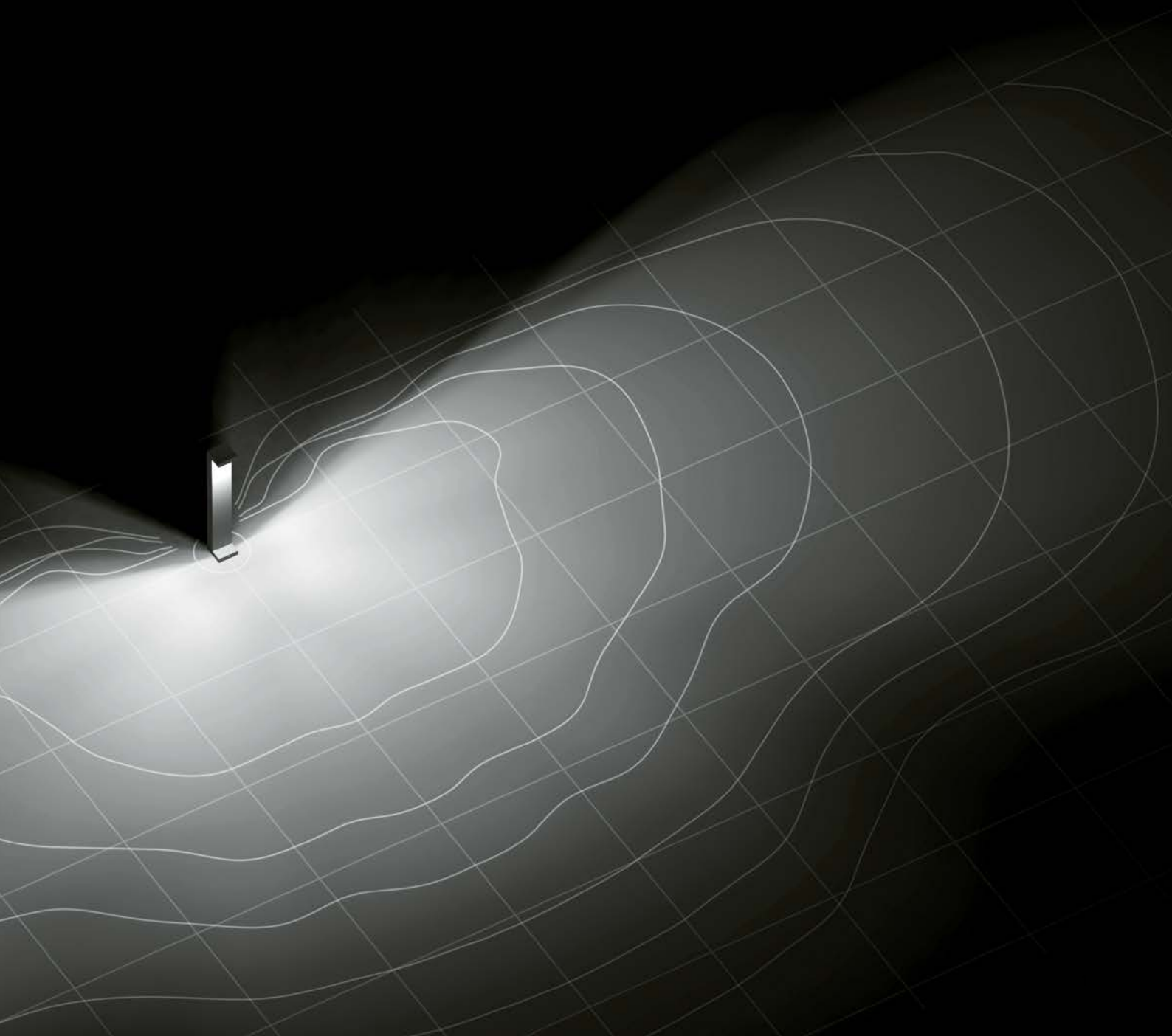


Wide flat beam light distribution

Efficient illumination with large light point distances

BEGA



Das gute Licht.



The **BEGA Competence Center** in Menden offers a comprehensive insight into our portfolio of high-quality luminaires and design elements for virtually any application.

About us and our luminaires

BEGA is a global leader and innovator in the sector for high-end architectural lighting. For more than 80 years, we have been developing and manufacturing solutions for architectural lighting and landscape design. BEGA luminaires, urban and outdoor furniture, as well as charging stations for electric vehicles find their place there – and retain it for decades to come. Our work is characterised by a clear focus on sustainability. BEGA stands for reliable quality and continuous commitment under the guiding principle:

Sustainable by Design

We think of sustainability as the responsible use of environmentally friendly materials. It encompasses all aspects of what we do. Our products are designed to last and to reliably fulfil their function for many decades to come.

We rely on high-quality materials and components, and manufacture exclusively in our own factories in Germany, Belgium, France and the United States.

Our 20-year availability guarantee for luminaire components further extends the exceptional longevity of our products, allowing us to conserve valuable resources and enables their continued use after decades of reliable operation.

Versatility of BEGA bollards

When illuminating footpaths, cycle paths and open ground surfaces like plazas, the focus lies on combining efficiency with safety. BEGA offers a comprehensive portfolio to meet a wide range of requirements.

Bollards with different light distribution characteristics ensure a consistent and harmonious appearance across outdoor spaces while maintaining the same luminaire design. The luminaires presented here are available with light distributions ranging from asymmetrical to wide-beam, and in future also in a wide flat beam distribution to solve an even broader spectrum of lighting applications.

We also recommend taking a look at the flexibility of BEGA system bollard luminaires. These can additionally be equipped with floodlights, sockets, passive infrared sensors or batteries for emergency lighting operation.



Wide flat beam light distribution

- For uniform footpath illumination, the luminaires are spaced approximately 14 meters apart
- The light appears evenly distributed at close range and from a distance
- Long, straight footpaths are the preferred area of application



Asymmetrical light distribution

- For uniform, deep illumination of ground surfaces, the luminaires are spaced five to six meters apart
- The asymmetrical light distribution reaches up to six meters into the space
- Luminaires with this light distribution are positioned, for example, along opposite edges of squares



Flat beam light distribution

- For the illumination for example, of curved footpaths, the luminaires are spaced approximately ten meters apart
- Increased light intensity is noticeable near the luminaire.
- With these luminaires, footpaths three to four meters wide can be efficiently illuminated from one side

Environmentally friendly use of light

Bollards illuminate pathways and define areas. Areas are structured.

The luminaires presented here direct their light efficiently to the surface to be illuminated – and as Dark Sky luminaires, most emit less than 1% of their luminous flux into the upper half space of the luminaire. This preserves the darkness of the night sky and allows better orientation for nocturnal animals.

bega.com/darksky



Asymmetrical light distribution

Bollards with asymmetrical light intensity distribution direct the light specifically into the depth of the space. Their downward-directed light distribution ensures a high degree of illuminance in the near field while maintaining excellent visual comfort – ideal for wide footpaths and open areas.



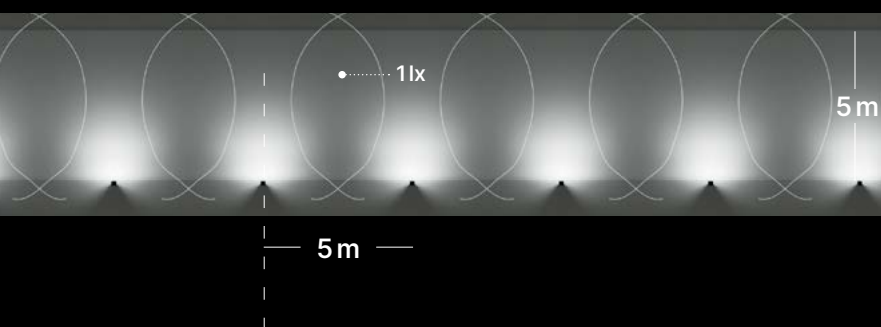
Flat beam light distribution

Bollards with flat beam light intensity distribution produce an elongated, ellipsoidal cone of light. The precise light distribution ensures efficient and directed illumination of narrow paths with minimal stray light.

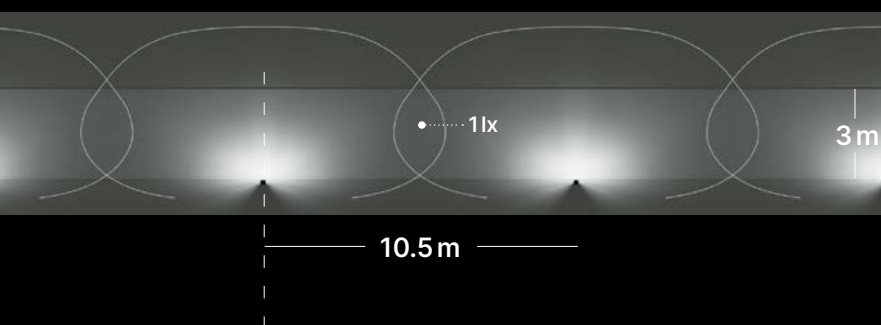


Wide flat beam light distribution

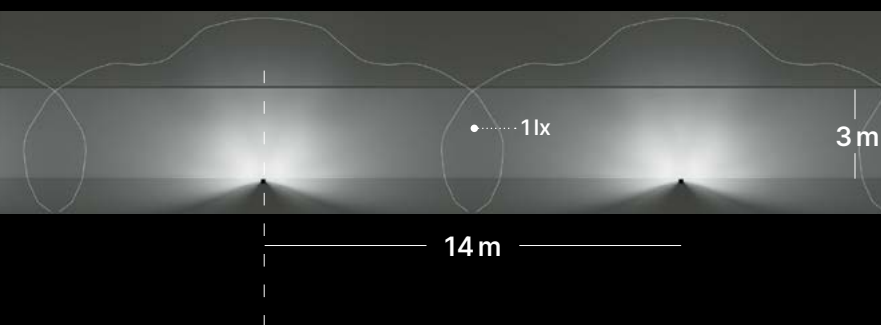
Bollards with a wide flat beam intensity distribution produce a wide, ellipsoidal light cone with uniform horizontal light distribution – for larger luminaire distances. They are particularly suitable for longer sections of path.



- Uniform, ambient illumination extending deep into the space
- Luminaires shielded upwards to prevent upward glare
- Playfully perceived "island of light" in the immediate vicinity of the luminaires



- Wide horizontal light distribution of the luminous intensity
- Soft, precisely directed light on ground surfaces
- Luminaires shielded upwards to prevent upward glare



- Very wide horizontal light distribution of the luminous intensity
- Uniform light on ground surfaces
- Few "light islands" near the luminaires
- Luminaires shielded upwards to prevent upward glare

Light intensity distribution and light point spacing

Long, straight or gentle curved pathways are ideal locations for BEGA luminaires with a flat beam or wide flat beam light distribution.

For wide-area, uniform illumination of ground surfaces – like squares or entrance areas – asymmetric light distributions are used.

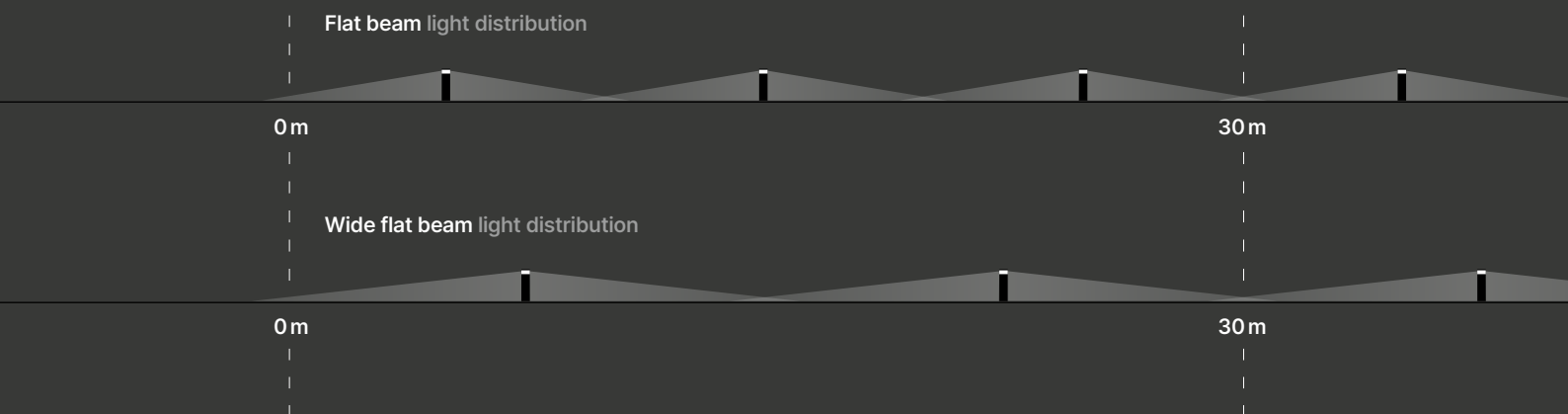
Below, you will find a comparison of the recommended light point spacing for a selection of our products. All values include a **maintenance factor of 0.8**.

For longer footpaths, bollards with a wide flat beam light distribution offer an economically efficient alternative. Their precise light deflection ensures uniform footpath illumination while reducing installation and operating cost.

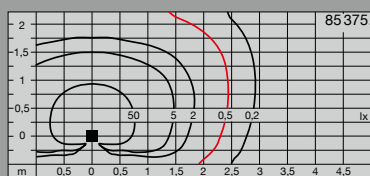
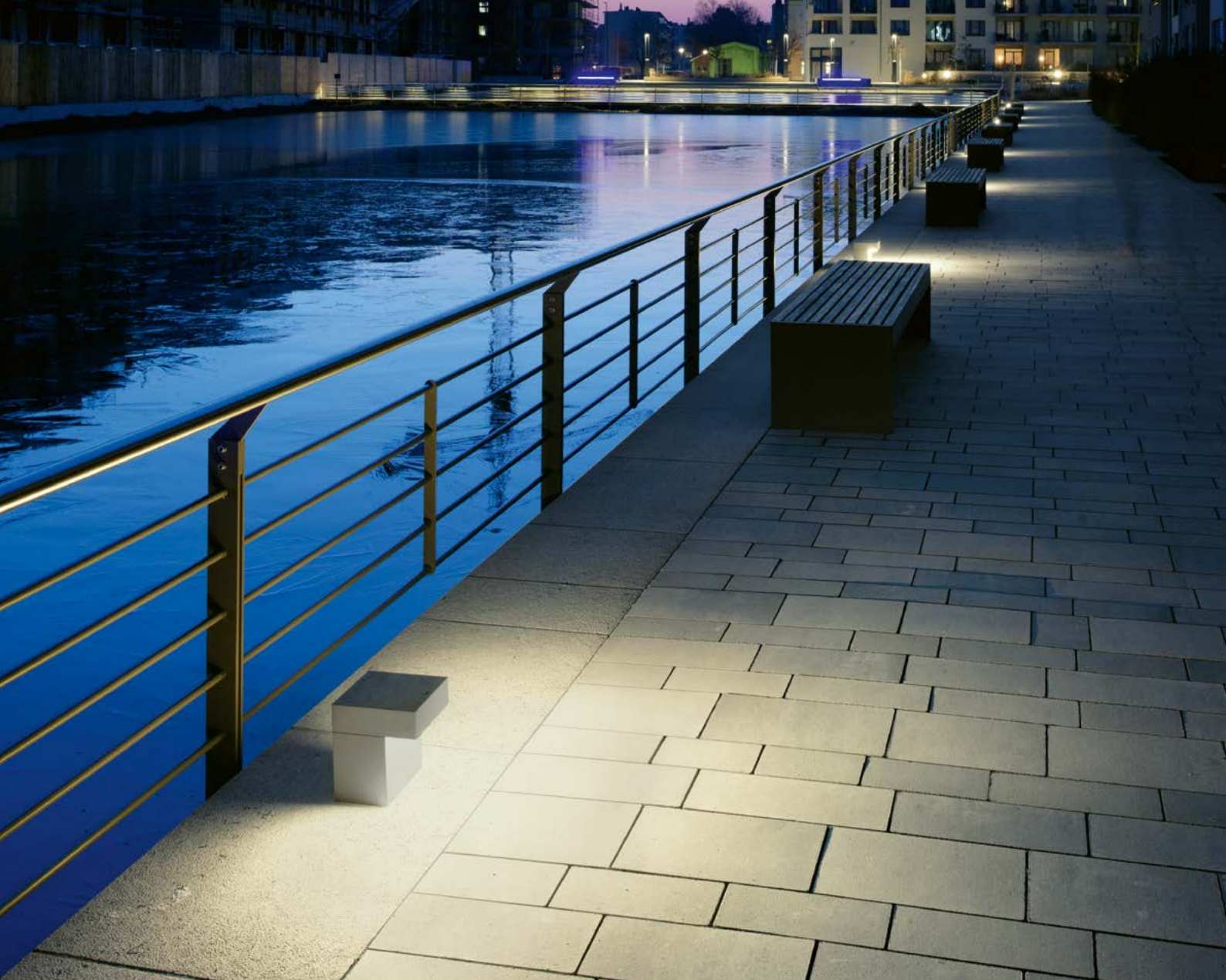
The advantages at a glance:

- Low connection power
- Larger luminaire spacing
- Reduced installation cost
- Less excavation work
- Low-cost operation

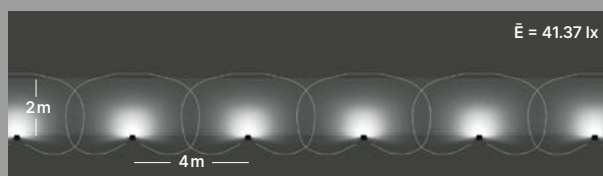
			
		On-ground-luminaires	Garden and pathway luminaires
Application		Light point distance (m)	
Surface illumination up to 6 metres into the space		—	—
	Asymmetrical		
Path illumination for footpaths 3 to 4 metres wide		—	—
	Flat beam		
		4	12.5 · 7.5
	Wide flat beam		



    					
Bollards Bollards Bollards System bollards System bollards					
Light point distance (m)					
	5 · –	5.5 · –	5.5	–	–
	10.5 · 5.5	10.5 · 5.5	10	7 · 6	–
	14 · –	14 · –	13.5	13 · 10	16 · 10



New luminaire



Calculated with a maintenance factor of 0.8

Wide flat beam light distribution

Footpath width	2m
Light point distance	4m
Average degree of illuminance	$\bar{E} = 41.37 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.01 \text{ lx}$
Uniformity	$U_1 = 0.024$



On-ground luminaires
Wide flat beam light distribution

BEGA on-ground luminaires are robust light design elements that offer glare-free illumination while visually structuring footpaths, squares and entrance areas in private and public spaces. Their compact design ensures precise, close-range illumination of ground surfaces from a low mounting height.

The cast aluminium housing with its durable BEGA Unidure® coating, combined with long-life LED technology guarantee a long service life and a clear design presence – by day and night.

Luminaires with wide flat beam light distribution provide uniform illumination or precise demarcation despite greater distances between luminaires – ideal for longer paths or square-like areas.

Protection class
IP 65

Material
Aluminium, cast aluminium,
BEGA NeoGlass® synthetic cover

BEGA Ultimate Driver®

BEGA Thermal Management®

Controllable
DALI

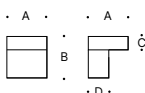
Light source
BEGA LED module

LED colour temperature
3000 K · 4000 K

Luminaire colour
BEGA Unidure®

 Graphite
Order number

 Silver
Article number + **A**



Wide flat beam				A	B	C	D	Anchorage unit
85 375	9.0 W	650 lm	DALI	200	215	60	125	70 894





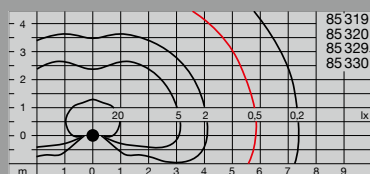
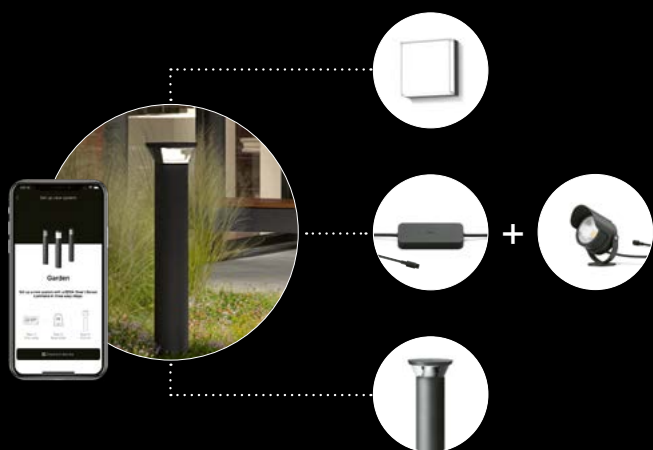
works with
BEGA Smart

Automated lighting

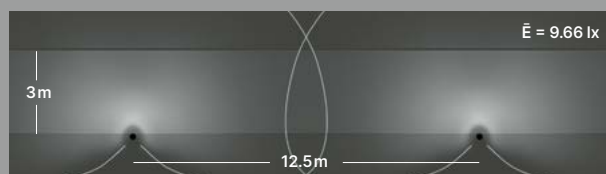
Smart luminaires with PIR sensor can control other luminaires that are networked via BEGA Smart after sunset and when motion is detected.

With BEGA Smart, you can bring intelligent lighting management into your home – easy to understand, intuitive, and clearly structured in the free BEGA Smart app.

More details at bega.com/smart



New luminaire



Calculated with a maintenance factor of 0.8

Wide flat beam light distribution

Footpath width	3m
Light point distance	12.5m
Average degree of illuminance	$\bar{E} = 9.66 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.08 \text{ lx}$
Uniformity	$U_1 = 0.112$

Garden and pathway luminaires

Directed light · 180° light emission

This luminaire series extends the range of garden and pathway luminaires with 180° light emissions that direct light with precision. It is designed specifically for private and semi-public use, where directed light is needed on pathways and large surface areas.

The highly targeted light deflection reduces the number of luminaires required for a more efficient and sophisticated illumination. Passive infrared motion (PIR) and light sensors can be optionally integrated. The result is automated control via BEGA Smart, taking into account ambient movements and lighting conditions. The luminaires can be networked, switched and dimmed wirelessly.

Luminaires with PIR sensor technology can activate or deactivate additional luminaires in the BEGA Smart network when motion is detected or alternatively control other luminaires via the integrated relay output. This concept represents a state-of-the-art, functional, and harmonious lighting solution with a uniform look.

Protection class
IP 65

Material
Aluminium, cast aluminium,
BEGA NeoGlass® synthetic cover

BEGA Ultimate Driver®

BEGA Thermal Management®

Controllable
BEGA Smart

Light source
BEGA LED module

LED colour temperature
3000 K · 4000 K

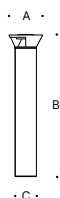
Luminaire colour
BEGA Unidure®



Graphite
Order number



Silver
Article number + A

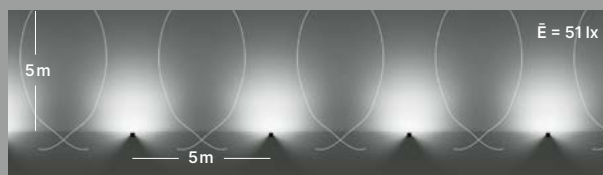
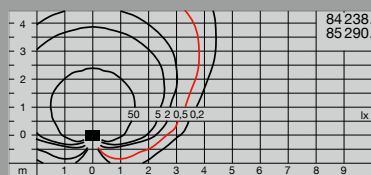


With anch. unit	With screw-on base	Wide flat beam			A	B	C
85 319	85 320	4.8 W	315 lm	BEGA Smart	175	730	110
85 321	85 322	6.8 W	645 lm	BEGA Smart	215	900	140

With PIR motion and light sensor

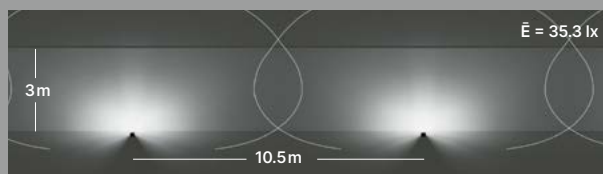
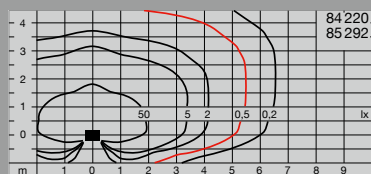
With anch. unit	With screw-on base	Wide flat beam			A	B	C
85 329	85 330	4.8 W	315 lm	BEGA Smart	175	730	110
85 331	85 332	6.8 W	645 lm	BEGA Smart	215	900	140





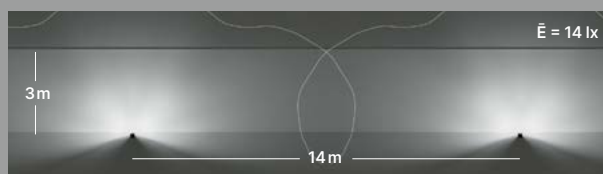
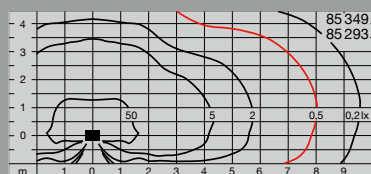
Asymmetrical light distribution

Illumination depth	5m
Light point distance	5m
Average degree of illuminance	$\bar{E} = 51 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.02 \text{ lx}$
Uniformity	$U_1 = 0.02$



Flat beam light distribution

Footpath width	3m
Light point distance	10.5m
Average degree of illuminance	$\bar{E} = 35.3 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.02 \text{ lx}$
Uniformity	$U_1 = 0.029$



Wide flat beam light distribution

Footpath width	3m
Light point distance	14m
Average degree of illuminance	$\bar{E} = 14 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.04 \text{ lx}$
Uniformity	$U_1 = 0.074$

New luminaire

Calculated with a maintenance factor of 0.8



Bollards

Asymmetrical, flat beam or wide flat beam light distribution

Bollards are a key element for the illumination of footpaths and open areas in public spaces. These robust luminaires are manufactured from aluminium and are also available in an aluminium-and-wood version made with premium Accoya® wood. The rectangular profile with square dead underlines the clear, architectural design language of the luminaire.

To meet a variety of lighting requirements, our range includes luminaires with asymmetric, flat beam or wide flat beam light distribution. They enable targeted light deflection for long-range spatial illumination of wider footpaths and open areas, or precise linear light guidance along the paths. The wide flat beam light distribution ensures uniform illumination over longer distances, even with larger luminaire spacing.

All luminaires of this series are dark-sky-compliant. The light is effectively directed downward and shielded above the horizontal. The result is a high degree of illuminance with reduced glare potential – offering exceptional visual comfort.

Protection class
IP 65

Material
Aluminium, cast aluminium, safety glass or BEGA NeoGlass® synthetic cover, Accoya® wood

BEGA Constant Optics®

BEGA Ultimate Driver®

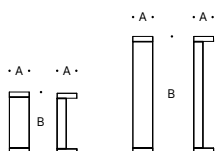
BEGA Thermal Management®

Controllable
DALI

Light source
BEGA LED module

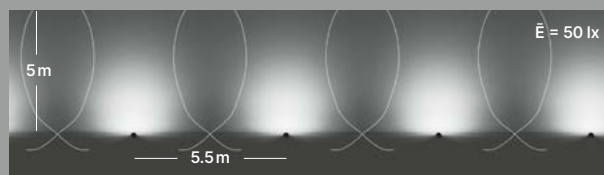
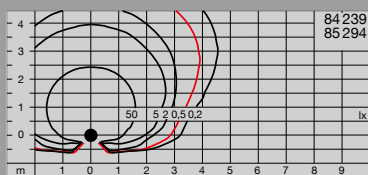
LED colour temperature
3000K · 4000K

Luminaire colour
BEGA Unidure®



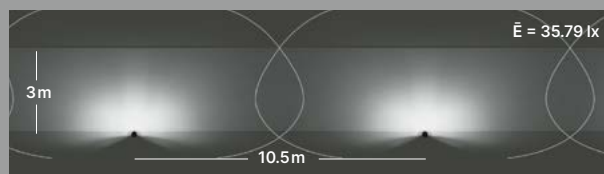
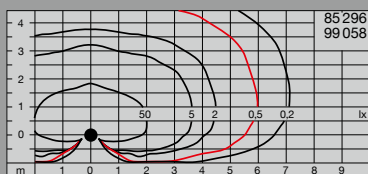
Asymmetrical				A	B	Anch. unit
84 238		13.1 W	1605 lm	DALI	160 × 160	945 70 895
85 290	with Accoya® wood	13.1 W	1795 lm	DALI	160 × 160	945 70 895
Flat beam				A	B	Anch. unit
84 750		7.0 W	655 lm	DALI	160 × 160	495 70 895
84 220		13.1 W	1435 lm	DALI	160 × 160	945 70 895
85 292	with Accoya® wood	13.1 W	1500 lm	DALI	160 × 160	945 70 895
Wide flat beam				A	B	Anch. unit
85 349		9.2 W	865 lm	DALI	160 × 160	1040 70 895
85 293	with Accoya® wood	9.2 W	855 lm	DALI	160 × 160	1040 70 895





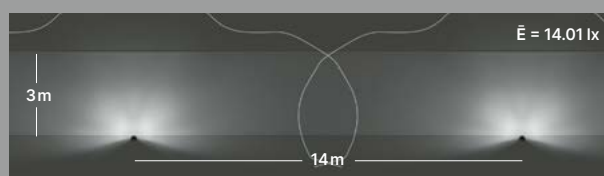
Asymmetrical light distribution

Illumination depth	5 m
Light point distance	5.5 m
Average degree of illuminance	$\bar{E} = 50 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.03 \text{ lx}$
Uniformity	$U_1 = 0.021$



Flat beam light distribution

Footpath width	3 m
Light point distance	10.5 m
Average degree of illuminance	$\bar{E} = 35.79 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.08 \text{ lx}$
Uniformity	$U_1 = 0.03$



Wide flat beam light distribution

Footpath width	3 m
Light point distance	14 m
Average degree of illuminance	$\bar{E} = 14.01 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.01 \text{ lx}$
Uniformity	$U_1 = 0.072$

New luminaire

Calculated with a maintenance factor of 0.8



Bollards

Asymmetrical, flat beam or wide flat beam light distribution

Bollards are the ideal choice for the illumination of footpaths and traffic areas in public spaces. They are manufactured from aluminium and are also offered in an aluminium-and-wood version made with premium Accoya® wood.

The semi-circular profile with a round head give the luminaire an elegantly understated, harmonious look.

Depending on lighting requirements, our range includes luminaires with asymmetrical, flat beam or wide flat beam light distribution. The precise light deflection ensures deep, spatial illumination of wider footpaths and open areas, as well as efficient linear lighting along pathways. A flat beam light distribution also ensures uniform illumination over greater distances, even with increased luminaire spacing.

All luminaires of this series are dark-sky-compliant. The highly effective shielding of the light above the horizontal reduces unwanted light emission for more visual comfort and environmentally friendly outdoor lighting.

Protection class
IP 65

Material
Aluminium, cast aluminium, safety glass or BEGA NeoGlass® synthetic cover, Accoya® wood

BEGA Constant Optics®

BEGA Ultimate Driver®

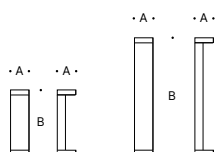
BEGA Thermal Management®

Controllable
DALI

Light source
BEGA LED module

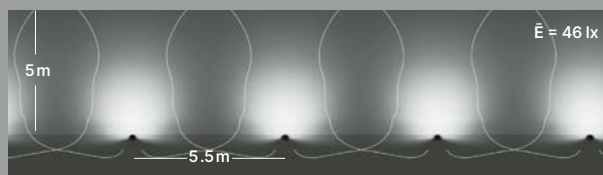
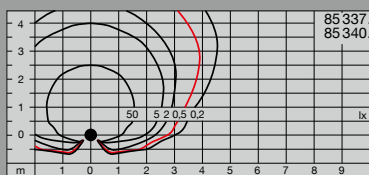
LED colour temperature
3000K · 4000K

Luminaire colour
BEGA Unidure®



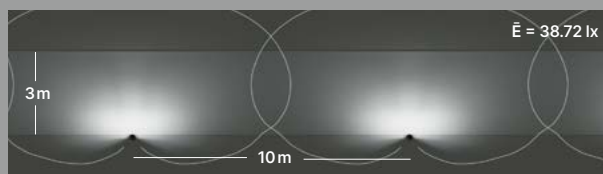
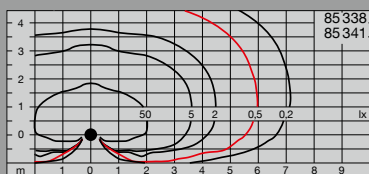
Asymmetrical					A	B	Anch. unit
84 239		13.1 W	1695 lm	DALI	Ø 190	1000	70 895
85 294	with Accoya® wood	13.1 W	1680 lm	DALI	Ø 190	1000	70 895
Flat beam					A	B	Anch. unit
84 749		7.0 W	655 lm	DALI	Ø 190	550	70 895
99 058		13.1 W	1415 lm	DALI	Ø 190	1000	70 895
85 296	with Accoya® wood	13.1 W	1465 lm	DALI	Ø 190	1000	70 895
Wide flat beam					A	B	Anch. unit
85 350		9.2 W	855 lm	DALI	Ø 190	1000	70 895
85 297	with Accoya® wood	9.2 W	820 lm	DALI	Ø 190	1000	70 895





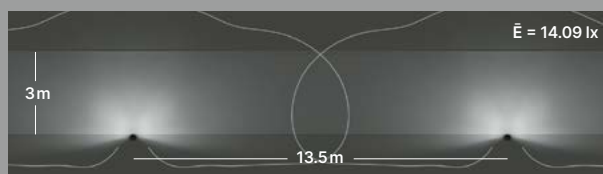
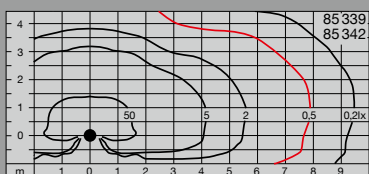
Asymmetrical light distribution

Illumination depth	5m
Light point distance	5.5m
Average degree of illuminance	$\bar{E} = 46 \text{ lx}$
Minimum illuminance	$E_{\min} = 1 \text{ lx}$
Uniformity	$U_1 = 0.022$



Flat beam light distribution

Footpath width	3m
Light point distance	10m
Average degree of illuminance	$\bar{E} = 38.72 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.08 \text{ lx}$
Uniformity	$U_1 = 0.028$



Wide flat beam light distribution

Footpath width	3m
Light point distance	13.5m
Average degree of illuminance	$\bar{E} = 14.09 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.02 \text{ lx}$
Uniformity	$U_1 = 0.072$

New luminaire

Calculated with a maintenance factor of 0.8



Bollards

Asymmetrical, flat beam or wide flat beam light distribution

Luminaires with asymmetrical light distribution are particularly suitable for illuminating wide paths or open areas. The light is directed downwards and effectively shielded above the horizontal. This creates a high degree of illuminance in the near field with reduced glare potential – offering exceptional visual comfort even on surfaces oriented transversely to the luminaire.

Where, on the other hand, linear light distribution has priority, bollard luminaires with a narrow, ellipsoidal light cone can be used. Their flat beam light distribution enables precise and efficient illumination along paths.

If uniform light distribution over longer distances is required, luminaires with wide, flat beam light distribution offer the ideal solution. They produce a wider ellipsoidal light cone that ensures uniform illumination even when the luminaires are spaced further apart – ideal for long paths or areas such as squares.

This luminaire series represents dark-sky-compliant outdoor lighting: effective shielding above the horizontal reduces stray light, enhances visual comfort and supports a responsible approach to lighting.

Protection class
IP 65

Material
Aluminium, cast aluminium,
safety glass or
BEGA NeoGlass® synthetic cover

BEGA Constant Optics®

BEGA Ultimate Driver®

BEGA Thermal Management®

Controllable
DALI

Light source
BEGA LED module

LED colour temperature
3000 K · 4000 K

Luminaire colour
BEGA Unidure®



Graphite

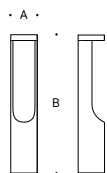
Reflection surface
BEGA Unidure®



Graphite



Bronze



Asymmetrical

					A	B	Anch. unit
85 337	Reflection surface graphite	13.1 W	1570 lm	DALI	Ø 190	1000	70 895
85 340	Reflection surface bronze	13.1 W	1565 lm	DALI	Ø 190	1000	70 895

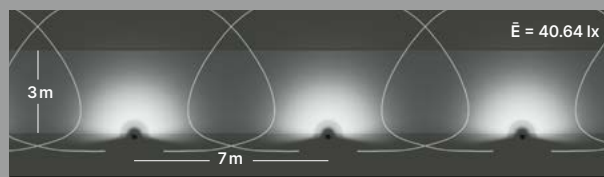
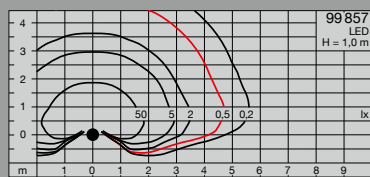
Flat beam

					A	B	Anch. unit
85 338	Reflection surface graphite	13.1 W	1340 lm	DALI	Ø 190	1000	70 895
85 341	Reflection surface bronze	13.1 W	1350 lm	DALI	Ø 190	1000	70 895

Wide flat beam

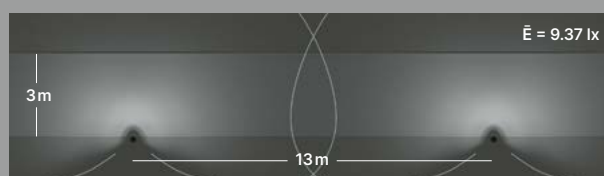
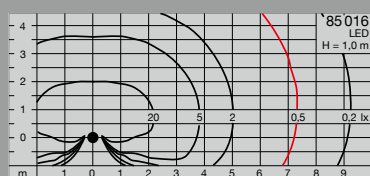
					A	B	Anch. unit
85 339	Reflection surface graphite	9.2 W	825 lm	DALI	Ø 190	1000	70 895
85 342	Reflection surface bronze	9.2 W	830 lm	DALI	Ø 190	1000	70 895





Asymmetrical light distribution

Footpath width	3m
Light point distance	7m
Average degree of illuminance	$\bar{E} = 40.64 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.2 \text{ lx}$
Uniformity	$U_1 = 0.03$



Asymmetrical flat beam light distribution

Footpath width	3m
Light point distance	13m
Average degree of illuminance	$\bar{E} = 9.37 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.06 \text{ lx}$
Uniformity	$U_1 = 0.113$

New luminaire

Calculated with a maintenance factor of 0.8

BEGA system bollards

Shielded with reflector · Light emission 180°

BEGA system bollards with a circular diameter are part of a modular system in which luminaire heads and bollard tubes of various heights and in a variety of models can be combined. Alongside versions with additional functions, variants without supplementary components are also available: for example, a combination of cast aluminium and Accoya® wood. You can find additional combinations in the table below or at bega.com/systembollards.

The luminaire head and bollard tube are ordered separately and can be easily and quickly connected during installation.

These luminaires emit their shielded light onto the ground 180° around the mounting point. Depending on specific requirements, luminaires with symmetrical or asymmetrical flat beam light distribution are available. Precise light deflection allows for glare-free illumination of footpaths, open spaces and driveways. The asymmetrical luminaires of this version are dark-sky-compliant.

bega.com/systembollards



Protection class
IP 65

Material
Aluminium, cast aluminium, safety glass, Accoya® wood

BEGA Constant Optics®

BEGA Ultimate Driver®

BEGA Thermal Management®

Controllable
on/off · DALI

Light source
BEGA LED module

LED colour temperature
3000 K · 4000 K

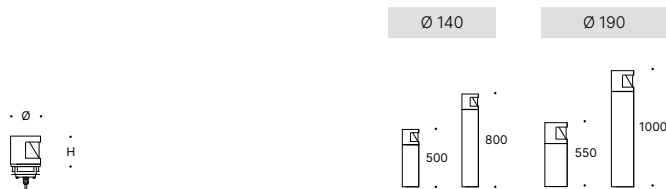
Luminaire colour
BEGA Unidure®



Graphite
Order number



Silver
Article number + A



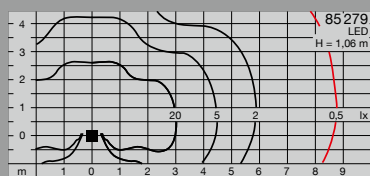
System bollard heads · Asymmetrical				Ø	H
99 853	7.0 W	320 lm	on/off	140	140
99 857	19.5 W	960 lm	DALI	190	185

System bollard heads · Asymmetrical flat beam				Ø	H
85 015	6.0 W	420 lm	on/off	140	140
85 016	7.8 W	650 lm	DALI	190	185

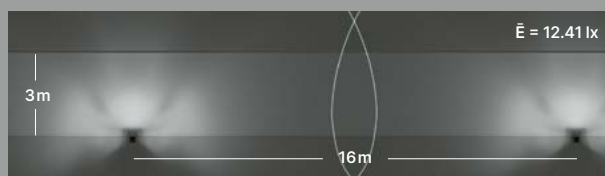
Bollard tubes without components				H	Anch. unit
Ø 140	99 614	Without components		350	70 894
	99 620	Without components		655	70 894
	85 547	with reflective coating		350	70 894
	85 548	with reflective coating		655	70 894
	84 476	In Accoya® wood		655	70 894
Ø 190	99 615	Without components		365	70 895
	99 622	Without components		815	70 896
	85 549	With reflective coating		365	70 895
	85 550	With reflective coating		815	70 896
	84 464	In Accoya® wood		815	70 896

Bollard tubes with components				H	Anch. unit
Ø 140	84 759	With PIR motion and light sensor · on/off		655	70 894
	84 915	With safety socket 250 V type F		655	70 894
Ø 190	84 634	With single emergency lighting battery		815	70 896
	84 760	With PIR motion and light sensor · on/off		815	70 896
	84 170	With PIR motion and light sensor · DALI		815	70 896
	84 916	With safety socket 250 V type F		815	70 896
	84 833	With LED floodlight 23 W · 2585 lm · β = 18°		815	70 896
	84 998	Water connection G ½		815	70 896
	99 626	With 2 safety sockets 250 V type F		815	70 896





New luminaire



Calculated with a maintenance factor of 0.8

Wide flat beam light distribution

Footpath width	3 m
Light point distance	16 m
Average degree of illuminance	$\bar{E} = 12.41 \text{ lx}$
Minimum illuminance	$E_{\min} = 1.02 \text{ lx}$
Uniformity	$U_1 = 0.082$

System bollards

Shielded with reflector · Light emission 180°

Our BEGA system bollards with a square cross section are designed specifically as technical and functional lighting solutions for the efficient illumination of footpaths, traffic areas and access zones. The modular system allows luminaire heads and bollard tubes to be combined in various configurations. In addition to aluminium versions, variants without supplementary components are available: for example, as a combination of cast aluminium and Accoya® wood. You can find additional combinations in the table below or at bega.com/systembollards. The luminaire head and bollard tube are ordered separately and can be easily and quickly connected during installation.

The luminaire heads are available only with a flat wide beam light distribution. The shielded light is directed downward onto the ground across 180° around the mounting point. A flat beam light distribution also ensures uniform illumination over greater distances, even with increased luminaire spacing.

bega.com/systembollards



Protection class
IP 65

Material
Aluminium, cast aluminium,
safety glass, Accoya® wood

BEGA Constant Optics®

BEGA Ultimate Driver®

BEGA Thermal Management®

Controllable
DALI

Light source
BEGA LED module

LED colour temperature
3000 K · 4000 K

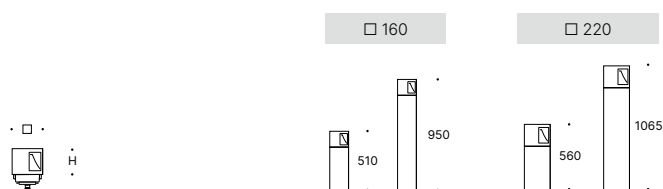
Luminaire colour
BEGA Unidure®



Graphite
Order number



Silver
Article number + A



System bollard heads · Wide flat beam

				□	H
85 277	8.0 W	700 lm	DALI	160	135
85 279	14.2 W	1125 lm	DALI	220	185

Bollard tubes without components

			H	Anch. unit
□160	84 000		375	70 895
	84 002		815	70 895
	85 553	With reflective coating	375	70 895
	85 554	With reflective coating	815	70 895
	84 466	In Accoya® wood	815	70 895
□220	84 001		375	70 896
	84 003		880	70 896
	85 555	With reflective coating	375	70 896
	85 556	With reflective coating	880	70 896
	84 467	In Accoya® wood	880	70 896

Bollard tubes with components

			H	Anch. unit
□160	84 006	With single emergency lighting battery	815	70 895
	84 762	With PIR motion and light sensor · on/off	815	70 895
	84 150	With PIR motion and light sensor · DALI	815	70 895
	84 917	With safety socket 250 V type F	815	70 895
□220	84 008	With single emergency lighting battery	880	70 896
	84 763	With PIR motion and light sensor · on/off	880	70 896
	84 152	With PIR motion and light sensor · DALI	880	70 896
	84 834	With LED floodlight 23 W · 2585 lm · β = 18°	880	70 896
	85 078	Water connection G½	880	70 896
	84 004	With 2 safety sockets 250 V type F	875	70 896
	84 016	As drive-through protection up to 1.5 t · 50 km/h	875	included



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