



IT'S ON.

LET THE MAGIC HAPPEN



B3 ENGINEERING
THE MASTERS OF LIGHT



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SOME ARE BORN WITH PERFECT
NIGHT VISION ...



FOR ALL THE OTHERS, THERE IS
B3 ENGINEERING.

LET US LIGHT UP YOUR WORLD.



WHEN YOU HAVE EXHAUSTED ALL POSSIBILITIES, REMEMBER THIS: YOU HAVEN'T.

THOMAS EDISON

B3 Engineering is a trusted name in the global lighting industry with countless lighting installations distributed across four continents. We look back on a rich history of developing innovative lighting solutions for all kinds of public spaces, including streets, highways, parking lots, plazas, sports arenas and airports, among others, and command the full vertical value chain of street lighting, from initial conception, design and project management to production and final implementation.

The resourceful designers and engineers at B3 Engineering are always thinking outside the box to push the envelope of innovative lighting technology beyond the presumed limits. "Not possible" is not part of their vocabulary. The urge to push ahead is in their genes. That is how they come up with unconventional and elegant solutions to the lighting challenges our customers face.

Tailor-made products for diverse application domains developed in close collaboration with our customers form a cornerstone of the B3 Engineering offering. In close dialogue with our customers, we determine their precise needs and requirements and ascertain the available budgetary framework. Normally, we can then provide a solution based on our line of modular systems – adapting existing models to specific customer needs. When this is not possible, we develop custom solutions. The products featured in this catalog represent only a small selection of our standard modular variations.

Do you have a difficult lighting situation that cannot be adequately solved using standard products? Our solid engineering background allows us to develop and produce most any kind of solution for your special lighting needs. Reach out to us and let us talk about the possibilities. You will be pleasantly surprised.



B3 ENGINEERING
THE MASTERS OF LIGHT

STREET LIGHTS

LED STREET LIGHT FAMILY

MUNICH



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MUNICH LED STREET LIGHT FAMILY

The MUNICH LED street light family has an elegantly curved design. The traditional form fits into all kinds of architectural landscapes. The innovative lens design with full cut-off guarantees that light falls only where it is really needed. Choose from three different sizes with mast-top or bracket mounting.



MUNICH

|'mju:nɪk| *n.* capital of Bavaria in south-eastern Germany straddling the Isar river north of the Bavarian Alps; population 1.3 million. The city is known for its annual Oktoberfest celebration. German name *München*.

	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours



SPECIFICATIONS*

Rated power
Input voltage
Chip
Chip quantity
Luminous efficacy
Driver
Power factor
CCT
CRI
Surge protection
Protection class
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Photocell base
Control system
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

MUNICH L300

300 W
90 – 305 V _{AC}
Lumileds 3030 5050
336 pcs. 80 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
800 × 360 × 140 mm
950 × 435 × 200 mm
13.8 kg
15.1 kg

MUNICH L250

250 W
90 – 305 V _{AC}
Lumileds 3030 5050
280 pcs. 64 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
800 × 360 × 140 mm
950 × 435 × 200 mm
13.7 kg
15.0 kg

MUNICH M240

240 W
90 – 305 V _{AC}
Lumileds 3030 5050
280 pcs. 64 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
700 × 360 × 140 mm
850 × 435 × 200 mm
11.8 kg
13.0 kg

MUNICH M200

200 W
90 – 305 V _{AC}
Lumileds 3030 5050
224 pcs. 48 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
700 × 360 × 140 mm
850 × 435 × 200 mm
11.0 kg
12.0 kg

MUNICH M150

150 W
90 – 305 V _{AC}
Lumileds 3030 5050
168 pcs. 48 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
700 × 360 × 140 mm
850 × 435 × 200 mm
10.5 kg
11.5 kg

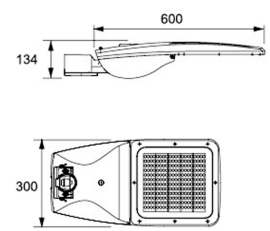
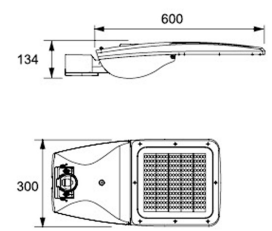
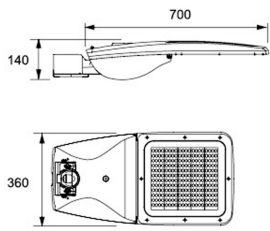
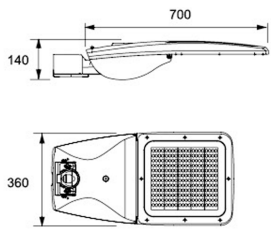
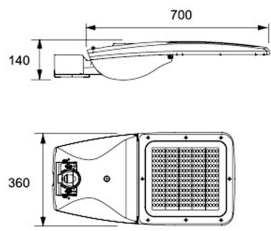
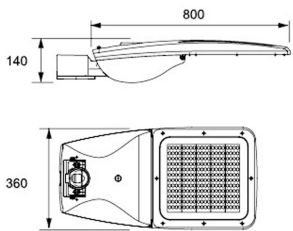
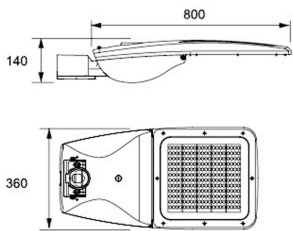
MUNICH S120

120 W
90 – 305 V _{AC}
Lumileds 3030 5050
144 pcs. 32 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
600 × 300 × 134 mm
750 × 350 × 180 mm
7.0 kg
8.0 kg

MUNICH S80

80 W
90 – 305 V _{AC}
Lumileds 3030 5050
96 pcs. 24 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
600 × 300 × 134 mm
750 × 350 × 180 mm
7.0 kg
8.0 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.



LED STREET LIGHT FAMILY

HAMBURG



B3 ENGINEERING
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HAMBURG LED STREET LIGHT FAMILY

The HAMBURG LED street light family is characterized by a contemporary, fashionable design. It was developed according to modern design principles with sustainable energy saving concepts in mind. HAMBURG is available in three different sizes, all of which can be attached either atop the mast or on a boom. This will afford you great flexibility for achieving uniform and homogenous lighting solutions for traffic lanes, sidewalks, parking lots and public spaces.



HAMBURG

|'hambə:g| *n.* a port in northern Germany on the Elbe river; population 1.8 million. Founded by Charlemagne in the 9th century, it is now the largest port in Germany with an extensive shipyard network.

 120/135 lm/W	 -35 °C +50 °C	THD < 20 %	 90 V - 305 V	IP 66	 5 years
CRI > 70	 10 % - 90 %	PF > 0.95	 10 kV 10 kA	IK ≥ 08	 50 000 hours

SPECIFICATIONS*

Rated power
Input voltage
Chip
Chip quantity
Luminous efficacy
Driver
Power factor
CCT
CRI
Surge protection
Protection class
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Photocell base
Control system
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

HAMBURG L180

180 W
90 – 305 V _{AC}
Lumileds 3030 5050
224 pcs. 48 pcs.
120 lm/W 132 lm/W
Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
798 × 380 × 163 mm
850 × 435 × 200 mm
10.5 kg
11.5 kg

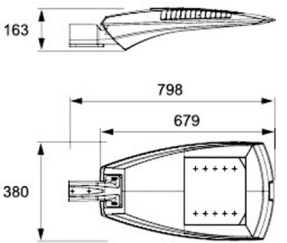
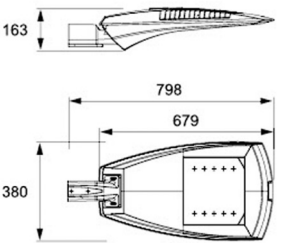
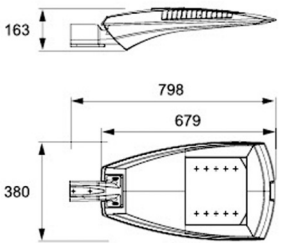
HAMBURG L150

150 W
90 – 305 V _{AC}
Lumileds 3030 5050
168 pcs. 48 pcs.
120 lm/W 132 lm/W
Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
798 × 380 × 163 mm
850 × 435 × 200 mm
10.2 kg
11.2 kg

HAMBURG L120

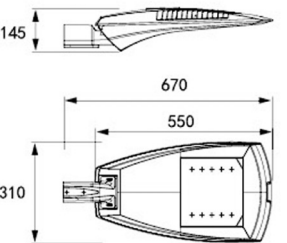
120 W
90 – 305 V _{AC}
Lumileds 3030 5050
144 pcs. 32 pcs.
120 lm/W 132 lm/W
Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
798 × 380 × 163 mm
850 × 435 × 200 mm
10.0 kg
11.0 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.



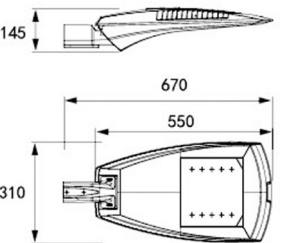
HAMBURG M100

100 W
90 – 305 V _{AC}
Lumileds 3030 5050
108 pcs. 32 pcs.
120 lm/W 132 lm/W
Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
670 × 310 × 145 mm
710 × 360 × 200 mm
6.7 kg
7.7 kg



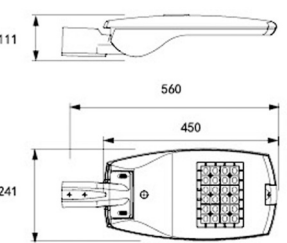
HAMBURG M80

80 W
90 – 305 V _{AC}
Lumileds 3030 5050
96 pcs. 24 pcs.
120 lm/W 132 lm/W
Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
670 × 310 × 145 mm
710 × 360 × 200 mm
6.7 kg
7.7 kg



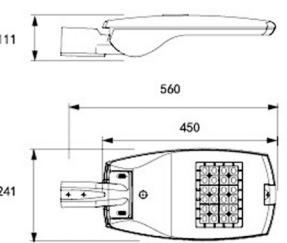
HAMBURG S60

60 W
90 – 305 V _{AC}
Lumileds 3030 5050
72 pcs. 24 pcs.
120 lm/W 132 lm/W
Philips / Inventronics
> 0.95
3000– 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
560 × 241 × 111 mm
610 × 280 × 150 mm
5.0 kg
5.7 kg



HAMBURG S40

40 W
90 – 305 V _{AC}
Lumileds 3030 5050
48 pcs. 16 pcs.
120 lm/W 132 lm/W
Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
560 × 241 × 111 mm
610 × 280 × 150 mm
5.0 kg
5.7 kg





LED STREET LIGHT FAMILY

COLOGNE



COLOGNE LED STREET LIGHT FAMILY

The COLOGNE LED street light family has a sleek, minimalist design. Its unintrusive form integrates well into most any cityscape, making this one of our most popular models. The innovative lens design ensures that light falls only where it is really needed. Choose from three different sizes with mast-top or bracket mounting.



COLOGNE

[kəˈləʊn **]** *n.* an industrial and university city in North Rhine-Westphalia; population 1.0 million. Founded by the Romans and situated on the Rhine river, Cologne is notable for its medieval cathedral. German name *Köln*.

	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours

SPECIFICATIONS*

Rated power
Input voltage
Chip
Chip quantity
Luminous efficacy
Driver
Power factor
CCT
CRI
Surge protection
Protection class
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Photocell base
Control system
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

COLOGNE L120

120 W
90 – 305 V _{AC}
Lumileds 3030 5050
144 pcs. 32 pcs.
120 lm/W 132 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
675 × 257 × 82 mm
720 × 300 × 120 mm
6.7 kg
7.3 kg

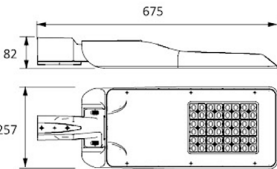
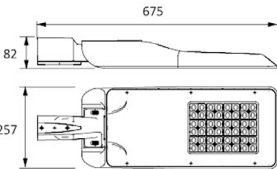
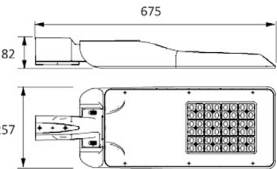
COLOGNE L100

100 W
90 – 305 V _{AC}
Lumileds 3030 5050
108 pcs. 32 pcs.
120 lm/W 132 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
675 × 257 × 82 mm
720 × 300 × 120 mm
6.5 kg
7.5 kg

COLOGNE L80

80 W
90 – 305 V _{AC}
Lumileds 3030 5050
96 pcs. 24 pcs.
120 lm/W 132 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
675 × 257 × 82 mm
720 × 300 × 120 mm
6.1 kg
7.1 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.



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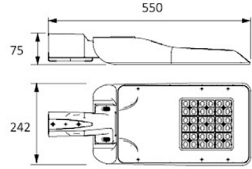
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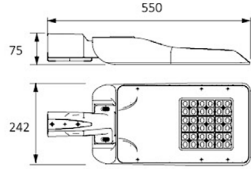
COLOGNE M60

60 W
90 – 305 V _{AC}
Lumileds 3030 5050
72 pcs. 24 pcs.
120 lm/W 132 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
550 × 242 × 75 mm
600 × 280 × 120 mm
4.1 kg
4.8 kg



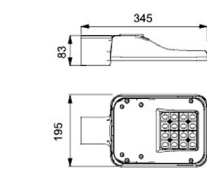
COLOGNE M40

40 W
90 – 305 V _{AC}
Lumileds 3030 5050
48 pcs. 16 pcs.
120 lm/W 132 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 / 76 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
550 × 242 × 75 mm
600 × 280 × 120 mm
4.1 kg
4.8 kg



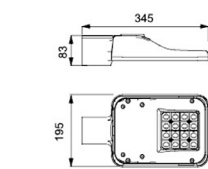
COLOGNE S30

30 W
90 – 305 V _{AC}
Lumileds 3030 5050
48 pcs. 16 pcs.
120 lm/W 132 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
345 × 195 × 83 mm
390 × 235 × 123 mm
1.8 kg
2.2 kg



COLOGNE S20

20 W
90 – 305 V _{AC}
Lumileds 3030 5050
32 pcs. 8 pcs.
120 lm/W 132 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
345 × 195 × 83 mm
390 × 235 × 123 mm
1.8 kg
2.2 kg



LED STREET LIGHT FAMILY

JENA



B3 ENGINEERING
THE MASTERS OF LIGHT



JENA LED STREET LIGHT FAMILY

The JENA LED street light family has a modern, unintrusive design with sleek lines that fit well into all kinds of architectural landscapes. JENA provides a very cost-effective solution without sacrificing quality. The innovative lens design ensures that light falls only where it is really needed. Choose from three different sizes with mast-top or bracket mounting.



JENA

Jena | *n.* the second largest city in Thuringia, a center of education and research, and for most of the 20th century, a world center of the optical industry; population 110 000.



190
lm/W



-40 °C
+50 °C



100 V -
277 V

IP

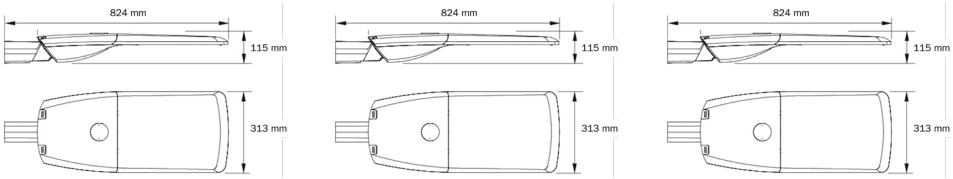
66



5 / 10
years

SPECIFICATIONS*	JENA L200	JENA M150	JENA M120
Rated power	200 W	150 W	120 W
Input voltage	220 – 240 V _{AC} , 50/60 Hz	220 – 240 V _{AC} , 50/60 Hz	220 – 240 V _{AC} , 50/60 Hz
Chip	Lumileds 5050	Lumileds 5050	Lumileds 5050
LED chip efficacy	225 – 235 lm/W	225 – 235 lm/W	225 – 235 lm/W
Overall system efficacy	190 lm/W	190 lm/W	190 lm/W
Driver	Meanwell XLG (non-dim)	Meanwell XLG (non-dim)	Meanwell XLG (non-dim)
Power factor	> 0.95	> 0.95	> 0.95
CCT	5000 K	5000 K	5000 K
CRI	> 70	> 70	> 70
Surge protection	10 KV + 10 KA	10 KV + 10 KA	10 KV + 10 KA
Protection class	Class I	Class I	Class I
IP rating	IP66	IP66	IP66
IK rating	≥ IK08	≥ IK08	≥ IK08
Operating temperature	-35 to +50 °C	-35 to +50 °C	-35 to +50 °C
Housing material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Installation spigot	60 mm	60 mm	60 mm
Warranty	5 years / 10 years	5 years / 10 years	5 years / 10 years
Fitting size	824 × 313 × 115 mm	724 × 301 × 113 mm	724 × 301 × 113 mm
Packing size	870 × 360 × 200 mm	760 × 360 × 200 mm	760 × 360 × 200 mm
Net weight	9.5 kg	7.5 kg	7.5 kg
Gross weight	10.5 kg	8.5 kg	8.5 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.





L



M



S

CRI

> 70



10 % -
90 %

PF

> 0.97

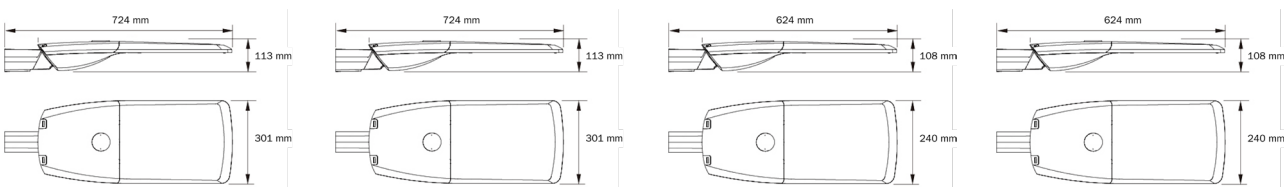
IK

≥ 08



10 kV
10 kA

JENA M100	JENA S70	JENA S50	JENA S30
100 W	70 W	50 W	30 W
220 – 240 V _{AC} , 50/60 Hz	220 – 240 V _{AC} , 50/60 Hz	220 – 240 V _{AC} , 50/60 Hz	220 – 240 V _{AC} , 50/60 Hz
Lumileds 5050	Lumileds 5050	Lumileds 5050	Lumileds 5050
225 – 235 lm/W	225 – 235 lm/W	225 – 235 lm/W	225 – 235 lm/W
190 lm/W	190 lm/W	190 lm/W	190 lm/W
Meanwell XLG (non-dim)	Meanwell XLG (non-dim)	Meanwell XLG (non-dim)	Meanwell XLG (non-dim)
> 0.95	> 0.95	> 0.95	> 0.95
5000 K	5000 K	5000 K	5000 K
> 70	> 70	> 70	> 70
10 KV + 10 KA	10 KV + 10 KA	10 KV + 10 KA	10 KV + 10 KA
Class I	Class I	Class I	Class I
IP66	IP66	IP66	IP66
≥ IK08	≥ IK08	≥ IK08	≥ IK08
-35 to +50 °C	-35 to +50 °C	-35 to +50 °C	-35 to +50 °C
> 50 000 hours	> 50 000 hours	> 50 000 hours	> 50 000 hours
60 mm	60 mm	60 mm	60 mm
5 years / 10 years	5 years / 10 years	5 years / 10 years	5 years / 10 years
724 × 301 × 113 mm	624 × 240 × 108 mm	624 × 240 × 108 mm	624 × 240 × 108 mm
760 × 360 × 200 mm	670 × 310 × 170 mm	670 × 310 × 170 mm	670 × 310 × 170 mm
7.5 kg	6.0 kg	6.0 kg	6.0 kg
8.5 kg	6.5 kg	6.5 kg	6.5 kg





CUSTOMIZED SOLUTIONS

Our lighting specialists can adapt all of the basic configurations of our JENA and BREMEN models to your very specific project needs. The basic models listed in this product data sheet serve only as a reference point. Reach out to us about your special project needs.

For example, the JENA and BREMEN street light families can be optionally equipped with our remote light management system. In addition to realizing energy savings of up to 35 % through intelligent dimming, myriad other functions improve the quality of light and life in your city.

Our specialists look forward to advising you in a personal conversation to create the optimal solution for your public lighting project.

LUMINOUS EFFICACY - FACTS AND FICTION

There are generally two types of luminous efficacy associated with LED street lights and these should not be confused.

LED Chip Efficacy

This refers to the amount of light produced by the LED chip (light-emitting diode) per unit of power consumed. It is typically measured in lumens per watt (lm/W). Higher LED chip efficacy means more light is produced for the same amount of power consumed, resulting in greater energy efficiency.

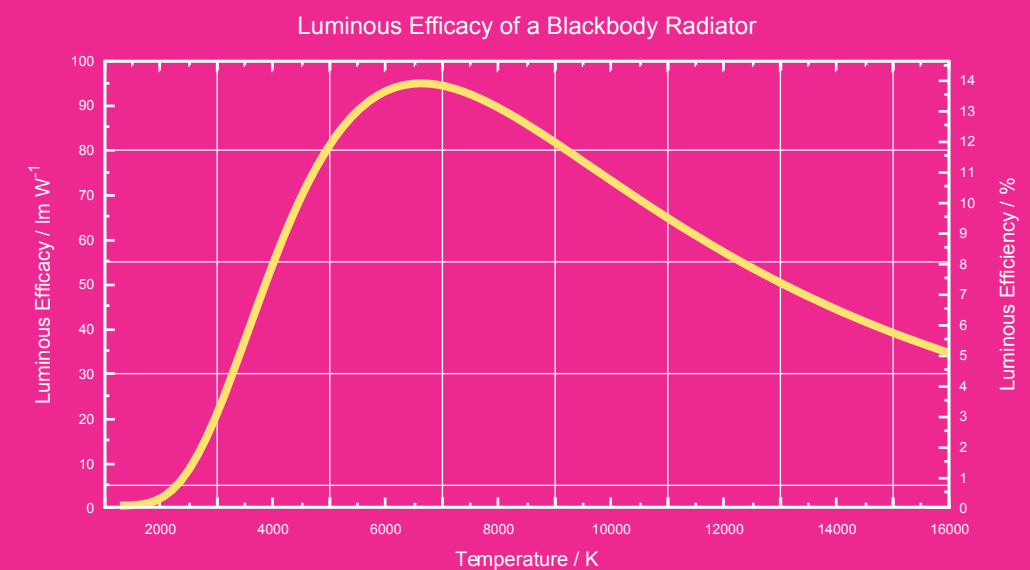
System Efficacy

This refers to the amount of light produced by the entire LED street light system. It considers not only the LED chip, but also the driver and other components that affect the overall system efficiency. It is typically measured in lumens per watt (lm/W) and takes into account the efficiency of the entire system. System efficacy is affected by various factors such as thermal management, driver efficiency, and passive components like optics. System efficacy is generally lower than the LED chip efficacy.

Both LED chip efficacy and system efficacy are important measures of the energy efficiency of LED street lights, and higher values in both can result in significant energy savings and lower costs over time. But the two values should not be confused.

A general note for planners: **Look carefully and always use your common sense regarding claims about luminous efficacy in road lighting.**

In case you have questions regarding luminous efficacy – or any other aspects of LED road lighting – please feel free to reach out to us. Our specialist are always happy to support you with their experience and industry expertise.



LED STREET LIGHT FAMILY

BONN



B3 ENGINEERING
THE MASTERS OF LIGHT



BONN LED STREET LIGHT FAMILY

The BONN LED street light family is the smart solution for a small fixture size with good light output. The compact form factor makes this street light ideal when weight and space limitations are a concern. Choose from three different power ratings.



BONN

| **bonn** | *n.* a German city in the state of North Rhine-Westphalia; population 320 000. From 1949 until the reunification of Germany in 1990, Bonn was the capital of the Federal Republic of Germany.

	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours

SPECIFICATIONS*

Rated power
Input voltage
Chip
Chip quantity
Luminous efficacy
Driver
Power factor
CCT
CRI
Surge protection
Protection class
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Photocell base
Control system
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

BONN S40

40 W
90 – 305 V _{AC}
Lumileds 5050
12 pcs.
125 lm/W
MOSO
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
40 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
415 × 125 × 90 mm
550 × 355 × 510 mm (10 pcs.)
1.9 kg
20.8 kg

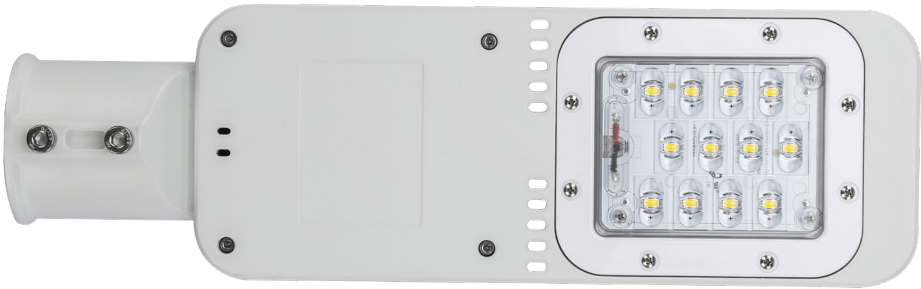
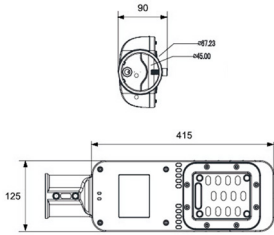
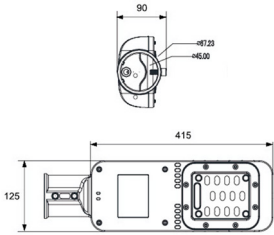
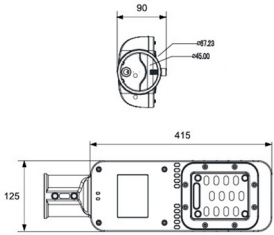
BONN S30

30 W
90 – 305 V _{AC}
Lumileds 5050
12 pcs.
135 lm/W
MOSO
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
40 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
415 × 125 × 90 mm
550 × 355 × 510 mm (10 pcs.)
1.9 kg
20.8 kg

BONN S20

20 W
90 – 305 V _{AC}
Lumileds 5050
12 pcs.
140 lm/W
MOSO
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
40 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
415 × 125 × 90 mm
550 × 355 × 510 mm (10 pcs.)
1.9 kg
20.8 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.



LED STREET LIGHT FAMILY

LEIPZIG



B3 ENGINEERING
THE MASTERS OF LIGHT



LEIPZIG LED STREET LIGHT FAMILY

The LEIPZIG LED street light family boasts a sleek and modern design. Available in three different sizes and a wide range of powers between 20 and 240 watts, LEIPZIG was conceived to portray a uniform style when deployed in areas with a need for mixed power ratings from multiple-lane roads to small footpaths.



LEIPZIG

|'lʌɪpsɪɡ| n. an industrial city in east central Germany; with a population of just over 500 000, it is the largest city in the German state of Saxony.

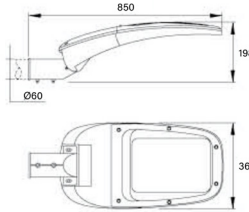
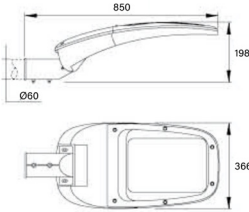
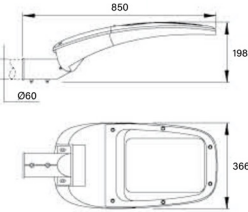
	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours



SPECIFICATIONS*

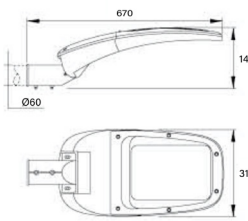
Rated power	240 W	200 W	160 W
Input voltage	90 – 305 V _{AC}	90 – 305 V _{AC}	90 – 305 V _{AC}
Chip	Lumileds 3030 5050	Lumileds 3030 5050	Lumileds 3030 5050
Chip quantity	280 pcs. 64 pcs.	224 pcs. 48 pcs.	168 pcs. 48 pcs.
Luminous efficacy	120 lm/W 135 lm/W	120 lm/W 135 lm/W	120 lm/W 135 lm/W
Driver	Inventronics / MW / Philips	Inventronics / MW / Philips	Inventronics / MW / Philips
Power factor	> 0.95	> 0.95	> 0.95
CCT	3000 – 6500 K	3000 – 6500 K	3000 – 6500 K
CRI	> 70	> 70	> 70
Surge protection	10/20 KV + 10 KA	10/20 KV + 10 KA	10/20 KV + 10 KA
Protection class	Class I / II	Class I / II	Class I / II
IP rating	IP66	IP66	IP66
IK rating	≥ IK08	≥ IK08	≥ IK08
Operating temperature	-35 to +50 °C	-35 to +50 °C	-35 to +50 °C
Rated lifetime	> 50 000 hours	> 50 000 hours	> 50 000 hours
Housing material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Installation spigot	50 / 60 mm	50 / 60 mm	50 / 60 mm
Photocell base	Yes	Yes	Yes
Control system	Optional	Optional	Optional
Warranty	5 years	5 years	5 years
Certifications	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS
Fitting size	850 × 366 × 198 mm	850 × 366 × 198 mm	850 × 366 × 198 mm
Packing size	915 × 415 × 185 mm	915 × 415 × 185 mm	915 × 415 × 185 mm
Net weight	11.7 kg	11.5 kg	11.2 kg
Gross weight	12.5 kg	12.3 kg	12.0 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.



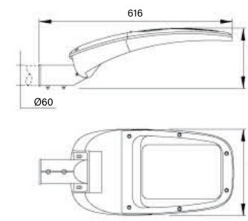
LEIPZIG M120

120 W
90 – 305 V _{AC}
Lumileds 3030 5050
144 pcs. 32 pcs.
120 lm/W 135 lm/W
Inventronics / MW / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
677 × 305 × 187 mm
700 × 310 × 160 mm
7.0 kg
7,8 kg



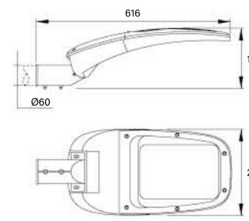
LEIPZIG S80

80 W
90 – 305 V _{AC}
Lumileds 3030 5050
96 pcs. 24 pcs.
120 lm/W 135 lm/W
Inventronics / MW / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
616 × 259 × 186 mm
700 × 310 × 160 mm
6.8 kg
7.6 kg



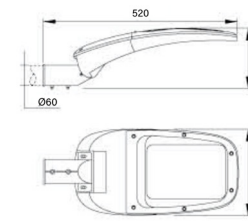
LEIPZIG S40

40 W
90 – 305 V _{AC}
Lumileds 3030 5050
48 pcs. 16 pcs.
120 lm/W 135 lm/W
Inventronics / MW / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
616 × 259 × 186 mm
700 × 310 × 160 mm
6.2 kg
7.0 kg



LEIPZIG XS20

20 W
90 – 305 V _{AC}
Lumileds 3030 5050
32 pcs. 8 pcs.
120 lm/W 135 lm/W
Inventronics / MW / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
520 × 212 × 90 mm
570 × 240 × 255 mm
3.0 kg
3.5 kg





LED STREET LIGHT FAMILY

FRANKFURT



FRANKFURT LED STREET LIGHT FAMILY

The FRANKFURT LED street light family boasts a sleek and stylish design, ideally suited for contemporary cityscapes. FRANKFURT is available in three different sizes with a wide range of powers. The fixtures can be attached either atop the mast or on a boom.



FRANKFURT

[ˈfr̩ŋkfʊɐ̯t] *n.* a major financial center situated on the Main river in the state of Hesse; population 652 600. The headquarters of the German Bundesbank and the European Central Bank are located there. Full name: *Frankfurt am Main*.

	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours



SPECIFICATIONS*

Rated power
Input voltage
Chip
Chip quantity
Luminous efficacy
Driver
Power factor
CCT
CRI
Surge protection
Protection class
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Photocell base
Control system
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

FRANKFURT L240

240 W
90 – 305 V _{AC}
Lumileds 3030 5050
280 pcs. 64 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
800 × 320 × 150 mm
880 × 360 × 200 mm
13.8 kg
15 kg

FRANKFURT L200

200 W
90 – 305 V _{AC}
Lumileds 3030 5050
224 pcs. 48 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
800 × 320 × 150 mm
880 × 360 × 200 mm
13.8 kg
15 kg

FRANKFURT L180

180 W
90 – 305 V _{AC}
Lumileds 3030 5050
224 pcs. 48 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
800 × 320 × 150 mm
880 × 360 × 200 mm
13.8 kg
15 kg

FRANKFURT M120

120 W
90 – 305 V _{AC}
Lumileds 3030 5050
144 pcs. 32 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
710 × 265 × 130 mm
760 × 310 × 180 mm
7.5 kg
8.5 kg

FRANKFURT M100

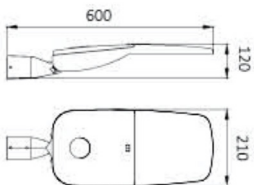
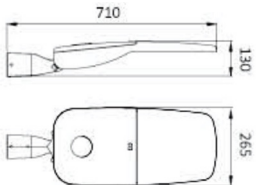
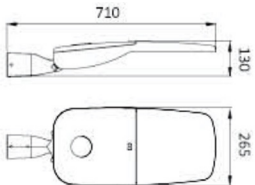
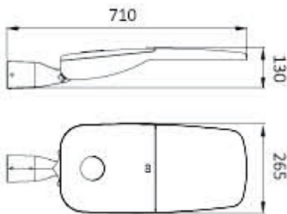
100 W
90 – 305 V _{AC}
Lumileds 3030 5050
108 pcs. 32 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
710 × 265 × 130 mm
760 × 310 × 180 mm
7.5 kg
8.5 kg

FRANKFURT M80

80 W
90 – 305 V _{AC}
Lumileds 3030 5050
96 pcs. 24 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
710 × 265 × 130 mm
760 × 310 × 180 mm
7.5 kg
8.5 kg

FRANKFURT S40

40 W
90 – 305 V _{AC}
Lumileds 3030 5050
48 pcs. 16 pcs.
120 lm/W 135 lm/W
Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
600 × 210 × 120mm
650 × 260 × 160 mm
4.8 kg
5.8 kg



* Technical specifications subject to change at any time. Other powers and configurations available on request.



LED STREET LIGHT FAMILY

DÜSSELDORF



DÜSSELDORF LED STREET LIGHT FAMILY

The DÜSSELDORF LED street light family comes in two different form factors for either vertical or horizontal mounting. The classical round design without ornamentation or flourishes makes the design suitable for both traditional and modern city environments.



DÜSSELDORF

|ˈdʊs(ə)ldɔːf| *n.* an industrial city of north-western Germany, on the Rhine river, capital of the most populous German state of North Rhine-Westphalia; population 580 000.

 120/135 lm/W	 -35 °C +50 °C	THD < 20 %	 90 V - 305 V	IP 66	 5 years
CRI > 70	 10 % - 90 %	PF > 0.95	 10 kV 10 kA	IK ≥ 08	 50 000 hours



X



M

SPECIFICATIONS*

	DÜSSELDORF X150	DÜSSELDORF X100	DÜSSELDORF X40
Rated power	150 W	100 W	40 W
Input voltage	90 – 305 V _{AC}	90 – 305 V _{AC}	90 – 305 V _{AC}
Chip	Lumileds 3030 5050	Lumileds 3030 5050	Lumileds 3030 5050
Chip quantity	280 pcs. 64 pcs.	224 pcs. 48 pcs.	224 pcs. 48 pcs.
Luminous efficacy	120 lm/W 135 lm/W	120 lm/W 135 lm/W	120 lm/W 135 lm/W
Driver	MW / Philips / Inventronics	MW / Philips / Inventronics	MW / Philips / Inventronics
Power factor	> 0.95	> 0.95	> 0.95
CCT	3000 – 6500 K	3000 – 6500 K	3000 – 6500 K
CRI	> 70	> 70	> 70
Surge protection	10/20 KV + 10 KA	10/20 KV + 10 KA	10/20 KV + 10 KA
Protection class	Class I / II	Class I / II	Class I / II
IP rating	IP66	IP66	IP66
IK rating	≥ IK08	≥ IK08	≥ IK08
Operating temperature	-35 to +50 °C	-35 to +50 °C	-35 to +50 °C
Rated lifetime	> 50 000 hours	> 50 000 hours	> 50 000 hours
Housing material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Installation spigot	60 / 76 mm	60 / 76 mm	60 / 76 mm
Photocell base	Yes	Yes	Yes
Control system	Optional	Optional	Optional
Warranty	5 years	5 years	5 years
Certifications	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS
Fitting size	520 × 520 × 220 mm	520 × 520 × 220 mm	520 × 520 × 220 mm

DÜSSELDORF M150

150 W
90 – 305 V _{AC}
Lumileds 3030 5050
144 pcs. 32 pcs.
120 lm/W 135 lm/W
MW / Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
520 × 520 × 220 mm

DÜSSELDORF M120

120 W
90 – 305 V _{AC}
Lumileds 3030 5050
108 pcs. 32 pcs.
120 lm/W 135 lm/W
MW / Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
520 × 520 × 220 mm

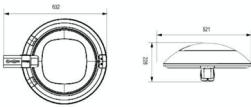
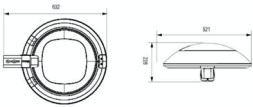
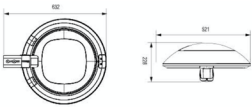
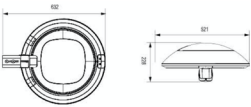
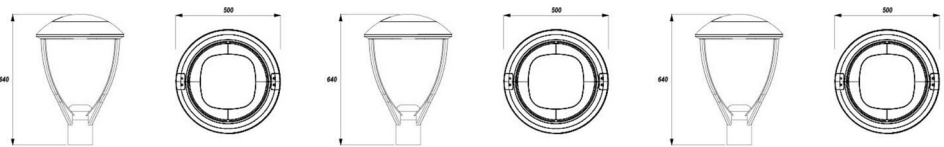
DÜSSELDORF M80

80 W
90 – 305 V _{AC}
Lumileds 3030 5050
96 pcs. 24 pcs.
120 lm/W 135 lm/W
MW / Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
520 × 520 × 220 mm

DÜSSELDORF M40

40 W
90 – 305 V _{AC}
Lumileds 3030 5050
72 pcs. 24 pcs.
120 lm/W 135 lm/W
MW / Philips / Inventronics
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
50 / 60 mm
Yes
Optional
5 years
ENEC / CE / CB / RoHS
520 × 520 × 220 mm

* Technical specifications subject to change at any time. Other powers and configurations available on request.





B3 ENGINEERING
THE MASTERS OF LIGHT

**WE HAVE THIS HANDY FUSION REACTOR IN THE SKY
CALLED THE SUN. YOU DON'T HAVE TO DO ANYTHING.
IT JUST WORKS. IT SHOWS UP EVERY DAY AND
PRODUCES RIDICULOUS AMOUNTS OF POWER.**

ELON MUSK

Creative design, high quality materials and cutting-edge technology – our line of solar LED street, park and garden lights combine all of these qualities for excellent and autonomous lighting.

The efficient technology of our solar LED light fixtures harvests and stores enough solar energy to bridge several rainy or cloudy days when the sun is hiding. Our environmentally-friendly and sustainable solar LED light fixtures will allow you to reduce your energy costs and CO2 emissions. They are stand-alone units that derive their power entirely from the sun. Underground cabling and digging of trenches are a thing of the past with our self-sufficient LED solar systems.



LED SOLAR STREET LIGHT LIGHT

ADHARA



ADHARA LED SOLAR STREET LIGHT FAMILY

The ADHARA LED solar street light family is our all-in-one, off-grid solution for streetlighting. Whether you want to make a mark in sustainability or simply reduce your energy costs, ADHARA is the perfect solution. It comes in power ranges from 5 to 20 watts. The efficient lithium batteries will easily bridge three days of inclement weather.



ADHARA

| əd'hɑ:rə | *n.* the second-brightest object in the constellation Canis Major and one of the brightest stars in the night sky; appears on the national flag of Brazil, symbolizing the state of Tocantins.





-35 °C

+50 °C



10 % -

90 %

CRI

> 70

IP

66

IK

≥ 08



5

years



50000

hours

SPECIFICATIONS*

Rated power
Chip
Luminous efficacy
CCT
CRI
Beam angle
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Solar panel
Full power lighting time
Normal working days
Battery type
Battery capacity
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

ADHARA L20

20 W
10 × 18 mil Epistar
140 lm/W
3000 – 6500 K
> 70
120°
IP65
≥ IK08
-20 to +60 °C
> 50 000 hours
Die-cast aluminum
50 mm
20 W monocrystalline
> 10 h
> 3 rainy days
Lithium
16 Ah
5 years
ENEC / CE / CB / RoHS
600 × 300 × 80 mm
620 × 360 × 320 mm (4 pcs.)
3.9 kg
4.4 kg

ADHARA L15

15 W
10 × 18 mil Epistar
100 lm/W
3000 – 6500 K
> 70
120°
IP65
≥ IK08
-20 to +60 °C
> 50 000 hours
Die-cast aluminum
50 mm
15 W monocrystalline
> 10 h
> 3 rainy days
Lithium
12 Ah
5 years
ENEC / CE / CB / RoHS
600 × 300 × 80 mm
620 × 360 × 320 mm (4 pcs.)
3.9 kg
4.4 kg

ADHARA S10

10 W
10 × 18 mil Epistar
140 lm/W
3000 – 6500 K
> 70
120°
IP65
≥ IK08
-20 to +60 °C
> 50 000 hours
Die-cast aluminum
50 mm
10 W monocrystalline
> 8 h
> 3 rainy days
Lithium
8 Ah
5 years
ENEC / CE / CB / RoHS
400 × 210 × 60 mm
400 × 350 × 240 mm (5 pcs.)
1.9 kg
2.2 kg

ADHARA S5

5 W
10 × 18 mil Epistar
100 lm/W
3000 – 6500 K
> 70
120°
IP65
≥ IK08
-20 to +60 °C
> 50 000 hours
Die-cast aluminum
50 mm
5 W monocrystalline
> 8 h
> 3 rainy days
Lithium
4 Ah
5 years
ENEC / CE / CB / RoHS
400 × 210 × 60 mm
400 × 350 × 240 mm (5 pcs.)
1.9 kg
2.2 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.





B3 ENGINEERING
THE MASTERS OF LIGHT

PARK & GARDEN LIGHTS



LED PARK LIGHT

KEUKENHOF



KEUKENHOF LED PARK LIGHT

The KEUKENHOF LED park light is characterized by a sleek, contemporary look. It follows modern design principles with sustainable energy saving concepts in mind. Available in a power range of 30 to 100 watts.



B

B3 ENGINEERING

THE MASTERS OF LIGHT

KEUKENHOF

| 'kø:kə(n)ɦɔf | *n.* one of the world’s largest flower gardens, situated in the town of Lisse, in the Netherlands; famous for its tulips.

	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours

SPECIFICATIONS*

Rated power	100 W
Input voltage	90 – 305 V _{AC}
Chip	Lumileds 3030 5050
Chip quantity	120 pcs. 50 pcs.
Luminous efficacy	100 lm/W 135 lm/W
Driver	Meanwell / Philips
Power factor	> 0.95
CCT	3000 – 6500 K
CRI	> 70
Surge protection	10/20 KV + 10 KA
Protection class	Class I / II
IP rating	IP66
IK rating	≥ IK08
Operating temperature	-35 to +50 °C
Rated lifetime	> 50 000 hours
Housing material	Die-cast aluminum
Installation spigot	60 mm
Photocell base	No
Warranty	5 years
Certifications	CE / RoHS
Fitting size	440 × 440 × 615 mm
Packing size	500 × 500 × 190 mm
Net weight	6.8 kg
Gross weight	7.7 kg

KEUKENHOF 100

100 W
90 – 305 V _{AC}
Lumileds 3030 5050
120 pcs. 50 pcs.
100 lm/W 135 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 mm
No
5 years
CE / RoHS
440 × 440 × 615 mm
500 × 500 × 190 mm
6.8 kg
7.7 kg

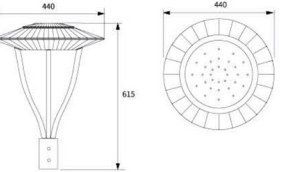
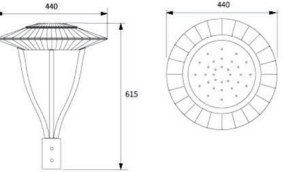
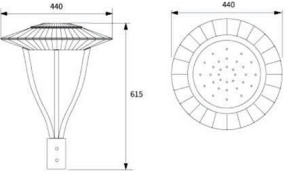
KEUKENHOF 60

60 W
90 – 305 V _{AC}
Lumileds 3030 5050
90 pcs. 30 pcs.
100 lm/W 135 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 mm
No
5 years
CE / RoHS
440 × 440 × 615 mm
500 × 500 × 190 mm
6.5 kg
7.4 kg

KEUKENHOF 30

30 W
90 – 305 V _{AC}
Lumileds 3030 5050
48 pcs. 15 pcs.
100 lm/W 135 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 mm
No
5 years
CE / RoHS
440 × 440 × 615 mm
500 × 500 × 190 mm
6.3 kg
7.2 kg

* Technical specifications
subject to change at any time.
Other powers and
configurations available on
request.





LED PARK LIGHT **HYDE**



HYDE LED PARK LIGHT

The HYDE LED parklight is an old-town light in a classic design. Housing made of die-cast aluminum, standard parts made of stainless steel. Surface powder-coated in RAL colors, as desired. LED assembly is variably configurable using adaptable 30 watt LED modules. Available in 30, 60 and 90 watts.



HYDE

| hɪd' | n. Hyde Park is the largest British royal park, in west central London. It contains the Serpentine, Marble Arch, the Albert Memorial, and the renowned Speakers’ Corner.

	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours

SPECIFICATIONS *

Rated power
Input voltage
Chip
Chip quantity
Luminous efficacy
Driver
Power factor
CCT
CRI
Surge protection
Protection class
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Photocell base
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

HYDE 90

90 W
90 – 305 V _{AC}
Lumileds 3030 5050
128 pcs. 48 pcs.
120 lm/W 135 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
27 / 60 / 76 mm
No
5 years
CE / RoHS
400 × 400 × 815 mm
410 × 410 × 645 mm
7.5 kg
8.5 kg

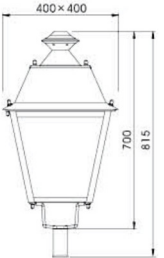
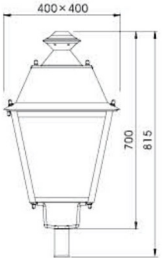
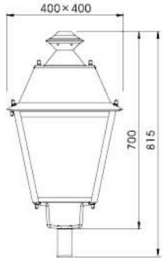
HYDE 60

60 W
90 – 305 V _{AC}
Lumileds 3030 5050
63 pcs. 28 pcs.
120 lm/W 135 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
27 / 60 / 76 mm
No
5 years
CE / RoHS
400 × 400 × 815 mm
410 × 410 × 645 mm
7.0 kg
7.7 kg

HYDE 30

30 W
90 – 305 V _{AC}
Lumileds 3030 5050
45 pcs. 12 pcs.
120 lm/W 135 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
27 / 60 / 76 mm
No
5 years
CE / RoHS
400 × 400 × 815 mm
410 × 410 × 645 mm
6.8 kg
7.5 kg

* Technical specifications
subject to change at any time.
Other powers and
configurations available on
request.





LED PARK LIGHT

BOBOLI



BOBOLI LED PARK LIGHT

The BOBOLI LED park light adds a futuristic style to your park and landscape areas. The minimalist design is unobtrusive with low energy consumption. Available in two sizes with a power range of 20 to 80 watts.



BOBOLI

| 'bəʊbə'li | *n.* Boboli Gardens is a historical park of the city of Florence, originally designed for the Medici. It represents one of the first and most important examples of the “Italian Garden”.

 120/135 lm/W	 -35 °C +50 °C	THD < 20 %	 90 V - 305 V	IP 66	 5 years
CRI > 70	 10 % - 90 %	PF > 0.95	 10 kV 10 kA	IK ≥ 08	 50 000 hours

SPECIFICATIONS*

Rated power
Input voltage
Chip
Chip quantity
Luminous efficacy
Driver
Power factor
CCT
CRI
Surge protection
Protection class
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Installation spigot
Photocell base
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

BOBOLI L80

80 W
90 – 305 V _{AC}
Lumileds 3030 5050
96 pcs. 30 pcs.
80 lm/W 100 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 / 76 mm
No
5 years
CE / RoHS
598 × 598 × 391 mm
610 × 610 × 420 mm
7.5 kg
8.5 kg

BOBOLI L60

60 W
90 – 305 V _{AC}
Lumileds 3030 5050
72 pcs. 24 pcs.
80 lm/W 100 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 / 76 mm
No
5 years
CE / RoHS
598 × 598 × 391 mm
610 × 610 × 420 mm
7.1 kg
8.1 kg

BOBOLI L40

40 W
90 – 305 V _{AC}
Lumileds 3030 5050
60 pcs. 24 pcs.
80 lm/W 100 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 / 76 mm
No
5 years
CE / RoHS
598 × 598 × 391 mm
610 × 610 × 420 mm
7.1 kg
8.1 kg

BOBOLI S60

60 W
90 – 305 V _{AC}
Lumileds 3030 5050
72 pcs. 24 pcs.
80 lm/W 100 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 / 76 mm
No
5 years
CE / RoHS
580 × 580 × 264 mm
590 × 590 × 290 mm
4.2 kg
5.0 kg

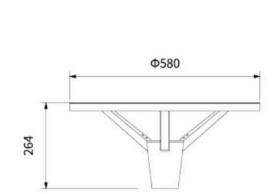
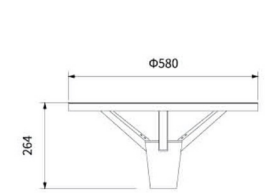
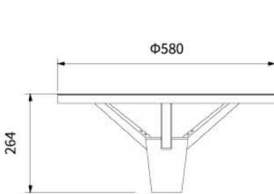
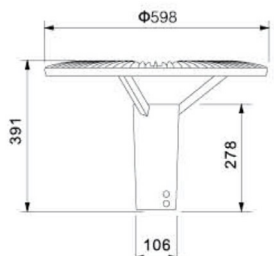
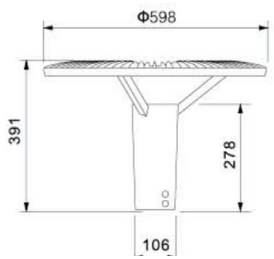
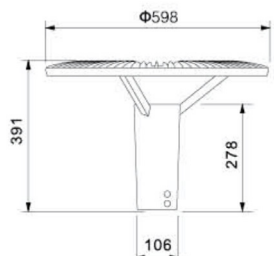
BOBOLI S40

40 W
90 – 305 V _{AC}
Lumileds 3030 5050
60 pcs. 24 pcs.
80 lm/W 100 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 / 76 mm
No
5 years
CE / RoHS
580 × 580 × 264 mm
590 × 590 × 290 mm
4.2 kg
5.0 kg

BOBOLI S20

20 W
90 – 305 V _{AC}
Lumileds 3030 5050
36 pcs. 12 pcs.
80 lm/W 100 lm/W
Meanwell / Philips
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
60 / 76 mm
No
5 years
CE / RoHS
580 × 580 × 264 mm
590 × 590 × 290 mm
4.2 kg
5.0 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.



SOLAR LED PARK LIGHT FAMILY

CASTOR



CASTOR SOLAR LED PARK LIGHT FAMILY

The CASTOR solar LED park light family of all-in-one solar lights save more than just energy costs. The autonomous fixtures can be placed independently of existing powerline infrastructure, saving inatallation costs while providing full freedom of positioning. CASTOR comes in a wide variety of designs that perfectly integrate into all kinds of urban and park environments.

CASTOR

| 'kɑːstə | *n.* the second-brightest star in the constellation Gemini, close to Pollux. It is a multiple star system with the three components visible in moderate telescopes comprising close binaries.



-25°C

+55°C



10 % -

90 %

CRI

> 70

IP

66

IK

≥ 08



5

years



50 000

hours

SPECIFICATIONS*	CASTOR AA	CASTOR AB	CASTOR BA
LED power	12 W	12 W	12 W
Chip	10 × 18 mil Epistar	10 × 18 mil Epistar	10 × 18 mil Epistar
Chip quantity	144 pcs.	144 pcs.	144 pcs.
Luminous flux	1320 – 1440 lm	1320 – 1440 lm	1320 – 1440 lm
CCT	3000 – 6500 K	3000 – 6500 K	3000 – 6500 K
CRI	> 70	> 70	> 70
Beam angle	120°	120°	120°
IP rating	IP66	IP66	IP66
IK rating	≥ IK08	≥ IK08	≥ IK08
Operating temperature	-25 to +55 °C	-25 to +55 °C	-25 to +55 °C
Rated lifetime	> 50 000 hours	> 50 000 hours	> 50 000 hours
Housing material	6063 aluminum / PC	6063 aluminum / PC	6063 aluminum / PC
Solar panel	18 V / 25 W monocrystalline	18 V / 25 W monocrystalline	18 V / 25 W monocrystalline
Panel grade	Grade A	Grade A	Grade A
Battery type	LiFePO4 Lithium	LiFePO4 Lithium	LiFePO4 Lithium
Battery capacity	12 V / 12 Ah	12 V / 12 Ah	12 V / 12 Ah
Discharging time	18 h	18 h	18 h
Charging time	9 h (1000 W/m2 @ 25° C)	9 h (1000 W/m2 @ 25° C)	9 h (1000 W/m2 @ 25° C)
Warranty	5 years	5 years	5 years
Certifications	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS
Fitting size	720 × 515 × 515 mm	500 × 500 × 600 mm	515 × 515 × 465 mm
Packing size	570 × 570 × 530 mm	570 × 570 × 660 mm	570 × 570 × 530 mm
Net weight	6.5 kg	8.7 kg	8.2 kg
Gross weight	8.2 kg	10.6 kg	10.1 kg

CASTOR BB	CASTOR CA	CASTOR CB
12 W	12 W	12 W
10 × 18 mil Epistar	10 × 18 mil Epistar	10 × 18 mil Epistar
144 pcs.	144 pcs.	144 pcs.
1320 – 1440 lm	1320 – 1440 lm	1320 – 1440 lm
3000 – 6500 K	3000 – 6500 K	3000 – 6500 K
> 70	> 70	> 70
120°	120°	120°
IP66	IP66	IP66
≥ IK08	≥ IK08	≥ IK08
-25 to +55 °C	-25 to +55 °C	-25 to +55 °C
> 50 000 hours	> 50 000 hours	> 50 000 hours
6063 aluminum / PC	6063 aluminum / PC	6063 aluminum / PC
18 V / 25 W monocrystalline	18 V / 25 W monocrystalline	18 V / 25 W monocrystalline
Grade A	Grade A	Grade A
LiFePO4 Lithium	LiFePO4 Lithium	LiFePO4 Lithium
12 V / 12 Ah	12 V / 12 Ah	12 V / 12 Ah
18 h	18 h	18 h
9 h (1000 W/m2 @ 25° C)	9 h (1000 W/m2 @ 25° C)	9 h (1000 W/m2 @ 25° C)
5 years	5 years	5 years
ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS
720 × 515 × 515 mm	720 × 515 × 515 mm	720 × 515 × 515 mm
570 × 570 × 530 mm	570 × 570 × 530 mm	570 × 570 × 530 mm
8.0 kg	8.3 kg	7.5 kg
9.8 kg	10.6 kg	8.5 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.



SOLAR LED PARK LIGHT FAMILY

ORION



ORION SOLAR LED GARDEN LIGHT FAMILY

The ORION solar LED garden light family of all-in-one solar lights can be installed quickly and easily to light up gardens and pathways. You can choose from a wide array of designs to perfectly integrate into any landscape.

ORION

| ɔˈrɪɒŋ | *n.* a conspicuous constellation, “the Hunter” is said to represent a hunter holding a club and shield. It lies on the celestial equator and contains the bright stars Betelgeuse, Rigel, Bellatrix, Mintaka, Alnilam, Alnitak, Saiph and Meissa.



-35 °C

+50 °C



10 %

90 %

CRI

> 70

IP

66

IK

≥ 08



5

years



50000

hours

SPECIFICATIONS*

LED power
Chip
Chip quantity
CCT
CRI
Beam angle
IP rating
IK rating
Operating temperature
Rated lifetime
Housing material
Solar panel
Panel grade
Battery type
Battery capacity
Discharging time
Charging time
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

ORION ALPHA
BETELGEUSE

2-3 W
10 × 18 mil Epistar
36 pcs.
3000 – 6500 K
> 70
120°
IP66
≥ IK08
-25 to +55 °C
> 50 000 hours
6063 aluminum / PC
18 V / 5 W monocrystalline
Grade A
LiFePO4 Lithium
12 V / 12 Ah
18 h
9 h (1000 W/m2 @ 25° C)
5 years
ENEC / CE / CB / RoHS
260 × 120 × 800 mm
310 × 310 × 840 mm
3.4 kg
4.7 kg

ORION BETA
RIGEL

2-3 W
10 × 18 mil Epistar
36 pcs.
3000 – 6500 K
> 70
120°
IP66
≥ IK08
-25 to +55 °C
> 50 000 hours
6063 aluminum / PC
18 V / 5 W monocrystalline
Grade A
LiFePO4 Lithium
12 V / 12 Ah
18 h
9 h (1000 W/m2 @ 25° C)
5 years
ENEC / CE / CB / RoHS
165 × 160 × 800 mm
210 × 210 × 840 mm
5.0 kg
5.9 kg

ORION GAMMA
BELLATRIX

2-3 W
10 × 18 mil Epistar
36 pcs.
3000 – 6500 K
> 70
120°
IP66
≥ IK08
-25 to +55 °C
> 50 000 hours
6063 aluminum / PC
18 V / 5 W monocrystalline
Grade A
LiFePO4 Lithium
12 V / 12 Ah
18 h
9 h (1000 W/m2 @ 25° C)
5 years
ENEC / CE / CB / RoHS
212 × 202 × 800 mm
280 × 280 × 860 mm
5.1 kg
6.3 kg

ORION DELTA
MINTAKA

2-3 W
10 × 18 mil Epistar
36 pcs.
3000 – 6500 K
> 70
120°
IP66
≥ IK08
-25 to +55 °C
> 50 000 hours
6063 aluminum / PC
18 V / 5 W monocrystalline
Grade A
LiFePO4 Lithium
12 V / 12 Ah
18 h
9 h (1000 W/m2 @ 25° C)
5 years
ENEC / CE / CB / RoHS
140 × 65 × 800 mm
210 × 210 × 840 mm
3.9 kg
4.8 kg

ORION EPSILON
ALNILAM

2-3 W
10 × 18 mil Epistar
36 pcs.
3000 – 6500 K
> 70
120°
IP66
≥ IK08
-25 to +55 °C
> 50 000 hours
6063 aluminum / PC
18 V / 5 W monocrystalline
Grade A
LiFePO4 Lithium
12 V / 12 Ah
18 h
9 h (1000 W/m2 @ 25° C)
5 years
ENEC / CE / CB / RoHS
267 × 89 × 800 mm
310 × 310 × 850 mm
5.3 kg
6.7 kg

ORION ZETA
ALNITAK

2-3 W
10 × 18 mil Epistar
36 pcs.
3000 – 6500 K
> 70
120°
IP66
≥ IK08
-25 to +55 °C
> 50 000 hours
6063 aluminum / PC
18 V / 5 W monocrystalline
Grade A
LiFePO4 Lithium
12 V / 12 Ah
18 h
9 h (1000 W/m2 @ 25° C)
5 years
ENEC / CE / CB / RoHS
208 × 182 × 800 mm
270 × 270 × 850 mm
3.0 kg
4.2 kg

ORION KAPPA
SAIPH

2-3 W
10 × 18 mil Epistar
36 pcs.
3000 – 6500 K
> 70
120°
IP66
≥ IK08
-25 to +55 °C
> 50 000 hours
6063 aluminum / PC
18 V / 5 W monocrystalline
Grade A
LiFePO4 Lithium
12 V / 12 Ah
18 h
9 h (1000 W/m2 @ 25° C)
5 years
ENEC / CE / CB / RoHS
335 × 260 mm
445 × 415 × 300 mm

* Technical specifications subject to change at any time. Other powers and configurations available on request.



ORION

SPECIFICATIONS*

LED power	2-3 W
Chip	10 × 18 mil Epistar
Chip quantity	36 pcs.
CCT	3000 – 6500 K
CRI	> 70
Beam angle	120°
IP rating	IP66
IK rating	≥ IK08
Operating temperature	-25 to +55 °C
Rated lifetime	> 50 000 hours
Housing material	6063 aluminum / PC
Solar panel	18 V / 5 W monocrystalline
Panel grade	Grade A
Battery type	LiFePO4 Lithium
Battery capacity	12 V / 12 Ah
Discharging time	18 h
Charging time	9 h (1000 W/m2 @ 25° C)
Warranty	5 years
Certifications	ENEC / CE / CB / RoHS
Fitting size	
Packing size	
Net weight	
Gross weight	

* Technical specifications
subject to change at any time.
Other powers and
configurations available on
request.

ORION LAMBDA
MEISSA



SOLAR ENERGY IS BOUND TO BE IN OUR FUTURE.
THERE’S A KIND OF INEVITABILITY ABOUT IT.

JIM INHOFE



B3 ENGINEERING
THE MASTERS OF LIGHT

FLOOD LIGHTS



LED FLOODLIGHT FAMILY

MASTER



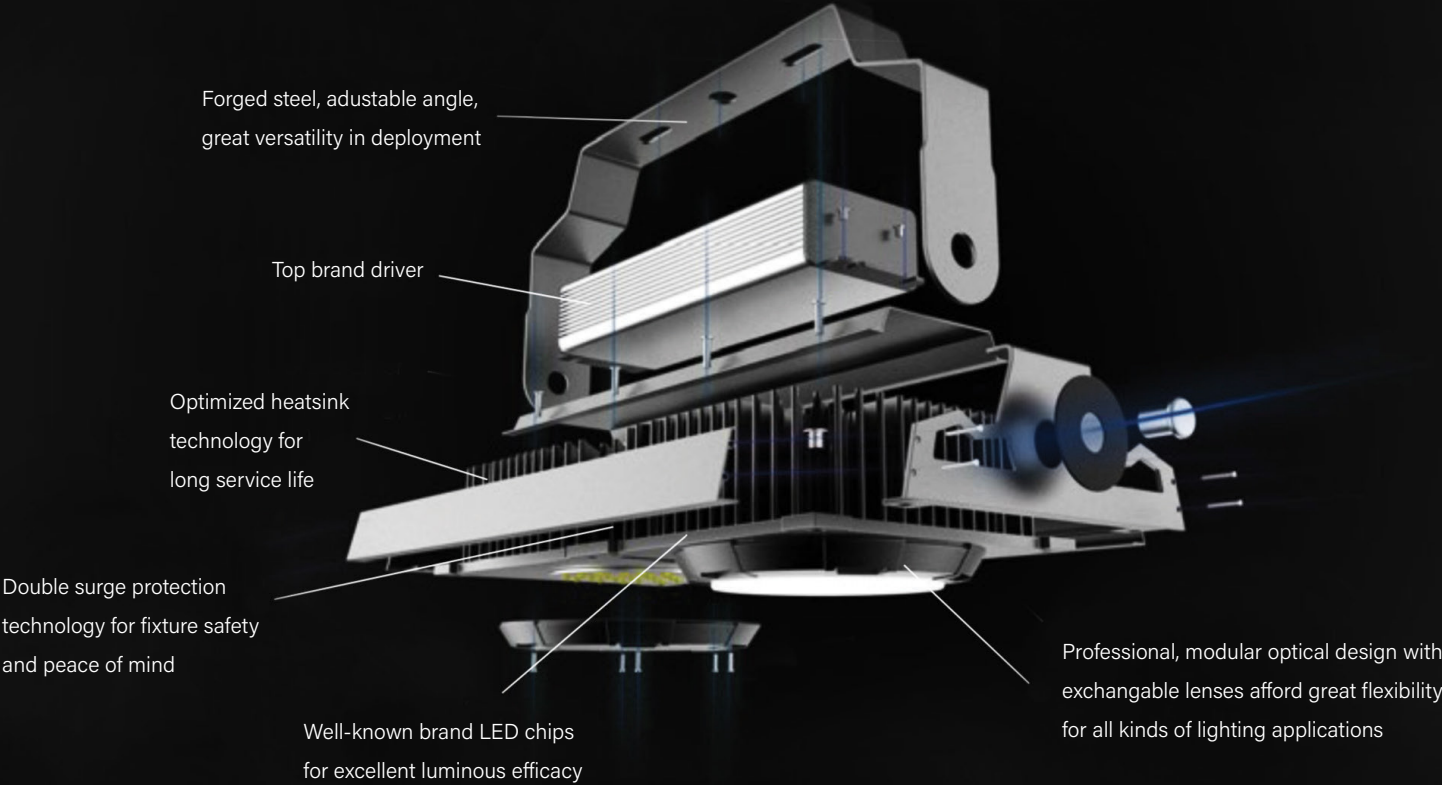
MASTER LED FLOODLIGHT FAMILY

Our MASTER family of modular LED floodlight fixtures meets various standards for both indoor and outdoor floodlighting. The modern design, with unique, replaceable LED modules, driver modules, creative heat sink technology and brand-name LED chips with lenses, helps to bring unprecedented performance and value to provides the most attractive LED lighting solution.

ANY SUFFICIENTLY ADVANCED TECHNOLOGY IS
INDISTINGUISHABLE FROM MAGIC.

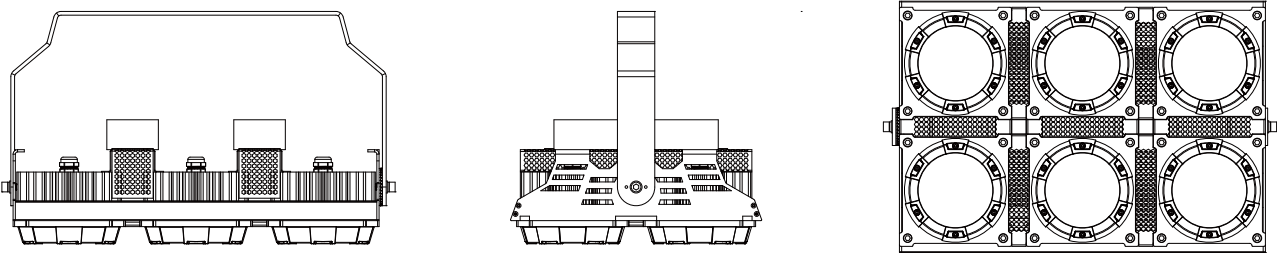
ARTHUR C. CLARKE

Our versatile, modular MASTER floodlight fixtures are in a class of their own. We took an unconventional approach in the design and development process to ensure that this world-class family of floodlights will meet the widest range of specifications and standards for both indoor and outdoor floodlighting. The distinctively modern design builds on a unique modular concept with replaceable LED modules, driver modules, creative heat sink technology, world-class LED chips and interchangeable lenses. Our MASTER floodlights boast unprecedented performance, flexibility and value for remarkable LED lighting solutions. Let our MASTER floodlights do their magic in your floodlighting project.



MASTER

| 'mɑːstə **|** *n.* a skilled practitioner of a particular art or activity.
adj. having or showing very great skill or proficiency.





135
lm/W

CRI

> 70



−40°C
+50 °C



20 % -
95 %

IP

65

IK

≥ 08



5
years



50 000
hours

SPECIFICATIONS*

Rated power	80 W
Input voltage	110 – 240 V _{AC} 120 – 277 V _{AC}
Frequency	47 – 63 Hz
Power factor	> 0.95
Efficiency	> 90 %
Driver	Philips Meanwell
Chip	Lumileds Cree
Luminous efficacy	105 lm/W 125 lm/W
CCT	3000 – 6500 K
CRI	70 80
Protection class	Class I
IP rating	IP65
IK rating	IK08
Operating temperature	−40 to +50 °C
Humidity	20 – 95 % rel.
Rated lifetime	> 50 000 hours
Housing material	Die-cast aluminum
Heat sink	Aluminum + stainless steel
Lens cover	Tempered glass
Control system	Optional
MTBF	> 50 000 h
Warranty	5 years
Certifications	CE, SAA
Fitting size	150 × 150 × 239 mm
Packing size	355 × 355 × 305 mm (4 pcs.)
Net weight	3.5 kg
Gross weight	13.7 kg (4 pcs.)

MASTER 80

MASTER 160

MASTER 240

160 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
−40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
354 × 166 × 239 mm
365 × 390 × 305 mm (2 pcs.)
5.5 kg
13.1 kg (2 pcs)

240 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
−40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
522 × 166 × 259 mm
551 × 206 × 315 mm
7.5 kg
9.2 kg

MASTER 320

MASTER 480

MASTER 640

MASTER 720

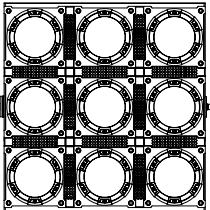
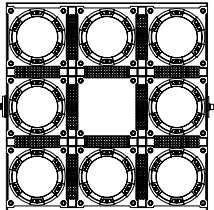
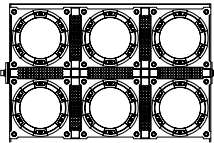
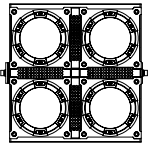
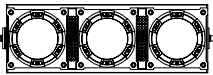
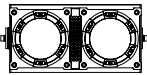
320 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
−40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
354 × 336 × 270 mm
445 × 400 × 225 mm
10.5 kg
12.8 kg

480 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
−40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
527 × 336 × 311 mm
600 # 410 × 235 mm
15.5 kg
17.6 kg

640 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
−40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
527 × 506 × 342 mm
610 × 590 × 245 mm
19.7 kg
22.6 kg

720 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
−40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
527 × 506 × 342 mm
610 × 590 × 245 mm
22.2 kg
25.1 kg

* Technical specifications
subject to change at any time.
Other powers and
configurations available on
request.



MASTER

Our MASTER family of floodlights boasts a range of highlights to provide maximum flexibility in planning and implementing your indoor or outdoor floodlighting projects.



135
lm/W

CRI

> 70



-40°C
+50 °C



20 % -
95 %

IP

65

IK

≥ 08



5
years



50 000
hours

SPECIFICATIONS*

Rated power
Input voltage
Frequency
Power factor
Efficiency
Driver
Chip
Luminous efficacy
CCT
CRI
Protection class
IP rating
IK rating
Operating temperature
Humidity
Rated lifetime
Housing material
Heat sink
Lens cover
Control system
MTBF
Warranty
Certifications
Fitting size
Packing size
Net weight
Gross weight

MASTER 800

800 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
-40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
699 × 506 × 365 mm
790 × 600 × 255 mm
28.3 kg
29.2 kg

MASTER 880

880 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
-40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
699 × 506 × 365 mm
790 × 600 × 255 mm
29.4 kg
31.5 kg

MASTER 960

960 W
110 – 240 V _{AC} 120 – 277 V _{AC}
47 – 63 Hz
> 0.95
> 90 %
Philips Meanwell
Lumileds Cree
105 lm/W 125 lm/W
3000 – 6500 K
70 80
Class I
IP65
IK08
-40 to +50 °C
20 – 95 % rel.
> 50 000 hours
Die-cast aluminum
Aluminum + stainless steel
Tempered glass
Optional
> 50 000 h
5 years
CE, SAA
699 × 506 × 365 mm
790 × 600 × 255 mm
30.5 kg
33.8 kg

* Technical specifications subject to change at any time. Other powers and configurations available on request.

MASTER module
80 W
150 × 150 × 78 mm

KEY FEATURES

- Cutting-edge optical design with precise light distribution and low light glare
- Lightweight, modular design with 80 watts per module
- 80 to 960 watts for indoor/outdoor deployment (replaces traditional 150 – 2 000 W fixtures)
- Interchangeable lenses for beam angles of 12°, 15°, 30°, 60°, 90° and 120°
- High luminous efficacy of up to 135 lm/W
- PC lens with UV protection and tempered glass lens covers with high light transmittance
- Low luminous decay: zero decay within 3 000 hours and less than 30 % after 50 000 hours
- Light and small: individual modules weigh only 1 kg in a compact 150 mm × 150 mm format
- Easy replacement and maintenance of modules and drivers
- Optional: control system for intelligent PLC dimming, DALI dimming, Zigbee dimming, etc.
- Optional: microwave sensor, PIR radar sensor, light sensor, etc.

APPLICATIONS

- Stadiums, football fields , tennis courts
- Airports, sea ports, railway stations
- Highway crossings, parking lots, plazas
- Construction sites, high-mast applications
- Warehouses, terminals, gymnasiums
- Theaters

84

85



B3 ENGINEERING
THE MASTERS OF LIGHT

**PERFECTION IS ACHIEVED NOT WHEN THERE IS
NOTHING MORE TO ADD, BUT WHEN THERE IS
NOTHING LEFT TO TAKE AWAY.**

ANTOINE DE SAINT-EXUPÉRY

Clean lines and reductive simplicity are key to minimalist design, but also to reliable product performance. At B3 Engineering, we prefer purpose-driven functional design to superfluous feature overload. We are disciples of the “less is more” philosophy. Achieving a clean look with intelligent functionality is a deliberate and, frankly, painstaking process in which our engineers and designers employ proven principles of ergonomics, usability, integration, maintainability and sustainability. The result: beautiful products with uncompromising functional refinement. Exquisite quality designed in Germany.



B3 ENGINEERING
THE MASTERS OF LIGHT

UPLIGHTS



RGB+W LED UPLIGHT

HATTERAS



HATTERAS RGB+W LED UPLIGHT

The HATTERAS RGB+W LED uplight provides great flexibility for all kinds of outdoor installations. An optimal lighting distribution makes this outdoor uplight ideal for accentuating architecture and its distinctive elements, or for adding dramatic highlights to trees and landscape elements. An RGB controller facilitates a wide range of customisable colours.

HATTERAS

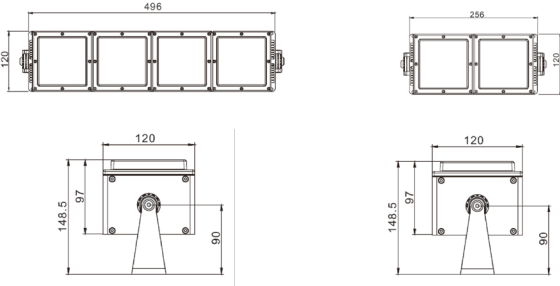
|'hætərəs| *n.* the fabled Cape Hatteras Lighthouse is located on Hatteras Island in the Outer Banks of North Carolina and keeps ships safe from harm along one of the most treacherous sections of the Atlantic Coast.

 120/135 lm/W	 -35 °C +50 °C	THD < 20 %	 90 V - 305 V	IP 66	 5 years
CRI > 70	 10 % - 90 %	PF > 0.95	 10 kV 10 kA	IK ≥ 08	 50 000 hours

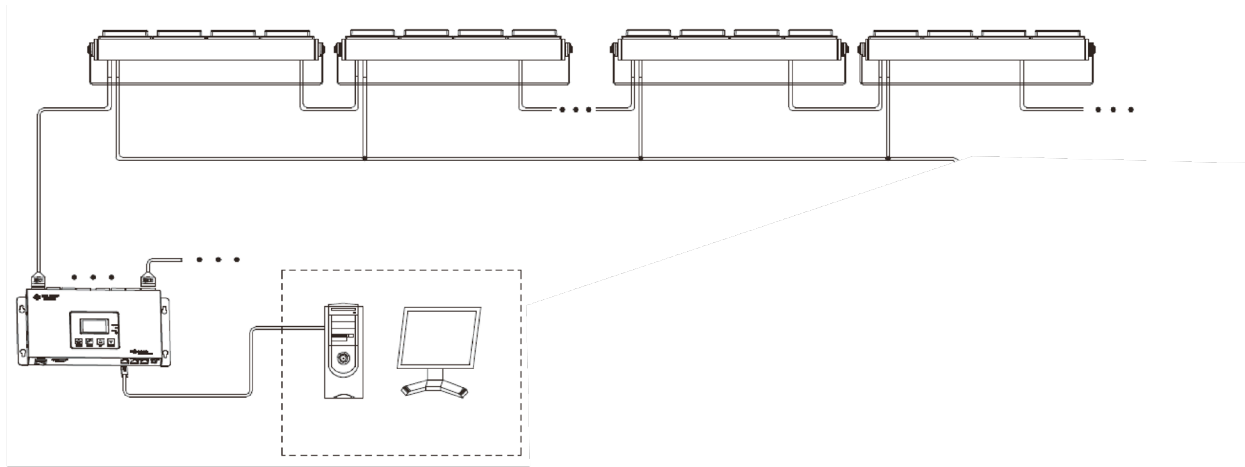
SPECIFICATIONS*

	HATTERAS X4	HATTERAS X2
Rated power	96 W	48 W
Input voltage	90 – 305 V _{AC}	90 – 305 V _{AC}
Chip	Osram / Cree / Lumileds	Osram / Cree / Lumileds
Luminous efficacy	120 lm/W	120 lm/W
Driver	Meanwell / Philips	Meanwell / Philips
Power factor	> 0.95	> 0.95
CCT	2700 – 6500 K / RGBW	2700 – 6500 K / RGBW
CRI	> 70	> 70
Surge protection	10/20 KV + 10 KA	10/20 KV + 10 KA
Protection class	Class I / II	Class I / II
IP rating	IP66	IP66
IK rating	≥ IK08	≥ IK08
Operating temperature	-35 to +50 °C	-35 to +50 °C
Rated lifetime	> 50 000 hours	> 50 000 hours
Housing material	Die-cast aluminum	Die-cast aluminum
Photocell base	Yes	Yes
Installation spigot	60 / 70 mm	60 / 70 mm
Control system	Optional	Optional
Warranty	5 years	5 years
Certifications	CCC / CE / RoHS	CCC / CE / RoHS
Fitting size	528 × 120 × 148,5 mm	288 × 120 × 148,5 mm

* Technical specifications subject to change at any time. Other powers and configurations available on request.



Wiring diagram



Accessories





LED UPLIGHT

SAMBRO



SAMBRO LED UPLIGHT

The SAMBRO outdoor LED uplight can be used as an uplight or recessed into a wall to provide a wash of light along paths or steps. It is suitable for creating a wash of light up low level walls or trees and across decking or patios.



SAMBRO

|'sambɾəʊ| n. Sambro Island Light is a landfall lighthouse located at the entrance to Halifax Harbour, Nova Scotia in Canada. First lit in 1758, it is the oldest surviving lighthouse in North America.

	120/135 lm/W		-35 °C +50 °C	THD	< 20 %		90 V - 305 V	IP	66		5 years
CRI	> 70		10 % - 90 %	PF	> 0.95		10 kV 10 kA	IK	≥ 08		50 000 hours



SPECIFICATIONS*

	SAMBRO L120	SAMBRO L100	SAMBRO L80
Rated power	120 W	100 W	80 W
Input voltage	90 – 305 VAC	90 – 305 VAC	90 – 305 VAC
Chip	Lumileds 3030	Lumileds 3030	Lumileds 3030
Luminous efficacy	120 lm/W	120 lm/W	120 lm/W
RGB	No	No	No
Driver	MW / Philips / Inventronics	MW / Philips / Inventronics	MW / Philips / Inventronics
Driver dimmable	1–10 V, DALI or non-dim.	1–10 V, DALI or non-dim.	1–10 V, DALI or non-dim.
Power factor	> 0.95	> 0.95	> 0.95
CCT	3000 – 6500 K	3000 – 6500 K	3000 – 6500 K
CRI	> 70	> 70	> 70
Surge protection	10/20 KV + 10 KA	10/20 KV + 10 KA	10/20 KV + 10 KA
Protection class	Class I / II	Class I / II	Class I / II
IP rating	IP66	IP66	IP66
IK rating	≥ IK08	≥ IK08	≥ IK08
Operating temperature	-35 to +50 °C	-35 to +50 °C	-35 to +50 °C
Rated lifetime	> 50 000 hours	> 50 000 hours	> 50 000 hours
Housing material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Warranty	5 years	5 years	5 years
Certifications	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS	ENEC / CE / CB / RoHS
Fitting size	260 × 260 × 255 mm	260 × 260 × 255 mm	260 × 260 × 255 mm

SAMBRO M60

60 W
90 – 305 VAC
Lumileds 3030
120 lm/W
No
MW / Philips / Inventronics
1–10 V, DALI or non-dim.
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
5 years
ENEC / CE / CB / RoHS
200 × 200 × 196 mm

SAMBRO M40

40 W
90 – 305 VAC
Lumileds 3030
120 lm/W
No
MW / Philips / Inventronics
1–10 V, DALI or non-dim.
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
5 years
ENEC / CE / CB / RoHS
200 × 200 × 196 mm

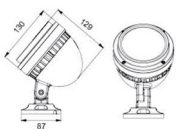
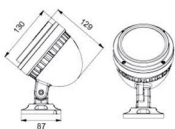
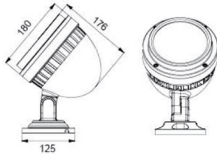
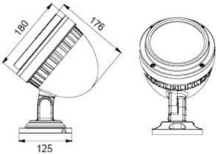
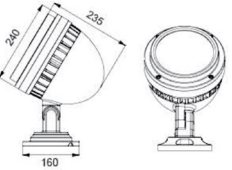
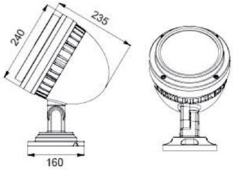
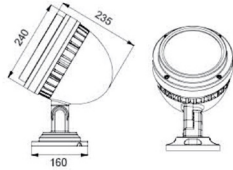
SAMBRO S20

20 W
90 – 305 VAC
Lumileds 3030
120 lm/W
No
MW / Philips / Inventronics
1–10 V, DALI or non-dim.
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
5 years
ENEC / CE / CB / RoHS
150 × 150 × 150 mm

SAMBRO S10

10 W
90 – 305 VAC
Lumileds 3030
120 lm/W
No
MW / Philips / Inventronics
1–10 V, DALI or non-dim.
> 0.95
3000 – 6500 K
> 70
10/20 KV + 10 KA
Class I / II
IP66
≥ IK08
-35 to +50 °C
> 50 000 hours
Die-cast aluminum
5 years
ENEC / CE / CB / RoHS
150 × 150 × 150 mm

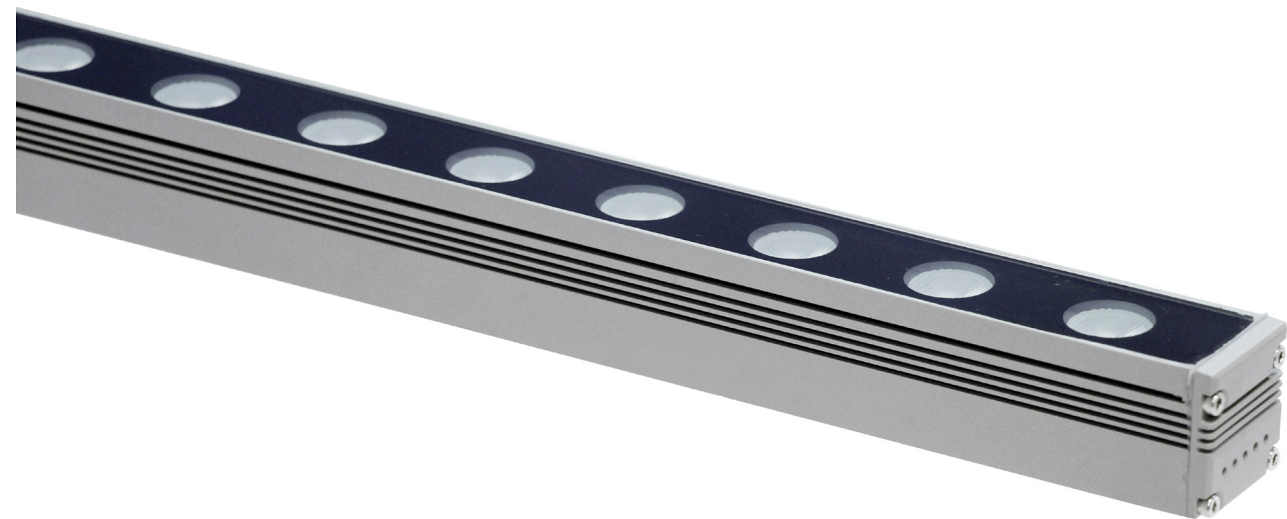
* Technical specifications subject to change at any time. Other powers and configurations available on request.





WALL WASHER

CHANIA



CHANIA WALL WASHER

The CHANIA wall washer is an outdoor linear LED uplight with a solid design and thin profile. It provides a very uniform wash of light on vertical surfaces to meet the specific lighting requirements for modern architecture with stunning highlights.

CHANIA

| kaˈnja: | *n.* lying in a port on the north coast of Crete, Chania Lighthouse was first built by the Venetians toward the end of the 16th century. Later repaired and reimagined by the Egyptians, Ottomans and Greeks, it is among the oldest lighthouses in the world.

71 lm/W

CRI > 70

-40 °C
+50 °C

10 % -
90 %

IP 66

IK 08

3 years

50 000 hours

SPECIFICATIONS*

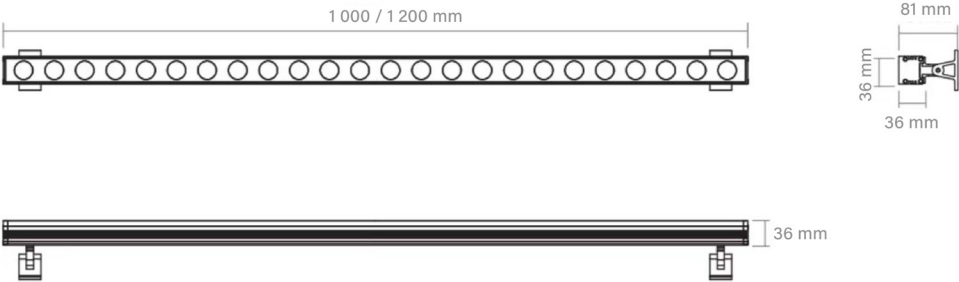
	CHANIA 12	CHANIA 18	CHANIA 24
Rated power	12 W	18 W	24 W
Input voltage	24 V _{DC}	24 V _{DC}	24 V _{DC}
Chip	OSRAM	OSRAM	OSRAM
Luminous flux	852 lm	1 278 lm	1 704 lm
Bem angle	5 – 15 ° × 30 – 60 °	5 – 15 ° × 30 – 60 °	5 – 15 ° × 30 – 60 °
RGB-W	Yes	Yes	Yes
Driver	Meanwell	Meanwell	Meanwell
CCT	2500 – 6500 K / RGB-W	2500 – 6500 K / RGB-W	2500 – 6500 K / RGB-W
CRI	> 70	> 70	> 70
IP rating	IP66	IP66	IP66
IK rating	IK08	IK08	IK08
Operating temperature	-40 to +50 °C	-40 to +50 °C	-40 to +50 °C
Rated lifetime	> 50 000 hours	> 50 000 hours	> 50 000 hours
Housing material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Warranty	3 years	3 years	3 years
Fitting size	1000 / 1200 × 36 × 35 mm	1000 / 1200 × 36 × 35 mm	1000 / 1200 × 36 × 35 mm

CHANIA 36

36 W
24 V _{DC}
OSRAM
2 556 lm
5 – 15 ° × 30 – 60 °
Yes
Meanwell
2500 – 6500 K / RGB-W
> 70
IP66
IK08
-40 to +50 °C
> 50 000 hours
Die-cast aluminum
3 years
1000 / 1200 × 36 × 35 mm



* Technical specifications subject to change at any time. Other powers and configurations available on request.





B3 ENGINEERING
THE MASTERS OF LIGHT

HID LAMPS



**EVERY STEP OF PROGRESS THE WORLD HAS MADE
HAS BEEN FROM SCAFFOLD TO SCAFFOLD, AND FROM
STAKE TO STAKE.**

WENDELL PHILLIPS

Worldwide, there are some 350 million street lights – most of which still use conventional lighting technology such as high-pressure sodium and metal halide lamps. The business and environmental case for switching from traditional lighting technology to LED lighting technology is strong: LED technology can generate savings of 50 to 80 percent in energy costs, which account for around three quarters of the total cost of operation.

As a pioneer in LED lighting technology, B3 Engineering advocates replacing conventional HID lighting points on a broad scale. But, we also understand that budgetary and other restraints mean that the switchover will not happen overnight.

Our strategy of catering to our customers' present needs for traditional HID lighting consumables puts us in a very unique position that allows us to accelerate the smooth transition to LED street lighting – step by step, one street at a time.

B3 Engineering: your one-stop provider to bridge the gap between conventional street lighting infrastructure and clean, sustainable LED technology.

HID LAMPS

HIGH PRESSURE SODIUM

[hʌɪˈprɛʃəˈsəʊdiəm lamp] *n.* a high intensity discharge lamp that uses sodium in an excited state to produce light at a characteristic wavelength near 589 nm.

			
SPECIFICATIONS*	HPS T38 E27 2000K 70W	HPS T46 E40 2000 K 100 W	HPS T46 E40 2000 K 150 W
INMETRO REGISTRATION	000202/2020	000202/2020	000202/2020
PERFORMANCE DATA			
Light output (@ 100 h)	6.600 lm	10.000 lm	16.800 lm
Luminous efficacy	94 lm/W	100 lm/W	112 lm/W
Rated life (@10 h / start)	28.000 h	32.000 h	32.000 h
CCT	2.000 K	2.000 K	2.000 K
CRI	20 Ra	20 Ra	22 Ra
Typical warm up time	5 min	5 min	5 min
Typical hot restart time	1-2 min	1-2 min	1-2 min
Operating position	Universal	Universal	Universal
PHYSICAL DATA			
Base designation	E27 (Medium)	E40 (Mogul)	E40 (Mogul)
Bulb designation	T38	T46	T46
Max. bulb diameter	39 mm	47 mm	47 mm
Max. overall length (MOL)	156 mm		
Light center length (LCL)	102 ± 5 mm	132 ± 5 mm	132 ± 5 mm
Max. base temperature	210 °C	210 °C	210 °C
Max. bulb temperature	400 °C	400 °C	310 °C
Luminaire type	Enclosed	Enclosed	Enclosed
Socket pulse rating	5 kV	5 kV	5 kV
ELECTRICAL DATA			
Rated power	70 W	100 W	150 W
Operating voltage	90 V	100 V	100 V
Operating current	0,98 A	1,20 A	1,80 A
Min. op. circuit voltage (RMS)	198 V	198 V	198 V

* Technical specifications
subject to change at any time.

			
HPS T46 E40 2000 K 250 W	HPS T46 E40 2000 K 400 W		HPS ED54 E27 2000K 70W OVOID
000202/2020	000202/2020		000201/2020
32.000 lm	56.000 lm		5.950 lm
128 lm/W	140 lm/W		85 lm/W
32.000 h	32.000 h		24.000 h
2.000 K	2.000 K		2.000 K
22 Ra	22 Ra		20 Ra
5 min	5 min		5 min
1-2 min	1-2 min		1-2 min
Universal	Universal		Universal
E40 (Mogul)	E40 (Mogul)		E27 (Medium)
T46	T46		ED54
47 mm	47 mm		56 mm
158 ± 5 mm	175 ± 5 mm		141 mm
250 °C	250 °C		88 ± 3 mm
400 °C	400 °C		210 °C
Enclosed	Enclosed		400 °C
5 kV	< 5 kV		Open/Enclosed
250 W	400 W		5 kV
100 V	100 V		70 W
3,0 A	4,6 A		90 V
198 V	198 V		0,98 A
			198 V

HID LAMPS

METAL HALIDE

[ˈmɛt(ə)l ˈheɪlʌɪd lɑmp | *n.* a high intensity discharge lamp that produces light by an electric arc through a gaseous mixture of vaporized mercury and metal halides (compounds of metals with bromine or iodine).



SPECIFICATIONS*

PERFORMANCE DATA

Light output (@ 100 h)	8.000 lm
Luminous efficacy	80 lm/W
Rated life (@10 h / start)	10.000 h
CCT	5.000 K
CRI	60 Ra
Typical warm up time	1-2 min
Typical hot restart time	2-4 min
Operating position	Horiz. ±15°

PHYSICAL DATA

Base designation	E40 (Mogul)
Bulb designation	T46
Max. bulb diameter	47 mm
Max. overall length (MOL)	211 mm
Light center length (LCL)	127 ± 3 mm
Max. base temperature	210 °C
Max. bulb temperature	400 °C
Luminaire type	Enclosed
Socket pulse rating	3,5-4,5 kV

ELECTRICAL DATA

Rated power	100 W
Operating voltage	100 V
Operating current	1,10 A
Min. op. circuit voltage (RMS)	210 V



MH T46 E40 5000 K
150 W

Light output (@ 100 h)	9.000 lm
Luminous efficacy	60 lm/W
Rated life (@10 h / start)	8.000 h
CCT	5.000 K
CRI	60 Ra
Typical warm up time	1-2 min
Typical hot restart time	2-4 min
Operating position	Horiz. ±15°

Base designation	E40 (Mogul)
Bulb designation	T46
Max. bulb diameter	47 mm
Max. overall length (MOL)	211 mm
Light center length (LCL)	127 ± 3 mm
Max. base temperature	250 °C
Max. bulb temperature	400 °C
Luminaire type	Enclosed
Socket pulse rating	3,5-4,5 kV

Rated power	150 W
Operating voltage	95 V
Operating current	1,80 A
Min. op. circuit voltage (RMS)	210 V



MH T46 E40 5000 K
250 W

Light output (@ 100 h)	18.500 lm
Luminous efficacy	74 lm/W
Rated life (@10 h / start)	12.000 h
CCT	5.000 K
CRI	70 Ra
Typical warm up time	3-5 min
Typical hot restart time	5-10 min
Operating position	Horiz. ±15°

Base designation	E40 (Mogul)
Bulb designation	T46
Max. bulb diameter	47 mm
Max. overall length (MOL)	257 mm
Light center length (LCL)	148 ± 5 mm
Max. base temperature	250 °C
Max. bulb temperature	400 °C
Luminaire type	Enclosed
Socket pulse rating	3,5-4,5 kV

Rated power	250 W
Operating voltage	95 V
Operating current	3,00 A
Min. op. circuit voltage (RMS)	198 V



MH T46 E40 5000 K
400 W

Light output (@ 100 h)	32.000 lm
Luminous efficacy	80 lm/W
Rated life (@10 h / start)	12.000 h
CCT	5.000 K
CRI	70 Ra
Typical warm up time	3-5 min
Typical hot restart time	8-12 min
Operating position	Horiz. ±15°

Base designation	E40 (Mogul)
Bulb designation	T46
Max. bulb diameter	47 mm
Max. overall length (MOL)	292 mm
Light center length (LCL)	178 ± 5 mm
Max. base temperature	250 °C
Max. bulb temperature	400 °C
Luminaire type	Enclosed
Socket pulse rating	3,5-4,5 kV

Rated power	400 W
Operating voltage	100 V
Operating current	4,60 A
Min. op. circuit voltage (RMS)	198 V



* Technical specifications
subject to change at any time.



B3 ENGINEERING
THE MASTERS OF LIGHT

INTELLIGENT CONTROL SYSTEMS



INTELLIGENT AND ADAPTIVE **LIGHT CONTROL**



INTELLIGENT LIGHT CONTROL SYSTEM

Our innovative control systems are distributed IOT light management frameworks that give you full control over street light networks. Whether adaptive dimming, consumption monitoring, maintenance alerts or ancillary services like CCT, emergency services or electric car charging stations, B3 Engineering IOT control systems are a natural extension to new or existing street lighting networks.

**THERE IS ONLY ONE THING STRONGER THAN ALL THE
ARMIES OF THE WORLD: AND THAT IS AN IDEA WHOSE
TIME HAS COME.**

VICTOR HUGO



INTELLIGENT STREET LIGHTING

Illumination systems are an essential part of urban infrastructure. They provide safer traffic conditions, contribute to the sense of security in public areas and highlight the architectural and landscape beauty of cities around the world.

With today's technology we can take all of this one step further. Embracing a combination of efficient LED illumination systems and modern IoT solutions, we create smart cities with intelligent and adaptive street lighting. Night for night, our intelligent street lighting control systems light up at the right time and function seamlessly.

All of our street and park lights can be equipped with our Smart City control systems. In addition to realizing energy savings of up to 35 % through intelligent dimming, myriad other functions can improve the quality of light and life in cities large and small. Groups of street lights can be linked into mesh or tree topologies using a variety of communication technologies, including RF, LoRa and PLC. Data concentrators allow you to easily and comfortably manage all Smart City functions remotely from a central control room via RF or GSM / GPRS.

Key features of the B3 Smart City control system include:

- On/off control
- Dimming control
- Timed control
- Consumption monitoring
- Data Storage
- Group management
- Fault alerts
- Status inquiry

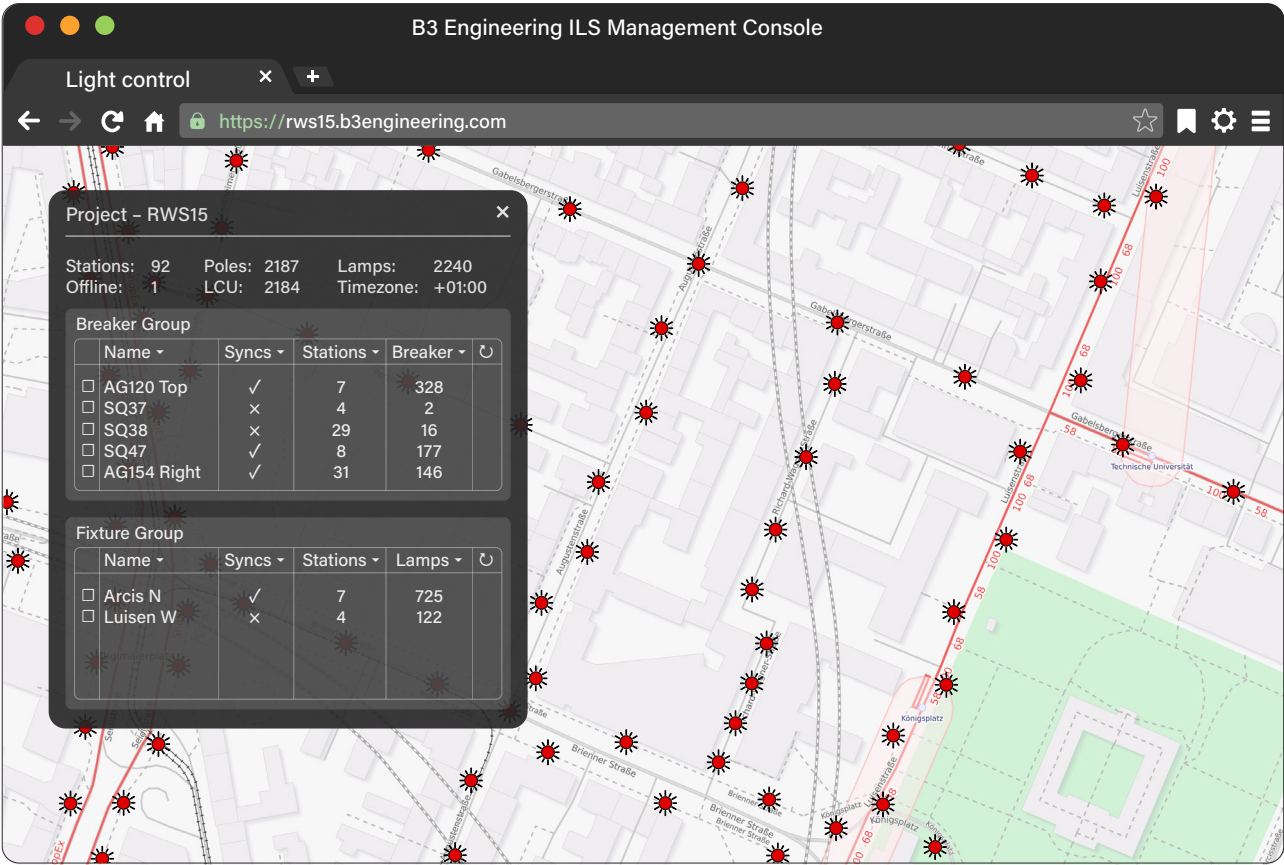
REMOTE SENSING AND CENTRALIZED CONTROL

We take an agile and holistic approach to lighting control projects. This approach starts with a rigorous assessment of all aspects of a given project in which the functional requirements are analyzed and specific challenges are identified. Using this information, we put together a bespoke solution that integrates electronics, telecommunications and energy savings for a highly integrated, remotely managed lighting control system.

In addition to adaptive lighting control, the technology allows precise monitoring of point-by-point energy consumption with fault alerts. The advantage is that expensive and time-consuming routine maintenance checks become a thing of the past. Defects and faults are indicated directly in the remote management system. Maintenance crews can deal with issues quickly and directly. This reduces down time and saves labor costs.

Street lighting systems provide the ideal infrastructure for implementing myriad other Smart City functions. In addition to lighting control, our control systems can provide the backbone for Smart City implementations, including CCT monitoring, emergency communication systems, parking space management, environmental monitoring, traffic density tracking and electric car charging stations.

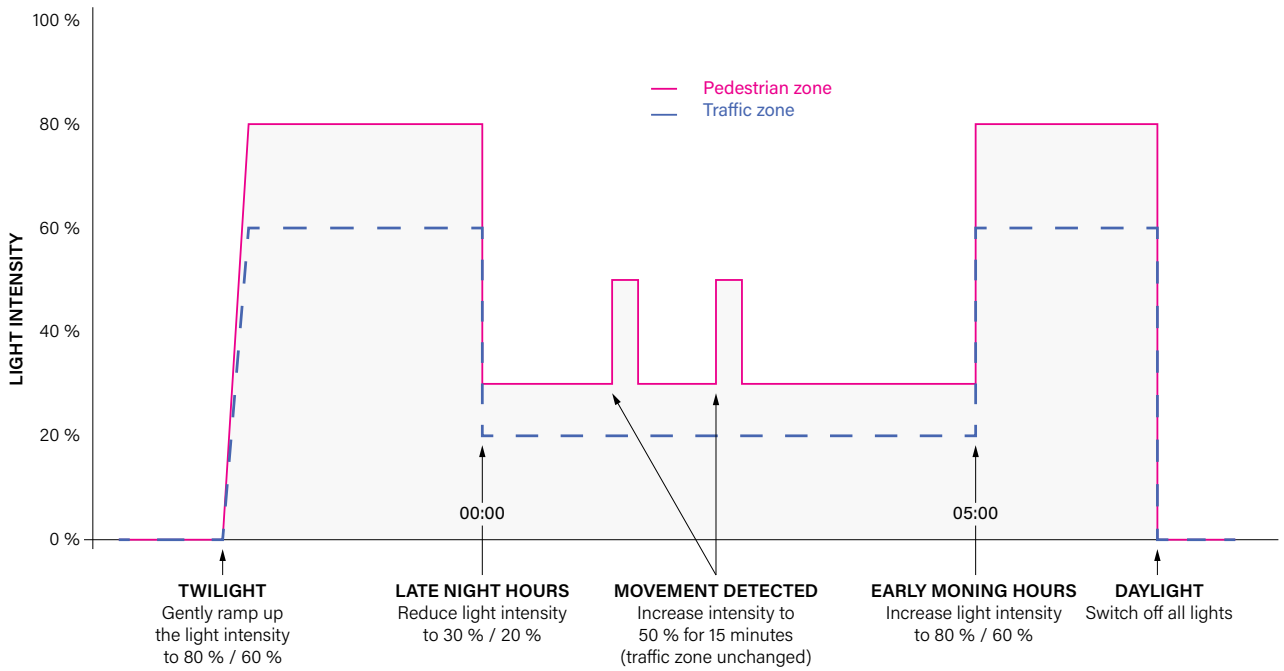
Depending on the requirements, our control systems can integrate with big data computing facilities for advanced data processing and globalized control scenarios.



Remote management console

Example of an adaptive dimming scenario

As the sun sets in the evening, our intelligent control system gradually ramps up the power of the street lights. In contrast to a hard switching off-on function, this gentle switching protects the LED module and extends its lifetime. In the late night and early morning hours where traffic is limited, the system dims to between 20 and 30 percent capacity. Due to the non-linear nature of the human eye, the perceivable difference in the amount of light is minimal, but the electricity savings are significant. Traffic lanes and sidewalks can be controlled separately. Motion sensors can detect when people or cars approach and adaptively increase the amount of light temporarily. In the pre-dawn phase when traffic starts to pick up, the lights are powered up again until the sun rises, at which time the lights are shut off.



SOLUTIONS FOR NEW AND EXISTING INSTALLATIONS

B3 Engineering provides the ecosystem for fully flexible and scalable smart IoT lighting solutions. All of our street lights can be fitted with integrated controllers. Available are a variety of tools such as light or motion sensors, programmable dimming modules, and light management systems with a wide array of energy saving and system monitoring functions.

Please contact us for more information on how our intelligent control systems can improve the quality of light and life in your city. Our specialists look forward to advising you in a personal conversation.



INDUSTRY STANDARD

COLOR CONTROL



B3-ST4K DMX COLOR CONTROLLER

The B3-ST4K DMX controller gives you full control over complex LED lighting systems with the flexibility to create an infinite number of settings to implement even the most challenging lighting applications.



INTELLIGENT COLOR CONTROL

For many designers, architects and lighting project developers, DMX is the first choice when it comes to meeting complex lighting control requirements. An acronym for digital multiplex, DMX is a digital-network communication standard that offers flexible control options for a wide variety of lighting, including LEDs.

The B3-ST4K DMX controller is the brain behind many color and white lighting setups. It transmits the messages that trigger individual light points to create static and dynamic color effects with custom hues and variations in brightness.

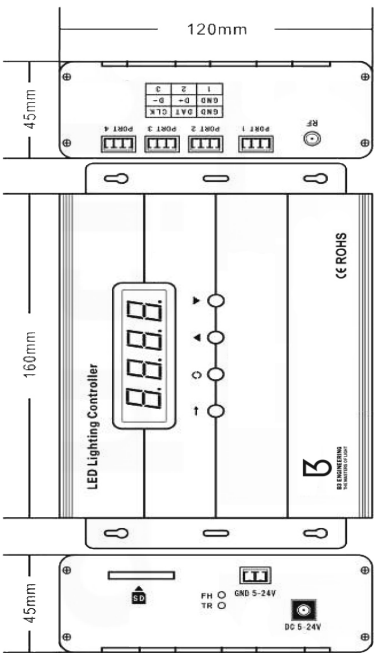
SPECIFICATIONS*

Input voltage	5 – 25 V _{DC}
Rated power	5 W
Output	4 ports
Signal type	TTL
Color levels	256 RGB
Load pixels	4 × 1024 pixels
Protocol	DMX512
Operating temperature	-20 to +65 °C
Dimensions	160 × 120 × 45 mm
Weight	600 g

B3-ST4K

Input voltage	5 – 25 V _{DC}
Rated power	5 W
Output	4 ports
Signal type	TTL
Color levels	256 RGB
Load pixels	4 × 1024 pixels
Protocol	DMX512
Operating temperature	-20 to +65 °C
Dimensions	160 × 120 × 45 mm
Weight	600 g

* Technical specifications
subject to change at any time.





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