dark Grey (close to RAL7022), Other RAL or AKZO colours available on request	Satin Silver Grey (close to RAL9006), Philips Ultra Dark Grey (close to RAL7022), Other RAL or AKZO colours available on request
IP-rating	IP66	IP66
IK-rating	IK08	IK08
Weight	8.5-9 kg	12 kg
ScX	0.049 m2	0.066 m2
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	- 20ºC < Ta< 35ºC	- 20ºC < Ta< 35ºC
Surge protection	4 kV	4 kV
Maintenance	From below, 5 screws. Be aware: Non captive screws.	From below, 5 screws. Be aware: Non captive screws.

MileWide² - BPP435 - Post-top

MileWide² Large - BPP436 - Post-top

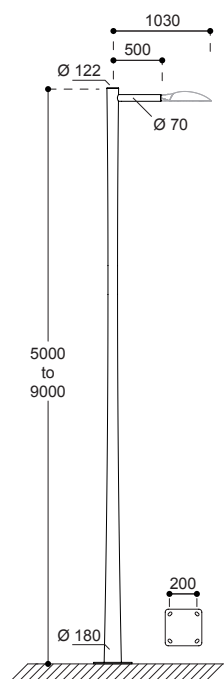MileWide² - BPP435 - Side-entry

MileWide² Large - BPP436 - Side-entry

Conversion table

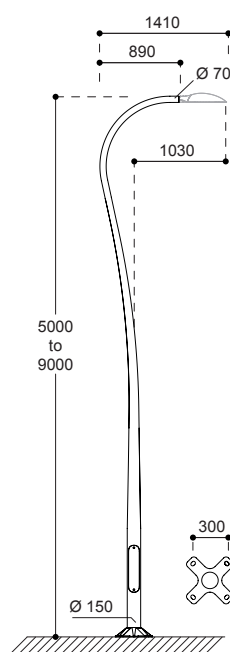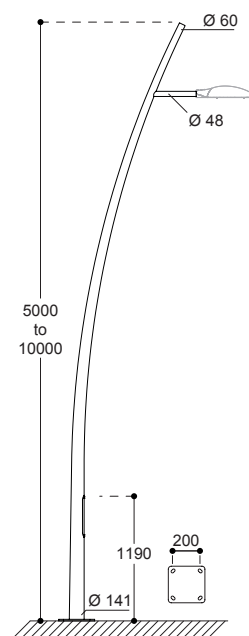| luminiare version	Product family codes	GRN	Lumen	System power WW (W)	System power NW (W)
Milewide²	BPP/BRP435	GRN19	1,900	15	14
Milewide²	BPP/BRP435	GRN22	2,200	18	16
Milewide²	BPP/BRP435	GRN25	2,500	21	19
Milewide²	BPP/BRP435	GRN30	3,000	25	23
Milewide²	BPP/BRP435	GRN35	3,500	30	27
Milewide²	BPP/BRP435	GRN40	4,000	35	32
Milewide²	BPP/BRP435	GRN45	4,500		36
Milewide²	BPP/BRP435	GRN50	5,000	38	
Milewide²	BPP/BRP435	GRN55	5,500		38
Milewide²	BPP/BRP435	GRN60	6,000	46	
Milewide²	BPP/BRP435	GRN65	6,500		46
Milewide²	BPP/BRP435	GRN70	7,000	56	
Milewide²	BPP/BRP435	GRN75	7,500		55
Milewide²	BPP/BRP435	GRN80	8,000	65	
Milewide²	BPP/BRP435	GRN85	8,500		63
Milewide²	BPP/BRP435	GRN90	9,000	73	
Milewide²	BPP/BRP435	GRN95	9,500		71
Milewide²	BPP/BRP435	GRN100	10,000	83	
Milewide²	BPP/BRP435	GRN105	10,500		79
Milewide²	BPP/BRP435	GRN115	11,500		86
Milewide² Large	BPP/BRP436	GRN81	8,100	61	
Milewide² Large	BPP/BRP436	GRN91	9,100	69	
Milewide² Large	BPP/BRP436	GRN96	9,600		66
Milewide² Large	BPP/BRP436	GRN101	10,100	78	
Milewide² Large	BPP/BRP436	GRN106	10,600		75
Milewide² Large	BPP/BRP436	GRN110	11,100	85	
Milewide² Large	BPP/BRP436	GRN116	11,600		82
Milewide² Large	BPP/BRP436	GRN120	12,000	95	
Milewide² Large	BPP/BRP436	GRN125	12,500		90
Milewide² Large	BPP/BRP436	GRN130	13,000	104	
Milewide² Large	BPP/BRP436	GRN135	13,500		98
Milewide² Large	BPP/BRP436	GRN140	14,000	113	
Milewide² Large	BPP/BRP436	GRN145	14,500		106
Milewide² Large	BPP/BRP436	GRN150	15,000	122	
Milewide² Large	BPP/BRP436	GRN155	15,500		115
Milewide² Large	BPP/BRP436	GRN160	16,000	131	
Milewide² Large	BPP/BRP436	GRN165	16,500		123
Milewide² Large	BPP/BRP436w	GRN175	17,500		131
Milewide² Large	BPP/BRP436	GRN185	18,500		138

Poles and brackets specifications

Poles and brackets specifications	Slend	Bend	Curve
Pole			
Material	Aluminium	Aluminium	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
Colour	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)
	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)
	Other RAL or AKZO colours available on request	Other RAL or AKZO colours available on request	Other RAL or AKZO colours 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			
Material	Aluminium	Aluminium	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°
Colour	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)
	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)
	Other RAL or AKZO colours available on request	Other RAL or AKZO colours available on request	Other RAL or AKZO colours 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

Slend + MileWide[2]

Bend + MileWide[2]

Curve + MileWide[2]

Brackets specifications

Brackets	UrbanWave	Fidji	Spline	Caravelle	Batio	Féroé	Mayotte
Material	Steel	Steel	Aluminium	Steel	Steel (top Ø 60 mm) Aluminium (other)	Steel	Steel
Mounting to luminaire	Side-entry Ø60mm Side-entry Ø48mm	Side-entry Ø60mm Side-entry Ø48mm	Side-entry Ø60mm Side-entry Ø48mm	Side-entry Ø60mm Side-entry Ø48mm	Side-entry Ø60mm Side-entry Ø48mm	Side-entry Ø60mm Side-entry Ø48mm	Side-entry Ø60mm Side-entry Ø48mm
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 Post-top cap for top Ø 76 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	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 centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm
Wall bracket mounting	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm	2 points and fixing centre 250mm
Tilt angle	3°	6°	7°	0°	5°	3°	3°
Colour	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)	Satin Silver Grey (close to RAL9006)
	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)	Philips Ultra Dark Grey (close to RAL7022)
	Other RAL or AKZO colours available on request	Other RAL or AKZO colours available on request	Other RAL or AKZO colours available on request	Other RAL or AKZO colours available on request	Other RAL or AKZO colours available on request	Other RAL or AKZO colours available on request	Other RAL or AKZO colours 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	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40	CE certification in accordance with standard EN40

URBANWAVE L750

URBANWAVE L1200

FIDJI L880

FIDJI L1080

SPLINE L1045

SPLINE L1205

CARAVELLE LOW 1000

CARAVELLE LOW 1420

BATIO L660

BATIO L980

FÉROÉ L960

FÉROÉ L1200

MAYOTTE L1085

MAYOTTE L1400

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