Metronomis LED

Play of light and shadow
Designed for unified diversity

The idea behind the design

Our designers wanted the complete solution of the new Metronomis LED to be contextually relevant, both in terms of its execution and the underlying philosophy.

Designing a complete set is not just about the form of luminaire and pole; it is also about something intangible - the actual light itself. The aim of the design is to give you the aesthetic and functional flexibility of a range to fit into any environmental context in any given city.

Marko Macura, Creative Director at Philips Design Lighting: “Metronomis LED has a modest design - not shouting - and respects the environment. The same is true of the product detailing. The design is based on the ‘skin’ analogy, as it contains everything but, like a balloon, it is seamless.”

Aesthetically, the silhouette of Metronomis LED bears some resemblance to its predecessor whilst also ensuring an enduring design for the future. The new range offers flexibility and modularity, allowing you to create bespoke solutions.

To elevate the total design we addressed the basic human need for personalization. This range offers the possibility to customize - and even personalize - the urban environment using the light itself, both inside the luminaire and in the surrounding space. The decorative light patterns on the ground give new meaning to city signatures.

All in all, Metronomis LED provides you with the total solution you need to create a unified and consistent lighting design that nevertheless reflects the differences in urban culture and history.
Applications

Wide range of applications and light effects

Metronomis LED is the first urban inspiration range that meets the needs of tomorrow's urban development trends by providing tools to enable you to experiment with lighting effects, or what we call 'the play of Light and Shadow', to help you elevating the ambiance of your street, square or any other area.

Typical installations are given in the next pages, within the theme that are most important to you: light dedicated for people, personalization of the space and night preservation but also energy saving.

Personalization

Metronomis LED enables to personalize urban lighting installations with a variety of lighting effects. Lighting planners can thus add a touch of individuality to lighting projects to create a dedicated atmosphere and identity.

Comfort

The best lighting is probably the one people don't notice. And one of the complaint often heard is about glare. To reduce this, the best is to have a smart lighting scheme. And chosing the best optic is often key. In Metronomis LED, we have solutions to create a soft and comfortable light.

Night preservation

Night preservation is about reducing different types of nuisance caused by light leaving the boundaries of a property. In residential or city center areas, we want to preserve the darkness of the night.

Energy Efficiency

Urban lighting is one of the areas where energy saving is a top priority. And the LEDGINE technology creates great opportunities. The success of a lighting installation is not only a question of aesthetics. A sound energy bill and optimized installation are also essential.
Applications

The efficient and timeless Metronomis LED post-top range combines design, high quality lighting performance and a unique play of light effects. The full range is modular, from poles to luminaire to light effects and therefore offers a high flexibility not only in terms of different architectural context, but also in terms of applications.

Metronomis LED is part of our Urban inspiration lighting portfolio and incorporating all necessary functional primarily aspects of lighting, but with strong focus on the emotional values of lighting. To create the right ambiance, enhance areas, increase well-being, promote tourism and heritage and increase the livability in the city. For every application in the city we do have several solutions to really inspire and enhance your city, while meeting your demands and beyond.
Applications
Applications
Applications
Applications
Family range

Metronomis LED has four different bowl versions, which have a coherent family look and feel and are mainly characterized by transparency. This means they can fit in seamlessly with any architectural style. The range is entirely modular, from the bowl design to the different dedicated poles and the light effects.

Bowl shapes

Metronomis LED luminaires are featured by a pure, serene and transparent concept that is reflected in a choice of conical and fluid bowls; Fluid, Sharp, Torch and Torch with Hat. Metronomis LED is suitable for post-top Ø 60 mm (all dedicated poles) and Ø 76 mm installations.

Metronomis LED Cone family

Metronomis LED Fluid
The Fluid is characterized by its smoothly curved silhouette and transparent design. Echoing elements of Metronomis Annecy, Cambridge and Berlin, it is the perfect successor to these conventional luminaires.

Metronomis LED Sharp
The Sharp is characterized by the straight lines of the bowl, giving it a more modern look and feel. Sharp is considered to be the perfect shape for modern applications such as business parks and commercial centers.

Metronomis LED Torch family

Metronomis LED Torch
The Torch bears a clear resemblance to the classic Metronomis Torino. Its slim shape, enhanced by the transparent bowl, is even more discreet and iconic than that of the Fluid and the Sharp.

Metronomis LED Torch with Hat
The hat of the Torch may only be an accessory but, as the image shows, it completely changes the look and feel of the Torch. It reminds of Metronomis Malmo, without the arms.
Family range

Dedicated poles

Further diversity is provided by selecting between a variety of dedicated poles and material finishings. The wide range of poles includes steel, aluminium and wood with either conical, cylindrical or profiled shapes.
Light effects

Bowl effects

Without effect

> Optimized efficiency
> Very good uniformity
> Maximum spacing
Flux: 1,500 - 12,000 lm
Optic: all

Available for:

Diffusing plate DF

> Strong visual comfort
> Cozy atmosphere
Flux: 1,500 - 12,000 lm
Optic: all

Vertical Diffused tube VD

> Vertical decorative element, frosted effect
> Visual comfort
Flux: 1,500 - 7,000 lm
Optic: no

Available for:

Vertical Holographic tube VH

> A play of textures inside the vertical element
> Visual comfort
Flux: 1,500 - 7,000 lm
Optic: no

Prismatic Circle effect plate CIR

> A play of reflection in the bowl
> Create ambiance
Flux: 1,500 - 3,000 lm
Optic: MDS only

Prismatic Line effect plate WAV

> A play of reflection in the bowl
> Create ambiance
Flux: 1,500 - 3,000 lm
Optic: MDS only

Prismatic Diamond effect plate DIA

> A play of reflection in the bowl
> Create ambiance
Flux: 1,500 - 3,000 lm
Optic: MDS only

Available for:
Light effects

Decorated bowls

Engraved lines inside the bowl

> A play of light and reflection in the bowl
> Creates ambiance

Flux: 1,500 - 7,000 lm
Optic: all

Available for:

Via a metalized decoration (GD)

> A play of light and reflection in the bowl
> Creates ambiance

Flux: 1,500 - 12,000 lm
Optic: all

Available for:

Preventing light trespass

> Shield to prevent light trespass
> Creates greater visual comfort

Flux: 1,500 - 7,000 lm
Optic: all

Available for:
Light effects

Projection on the ground

AmbiPattern® is a trademarked feature that enables you to customize urban lighting installations with a variety of ambient light effects. Depending on the type of application, the luminaires can project a play of light and shadow onto the ground to create attractive ambient patterns. Four patterns have been pre-selected.

Concentric circle CON
- Flux: 3,000 lm recommended
- Optic: MDS only

Star STAR
- Flux: 3,000 lm recommended
- Optic: MDS only

Foam FM
- Flux: 3,000 lm recommended
- Optic: MDS only

Honeycomb HC
- Flux: 3,000 lm recommended
- Optic: MDS only

Creating your own patterns

Next to the four standard AmbiPattern® ground patterns you can create your own pattern to personalize your project. For example with a city mark or to highlight a local hero or even reflect the event of the day. When using AmiPattern® ground effects you need to apply certain specifications to get the best result. The projected pattern has a maximum diameter on the ground of 16m for a mounting height of 5m.

Your personal pattern
- Flux: 3,000 lm recommended
- Optic: MDS only

Available for:
Light effects

Guidelines for selecting the right context

✔ For good visibility, the area surrounding the pattern projection should be kept in darkness.

Metronomis creates enough light to light the space. If there is ambient light, an average level of 5 lux is a recommended maximum to have a good visibility of the pattern.

✔ A light and uniform ground will create a visible projection. We recommend not to project patterns on very dark or textured surfaces, such as paved floors. On green areas, the uniformity of the grass depends on the seasons: dead leaves, for example could blur the light projection.

Guidelines for creating personal patterns

✔ To create your own design, please be aware that your pattern will be projected in a circle. Therefore you must create your pattern in a circle, with a self-chosen diameter. This can be done in a jpeg-format, bitmap or alike.

✔ It is recommended to use a line thickness of > 4% of your chosen diameter, to ensure a good visible result. Less than 5 mm is not recommended as the result will be more sensible to surrounding light and less visible.

✔ Be aware that due to the pole, a small dark discus-shadow will be present in the pattern projection.

✔ Pay attention that AmbiPattern® deals with patterns and not projection, meaning that it is difficult to create a very sharp image on the ground.

✔ It is recommended not to use text or figures because this is not adapted to the concept and scope of AmbiPattern®. The sharpness of a letter or figure is strongly defined by the corners it is composed of. As a result, a letter’s thickness is not fulfilled in the corners. Next to that, figures and text are direction sensitive, meaning that it can be seen and understood from a limited view angle.

✔ Of course, a letter can be inserted as a logo but with the latter risks.
**Metronomis LED complete sets**

With a choice of six dedicated poles, the Metronomis LED luminaires represent a unified design solution that can be confidently installed in both modern and heritage architectural cityscapes.

1. **MetroTube**: a straight aluminium pole seamlessly merged together with the luminaire
2. **MetroCone**: a unique conical wooden pole that merges with the luminaire
3. **MetroRiginal**: a new interpretation of the original Metronomis silhouette in aluminium
4. **MetroWood**: a straight wooden pole seamlessly merged with the luminaire
5. **MetroLight**: a unique light signature that creates a play of light and shadow with the pole
6. **MetroLat**: a unique pole design that shows a play of light to make the luminaire be ‘floating’

**Complete sets with Metronomis LED Fluid**

Metronomis LED complete sets

Complete sets with Metronomis LED Sharp


Complete sets with Metronomis LED Torch

Lighting performance

Light distribution

Metronomis LED offers a wide range of lighting distributions for different applications, based on LEDGINE technology.

MDM Metronomis Distribution Medium

ME3 (to ME6) and CE class for road and street lighting
Luminous intensity class: Fluid: G0
Sharp / Torch: G3

MDW Metronomis Distribution Wide

ME3 (to ME6) and CE class for road and street lighting
Luminous intensity class: Fluid: G0
Sharp / Torch: G3

MDV Metronomis Distribution Wide for vertical illuminance

S class for area and square lighting
Luminous intensity class: Fluid: G1
Sharp / Torch: G3

MDA Metronomis Distribution Asymmetrical

S class for area and square lighting
Luminous intensity class: Fluid: G0
Sharp / Torch: G3

P class complying with ROVL standards
Luminous intensity class: Fluid: G0
Sharp / Torch: G1
Lighting performance

Application examples

The Metronomis LED family range is suitable for many different applications. You can choose the best version for your project related to the street width and the performance that is the most important to you: personalization, comfort, night preservation or energy efficiency.

**Metronomis LED Sharp**

Light source: GRN50-2S 830

- Sharp bowl for ME classes
- Optic: MDM
- Road width: 6 m
- Spacing: 25 m
- System power: 50 W

**Metronomis LED Fluid**

Light source: ECO90-2S 830

- MDW for larger road
- Optic: MDW
- Road width: 8 m
- Spacing: 36 m
- System power: 91 W

**Metronomis LED Torch/Torch with Hat**

Light source: ECO90-2S 830

- Shield to control light trespass
- Optic: MDW + Shield
- Road width: 8 m
- Spacing: 36 m
- System power: 91 W

Residential street
Lighting performance

Application examples

**Cycle and footpath**

**Metronomis LED Torch**
Light source: GRNS0-2S 830

- Optic: MDM
- Road width: 4 m
- Spacing: 28 m
- System power: 51 W

**Optimized for energy efficiency**

**Metronomis LED Torch**
Light source: ECO60-2S 830

- Optic: MDS + DF
- Road width: 8 m
- Spacing: 22 m
- System power: 62 W

**Diffuse plate DF for visual comfort**

**Optimized for comfort**

**Metronomis LED & Washlight**
Light source: ECO60-2S 830

- Optic: MDS + DF
- Road width: 8 m
- Spacing: 22 m
- System power: 62 W

**Washlight to add atmosphere**

**Optimized for personalization**

**S2 class and light effect**
Lighting performance

Application examples

**Squares**

**Metronomis LED Torch**
Light source: GRN60-2S 830

- Optic: MDS
- Spacing: 20 m
- System power: 62 W

**Metronomis LED Torch**
Light source: GRN40-2S 830

- Optic: VD
- Spacing: 16 m
- System power: 41 W

**Metronomis LED Sharp**
Light source: ECO30-2S 830

- Optic: MDS + STAR(pattern)
- Spacing: 16 m
- System power: 37 W

Optimized for energy efficiency
Optimized for comfort
Optimized for personalization
Focus on effect
Serviceability

Access to the driver

1A: To access the driver, unscrew the two Philips head screws and remove the opening plate. A safety cable will keep the plate attached to the housing.

1B: Disconnect the tool-less connectors on both sides of the driver and remove the complete gear tray from to access the driver screws.

Access to change LED board or optic

2A: Unscrew the captive Philips head screws of the aluminium top, 6 for the Fluid and Sharp, 4 screws for the Torch.

2B: Turn the hat upside down, a safety cable will prevent you of losing the hat. Now you can access the LED board or optic to change.
Metronomis LED 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. But you are also under pressure to reduce energy costs and maximize your green credentials. Philips offers you a complete intelligent lighting controls range to help you overcome all those problems and make the city more livable and sustainable.

CityTouch LightWave

Metronomis LED can be seamlessly connected with CityTouch LightWave via integration of all the intelligence into the luminaire without any additional hardware needed. The communication runs directly via the public mobile network. As a positive side effect, no own maintenance effort is required. In addition, the whole connectivity management is part of our service which keeps any hassle away from you as a customer. 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 your street lighting. It brings your city lighting to life and provides you with flexibility, knowledge and accuracy.

Flexibility means that you will be easily able to act or react according to expected and unexpected situations by dimming or brightening all areas within your city to ensure safety and well-being. Knowledge implies that you are always informed about the current status of every single luminaire – for better maintenance and faster repairs. Accuracy stands for precise energy metering which gives you a perfect overview on real non-estimated energy consumption.

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.
Metronomis LED 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 savings (on power system) is 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. For example, an average energy saving of approximately 50% per year can be realized.

Starsense Wireless with RF antenna
A system to control and monitor remotely light points, that works independently with practically any light source. It is not limited in available power scenarios. Starsense allows to have feedback from the installation, which supports easy maintenance. This solution can generate up to 70% energy savings and 40% on maintenance costs. StarSense RF is not possible for lower lumen package (up to 3,000 lm) and all Torch versions. Please check the availability with your Philips contact.
Dimensional drawings

Metronomis LED Fluid

Metronomis LED Fluid 60 or 76

Metronomis LED Fluid SP

Metronomis LED Fluid SP-BL or SP-WW or SP-NW

Metronomis LED Sharp

Metronomis LED Sharp 60 or 76

Metronomis LED Sharp SP

Metronomis LED Sharp SP-BL or SP-WW or SP-NW

Metronomis LED Torch & Torch with Hat

Metronomis LED Torch 60 or 76

Metronomis LED Torch SP

Metronomis LED Torch SP-BL or SP-WW or SP-NW

Metronomis LED Torch with Hat 60 or 76
# Main specifications

<table>
<thead>
<tr>
<th>Product features</th>
<th>Specifications</th>
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</thead>
</table>
| **Type**         | Metronomis LED Torch BDS650 (version without hat)  
|                  | Metronomis LED Torch BDS651 (version with hat)  
|                  | Metronomis LED Sharp BDS660  
|                  | Metronomis LED Fluid BDS670 |
| **Light source** | Built-in LED module |
| **Color temperature** | 3000K (warm white) • 4000K (neutral white) |
| **Color Rendering Index** | 75 (neutral white) • 80 (warm white) |
| **Luminous flux**  | BDS650/651:  
|                  | GreenLine: 1,350 to 4,300 lm  
|                  | EconomyLine: 2,200 to 6,100 lm  
|                  | BDS660/BDS670:  
|                  | GreenLine: 1,400 to 7,100 lm  
|                  | EconomyLine: 2,250 to 10,650 lm |
| **Power**         | BDS650/651:  
|                  | 15 to 75 W  
|                  | BDS660/BDS670:  
|                  | 16 to 130 W |
| **Luminaire efficacy** | BDS650/651:  
|                  | Up to 90 lm/W (warm white)  
|                  | Up to 100 lm/W (neutral white)  
|                  | BDS660/BDS670:  
|                  | Up to 90 lm/W (warm white)  
|                  | Up to 105 lm/W (neutral white) |
| **Lumen maintenance** | GreenLine: 100,000 hours • EconomyLine: 70,000 hours |
| **CLO**           | CLO is available |
| **Warranty**      | Silver 5 years |
| **Optic**         | Metronomis Distribution Medium (MDM) • Metronomis Distribution Wide (MDW) • Metronomis Distribution Symmetrical (MDS) • Metronomis Distribution Asymmetrical (MDA) • Metronomis Distribution Wide for vertical illuminance (MDV) |
| **Installation**  | Select SP mounting for the following dedicated poles: MetroLat • MetroTube • MetroRiginal • MetroWood.  
|                  | For a MetroLight pole please select the mounting option SP-BL (blue), SP-WW (warm white) or SP-NW (neutral white) |
| **Controls system input** | 1-10 V and DALI |
| **Driver**        | Philips Xitanium Driver |
| **Intelligence control** | LumiStep (LS) • DynaDimmer (DDF) • SDU (D4) • External dimming 1-10V (D7/D9) • StarSense Wireless with RF antenna • CityTouch client |
| **Mains voltage** | 220-240 V / 50-60 Hz |
| **Electrical class** | I • II |
| **Material**      | Housing and top cover high-pressure aluminum. Optical cover polycarbonate, UV reinforced |
| **Color**         | Philips Ultra Dark Grey (10714). Other RAL colors available on request |
| **IP-rating**     | IP66 |
| **IK-rating**     | IK10 |
| **Weight**        | Max 13.5 kg |
| **ScX**           | Metronomis LED Fluid 0.2016 m² • Metronomis LED Sharp 0.1991 m²  
|                  | Metronomis LED Torch 0.21 m² • Metronomis LED Torch with Hat: 0.24 m² |
| **Electrical connection** | Wieland connector 3-pole mains (and 2-pole control signal) |
| **Operating temperature range** | -20 to +35 °C |
| **Maintenance**   | Only one tool required to open the luminaire for all maintenance activities (standard Philips screws)  
|                  | To open the top: four screws (for BDS650/651) or six screws (for BDS660/670) in order to change patterns and optics  
|                  | To open the gear tray: two screws and tool-less connectors |
Poles specifications

<table>
<thead>
<tr>
<th>Poles specifications</th>
<th>MetroTube</th>
<th>MetroRiginal</th>
<th>MetroCone</th>
<th>MetroWood</th>
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