

PHILIPS

CityCharm

Public lighting



Product guide

Combining ambience and optimal performance

CityCharm

**Built to perform,
styled to delight**

The CityCharm range is designed for use in urban areas where ambience, comfortable lighting and attractive design play an important role. For urban settings like residential areas, parks, footpaths and cycle lanes, visual comfort combined with maximum efficiency is key. With its unobtrusive appearance and energy-saving technology, the timeless, future-proof CityCharm series delivers on both counts. By day and by night, CityCharm is the perfect solution for enhancing the ambience in your city.



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Designed for high visual comfort

Visual comfort, uniformity and clear guidance are among the most-valued lighting features in residential and city center areas. This is especially true of city zones with many pedestrians, like parks, boulevards and footpaths. To keep your city abuzz with life and good energy, you want people to feel safe while enjoying their environment to its fullest. With its transparent design and effective lighting capacities, CityCharm will help you do just that – elevating your city's areas' appeal even as it illuminates them.



Excellent value for money

CityCharm is the perfect solution for renovation areas as for new installations. Its complete design, high quality finishing and optical performance are state of the art and make the product a future proof solution for residential streets, parks, squares and city centers.



Comfort at its best

Whether you prefer most optimal performance or comfortable lighting or something in between CityCharm is the right choice for you. A broad range of optical possibilities and several optical diffusing tools enable you to find your best balance.



Able to customize

CityCharm comes in two designs and offers various brackets and poles to enhance the charm of your city in the best way. It even enables you to play with the volume of the bowl on a smart way.

Applications

A high degree of flexibility

Dedicated to creating an appealing and comfortable atmosphere, the slim, discreet CityCharm range combines design consistency, a high level of lighting performance and a unique color signature. The full range is modular – from poles, brackets and luminaires to color effects – and therefore offers a high degree of flexibility, not only in terms of integration with the architectural context, but also in its range of applications.

CityCharm 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.

City Center

- Side street
- Square, park & playground
- Cycle path & footpath
- Shopping & pedestrian area
- Parking area
- Public transport area

Residential area

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





Public lighting

CityCharm

Applications





Public lighting

CityCharm

Applications



Family range

The CityCharm range is designed for use in urban areas where ambience, comfortable lighting and attractive design play an important role. It offers a choice of two iconic designs and accessories, giving you the possibility to build your own signature. CityCharm is the perfect solution for enhancing the ambience in your city.



CityCharm Cordoba

CityCharm Cone



Two designs

CityCharm comes in two designs, the Cone and Cordoba. Both have their own identity for more classical or modern architectural contexts.

A clean geometry and the use of highly qualitative materials makes CityCharm elegant and fitting easily in any urban environment.

Play with volume

The standard versions are equipped with the dark grey inner parts, but you can also leave them out, to create a bigger volume.



Orange color effect



Blue color effect



Green color effect



Dark grey color effect



Without color effect

Color effects

CityCharm enables you to create your own outlook of your design with some colored inner parts that can be placed inside the transparent bowl, to change its day time appearance and give a nice color signature during night time. All colored parts are available for Cone and Cordoba.

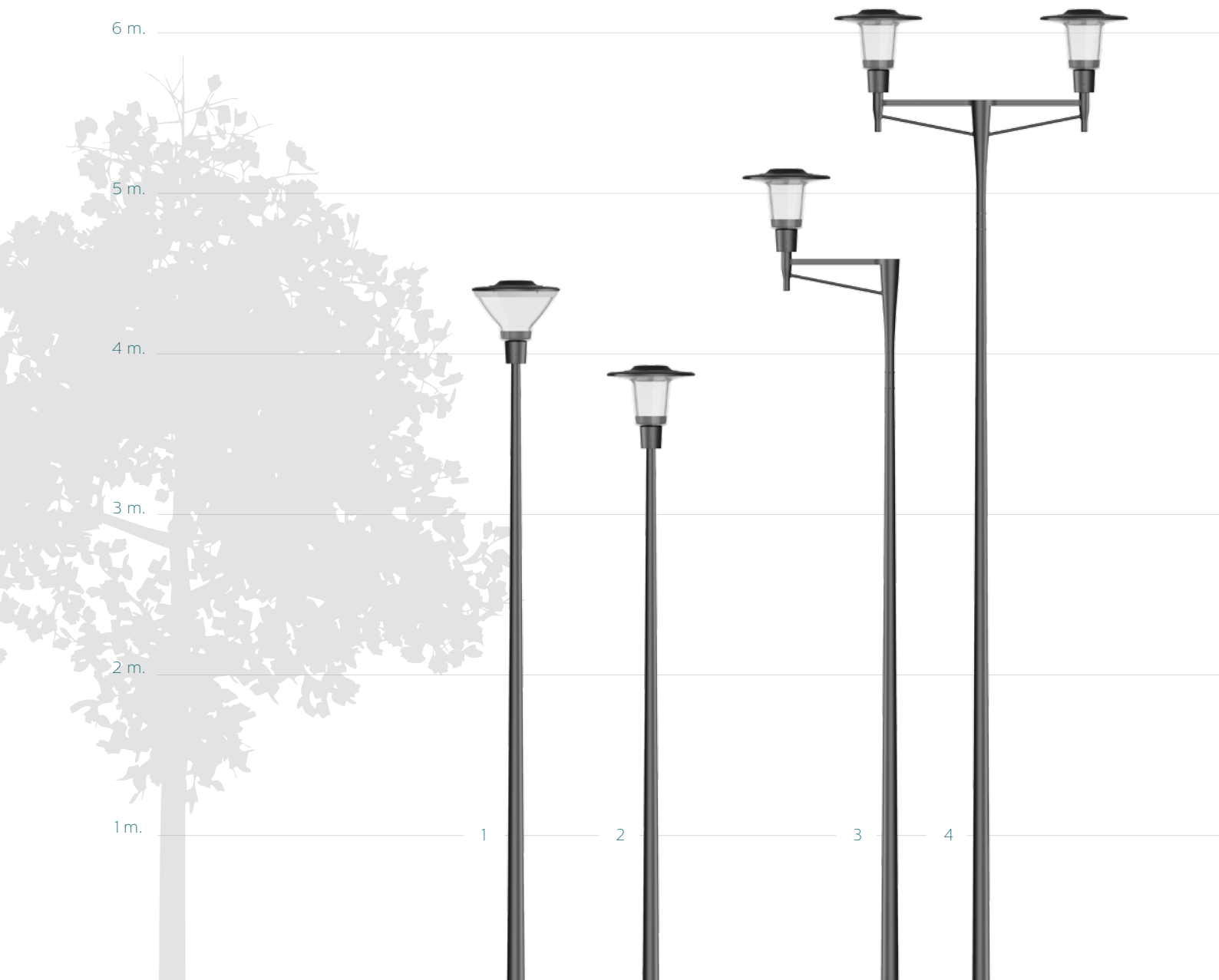


Complete sets

CityCharm Cordoba and Cone are available with a dedicated pole and dedicated brackets that give new or retrofit installations a consistent urban identity.

Complete sets

CityCharm comes with a wide choice of spigots, poles and brackets to fit different installation heights and application contexts. From post-top to side-entry and wall-mounted, CityCharm can provide it all. The range is equally suited for new installations and renovations, at any architectural scale.





- 5** CityCharm Cone with dedicated single arm bracket and Accante pole 4 m
- 6** CityCharm Cordoba with dedicated pole 3,6 m
- 7** CityCharm Cone with dedicated pole 4,6 m
- 8** CityCharm Cordoba with dedicated wall mounting bracket

Comfort & ambience

CityCharm was designed for applications in which comfortable lighting is always important. To enhance the range's flexibility, we have included two different diffusing solutions. That way you can tailor your solution to fit your specific lighting requirements.

For area and square lighting (typical S classes) CityCharm can be adjusted with a plate to diffuse the light.

For road and street applications (S, CE and P classes complying with ROVL standards) choose a more gentle beam.

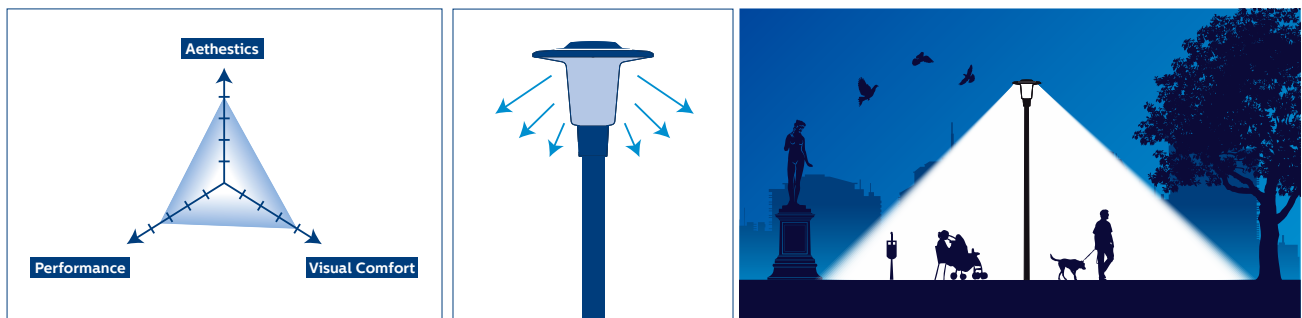


GentleBeam

The use of microlinear prisms enhances visual comfort by creating the appearance of a lighting surface with moderate luminance. At the same time, application performance remains high.

The optical system that delivers the best visual comfort and lighting performance consists of high-power LEDs, an array of lenses and a diffusing cover with a uni-dimensional microtexture, which is oriented at 0° with respect to the vertical axis. GentleBeam combines high performance with high visual comfort.

GentleBeam



Light trespass

If CityCharm is installed in residential areas and additional lightcontrol is required to prevent light trespassing, a louver is available to control back light. This louver is placed on top of the LEDboard and will not impact its day time appearance.



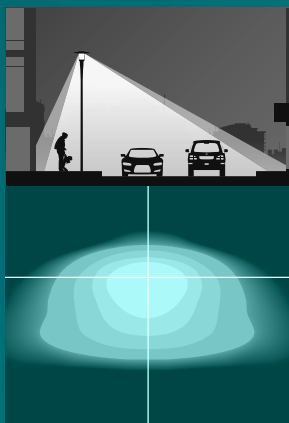
The louver is placed in front of the lenses



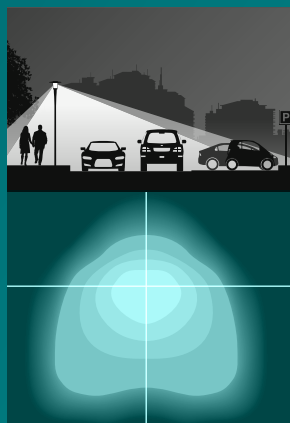
To prevent Light trespass, a louver can be ordered

Lighting performance

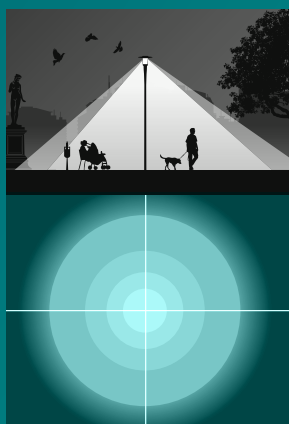
CityCharm has a very broad palette of optical distributions and combined with the high lumen range it will enable you to achieve practically any light level you need for your street, squares and area lighting. It offers up to 10,000 lumen (source).



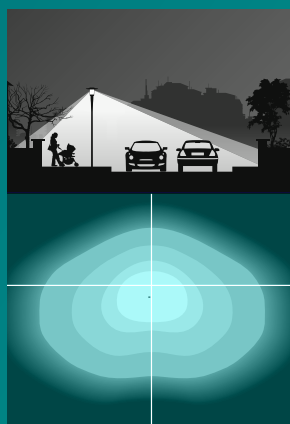
**DM Distribution
Medium**



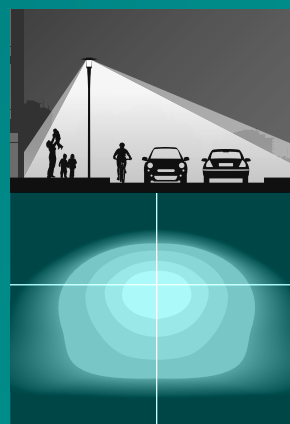
**A Distribution
Asymmetrical**



**S Distribution
Symmetrical**



**DV Distribution
Wide for vertical
illuminance**



**DW Distribution
Wide**

Serviceability

CityCharm was designed to last a lifetime. In case of an incidental failure, it is very easy to access and service the most critical components, like the driver.

Driver access

CityCharm allows you to easily access and replace the driver on site within a couple of minutes, using only a screwdriver. See the five simple steps below.



Step 1:

Unscrew three screws to open the cover.



Step 2:

Remove the cover. The captive screws will remain placed.



The cover is installed with a safety cord.



The driver gear tray is now easily accessible.



Step 3:

Loosen two screws and unscrew a third screw to remove the driver. Detach the wires with click connectors. Install the new driver.



Step 4:

Place the top cover back on its place. This can only be done in one way. Two triangles will help you to find its right location.



Step 5:

Close the cover.

Placing the louver after installation

If after installation a louver is required to better control the back light, it is possible to place a louver inside CityCharm. It is not advised to do this on site. Please follow the steps below.



Step 1:

To access the LED board, six screws need to be unscrewed. (Please pay attention. The crews are non-captive and the bolt is loose).



Step 2:

Turn the cover around to have access to the LED board.



Step 3:

Unscrew the four screws of the LED board.



Step 4:

Place the louver on the lenses.



Step 5:

Screw the four screws back onto the LED board.



Step 6:

Put the cover back in place.



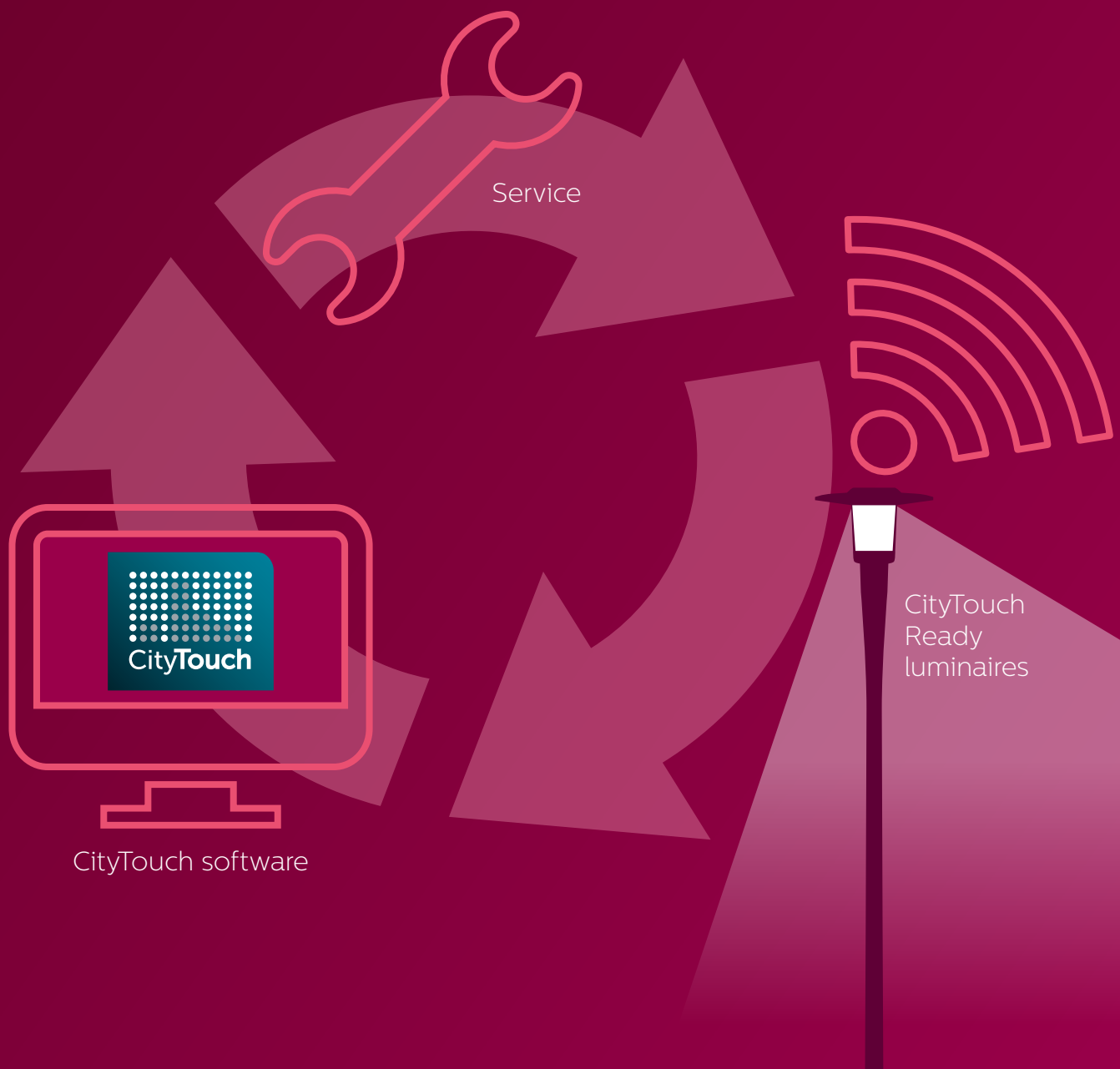
Step 7:

Close the cover with the six screws.

CityCharm 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

CityCharm 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.

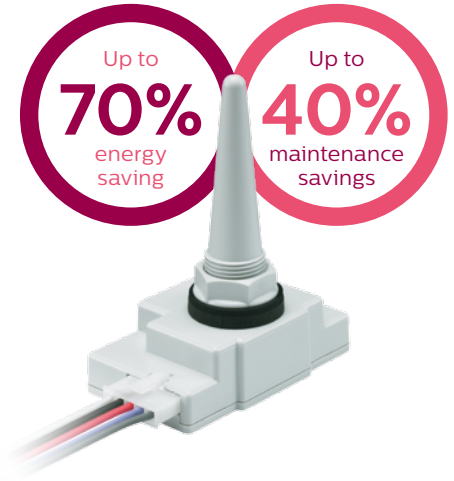
Network controls

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.



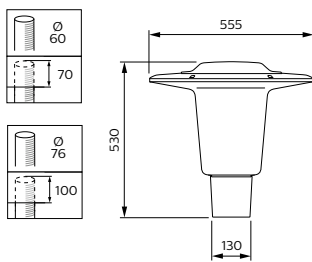
DynaDimmer control

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.

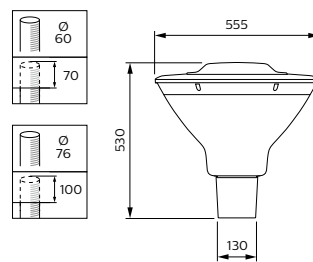


Dimensional drawings

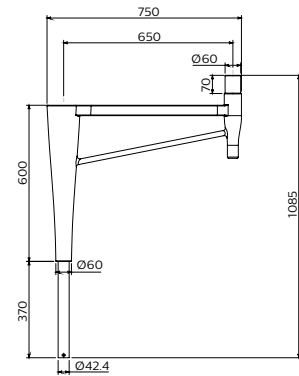
Cordoba



Cone

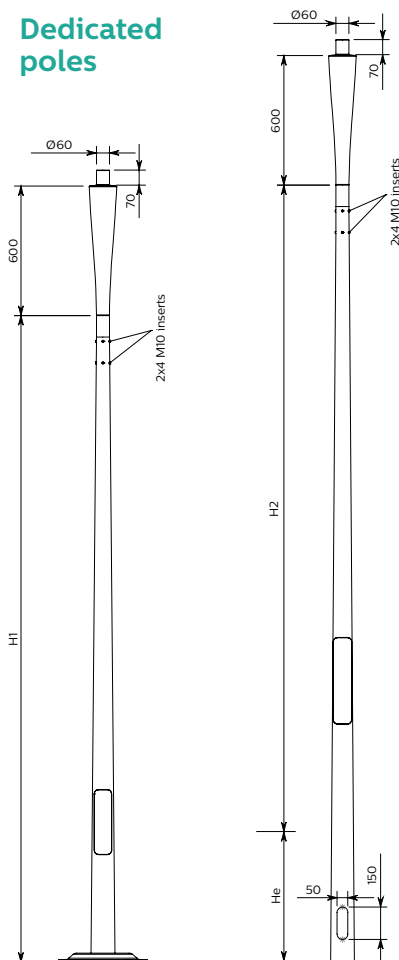


Dedicated brackets



Single arm bracket

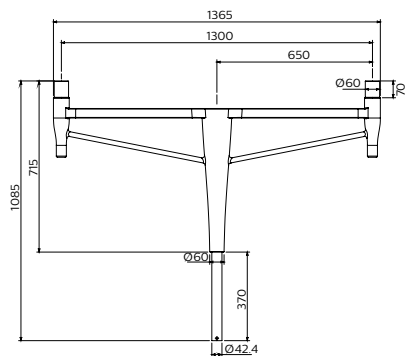
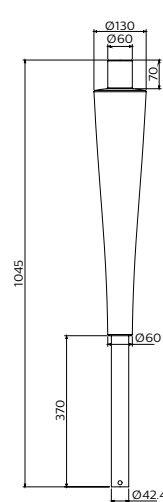
Dedicated poles



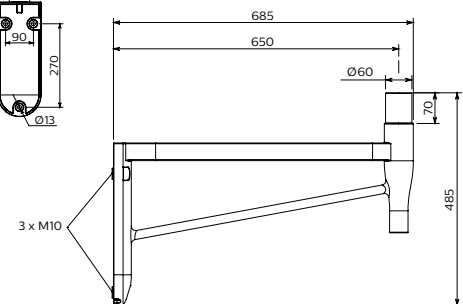
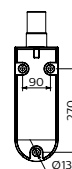
Flange plate

Ground section

Dedicated post-top bracket



Double arm bracket

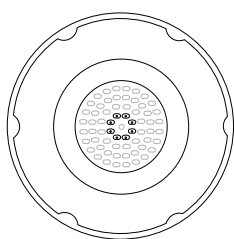


Wall mounting bracket

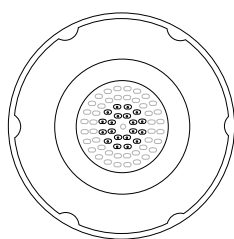
Main specifications

Product features	CityCharm Cordoba / Cone
Type	BDS490 (Cordoba) - BDS491 (Cone)
Light source	Integrated LED module
Color temperature	3,000 K (warm white), 4,000 K (neutral white)
Color Rendering Index	70 (neutral white), 80 (warm white)
Luminous flux	1,100-7,400 lm (warm white), 1,100-7,450 lm (neutral white) depending on LED configuration
Power	9 W-82 W (warm white), 9 W-75 W (neutral white) depending on LED configuration
Luminaire efficacy	up to 130 lm/W
Lumen maintenance	up to 100,000 hours
CLO	CLO is available
Warranty	Silver 5 years
Optic	Distribution Medium (DM) Distribution Wide (DW) Distribution Symmetrical (S) Distribution A-symmetrical (A) Distribution Vertical (DV)
Optical cover	Polycarbonate UV resistant
Installation	Post-top: Ø 60/76 mm. No adjustable tilt angle
Controls system input	DALI
Driver	Philips Xitanium Driver
Inrush current driver	27 W: 28 A/150 µs; 40 W: 28 A/150 µs; 100 W: 80 A/100 µs
Intelligence control	LumiStep (LS), DynaDimmer (DDF), SDU (D4) only for 100 W, LineSwitch (D110 for 27 W/40 W), StarSense RF Wireless and CityTouch Ready
Mains voltage	210-240 V / 50-60 Hz
Electrical class	I-II
Material	Housing: high-pressure die-cast aluminum, coated Housing: high-pressure die-cast aluminum, non corrosive Bowl: polycarbonate, reinforced against UV Gasket: silicone rubber heat resistant Optics: plastic (PMMA)
Color	Philips Ultra Dark Grey (close to RAL7022), other RAL or AKZO colors available on request
IP rating	IP66
IK rating	IK10
Weight	11-12 kg depending on configuration
SCx	SCx CityCharm Cordoba: 0,1124 m ² SCx CityCharm Cone: 0,1155 m ²
Electrical connection	M20 cable gland with strain relief, for cable Ø 6-10 mm
Operating temperature range	-20°C < Ta < 35°C
Surge protection	4 kV (10 kV optional)
Maintenance	Access to the driver compartment, 3 screws

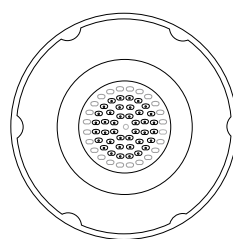
LED configurations



CityCharm: 8 LEDs
GRN10-GRN25



CityCharm: 20 LEDs
GRN30-GRN50



CityCharm: 40 LEDs
GRN60-GRN100

Specification table

Luminaire version	Product family code	Lumen package	Source flux (lm)	Power system (W)	
				WW	NW
CityCharm Cordoba	BDS490	GRN10	1,100	10	9
CityCharm Cordoba	BDS490	GRN15	1,500	14	13
CityCharm Cordoba	BDS490	GRN20	2,000	18	17
CityCharm Cordoba	BDS490	GRN25	2,500	23.5	22
CityCharm Cordoba	BDS490	GRN30	3,000	24.5	22
CityCharm Cordoba	BDS490	GRN40	4,000	33.5	30.5
CityCharm Cordoba	BDS490	GRN50	5,000	43.5	39
CityCharm Cordoba	BDS490	GRN60	6,000	47	41.5
CityCharm Cordoba	BDS490	GRN70	7,000	56	51
CityCharm Cordoba	BDS490	GRN80	8,000	64	59
CityCharm Cordoba	BDS490	GRN90	9,000	74	67
CityCharm Cordoba	BDS490	GRN100	10,000	82	75
CityCharm Cone	BDS491	GRN10	1,100	10	9
CityCharm Cone	BDS491	GRN15	1,500	14	13
CityCharm Cone	BDS491	GRN20	2,000	18	17
CityCharm Cone	BDS491	GRN25	2,500	23.5	22
CityCharm Cone	BDS491	GRN30	3,000	24.5	22
CityCharm Cone	BDS491	GRN40	4,000	33.5	30.5
CityCharm Cone	BDS491	GRN50	5,000	43.5	39
CityCharm Cone	BDS491	GRN60	6,000	47	41.5
CityCharm Cone	BDS491	GRN70	7,000	56	51
CityCharm Cone	BDS491	GRN80	8,000	64	59
CityCharm Cone	BDS491	GRN90	9,000	74	67
CityCharm Cone	BDS491	GRN100	10,000	82	75

Bracket specifications

Bracket specifications	CityCharm dedicated pole	CityCharm dedicated post-top bracket	CityCharm dedicated bracket
Material	Aluminum	Aluminum	Aluminum
Mounting to luminaire	Post-top Ø 60 mm	Post-top Ø 60 mm	Post-top Ø 60 mm
Bracket size	-	-	650 mm
Tilt angle	0°	0°	0°
Color	Satin Silver Grey (close to RAL9006) Philips Ultra Dark Grey (close to RAL7022) Other RAL or AKZO colors available on request	Satin Silver Grey (close to RAL9006) Philips Ultra Dark Grey (close to RAL7022) Other RAL or AKZO colors available on request	Satin Silver Grey (close to RAL9006) Philips Ultra Dark Grey (close to RAL7022) 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

Pole specifications

Pole specifications	YHM490 dedicated pole
Material	Steel
Total pole height	3,6 m, 4,6 m and 5,6 m
Installation type	Ground section and flange plate
Color	Satin Silver Grey (close to RAL9006) Philips Ultra Dark Grey (close to RAL7022) Other RAL or AKZO colors available on request
Certification	CE certification in accordance with standard EN40

