PHILIPS



Public lighting



Product guide

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Luma

Keeping up with the city's heartbeat

Cities change from hour to hour and day to day. Streets, roads and public spaces bustle with life 24/7. Street lighting presents special challenges when taking into account the often rapid changes in traffic density and traffic levels. The right lighting infrastructure makes it easier for you to keep up with city life's ever-changing dynamics, and gives you the opportunity to create an attractive urban environment where people feel safe and welcome. The Luma range provides all of this, and a little more. It allows you to keep up with your city's heartbeat.









In perspective

In control



Connected lighting Network controls Stand alone controls



Rivas, Spain

Public lighting Luma Index

Family range



Complete sets



Applications A high degree of flexibility



Dimensional drawings



Specifications

Main specifications Specification table

66 Let the streets come alive "

LED lights the way

City planners think big when it comes to lighting. In cities where human activity is everywhere it is important to guide traffic down well-lit roads. Technical infrastructure is a major long-term investment and when you're planning ahead the lifetime costs of the lighting system need to be considered. Additionally public lighting requires energy consumption, so the more energy-efficient and sustainable the better it is.

The Luma range by Philips checks all these boxes: compromise-free LED lighting that offers highperformance illumination for real-world lighting needs. This affordable alternative to existing conventional lighting solutions generates big energy savings and minimizes maintenance costs. It covers the complete field of illuminance (S) and luminance (ME) lighting classifications, up to ME1.

Tailored to your needs

The Luma family includes five separate sub-ranges for specific applications, all of which work seamlessly together to give your city a coherent and consistent "light signature":

- Luma 3 is the largest (with up to 200 LEDs per luminaire) and is suitable for highways and other settings that require powerful high-elevation lighting
- Luma 2 is slightly smaller (up to 120 LEDs); it is the perfect solution for heavy-usage urban traffic routes



eer, The Netherlands



Wide choice

Choice of lens optics to match international road and street geometries. Combination of lenses and tilt adjustment options ensure high project flexibility.

Energy savings Dedicated lumen packages deliver energ savings of over 50%, w

packages deliver energy savings of over 50%, with a related reduction in CO₂ emissions. Public lighting Luma Introduction

- Luma 1 (up to 80 LEDs) scales down to applications along smaller residential or suburban streets
- Luma Mini (up to 40 LEDs) had more compact and elegant design – a perfect fit for lower installation heights like footpaths and bicycle lanes
- Luma Micro (up to 20 LEDs) is the smallest and newest member of the family; it enables highresolution lighting in very small spaces like alleyways and side streets

Each of these Luma versions can be outfitted with a variety of LED configurations and lens optics and has different tilt adjustment options. This built-in versatility can accommodate a variety of road and street geometries and adapt the distance between individual light posts to suit the environment, maximizing the spacing wherever possible. And as Luma uses Revoled technology, it has excellent thermal and optic characteristics, which further helps to reduce energy usage.



Fully programmable To suit required lumen (consult L-Tune).



Long lifetime Low maintenance thanks to long life of LED light source.

Family range

Luma features a completely flat design and Optiflux lens optics. This gives you perfect glare control and helps prevent vertical light pollution according to glare classifications up to G4.

Visual comfort along city streets

The high-fidelity color rendering and exceptional lux uniformity will give your city streets a consistent look throughout. And to give the Luma family a more creative and inspirational appearance, you can combine it with the standard Philips pole and bracket portfolio.



66 I can create the perfect lighting for every street and it's all Luma!"





Luma Micro Luma Micro

Post-top Ø 76 mm

Side-entry Ø 32-60 mm Post-top Ø 60 mm





Luma 1

Luma 3

Post-top Ø 76 mm

Luma 1

Post-top Ø 76 mm

Side-entry Ø 32-60 mm Post-top Ø 60 mm





Luma 3





Public lighting Luma Family range



Luma Mini

Post-top Ø 76 mm



Luma Mini

Side-entry Ø 32-60 mm Post-top Ø 60 mm



Luma 2

Post-top Ø 76 mm



Luma 2

Side-entry Ø 42-60 mm Post-top Ø 60 mm

Complete sets

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



Batio bracket

- 1 Luma 2 + Batio L980 bracket + Aloa/Accante pole + Luma Mini + Batio L660 rear bracket
- **2-4** Luma 1 + Batio L660 bracket + Aloa/Accante pole
- 3-6 Luma 2 + Batio L980 bracket + Aloa/Accante pole
- 5 Luma 1 + Batio L980 bracket + Aloa/Accante pole
- Luma Mini + Batio L980 wall bracket 7

Spline bracket

- 1 Luma 2 + Spline L1645 bracket + Aloa/Accante pole + Luma Mini + Spline L1485 rear bracket
- **2-4** Luma 1 + Spline L1485 bracket + Aloa/Accante pole
- 3-5 Luma 2 + Spline L1645 bracket + Aloa/Accante pole
- 6 Luma Mini + Spline L1485 wall bracket
- 7 Luma 2 + Spline L1645 wall bracket

Public lighting Luma Complete sets

Lighting performance

The Luma range is flexible and can be used in many applications, thanks to its variety in lighting distributions and luminous flux.





DM10 Distribution Medium

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



DM11 Distribution Medium for larger areas • ME3 (to ME6) and

CE class for road and street lighting



DN10 Distribution Narrow

ME class for road and street lighting



DN11 Distribution Narrow for narrower areas • ME class for road and street lighting



R1 Distribution Medium for comfort • MEI-2 class for road lighting (TI<10) R2 Distribution Narrow • ME class for road and street lighting





R4 Distribution Medium

R5 Distribution Wide

• CE and S class for street and path lighting • CE and S class for street
 and path lighting



R7 Distribution Narrow • S class for street and path lighting



R8 Distribution Pedestrian Crossing Right • Lighting of pedestrian

crossing for right arrangement Public lighting

Luma

Lighting

performance



R3 Distribution Medium

 ME3 (to ME6) class for road and street lighting



R6 Distribution Extra Wide

 S class for street and path lighting

R9 Distribution Pedestrian Crossing Left



R10 Distribution Medium for wet road conditions • MEW class for road lighting

Lighting of pedestrian
 crossing for left
 arrangement

Applications A high degree of flexibility

The Luma Micro/Mini has a very elegant and compact appearance. This design character, combined with a range of optics, makes it very suitable for relatively lower installation heights on streets in residential areas and city centers. Luma 2 is clearly the modern LED alternative for all major urban traffic routes and larger industrial and transportation areas and Luma 3 is dedicated to major traffic routes outside the urban community, like highways and provincial roads.

Luma 1 combines the evident modern design of the Luma range with a relatively compact size for residential areas, industrial and transportation areas.

† Sports • City center **†** Traffic route P Area & Transportation P Residential area • Parking area • Boulevard & avenue Cycle path & foothpath • Boulevard & avenue Airport • Pedestrian crossing Pedestrian crossing • Cycle path • Harbor • Roundabout • Parking area Roundabout • Parking area • Side street • Provincial road • Public transport area Parking area • Cycle path & foothpath • Urban main/access road • Industrial area Residential street • Parking area • Highway & road lighting Petrol station • Public transport area • Countryside road • Rail yard • Highway Waterway • Pedestrian crossing • Roundabout



Public lighting Luma Applications

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13



Application **examples**

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

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 Luma can offer you. Using L-Tune will provide important input that can be applied in the TCO tool.

Highway

High speed and traffic density Light distribution: DM11 Class: M5 Source: GRN117 Spacing: 64 m System power: 83 W



Public lighting Luma Application examples

Urban medium street

Moderate density and mixed traffic Light distribution: DN10 Class: M3

Source: GRN88 Spacing: 35 m System power: 63 W



Features

LED configuration patterns

The Luma has an optimized lumen tuning performance which is build by different LED patterns in the LED board. This offers a wide range of lighting solutions.



Spigot arrangements



Dedicated spigot fo post-top Ø 76 mm.

Colors

Spigot as frame and closing clip as canopy. Other RAL or Futura colors on request, also possible to have duo-colors (spigot in same color as frame, closing clip in same color as canopy).



Integral design

The real flat bottom view of the Luma is required to prevent any upward light. The curved lines of the luminaire together with the integrated closing clip and the post-top and side-entry spigots create a modern, robust though elegant character. The top of the

luminaire is an essential part of the thermal management concept. The rounded curved lines together with their deliberately chosen interdistance relative to their height, the drainage and cleaning of the luminaire is optimized.

Tilt adjustments

To optimize the light distribution for varying road geometries and / or glare restrictions, various spigots are available on which the tilt angle can easily be adjusted, by positioning the two spigot bolts in the right setting (tilt angles clearly marked on the spigot).



0, +5, +10 and +20 degrees

Public lighting Luma Features



Universal spigots for post-top Ø 42-60 (62) mm and side-entry Ø 42-60 mm. Easy to put in post-top or side-entry position by changing the spigot bolts fixation.



Revoled technology

Revoled stands for an integrated non-compromised approach to LED luminaire design. Both thermal management (Coo-led) and optical management (Optiflux) form an integral part of that philosophy.

Coo-led thermal management

By taking an integral design approach many luminaire parts can contribute to get the coolest and therefore most efficient lighting solution.



- 1 LEDs at relatively close interdistance, asking for accurate heat control.
- 2 Lenses are grouped in lens plates of 20 lenses; by using this controllable compact size and always placing all lens plates on the PCB, the result is an equalized pressure on the PCB, optimizing heat dissipation.
- **3** Lower LED guantities are placed on the PCB in configuration patterns that optimize heat control.
- **4** Thermal interface layer of special heat conducting material between PCB and luminaire housing further optimizes heat dissipation.

- **5** The aluminum luminaire housing has the capacity to spread and dissipate the heat to the ambient.
- 6 The curves on top of the housing further increase the dissipation capacity. The height of these curves and their interdistance follow a logical line from the back to the front of the luminaire, giving it its continuously fluent attractive appearance. Besides, the interdistance and height are also designed in such way that each LED has the optimal dissipation area, which is an important factor for the life time and flux of the total system. The curved shapes of both top surface of the luminaire housing and the vertical curves on top emphasize this elegant design and also contribute to an optimal drainage.

L-Tune

As the solution drivers enabling the lighting solutions with Luma are mutually interrelating, the L-Tune tool was developed to render all possible solutions and rank them to outcomes in terms of energy efficiency and cost. For an extensive explanation of the L-Tune tool, please ask your Philips sales contact for further information.

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L-Tune: the lighting optimization tool to find the Luma solution exactly matching your preferences.

The following steps have to be followed to come to a preferred solution for a project:

- 1 The required initial flux and maintenance factors to fullfil the project's light technical requirements is the outcome of the calculations in the lighting software. This data is used as input for L-Tune.
- 2 To define possible solutions in Luma the accepted lumen depreciation profile and the required LED lifetime has to be given.

Luma

Features

- **3** Anticipated dimming regimes will define the energy consumption profile and also help to use the extended LED lifetime resulting from it, to find even more solutions in Luma.
- 4 Various solutions in Luma can be generated, from extremely energy efficient configurations to more cost effective options.
- 5 In Luma, the solution can be selected, custom programmed and configurated meeting your priorities in the best way. Then you need to submit both the program code and driver code generated by L-Tune for ordering the correct Luma version.

Components



- **1** Housing the canopy (1a) and frame (1b) are made of **8** Gasket IP66 for complete luminaire, by silicon very corrosion resistant die-cast (LM6-quality) gaskets between frame and canopy (8a) and aluminum in Futura Gris 900 Sablé (anthracite) or in between frame and glass (8b). Extra ingress Futura Gris 150 Sablé (light grey), other colors on protection (XIP) by silicon gasket around the LED module (8c, not available for Luma Micro). Cable request. gland double breathing (10).
- 2 **Bowl** in flat toughened glass to prevent upward light according glare classification G4-G6. Fixed to **9 Temperature protection** in case of temperature the frame with metal clips for easy replaceabilty. reaching predefined critical levels, both LEDs and Very high light transmission to optimise the Light drivers have a built-in protection, which initially Output Ratio. dims down and eventually switches off the light.
- **3 Spigot** made of die-cast (LM6-quality) aluminum, **10 Cable connection** M20 cable gland with strain standard in same color as canopy / frame. Universal relief, for cable Ø 10-14 mm. post-top / side-entry spigot for Ø 42-60 mm or separate spigot for post-top Ø 76 mm. 11 Electrical connection
- 4 Mounting with two stainless steel M10 bolts (extra long bolts for small pole can be ordered with luminaire).
- 5 Opening / closing (only for cable connection and in 12 Serviceability case of LED module or driver replacement). Closing clip made of very corrosion resistant die-cast (LM6quality) aluminum, standard in same color as canopy / frame, fixed to the frame with stainless steel spring, for easy and tool-less operation (5a). Canopy with LED module and gear tray hinges upwards and is secured by a stainless steel locking bar (2 positions), making the LED module and gear tray safely accessible from below (5b). Safe Maintenance Technology (SMT) safety switch disconnects power on opening (5c).
- 6 Gear tray made of aluminum, downward hingeable for easy access to components, toolless removable after disconnecting the plug.
- 7 Gear maximum two LED drivers in Luma 2 and maximum three in Luma 3 (depending on LED quantity and operating current). The drivers are programmed, based on L-Tune defined and optimized lighting solution: **Tuned flux** to match required lighting level within the preferred service life and luminaire size. CLO constant lumen output throughout service life, taking away over-lighting from the start of installation, giving extra energy savings. Dimming options available.

Components

Class II: neutral / phase are connected to safety switch; for Class I earth wire to be connected on earth stud in housing. 1-10V or DALI incoming wiring is connected to a separate termination block.

in case of incidental LED board failure, the LED board with reflector frame can easily be replaced after disconnecting the plug and removal of the lens blocks.

13 Lighting control systems

- DynaDimmer or LumiStep stand alone scenarios (various dim percentages and time settings).
- 1-10 V with dim switch for extra incoming pilot line, for one step dimming.
- 1-10 V or DALI dim prepared for incoming
- CityTouch Ready
- StarSense RF Wireless

In perspective

The Luma range has been designed to offer perfect solutions, also in terms of the proportion of the luminaire to its mounting height or a specific environment.



Public lighting

Luma

In perspective

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1-3	Luma Micro/Mini suitable for mounting heights of 4-5-6 m, for instance on
4-8	residential streets or cycle paths. Luma 1 suitable for mounting heights of
9-13	6-8-10 m, for instance on main residential streets or urban traffic roads. Luma 2 suitable for mounting heights of 8-10-12-15-18 m for instance on main urba
14-16	traffic roads or highways. Luma 3 suitable for mounting heights of 10-12-15-18 m, for instance on highways.

Luma in control

Lighting city streets, roads and public spaces presents many challenges. Due to traffic density and different traffic levels, the dynamics of city life change constantly.

To respond to those changes and make the city feel safe, attractive and inviting, you need the right levels of lighting. But urban planners are also under pressure to reduce energy costs and maximize the city's green credentials. Philips offers you a complete intelligent lighting controls range that helps you overcome all those problems and makes the city more livable and sustainable.



Connected lighting

CityTouch Ready luminaires

Luma 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

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.

Public lighting Luma In control

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.





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 in 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 public 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 public lighting.



Stand alone controls

LumiStep control

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

Up to 25%



DynaDimmer control

An integrated control system included in

each light point It is operated on electronic

equipment and can be integrated into the

Philips driver. It can apply 5 levels of power,

(re)definable in terms of level and duration,

per chosen light point. An average energy

saving of approximately 50% per year can

be realized.

Dimensional drawings

Luma Micro **BGP615**





BGP621















Public lighting

Luma

Dimensional drawings

Main specifications

Type Luma Mircio (BGP615) Luma Miri (BGP621) Luma 2 (BGP625) Luma 3 (BGP627) Luma 3 (BGP627) Light source Builti-In LE Dondule Color temperature 3000 K (warm white), 4000 K (neutral white), 5700 K (cool white), and sualable for Luma Mirco Color temperature 5000 K (cool white), and sualable for Luma Mirco Color temperature 10 to 446 W depending on LED configuration and color temperature Luminous flux 850 to 54,400 lm depending on LED configuration and color temperature Lumen maintenace Up to 120 lm/W Lumen emintenace Up to 120 km/W Lumen maintenace Up to 120 km/W Lumen anistenace Up to 100,000 hours s 1L90f0 CLO CLO is available Waranty Gold > 100,000 hours, 5liver = 100,000 hours Optic Ri, R2, R3, R4, R3, R8, R9, R10, DMI0, DMI1, DNI0, DNI1 Optic Ri, R2, R3, R4, R3, R6, R7, R8, R9, R0, and side-entry -10, -5, 0'' Special signs for post-top 0 75 mm only Luma Mirco/Mini, Luma 1: side-entry 0 32-60 mm Installation Post-top 8 60 mm (dealtrated splet for post-top 0 76 mm only) Luma Mirco / 70 km DALL Philos Xitanium Driver	Product features	Specifications				
Luma 1 (GPF27) Luma 3 (GFF27) Luma 3 (GFF27) Light source Bull-In LED module Color temperature 3000 K (warm white), 4000 K (neutral white), 5700 K (cool white and neutral white), 80 (warm white) Luminous flux 85 to 15.4400 Im depending on LE D configuration and color temperature Power 10 to 446 W depending on LE D configuration and color temperature Luminaire efficacy Up to 129 Im/W Lume maintemance Up to 100,000 hours at L80B10 CLO CLO 10 CLO is available Warranty Gold - 100,000 hours, Silver - 100,000 hours Optic R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, DM10, DM11, DN10, DN11 Optical cover Flat Glass (FG) ULOR 0% Installation Post-top Ø 60 mm (dedicated splgot for post-top Ø 76 mm only) Luma 3: side-entry Ø 32-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special splgot for post-top 10, 15 and +20° and side-entry -10, -5, 0° Special splgot for post-top 10, 15 and +20° and side-entry -10, -5, 0° Special splgot for post-top 10, 15 and +20° and side-entry -10, -5, 0° Controls system input 110 V and DALI Driver Philips Xitanium Driver Hultigs (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready Mains voltage 210-240 V / 50-60 Hz Electrical class (Class I - I Material Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Splgot: die-cast aluminum Splgot: die-cast aluminum, Splg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 10.5 to 2.5 kg, Luma Min: 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 10.5 to 2.5 kg, depending on drivers ScX Luma Micro: 0.49 m/, Luma Min: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m² Electrical connection M20 cable gland with strain relief, for cable Ø 10-14 mm Operating temperature range - 20°C r 3: 35°C	Туре	Luma Micro (BGP615) Luma Mini (BGP621) Luma 1 (BGP623)				
Light source Built-In LED module Golor temperature 3000 K (warm white), 4000 K (neutral white), S700 K (cool white), not available for Luma Micro Color Rendering Index 70 (cool white), not available for Luma Micro Color Rendering Index 70 (cool white), not available for Luma Micro Power 10 to 446 W depending on LED configuration and color temperature Luminous flux 850 to 54,400 Im depending on LED configuration and color temperature Lumen maintenance Up to 129 Im/W Lumen maintenance Up to 100,000 hours at L80B10 CLO CLO is available Warranty Gold - 100,000 hours, Silver + 100,000 hours Optical cover Flat Class (FG) ULOR 0% Installation Post-top Ø 60 mm (dedicated spleot for post-top Ø 76 mm only) Luma Sidve entry Ø 42-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special spleot for post-top 10, -15 and +20° and side-entry -10, -5, 0° Special spleot for post-top 10, -15 and +20° and side-entry -10, -5, 0° Inrush current driver 40 W: 65 A/100µ/s, 75 W: 80 A/150µ/s, 100 W: 80 A/150µ/s, 150 W: 108 A/140µ/s Intelligence control Lum3/side-cast aluminum, non corrosive Cover: toughened glass		Luma 3 (BGP627)				
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S700 K (cool white), not available for Luma Micro Color Rendering Index 70 (cool white), not available for Luma Micro Color Rendering Index 850 to 54,400 Im depending on LED configuration and color temperature Power 10 to 446 W depending on LED configuration and color temperature Luminaise efficacy Up to 129 Im./W Lumen maintenance Up to 100,000 hours at LB0BI0 CLO CLO is available Warranty Cold > 100,000 hours, Silver + 100,000 hours Optic Rt R2, R3, R4, R5, R6, R7, R8, R9, R10, DM10, DM11, DN10, DN11 Optical cover Flat Glass (FG) ULOR 0% No Name triation and its diverse to 50, S10 or and side-entry 40, 25, 60 mm Luma 2, Luma 3: side-entry 42-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special splgot for post-top +10, +15 and +20° and side-entry -20, -15, -10, -5, 0° Special splgot for post-top +10, +15 and +20° and side-entry -20, -15, -10, -5, 0° Driver Philitys Xitanium Driver Imstallation Installation Luma Standard Driver Installation Luma Standard Driver Installation Luma Xitanium Driver Inviso current driver 40 W: 65 A/100µc, 75 W: 80 A/150µs; 150 W: 108 A/140µ	Color temperature	3000 K (warm white) 4000 K (neutral white)				
Color Rendering Index 70 (cool white and neutral white), 80 (warm white) Luminous flux 850 to 54,400 Im depending on LED configuration and color temperature Power 10 to 446 W depending on LED configuration and color temperature Luminaire efficacy Up to 129 Im/W Lume maintenance Up to 100,000 hours at L80BI0 CLO CLO is available Warranty Gold > 100,000 hours, Silver > 100,000 hours Optic R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, DMI0, DMI1, DNI0, DNI1 Optical cover F1at Class (FG) ULOR 0% Installation Post-top 0 60 mm (dedicated splgot for post-top 0 76 mm only) Luma 3, Side-entry 0 42-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Controls system input 1-10 V and DALI Driver Philips Xitanium Driver Inrush current driver 40 W: 65 A/100 µs; 75 W: 80 A/150 µs; 100 W: 80 A/150 µs; 150 W: 108 A/140 µs Intelligence control LumEster (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready Mains voitage 210°-240 V / 50°-60 Hz Electrical class Class I = II Material Housing: die-cast aluminum Spigdt: die-cast aluminum <td></td> <td colspan="5">5700 K (cool white), not available for Luma Micro</td>		5700 K (cool white), not available for Luma Micro				
Luminous flux 850 to 54,400 lm depending on LED configuration and color temperature Power 10 to 446 W depending on LED configuration and color temperature Luminaire efficacy Up to 100,000 hours at L80B10 CLO CLO is available Warranty Gold - 100,000 hours, Silver < 100,000 hours	Color Rendering Index	70 (cool white and neutral white). 80 (warm white)				
Power 10 to 446 W depending on LED configuration and color temperature Luminaire efficacy Up to 129 Im/W Lumen maintenance Up to 100,000 hours at L80B10 CLO CLO is available Warranty Gold - 100,000 hours, Silver - 100,000 hours Optic R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, DM10, DM11, DN10, DN11 Optical cover Flat Glass (FG) ULOR 0% Installation Post-top Ø 60 mm (dedicated spigot for post-top Ø 76 mm only) Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mm Luma 2, Luma 3: side-entry Ø 42-60 mm Standard tilt adjustments post-top 0, 5, 10' and side-entry -10, -5, 0' Special spigot for post-top 10, s1, and side-entry -10, -5, 0' Controls system input 1-10 V and DALI Driver Philips Xitanium Driver Inrush current driver 40 W: 65 A/100,us; 75 W: 80 A/150,us; 150 W: 108 A/140,us Intelligence control LumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready Mains voltage 210-240 V / 50-60 Hz Electrical class Class 1-11 Material Housing: die-cast aluminum, non corrosive Cover. toughened glass Geart ray: aluminum	Luminous flux	850 to 54.400 lm depending on LED configuration and color temperature				
Luminaire efficacy Up to 129 lm/W Lumen maintenance Up to 100,000 hours at L80BI0 CIO CLO is available Warranty Gold > 100,000 hours, Silver < 100,000 hours Optic R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, DM10, DM11, DN10, DN11 Optical cover Flat Glass (FG) ULOR 0% Installation Post-top Ø 60 mm (dedicated spigot for post-top Ø 76 mm only) Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mm Luma 2, Luma 3: side-entry Ø 42-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special spigot for post-top 10, +15 and +20° and side-entry -10, -5, 0° Special spigot for post-top 10, +15 and +20° and side-entry -20, -15, -10, -5, 0° Controls system input 1-10 V and DALI Driver Philips XItanium Driver Inrush current driver 40 W: 65 A/100 µs; 75 W: 80 A/150 µs; 100 W: 80 A/150 µs; 150 W: 108 A/140 µs Intelligence control LumiStep (L5), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready Mains voltage 210-240 V / 50-60 Hz Electrical class Class I - II Material Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast	Power	10 to 446 W depending on LED configuration and color temperature				
Lumen maintenance Up to 100,000 hours at L80BI0 CLO CLO is available Warranty Gold > 100,000 hours, Silver < 100,000 hours	Luminaire efficacy	Up to 129 lm/W				
CLO CLO is available Warranty Gold > 100,000 hours, Silver < 100,000 hours	Lumen maintenance	Up to 100,000 hours at L80B10				
Warranty Gold > 100,000 hours, Silver < 100,000 hours	CLO	CLO is available				
Optic R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, DM10, DM11, DN10, DN11 Optical cover Flat Glass (FG) ULOR 0% Installation Post-top Ø 60 mm (dedicated spigot for post-top Ø 76 mm only) Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special spigot for post-top +0, +15 and +20° and side-entry -20, -15, -10, -5, 0° Controls system input 1-10 V and DALI Driver Philips Xitanium Driver Inrush current driver 40 W: 65 A/100 µs; 75 W: 80 A/150 µs; 100 W: 80 A/150 µs; 150 W: 108 A/140 µs Intelligence control Lumistep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready Mains voltage 210-240 V / 50-60 Hz Electrical class Class I - II Material Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Color Futura Gris 900 Sable or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on request IP-rating IP66 IK-rating IK09 Weight Luma Micro. 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2; 0.067 m², Luma 3: 0.079 m²<	Warranty	Gold > 100,000 hours, Silver < 100,000 hours				
Optical cover Flat Glass (FG) ULOR 0% Installation Post-top Ø 60 mm (dedicated spigot for post-top Ø 76 mm only) Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mm Luma 2, Luma 3: side-entry Ø 42-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special spigot for post-top +10, +15 and +20° and side-entry -20, -15, -10, -5, 0° Controls system input I-10 V and DALI Driver Philips Xitanium Driver Inrush current driver 40 W: 65 A/100 µs; 75 W: 80 A/150 µs; 100 W: 80 A/150 µs; 150 W: 108 A/140 µs Intelligence control LumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready Mains voltage 210-240 V / 50-60 Hz Electrical class Class I - II Material Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum <td< td=""><td>Optic</td><td>R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, DM10, DM11, DN10, DN11</td></td<>	Optic	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, DM10, DM11, DN10, DN11				
ULOR 0% Installation Post-top Ø 60 mm (dedicated spigot for post-top Ø 76 mm only) Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mm Luma 2, Luma 3: side-entry Ø 42-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special spigot for post-top +10, +15 and +20° and side-entry -20, -15, -10, -5, 0° Controls system input 1-10 V and DALI Driver Philips Xitanium Driver Inrush current driver 40 W: 65 A/100µs; 75 W: 80 A/150µs; 100 W: 80 A/150µs; 150 W: 108 A/140µs Intelligence control LumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready Mains voltage 210-240 V / 50-60 Hz Electrical class Class 1 - II Material Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Kr-rating IKO9 Weight Luma Micro, 76 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on drivers ScX Luma Micro: 7.6 kg, Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 3: 0.079 m² Electricial connection M20 cable gland with str	Optical cover	Flat Glass (FG)				
InstallationPost-top Ø 60 mm (dedicated spigot for post-top Ø 76 mm only) Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mm Standard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0° Special spigot for post-top 10, +15 and +20° and side-entry -20, -15, -10, -5, 0°Controls system input1-10 V and DALIDriverPhilips Xitanium Driver HumStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch ReadyMains voltage210-240 V / 50-60 HzElectrical classClass 1 - IIMaterialHousing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum Spigot: die-cast aluminumColorFutura Gris 150 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on requestIP-ratingIP66IK-ratingIK09WeightLuma Micro: 0.049 m², Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro: 0.049 m², Luma Mini; 0.055 m², Luma 1: 0.057 m², Luma 3: 0.079 m²Derating temperature range - 20°C < Ta < 35°CSurge rotection4 kV, 10 kV optionalMaintenanceFrom below by opening the housing with a single quick-release clip Options	ULOR	0%				
Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mmLuma 2, Luma 3: side-entry Ø 42-60 mmStandard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0°Special spigot for post-top +10, +15 and +20° and side-entry -20, -15, -10, -5, 0°Controls system input1-10 V and DALIDriverPhilips Xitanium DriverInrush current driver40 W: 65 A/100µs; 75 W: 80 A/150µs; 100 W: 80 A/150µs; 150 W: 108 A/140µsIntelligence controlLumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch ReadyMains voltage210-240 V / 50-60 HzElectrical classClass 1 - 11MaterialHousing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminumColorFutura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on requestIP-ratingIP66IK-ratingIK09WeightLuma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 3: 0.079 m²Electrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°C	Installation	Post-top Ø 60 mm (dedicated spigot for post-top Ø 76 mm only)				
Luma 2, Luma 3: side-entry Ø 42-60 mmStandard tilt adjustments post-top 0, 5, 10° and side-entry -10, -5, 0°Special spigot for post-top +10, +15 and +20° and side-entry -20, -15, -10, -5, 0°Controls system input1-10 V and DALIDriverPhilips Xitanium DriverInrush current driver40 W: 65 A/100µs; 75 W: 80 A/150µs; 100 W: 80 A/150µs; 150 W: 108 A/140µsIntelligence controlLumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch ReadyMains voltage210-240 V / 50-60 HzElectrical classClass 1 - IIMaterialGear tray: aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminumColorFutura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on requestIP-ratingIP66IK-ratingIK09WeightLuma Mint, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro, 7.6 kg, Luma Mini, 0.055 m², Luma 1: 0.057 m², Luma 3: 0.079 m²Electrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°C		Luma Micro/Mini, Luma 1: side-entry Ø 32-60 mm				
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DriverPhilips Xitanium DriverInrush current driver40 W: 65 A/100µs; 75 W: 80 A/150µs; 100 W: 80 A/150µs; 150 W: 108 A/140µsIntelligence controlLumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch ReadyMains voltage210-240 V / 50-60 HzElectrical classClass I - IIMaterialHousing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminumSpigot: die-cast aluminum Spigot: die-cast aluminumColorFutura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on requestIP-ratingIP66IK-ratingIK09WeightLuma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro, 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²Electrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°C	Controls system input	1-10 V and DALI				
Inrush current driver40 W: 65 A/100µs; 75 W: 80 A/150µs; 100 W: 80 A/150µs; 150 W: 108 A/140µsIntelligence controlLumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch ReadyMains voltage210-240 V / 50-60 HzElectrical classClass I - IIMaterialHousing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminumColorFutura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on requestIP-ratingIP66IK-ratingIK09WeightLuma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²Derating temperature range-20'C < Ta < 35'CSurge protection4 kV, 10 kV optionalMaintenanceFrom below by opening the housing with a single quick-release clipOptionsWired for cell (WFC), mini Photocell or NEMA socket - including cable	Driver	Philips Xitanium Driver				
Intelligence controlLumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch ReadyMains voltage210-240 V / 50-60 HzElectrical classClass I - IIMaterialHousing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminumColorFutura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on requestIP-ratingIP66IK-ratingIKO9WeightLuma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²Plectrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°C	Inrush current driver	40 W: 65 A/100µs; 75 W: 80 A/150µs; 100 W: 80 A/150µs; 150 W: 108 A/140µs				
Mains voltage 210-240 V / 50-60 Hz Electrical class Class I - II Material Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Color Futura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on request IP-rating IP66 IK-rating IKO9 Weight Luma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on drivers ScX Luma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m² Electrical connection M20 cable gland with strain relief, for cable Ø 10-14 mm Operating temperature range - 20°C < Ta < 35°C	Intelligence control	LumiStep (LS), DynaDimmer (DDF), SDU (D4), DALI (D9), StarSense RF Wireless, CityTouch Ready				
Electrical class Class I - II Material Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum Spigot: die-cast aluminum Color Futura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on request IP-rating IP66 IK-rating IK09 Weight Luma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on drivers ScX Luma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m² Electrical connection M20 cable gland with strain relief, for cable Ø 10-14 mm Operating temperature range - 20°C < Ta < 35°C	Mains voltage	210-240 V / 50-60 Hz				
MaterialHousing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminumColorFutura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on requestIP-ratingIP66IK-ratingIK09WeightLuma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversSCXLuma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²Electrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°CSurge protection4 kV, 10 kV optionalMaintenanceFrom below by opening the housing with a single quick-release clipOptionsWired for cell (WFC), mini Photocell or NEMA socket - including cable	Electrical class	Class I - II				
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IP-rating IP66 IK-rating IK09 Weight Luma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on drivers ScX Luma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m² Electrical connection M20 cable gland with strain relief, for cable Ø 10-14 mm Operating temperature range - 20°C < Ta < 35°C	Color	Futura Gris 900 Sablé or Futura Gris 150 Sablé Other RAL or Akzo Nobel Futura colors or duo-colors available on request				
IK-ratingIK09WeightLuma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²Electrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°CSurge protection4 kV, 10 kV optionalMaintenanceFrom below by opening the housing with a single quick-release clipOptionsWired for cell (WFC), mini Photocell or NEMA socket - including cable	IP-rating	IP66				
WeightLuma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on driversScXLuma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²Electrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°CSurge protection4 kV, 10 kV optionalMaintenanceFrom below by opening the housing with a single quick-release clipOptionsWired for cell (WFC), mini Photocell or NEMA socket - including cable	IK-rating	IK09				
ScXLuma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²Electrical connectionM20 cable gland with strain relief, for cable Ø 10-14 mmOperating temperature range- 20°C < Ta < 35°CSurge protection4 kV, 10 kV optionalMaintenanceFrom below by opening the housing with a single quick-release clipOptionsWired for cell (WFC), mini Photocell or NEMA socket - including cable	Weight	Luma Micro, 7.6 kg, Luma Mini, 9.5 kg, Luma 1, 11 kg, Luma 2, 15.5 kg, Luma 3, 19.5 to 20.5 kg depending on drivers				
Electrical connection M20 cable gland with strain relief, for cable Ø 10-14 mm Operating temperature range - 20°C < Ta < 35°C	ScX	Luma Micro: 0.049 m², Luma Mini: 0.055 m², Luma 1: 0.057 m², Luma 2: 0.067 m², Luma 3: 0.079 m²				
Operating temperature range - 20°C < Ta < 35°C	Electrical connection	M20 cable gland with strain relief, for cable Ø 10-14 mm				
Surge protection 4 kV, 10 kV optional Maintenance From below by opening the housing with a single quick-release clip Options Wired for cell (WFC), mini Photocell or NEMA socket - including cable	Operating temperature range	- 20°C < Ta < 35°C				
MaintenanceFrom below by opening the housing with a single quick-release clipOptionsWired for cell (WFC), mini Photocell or NEMA socket - including cable	Surge protection	4 kV, 10 kV optional				
Options Wired for cell (WFC), mini Photocell or NEMA socket - including cable	Maintenance	From below by opening the housing with a single quick-release clip				
	Options	Wired for cell (WFC), mini Photocell or NEMA socket - including cable				

Specification table

Luminaire	Product	No.	CW	NW	WW	Power
version	family code	LEDs	Min/Max lumen	Min/Max lumen	Min/Max lumen	system (W) Min / Max
Luma Micro	BGP621	12	1,150-3,350	1,150-3,400	950-2,950	9-27
		20	1,850-5,550	1,850-5,700	1,600-4,850	14-45
Luma Mini	BGP621	12	1,150-3,350	1,150-3,400	950-2,950	9-27
		20	1,850-5,550	1,850-5,700	1,600-4,850	14-45
		30	2,750-8,350	2,800-8,500	2,400-7,350	22-70
		40	3,650-11,000	3,700-11,300	3,200-9,650	26-90
Luma 1	BGP623	20	1,850-5,550	1,850-5,700	1,600-4,900	14-45
		28	2,550-7,700	2,600-8,000	2,250-6,850	19-61
		40	3,650-11,100	3,700-11,350	3,200-9,750	26-87
		48	4,350-13,300	4,450-13,600	3,800-11,650	31-104
		60	5,450-16,600	5,550-16,950	4,750-14,500	38-129
		68	6,200-18,800	6,250-19,150	5,400-16,400	42-145
		80	7,300-22,000	7,350-22,400	6,300-17,950	49-172
Luma 2	BGP625	60	5,450-16,600	5,550-17,050	4,750-14,600	38-129
		80	7,300-22,000	7,400-22,500	6,300-19,300	50-174
		100	9,100-27,500	9,200-28,000	7,900-23,900	63-215
		120	11,000-32,900	11,150-33,350	9,450-26,150	76-254
Luma 3	BGP627	100	9,100-27,700	9,200-28,400	7,900-24,300	63-216
		120	11,000-33,200	11,150-33,850	9,450-29,000	75-257
		140	12,700-37,700	13,000-38,450	11,050-32,950	88-289
		160	14,600-43,500	14,650-44,700	12,600-37,700	99-342
		180	16,600-49,300	16,600-50,050	14,150-40,000	113-383
		200	18,300-54,400	18,480-53,600	15,750-40,400	125-406



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