



Product Families

Chameleon

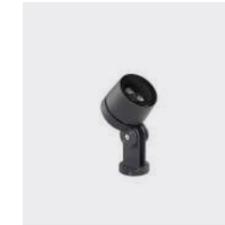
p. 16-91



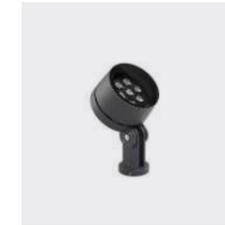
C90



C125



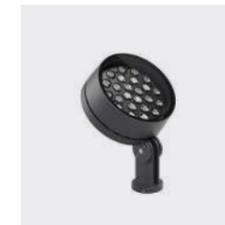
C165



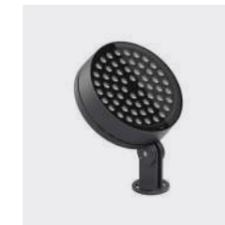
C210



C260



C365



C210 GOBO



F-System

p. 92-117



F-System M



F-System S



F-System XS



F-System M-W



FO

p. 118-131



FO420



FO600



FA

p. 132-153



FA770



FA170



FA100-W



# Products Families

## GO

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GO



GO-W

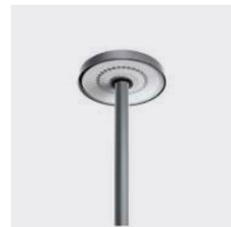


## ECLIPSE

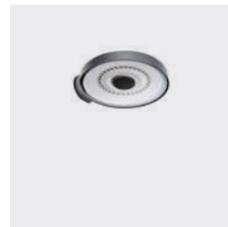
p. 168-171



ECLIPSE



ECLIPSE-W

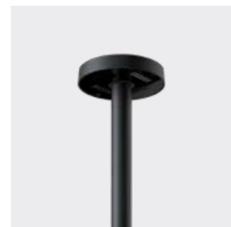


## CN

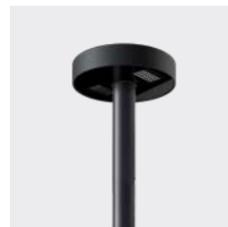
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CN480



CN600



## IR

p. 182-201



IR



IR-W



## CO

p. 202-213



CO480



CO600



## DA

p. 214-225



DA400



DA520



## FN

p. 226-237



FN1000



FN1300



## if, if round

p. 238-261



if



if-W



if round



if round-WD/WU/WB



## EL

p. 262-289



EL380



EL2000



EL-W



## ZA

p. 290-293



ZA190



# Products Families

## IN

p. 294-305



IN-WALL



IN-CEILING



IN-GROUND



## RAZER

p. 306-317



RAZER



## ID

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IDstandard

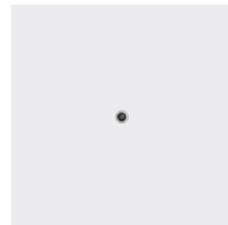


## R-Series

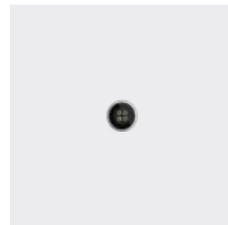
p. 324-339



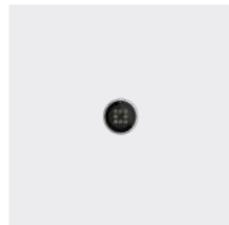
R50



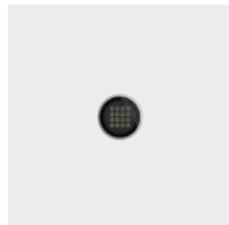
R90



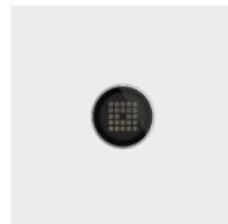
R130



R160



R200



## UP-Series

p. 340-353

LB21



LB22



LB23



BD21



BD22



BD23



BR21



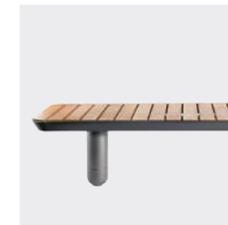
WR21



WR22

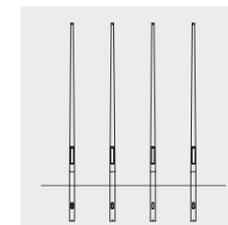


SB21



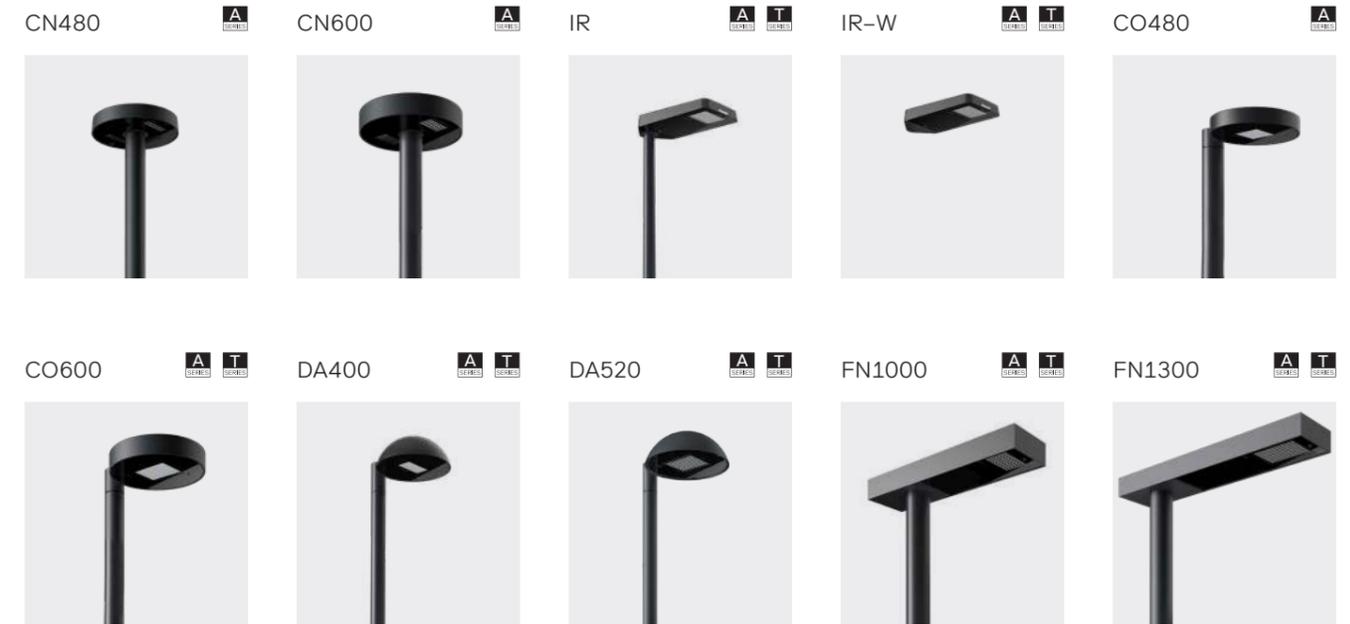
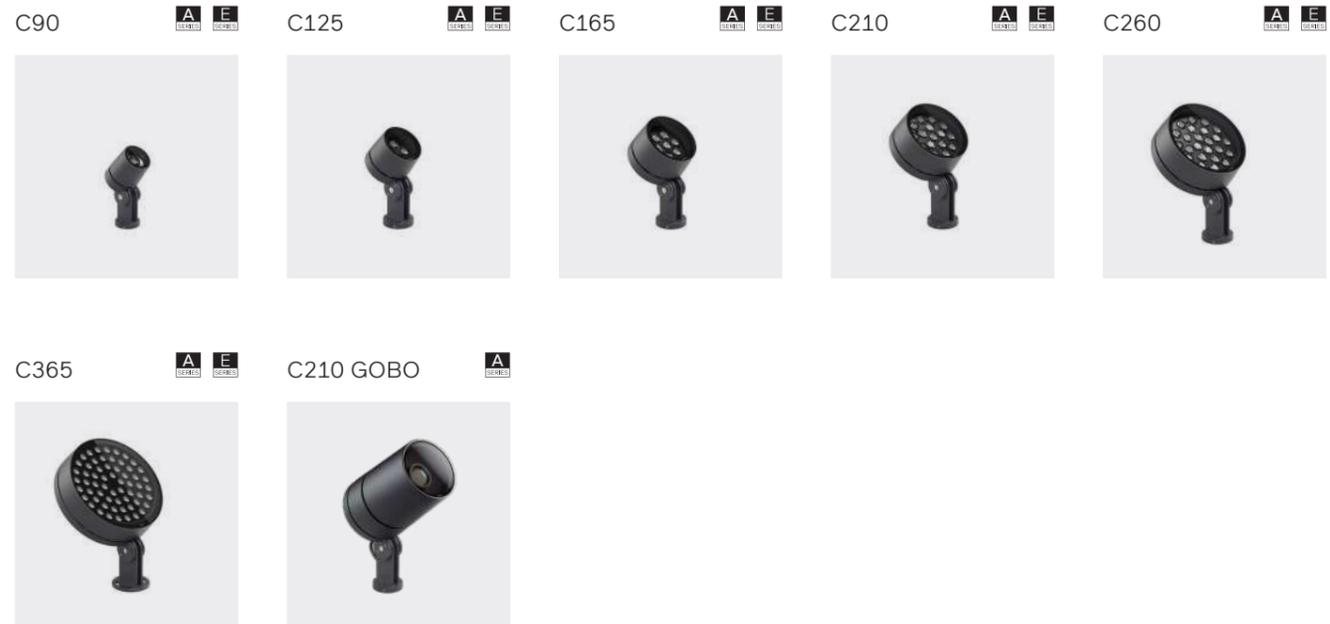
## Poles

p. 354-357



# Products Categories

## Projectors



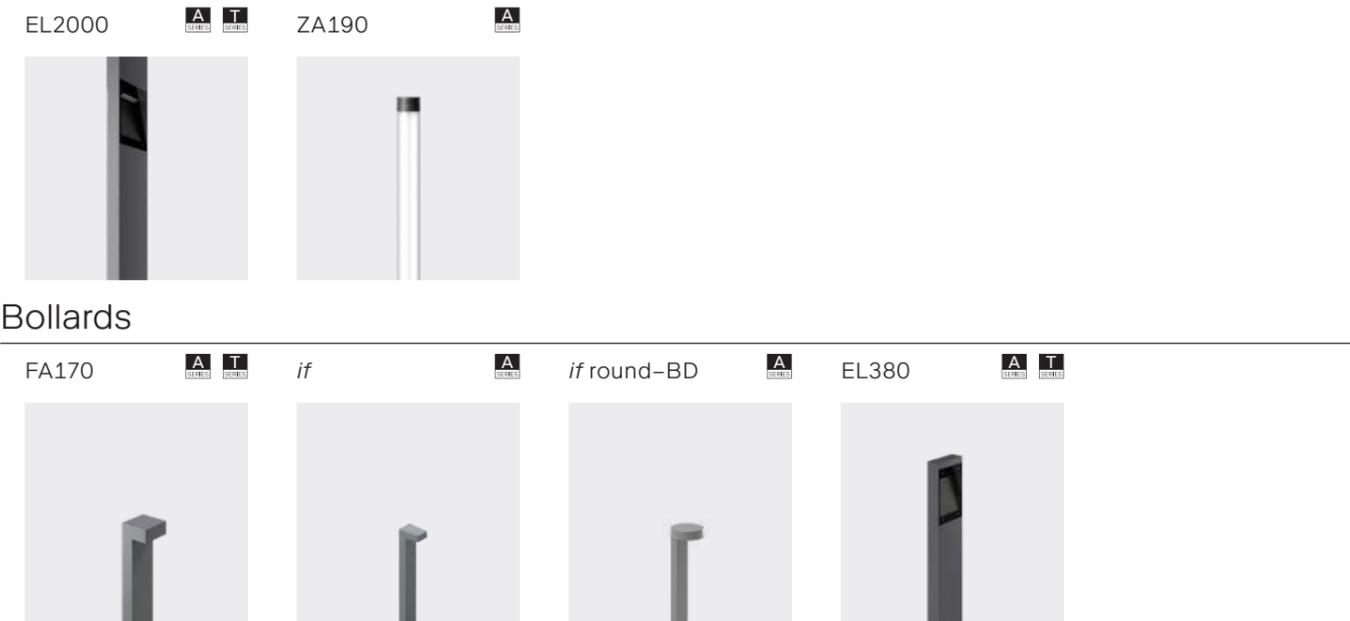
## Wall/ceiling luminaires



## Pole-/wall-mounted systems

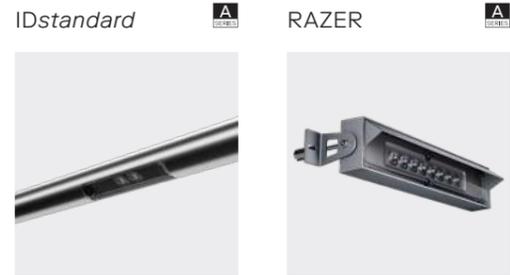


## Light columns



# Products Categories

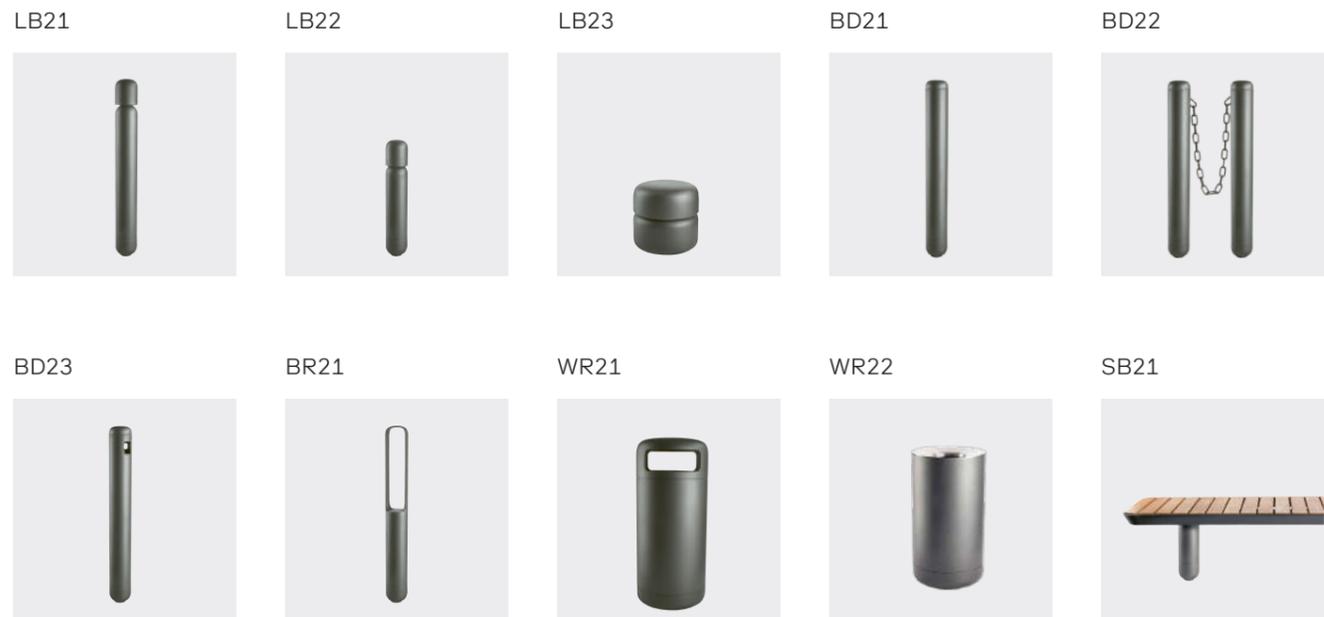
## Linear systems



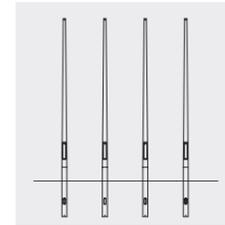
## In-ground luminaires



## Urban furniture



## Pole



# LARGE AREA LIGHTING

# Products Families

## R-System

p. 358-377



gen4 R2



gen4 R4



gen4 R1 round



gen4 R1



gen4 R2



gen4 R4



## RIVAL

p. 378-383



RIVAL







## Chameleon

A master of transformation.  
A projector.  
A wall luminaire.  
A pole luminaire.  
Dynamic.  
Intelligent.



reddot winner 2023



**BIG SEE**  
Product Design  
Award 2023  
Winner



C165 – Integral, EG06 Symmetric Ultra Narrow 4°, 2,700 K  
Concentric Louvre ewoLightLayer, Reverse Cone



C165 – Slice, EG06 Symmetric Narrow 12°, Tunable White,  
Shadow Sail

C210 – Slice, A-Series Asymmetric Forward and Extra Side Throw,  
2,700 K, Shadow Sail



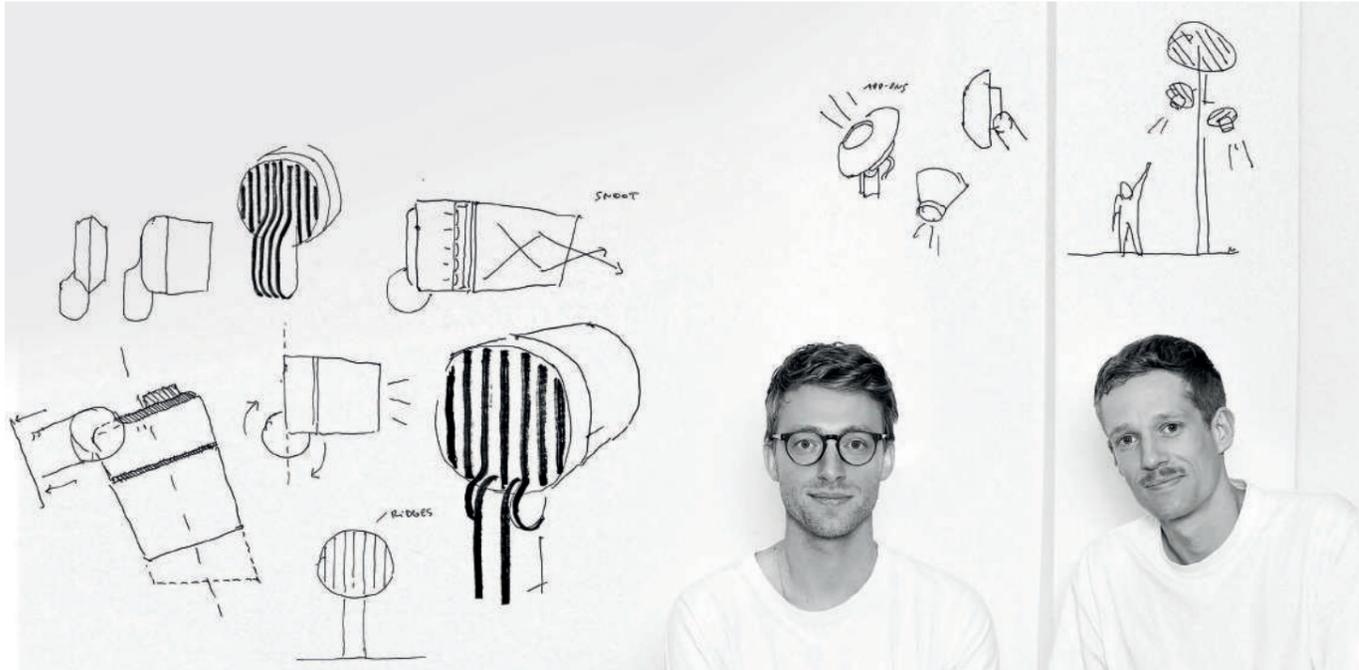
< C125 – Slice  
A-Series Asymmetric Forward and  
Extra Side Throw, 2,700 K, Half Cone

C260 – Slice  
EG06 Symmetric Extra Narrow 6°, 2,700 K,  
Full Snoot



C165 – Slice  
EGM01 Symmetric Narrow 12°, RGBW





©Mirjam Kluka

PRODUCTDESIGN  
by GECKELER MICHELS, Berlin



**Function**  
Thermally optimised heatsink and cooling ring creating a chimney effect to keep electronic components cool.

**Modularity**  
Discrete fixing mechanism for external ewoLightLayers and transformative accessories.

**Form**  
Elegant luminaire design with clean lines, soft curves and concealed screws.





A diverse habitat  
Chameleon is a common creature  
across all areas of the urban jungle.



A dual function

Chameleon is designed to be active from sunset to sunset. During the day, its optional accessories such as a shadow sail offer new types of functionalities.





©Alexander Fthenakis



©Alexander Fthenakis



mastering

the body

of light





Through its transformation,  
Chameleon can transform spaces

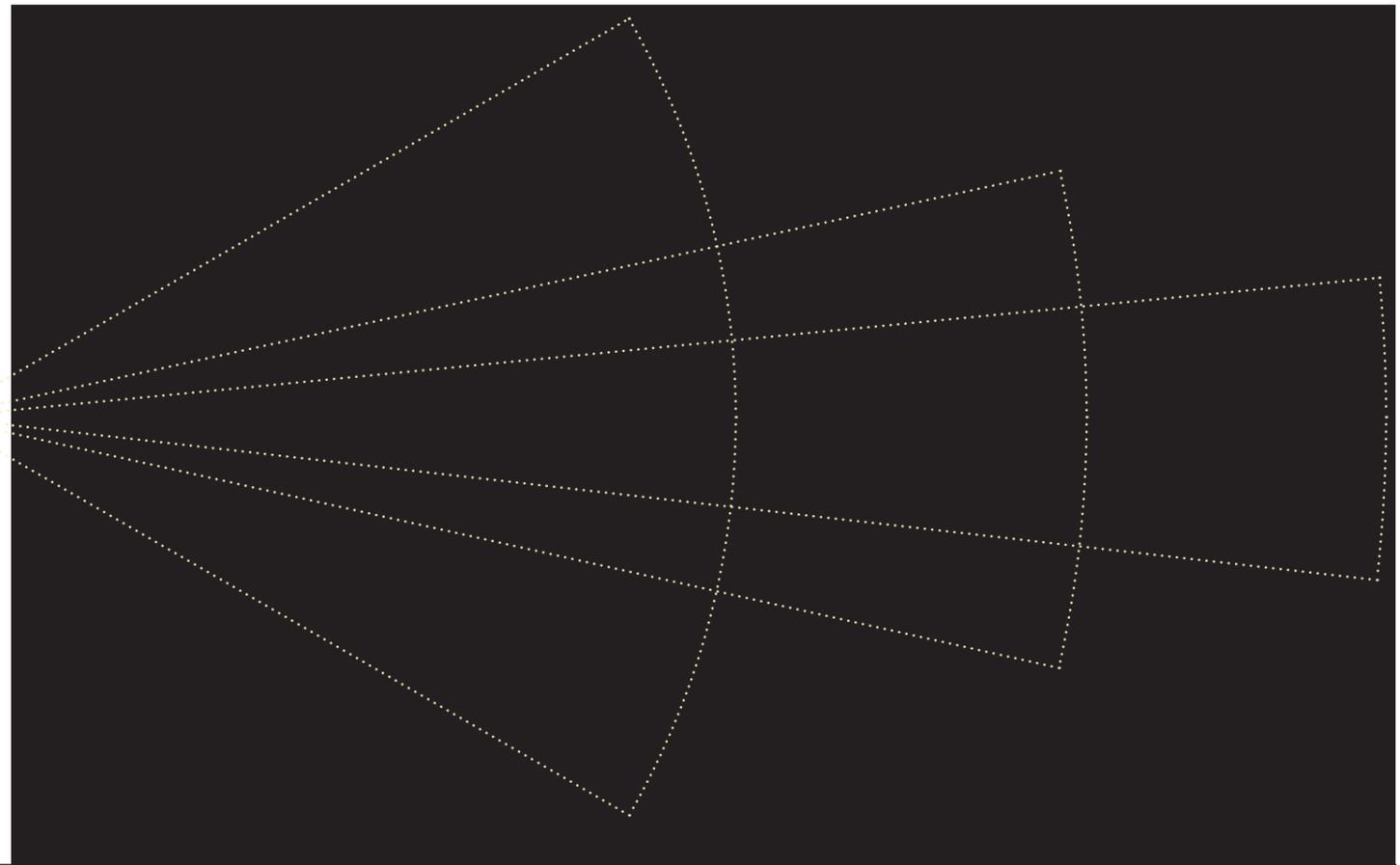
With its unrivalled modularity, Chameleon uses a vast catalogue of mounting options, ewoLightLayers, optics and finishes to adapt seamlessly to a plethora of applications including Architecture and the Arts, Public Spaces, and Roads and Traffic.





Standard distributions

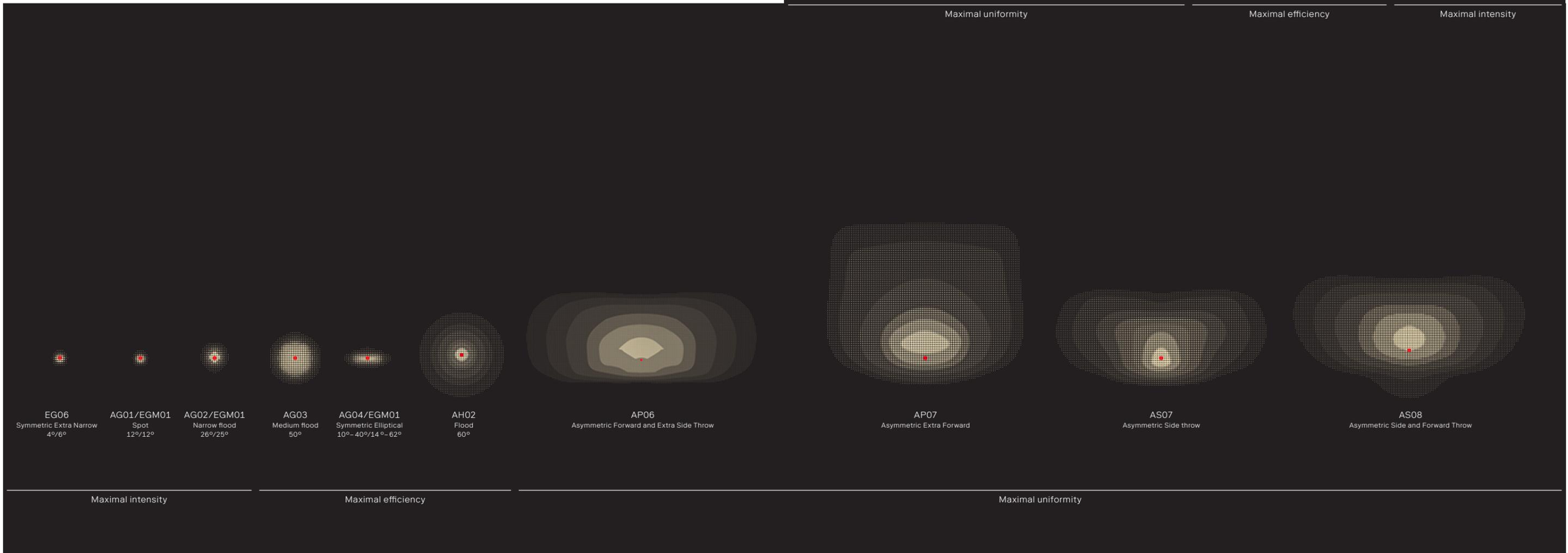
ewo's high precision lens optics have the power to transform public spaces into urban sanctuaries, improving people's wellbeing outdoors.



Maximal uniformity

Maximal efficiency

Maximal intensity



Maximal intensity

Maximal efficiency

Maximal uniformity



### Colour mixing RGBW

To create the best possible colour experience in a luminaire as compact as Chameleon, ewo has developed a new two-level light guiding lens that will mix colours in each individual lens. Now the desired light effect can even be achieved over short distances whilst maintaining perfect colour uniformity.



### Dynamic white and colour

Chameleon is the most compact, intelligent projector offering dynamic lighting with in-optic colour mixing and beam angles as narrow as 12°.



# Chameleon

# A-Series



C90

Slice (driver remote)



Monochrome

Max. LED Power [W]	12.0
Max. Luminous flux [lm]	1,320

C125



Max. LED Power [W]	18.0
Max. Luminous flux [lm]	2,200

C165



Max. LED Power [W]	32.4
Max. Luminous flux [lm]	4,080

C210



Max. LED Power [W]	64.8
Max. Luminous flux [lm]	8,160

C260



Max. LED Power [W]	108
Max. Luminous flux [lm]	13,270

C365



Max. LED Power [W]	384.0
Max. Luminous flux [lm]	43,100

C90

Integral (driver integrated)



Monochrome

Max. System Power [W]	10.0
Max. Luminous flux [lm]	1,005

C125



Max. System Power [W]	21.1
Max. Luminous flux [lm]	2,200

C165



Max. System Power [W]	31.1
Max. Luminous flux [lm]	3,730

C210



Max. System Power [W]	56.9
Max. Luminous flux [lm]	7,100

C260



Max. System Power [W]	80.5
Max. Luminous flux [lm]	10,100

# Chameleon

# E-Series



C90

Slice (driver remote)



Monochrome

Max. LED Power [W]	3.0
Max. Luminous flux [lm]	360

C125



Max. LED Power [W]	9.0
Max. Luminous flux [lm]	1,090

C165



Max. LED Power [W]	21.0
Max. Luminous flux [lm]	2,550

C210



Max. LED Power [W]	48.0
Max. Luminous flux [lm]	5,830

C260



Max. LED Power [W]	72.0
Max. Luminous flux [lm]	8,750

C365



Max. LED Power [W]	194.4
Max. Luminous flux [lm]	22,670

C90

Integral (driver integrated)



Monochrome

Max. System Power [W]	4.4
Max. Luminous flux [lm]	360

C125



Max. System Power [W]	11.3
Max. Luminous flux [lm]	1,090

C165



Max. System Power [W]	22.9
Max. Luminous flux [lm]	2,640

C210



Max. System Power [W]	51.7
Max. Luminous flux [lm]	5,830

C260



Max. System Power [W]	69.8
Max. Luminous flux [lm]	8,060

Light distributions Monochrome

Monochrome CRI ≥ 80

2,200 K 2,700 K 3,000 K 4,000 K

Symmetric E A SERIES

Asymmetric A SERIES

Ultra Narrow EG06

Narrow AG01

Flood AG03

Wide Flood AH02

Extra Narrow EG06

Medium AG02

Elliptical AG04

Extra Side and Forward Throw AP06

Side and Forward Throw AS08

Forward Grazing and Side Throw AV01

Extra Forward Throw AP07

Extra Side Throw AS09

Notes For further light distributions, spread foils are available on request.

Beam ranges: Ultra Narrow ≤5°  
 Extra Narrow 6°-9°  
 Narrow 10°-15°  
 Medium 16°-35°  
 Flood 36°-55°  
 Wide Flood ≥55°  
 Elliptical -

Light distributions RGBW/Tunable White

RGBW CRI ≥ 80 RGB + 2,200 K RGB + 4,000 K Tunable White CRI ≥ 80 2,200 K - 4,000 K 3,000 K - 5,000 K

Internal color mixing E SERIES

Discrete color mixing A SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m) (C90, C125, C165, C210, C260)

EGX: maximum quality – ideal for close-range applications (< 1 m) (C125, C165, C210, C260)

Symmetric (C365)

Asymmetric (C165, C210, C260, C365)

Narrow EGM01

EGM01 + Spread foils

Narrow EGX01

EGX01 + Spread foils

Medium AG02

Medium EGX02

Extra Side and Forward Throw AP06

Extra Forward Throw AP07

Side and Forward Throw AS08

Forward Grazing and Side Throw AV01 (C165, C210, C260)

Flood AG03

Elliptical AG04

Wide Flood AH02

# Chameleon

C90 Slice

Projector  
Wall luminaire  
Pole-mounted system



DB 703  
Anthracite

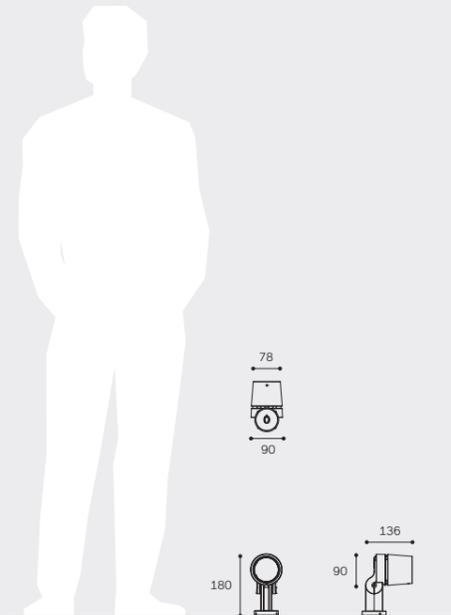
ewo  
colors



A-Series



E-Series



Configurator

IP66 RoHS IK08

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C90	0.013*	0.015*	1.2*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

## Electrical

	Monochrome		Tunable White				RGBW			
	A-Series	E-Series	Discrete		Internal		Discrete		Internal	
			A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series
Protection class			I/II	I/II	I/II	I/II	I/II	I/II	I/II	I/II
Voltage [V], [Hz]										
LED nr.	4	1	-	-	-	4	-	-	-	4
Current max. [mA]	1,000	1,000*	-	-	-	500	-	-	-	450
LED power [W]	12.0	3.0	-	-	-	3.0	-	-	-	5.4

\* 700 for EG06 - 4°

## Performance

	Monochrome		Tunable White		RGBW
	AG01	EG06 6°	EGM01 12°		EGM01 12°
Light colors (K)	4,000		5,000		4,000
CRI*	≥ 80		≥ 80		≥ 80
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM
Luminous flux [lm]	1,320	360	200		210

\* other values on request

## Light distributions

### Monochrome

Symmetric

E SERIES A SERIES

Ultra Narrow 4°  
EG06

Extra Narrow 6°  
EG06

Narrow 13°  
AG01

Medium 30°  
AG02

Flood 52°  
AG03

Wide Flood 67°  
AH02

Elliptical 43°x14°  
AG04

Asymmetric

A SERIES

Extra Side and Forward Throw  
AP06

Extra Forward Throw  
AP07

Forward Grazing and Side Throw  
AV01

Side and Forward Throw  
AS08

Extra Side Throw  
AS09

RGBW  
CRI ≥ 80

RGB + 2,200 K  
RGB + 4,000 K

Tunable White  
CRI ≥ 80  
2,200 K – 4,000 K  
3,000 K – 5,000 K

### RGBW & TW

Internal color mixing

E SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m)

Narrow 12°  
EGM01

EGM01 + Spread foil = 25°  
EGM01 + Spread foil = 62°x14°

### Driver (external)

Monochrome

RGBW

Tunable White

Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connex light management software for remote management of intelligent luminaire clusters		

# Chameleon

## C90 Integral

Projector  
Wall luminaire  
Pole-mounted system



DB 703  
Anthracite

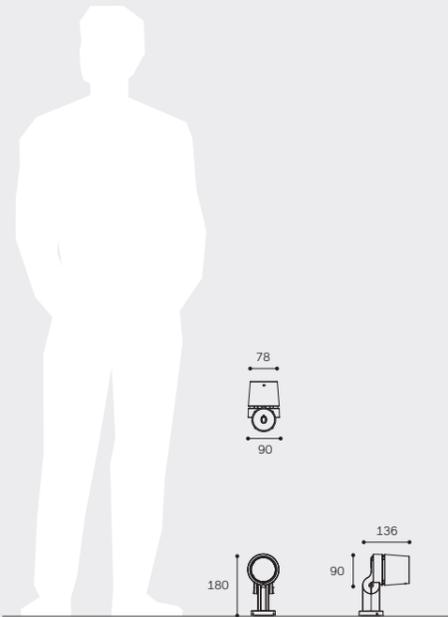
ewo  
colors



A-Series



E-Series



### Configurator

CE IP66 RoHS IK08

### Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

### Measurements

Model	⊕ <sup>1</sup> ⊕ <sup>2</sup>	Weight [kg]
C90	0.013* 0.015*	1.2*
	⊕ projected windage area [m <sup>2</sup> ]	* without accessories
	⊕ lateral windage area [m <sup>2</sup> ]	

### Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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### Electrical

	Monochrome		Tunable White	RGBW
	A-Series	E-Series	Internal E-Series	Internal E-Series
Protection class				
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60		
LED nr.	4	1	-	-
Current max. [mA]	700	700	-	-
Power [W]	10.5	4.4	-	-
Surge protection	For ON/OFF / DALI / LS 1KV (SKI) 0.5 KV (SKII)	For ON / OFF / LS 1KV (SKI/ SKII)	It is recommended to install increased surge protection!	

### Performance

	Monochrome		Tunable White	RGBW
	AG01	EG06 6°		
Light colors (K)	4,000		5,000	4,000
CRI*	≥ 80		≥ 80	≥ 80
Distribution	AG01	EG06 6°	-	-
MacAdam ellipses	≤ 3 SDCM		-	-
Luminous flux [lm]	1,005	360	-	-

\* other values on request

## Light distributions

### Monochrome



#### Symmetric



Ultra Narrow 4° EG06	Extra Narrow 6° EG06	Narrow 13° AG01
Medium 30° AG02	Flood 52° AG03	Wide Flood 67° AH02
Elliptical 43°x14° AG04		

#### Asymmetric

Extra Side and Forward Throw AP06	Extra Forward Throw AP07	Forward Grazing and Side Throw AV01
Side and Forward Throw AS08	Extra Side Throw AS09	

### Driver (integrated) Monochrome

RGBW

Tunable White

Control Options	ON OFF DALI LS
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connex light management software for remote management of intelligent luminaire clusters

# Chameleon

## C125 Slice

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

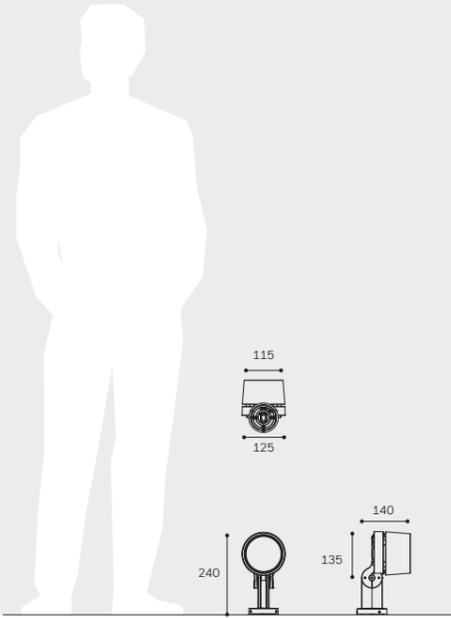
ewo  
colors



A-Series



E-Series



### Configurator

CE RoHS IK08

### Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface

\* other colors on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

### Measurements

Model	⊕	⊖	Weight [kg]
C125	0.015*	0.025*	2.3*

⊕ projected windage area [m²]      \* without accessories  
⊖ lateral windage area [m²]

### Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

### Electrical

	Monochrome		Tunable White				RGBW			
	A-Series	E-Series	Discrete		Internal		Discrete		Internal	
			A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series
Protection class	I/II	I/II	I/II	I/II	I/II	I/II	I/II	I/II	I/II	I/II
Voltage [V], [Hz]	6	3	-	-	-	-	-	-	-	-
LED nr.	1,000	1,000*	-	-	-	12	-	-	-	12
Current max. [mA]	18.0	9.0	-	-	-	500	-	-	-	550
LED power [W]	18.0	9.0	-	-	-	10.8	-	-	-	19.5

\* 700 for EG06 - 4°

### Performance

	Monochrome		Tunable White		RGBW
Light colors (K)	4,000		5,000		4,000
CRI*	≥ 80		≥ 80		≥ 80
Distribution	AG01	EG06 6°	EGX01 15°		EGX01 15°
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM
Luminous flux [lm]	2,200	1,090	1,000		1,200

\* other values on request

## Light distributions

### Monochrome

#### Symmetric

Ultra Narrow 4° EG06	Extra Narrow 6° EG06	Narrow 13° AG01
Medium 27° AG02	Flood 47° AG03	Wide Flood 77° AH02
Elliptical 42°x9° AG04		

2,200 K 2,700 K 3,000 K 4,000 K

#### Asymmetric

Extra Side and Forward Throw AP06	Extra Forward Throw AP07	Forward Grazing and Side Throw AV01
Side and Forward Throw AS08	Extra Side Throw AS09	

### RGBW & TW

RGBW CRI ≥ 80      RGB + 2,200 K RGB + 4,000 K      Tunable White CRI ≥ 80 2,200 K – 4,000 K 3,000 K – 5,000 K

#### Internal color mixing

EGM: maximum quality – ideal for close-range applications (< 1 m)

Narrow 12° EGM01	EGM01 + Spread foil = 25° EGM01 + Spread foil = 62°x14°
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EGX: maximum performance – ideal for more spaced applications (> 1 m)

Narrow 15° EGX01	Medium 25° EGX02	EGX01 + Spread foil = 50° EGX01 + Spread foil = 60° EGX01 + Spread foil = 80° EGX01 + Spread foil = 34°x16° EGX01 + Spread foil = 62°x17°
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### Driver (external)

	Monochrome	RGBW	Tunable White
Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters		

# Chameleon

## C125 Integral

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

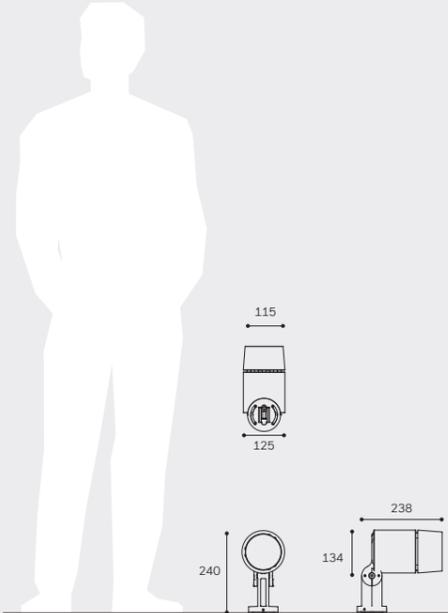
ewo  
colors



A-Series



E-Series



### Configurator

CE IP66 RoHS IK08

### Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

### Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C125	0.024*	0.033*	2.8*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

### Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

### Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series								
Protection class	I/II	I/II								
Voltage [V], [Hz]	220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60	
LED nr.	6	3	-	-	-	12	-	-	-	12
Current max. [mA]	1,000	1,000*	-	-	-	500	-	-	-	400
Power max. [W]	21.1	11.3	-	-	-	10.8	-	-	-	17.8

\* 700 for EG06 - 4°

### Performance

	Monochrome		Tunable White		RGBW
Light colors (K)	4,000		5,000		4,000
CRI*	≥ 80		≥ 80		≥ 80
Distribution	AG01	EG06 6°	EGX01 15°		EGX01 15°
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM
Luminous flux [lm]	2,200	1,090	500		970

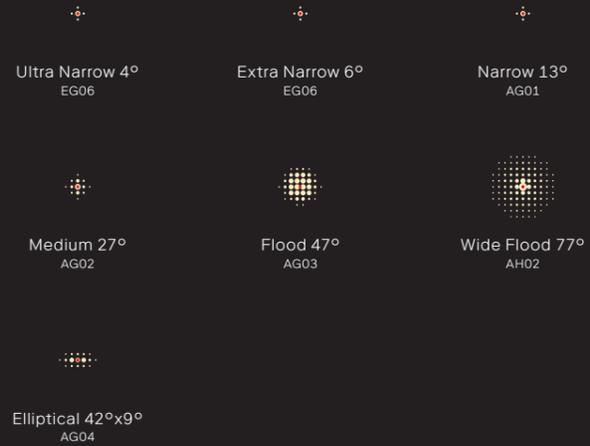
\* other values on request

## Light distributions

### Monochrome



#### Symmetric



#### Asymmetric



### RGBW & TW



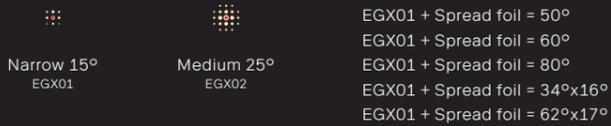
#### Internal color mixing



EGM: maximum quality – ideal for close-range applications (< 1 m)



EGX: maximum performance – ideal for more spaced applications (> 1 m)



### Driver (integrated) Monochrome

### RGBW

### Tunable White

Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters		

# Chameleon

C165 Slice

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

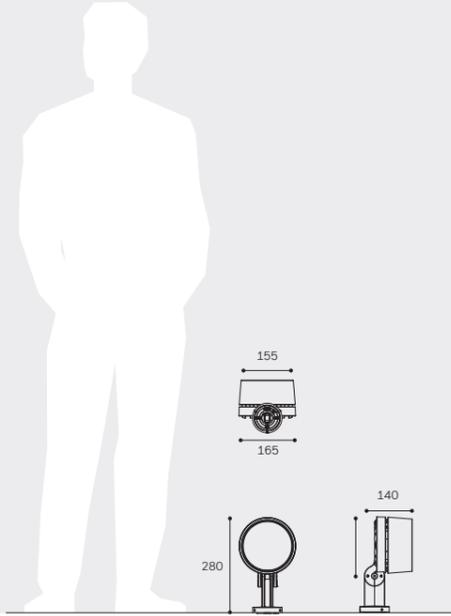
ewo  
colors



A-Series



E-Series



Configurator

CE RoHS IK08

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	$I_{p @}$	$I_{l @}$	Weight [kg]
C165	0.018*	0.027*	3.3*
	@ projected windage area [m <sup>2</sup> ]		* without accessories
	@ lateral windage area [m <sup>2</sup> ]		

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

## Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series
Protection class	I/II	I/II	I/II	I/II	I/II	I/II	I/II	I/II	I/II	I/II
Voltage [V], [Hz]										
LED nr.	12	7	12	-	-	28	12	-	-	28
Current max. [mA]	900	1,050*	830	-	-	500	900	-	-	400
LED power [W]	32.4	21.0	17.4	-	-	24.7	31.9	-	-	36.9

\* 700 for EG06 - 4°

## Performance

	Monochrome		Tunable White		RGBW	
	AG01	EG06 6°	AV01	EGX01 15°	AV01	EGX01 15°
Light colors (K)	4,000		5,000		4,000	
CRI*	≥ 80		≥ 80		≥ 80	
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
Luminous flux [lm]	4,080	2,640	1,500	2,300	1,140	2,460

\* other values on request

## Light distributions

### Monochrome

Symmetric

E SERIES A SERIES

Ultra Narrow 4°  
EG06

Extra Narrow 6°  
EG06

Narrow 13°  
AG01

Medium 27°  
AG02

Flood 47°  
AG03

Wide Flood 77°  
AH02

Elliptical 42°x9°  
AG04

2,200 K 2,700 K 3,000 K 4,000 K

Asymmetric

A SERIES

Extra Side and Forward Throw  
AP06

Extra Forward Throw  
AP07

Forward Grazing and Side Throw  
AV01

Side and Forward Throw  
AS08

Extra Side Throw  
AS09

### RGBW & TW

Internal color mixing

E SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m)

Narrow 12°  
EGM01

EGM01 + Spread foil = 25°  
EGM01 + Spread foil = 62°x14°

Discrete color mixing

A SERIES

Asymmetric

Extra Side and Forward Throw  
AP06

Extra Forward Throw  
AP07

Side and Forward Throw  
AS08

Forward Grazing and Side Throw  
AV01

EGX: maximum performance – ideal for more spaced applications (> 1 m)

Narrow 15°  
EGX01

Medium 25°  
EGX02

EGX01 + Spread foil = 50°  
EGX01 + Spread foil = 60°  
EGX01 + Spread foil = 80°  
EGX01 + Spread foil = 34°x16°  
EGX01 + Spread foil = 62°x17°

### Driver (external)

	Monochrome	RGBW	Tunable White
Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters		

# Chameleon

## C165 Integral

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

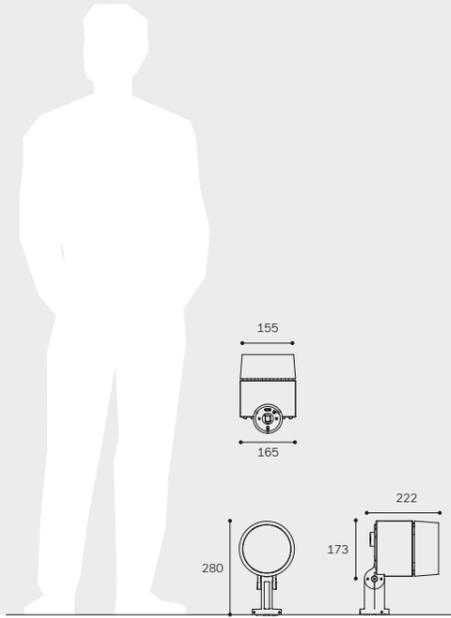
ewo  
colors



A-Series



E-Series



### Configurator

CE RoHS IK08

### Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

### Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C165	0.030*	0.039*	3.9*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

### Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

### Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series								
Protection class	I/II	I/II								
Voltage [V], [Hz]	220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60	
LED nr.	12	7	12	-	-	28	12	-	-	28
Current max. [mA]	800	1,050*	560	-	-	435	600	-	-	250
Power max. [W]	31.1	22.9	11.5	-	-	21.8	23.3	-	-	23.1

\* 700 for EG06 - 4°

### Performance

	Monochrome		Tunable White		RGBW	
	AG01	EG06 6°	AS08	EGX01 15°	AV01	EGX01 15°
Light colors (K)	4,000		5,000		4,000	
CRI*	≥ 80		≥ 80		≥ 80	
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
Luminous flux [lm]	3,730	2,640	1,100	2,100	885	1,580

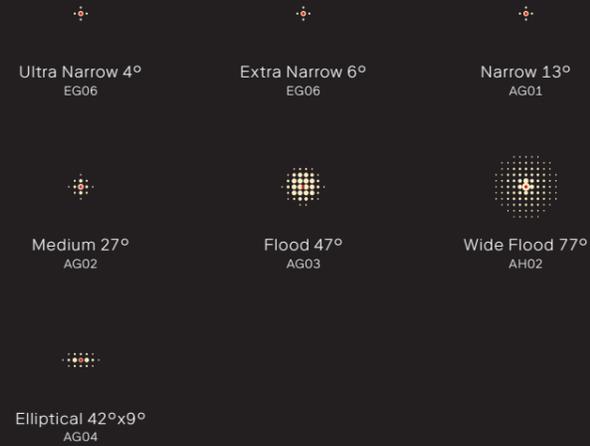
\* other values on request

## Light distributions

### Monochrome

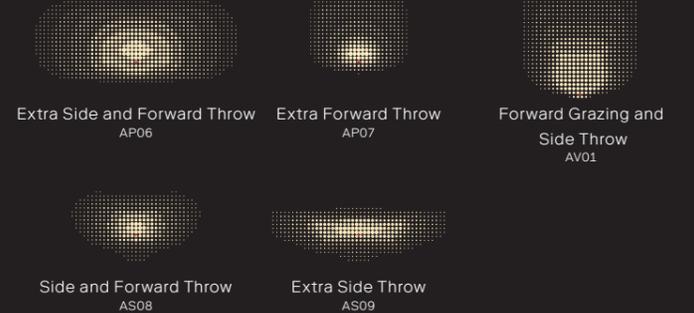
#### Symmetric

E SERIES A SERIES



#### Asymmetric

A SERIES



### RGBW & TW

#### Internal color mixing

E SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m)



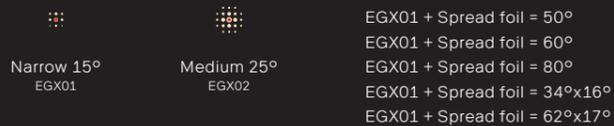
#### Discrete color mixing

A SERIES

#### Asymmetric



EGX: maximum performance – ideal for more spaced applications (> 1 m)



### Driver (integrated) Monochrome

RGBW

Tunable White

Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters		

# Chameleon

## C210 Slice

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

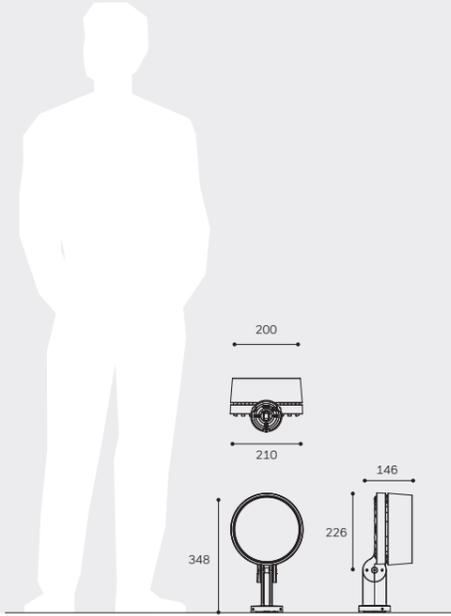
ewo  
colors



A-Series



E-Series



### Configurator

CE IP66 RoHS IK08

### Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

### Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C210	0.024*	0.04*	4.9*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

### Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

### Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series
Protection class	I/II	I/II	I	I	I	I	I	I	I	I
Voltage [V], [Hz]										
LED nr.	24	16	24	-	-	64	24	-	-	64
Current max. [mA]	900	1,000*	1,000	-	-	450	1,000	-	-	350
LED power [W]	64.8	48.0	43.5	-	-	51.0	71.2	-	-	65.2

\* 700 for EG06 - 4°

### Performance

	Monochrome		Tunable White		RGBW	
	AG01	EG06 6°	AV01	EGX01 15°	AV01	EGX01 15°
Light colors (K)	4,000		5,000		4,000	
CRI*	≥ 80		≥ 80		≥ 80	
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
Luminous flux [lm]	8,160	5,830	3,500	4,900	2,400	4,700

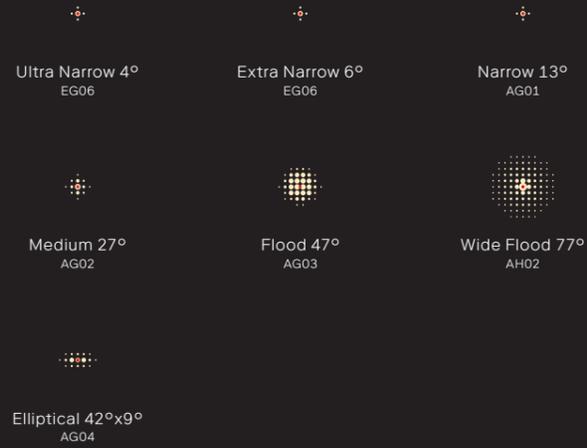
\* other values on request

## Light distributions

### Monochrome

#### Symmetric

E SERIES A SERIES



### RGBW & TW

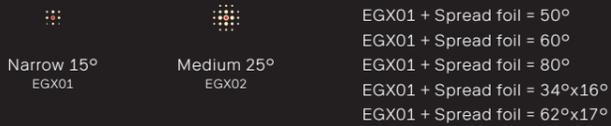
#### Internal color mixing

E SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m)



EGX: maximum performance – ideal for more spaced applications (> 1 m)



#### Asymmetric

A SERIES



#### Discrete color mixing

A SERIES

#### Asymmetric



### Driver (external)

	Monochrome	RGBW	Tunable White
Control Options	ON OFF DALI L/S	DALI DMX	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters		

# Chameleon

## C210 Integral

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

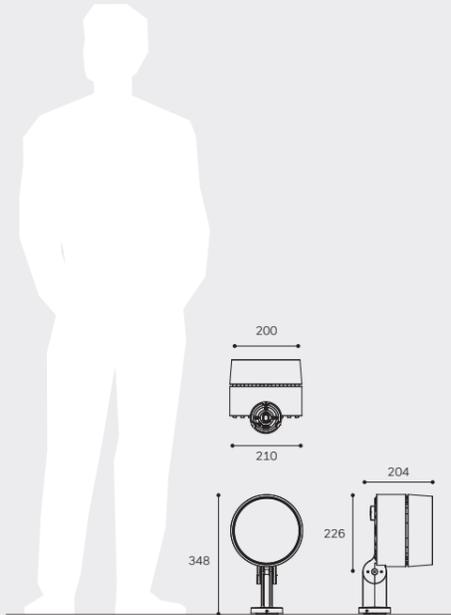
ewo  
colors



A-Series



E-Series



### Configurator

CE RoHS IK08

### Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

### Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C210	0.035*	0.046*	5.9*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

### Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

### Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series								
Protection class	I/II	I/II	I	I	I	I	I	I	I	I
Voltage [V], [Hz]	220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60	
LED nr.	24	16	24	-	-	64	24	-	-	64
Current max. [mA]	750	1,000*	1,000	-	-	400	850	-	-	250
Power max. [W]	56.9	51.7	43.5	-	-	45.3	51.4	-	-	53.4

\* 700 for EG06 - 4°

### Performance

	Monochrome		Tunable White		RGBW	
	AG01	EG06 6°	AV01	EGX01 15°	AV01	EGX01 15°
Light colors (K)	4,000		5,000		4,000	
CRI*	≥ 80		≥ 80		≥ 80	
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
Luminous flux [lm]	7,100	5,830	3,500	4,500	1,860	3,600

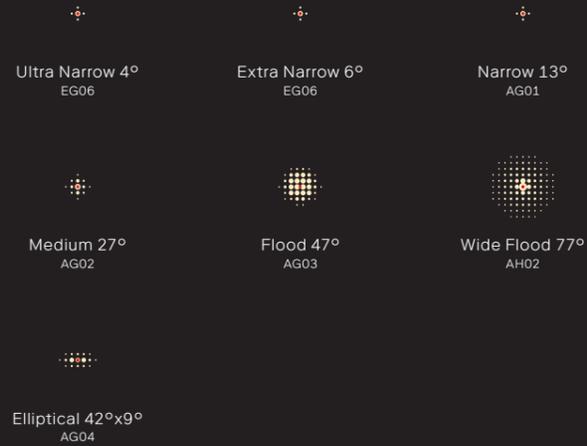
\* other values on request

## Light distributions

### Monochrome

#### Symmetric

E SERIES A SERIES



### RGBW & TW

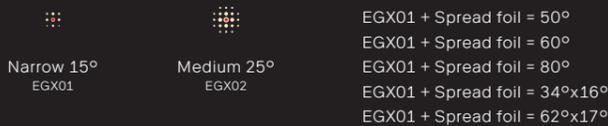
#### Internal color mixing

E SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m)

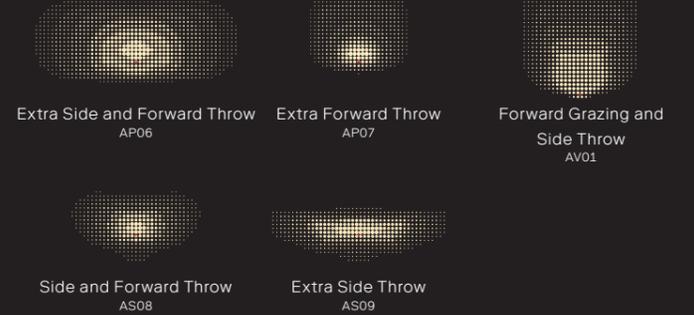


EGX: maximum performance – ideal for more spaced applications (> 1 m)



#### Asymmetric

A SERIES



#### Discrete color mixing

A SERIES

#### Asymmetric



### Driver (integrated) Monochrome

### RGBW

### Tunable White

Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters		

# Chameleon

C260 Slice

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

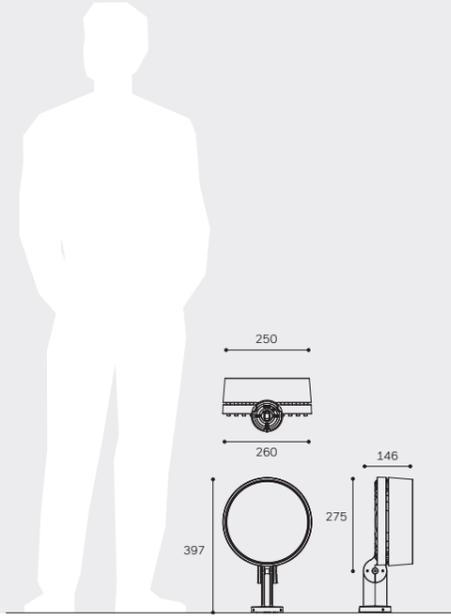
ewo  
colors



A-Series



E-Series



Configurator

CE RoHS IK08

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C260	0.026*	0.059*	6.7*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

## Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series
Protection class	I/II	I/II	I	I	I	I	I	I	I	I
Voltage [V], [Hz]										
LED nr.	36	24	36	-	-	96	36	-	-	96
Current max. [mA]	1,000	1,000*	1,000	-	-	350	900	-	-	300
LED power [W]	108.0	72.0	62.3	-	-	59.3	95.7	-	-	83.5

\* 700 for EG06 - 4°

## Performance

	Monochrome		Tunable White		RGBW	
	AG01	EG06 6°	AV01	EGX01 15°	AV01	EGX01 15°
Light colors (K)	4,000		5,000		4,000	
CRI*	≥ 80		≥ 80		≥ 80	
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
Luminous flux [lm]	13,270	8,750	5,100	6,100	3,410	6,270

\* other values on request

## Light distributions

### Monochrome

Symmetric

E SERIES A SERIES

Ultra Narrow 4°  
EG06

Extra Narrow 6°  
EG06

Narrow 13°  
AG01

Medium 27°  
AG02

Flood 47°  
AG03

Wide Flood 77°  
AH02

Elliptical 42°x9°  
AG04

### RGBW & TW

Internal color mixing

E SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m)

Narrow 12°  
EGM01

EGM01 + Spread foil = 25°  
EGM01 + Spread foil = 62°x14°

EGX: maximum performance – ideal for more spaced applications (> 1 m)

Narrow 15°  
EGX01

Medium 25°  
EGX02

EGX01 + Spread foil = 50°  
EGX01 + Spread foil = 60°  
EGX01 + Spread foil = 80°  
EGX01 + Spread foil = 34°x16°  
EGX01 + Spread foil = 62°x17°

2,200 K 2,700 K 3,000 K 4,000 K

Asymmetric

A SERIES

Extra Side and Forward Throw  
AP06

Extra Forward Throw  
AP07

Forward Grazing and Side Throw  
AV01

Side and Forward Throw  
AS08

Extra Side Throw  
AS09

RGBW CRI ≥ 80 RGB + 2,200 K RGB + 4,000 K Tunable White CRI ≥ 80 2,200 K – 4,000 K 3,000 K – 5,000 K

Discrete color mixing

A SERIES

Asymmetric

Extra Side and Forward Throw  
AP06

Extra Forward Throw  
AP07

Side and Forward Throw  
AS08

Forward Grazing and Side Throw  
AV01

## Driver (external)

	Monochrome	RGBW	Tunable White
Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connex light management software for remote management of intelligent luminaire clusters		

# Chameleon

C260 Integral

Projector  
Wall luminaire  
Pole mounted system



DB 703  
Anthracite

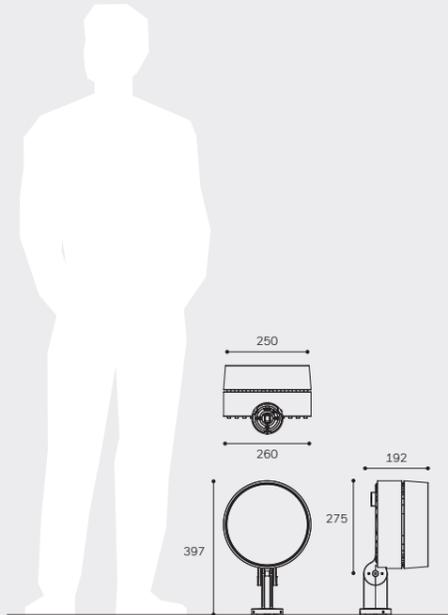
ewo  
colors



A-Series



E-Series



Configurator

CE RoHS IK08

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C260	0.039*	0.059*	7.6*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

## Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series								
Protection class	I/II	I/II	I	I	I	I	I	I	I	I
Voltage [V], [Hz]	220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60		220-240, 50/60	
LED nr.	36	24	36	-	-	96	36	-	-	96
Current max. [mA]	700	900*	700	-	-	300	700	-	-	300
Power max. [W]	80.5	69.8	43.2	-	-	49.4	72.6	-	-	96.0

\* 700 for EG06 - 4°

## Performance

	Monochrome		Tunable White		RGBW	
	AG01	EG06 6°	AV01	EGX01 15°	AV01	EGX01 15°
Light colors (K)	4,000		5,000		4,000	
CRI*	≥ 80		≥ 80		≥ 80	
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM	
Luminous flux [lm]	10,100	8,060	3,900	5,300	2,930	6,270

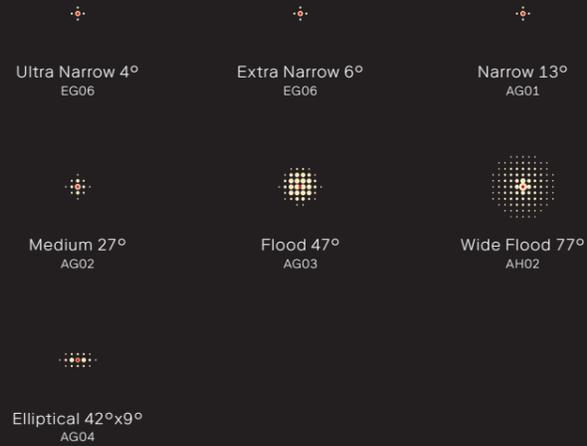
\* other values on request

## Light distributions

### Monochrome

Symmetric

E SERIES A SERIES



### RGBW & TW

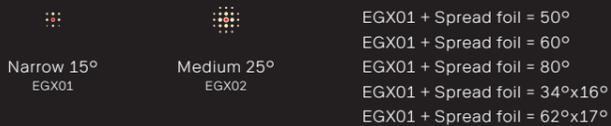
Internal color mixing

E SERIES

EGM: maximum quality – ideal for close-range applications (< 1 m)



EGX: maximum performance – ideal for more spaced applications (> 1 m)



2,200 K 2,700 K 3,000 K 4,000 K

Asymmetric

A SERIES

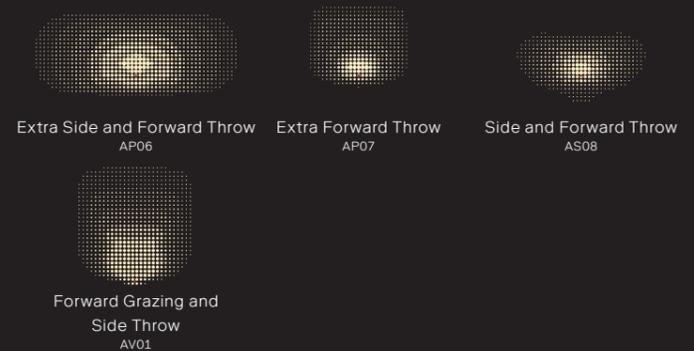


RGBW CRI ≥ 80 RGB + 2,200 K RGB + 4,000 K Tunable White CRI ≥ 80 2,200 K – 4,000 K 3,000 K – 5,000 K

Discrete color mixing

A SERIES

Asymmetric



### Driver (integrated) Monochrome

RGBW

Tunable White

Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters		

# Chameleon

C365 Slice

Projector  
Wall luminaire  
Pole mounted system



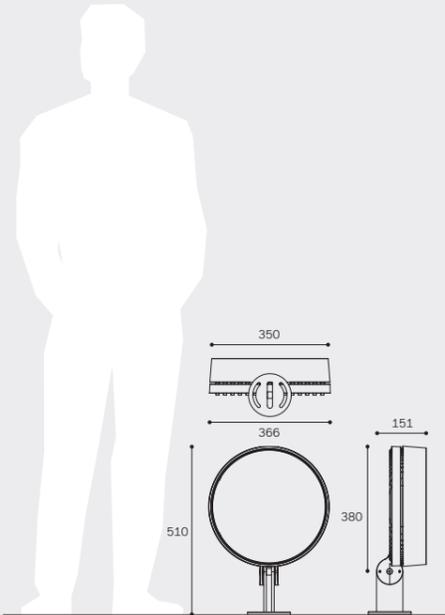
DB 703  
Anthracite

ewo  
colors



A-Series

E-Series



Configurator

CE RoHS IK08

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colors	RAL 9007*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C365	0.037*	0.11*	11.2*
	$\varnothing$ projected windage area [m <sup>2</sup> ]		* without accessories
	$\varnothing$ lateral windage area [m <sup>2</sup> ]		

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

## Electrical

	Monochrome		Tunable White				RGBW			
			Discrete		Internal		Discrete		Internal	
	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series	A-Series	E-Series
Protection class	I/II	I/II	I	I	I	I	I	I	I	I
Voltage [V], [Hz]										
LED nr.	128	60	128	-	-	-	128	-	-	-
Current max. [mA]	1,000	1,050	1,000	-	-	-	500	-	-	-
LED power [W]	384.0	194.4	225.0	-	-	-	180.0	-	-	-

## Performance

	Monochrome		Tunable White		RGBW
	AG01	EG06 6°	AG01	AG01	AG01
Light colors (K)	4,000		5,000		4,000
CRI*	≥ 80		≥ 80		≥ 80
Distribution	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM
MacAdam ellipses	≤ 3 SDCM		≤ 3 SDCM		≤ 3 SDCM
Luminous flux [lm]	43,100	22,670	22,800	11,100	

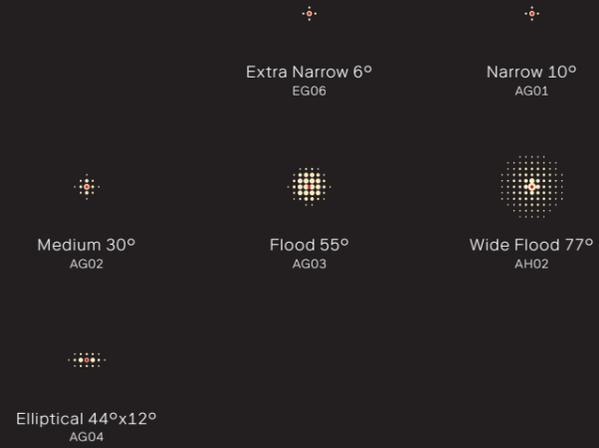
\* other values on request

## Light distributions

### Monochrome

Symmetric

E SERIES A SERIES



### RGBW & TW

Discrete color mixing

E SERIES

Symmetric



2,200 K 2,700 K 3,000 K 4,000 K

Asymmetric

A SERIES



RGBW CRI ≥ 80 RGB + 2,200 K RGB + 4,000 K Tunable White CRI ≥ 80 2,200 K – 4,000 K 3,000 K – 5,000 K

Discrete color mixing

A SERIES

Asymmetric



Driver (external) Monochrome

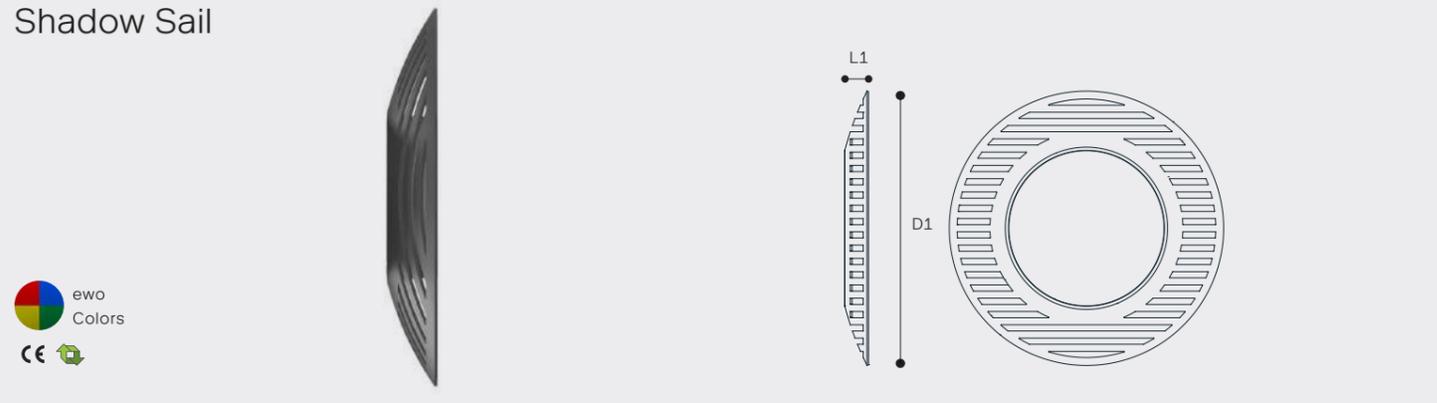
RGBW

Tunable White

Control Options	ON OFF DALI X X L/S	DALI DMX X X	T8 DALI X X
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connex light management software for remote management of intelligent luminaire clusters		

# External accessories

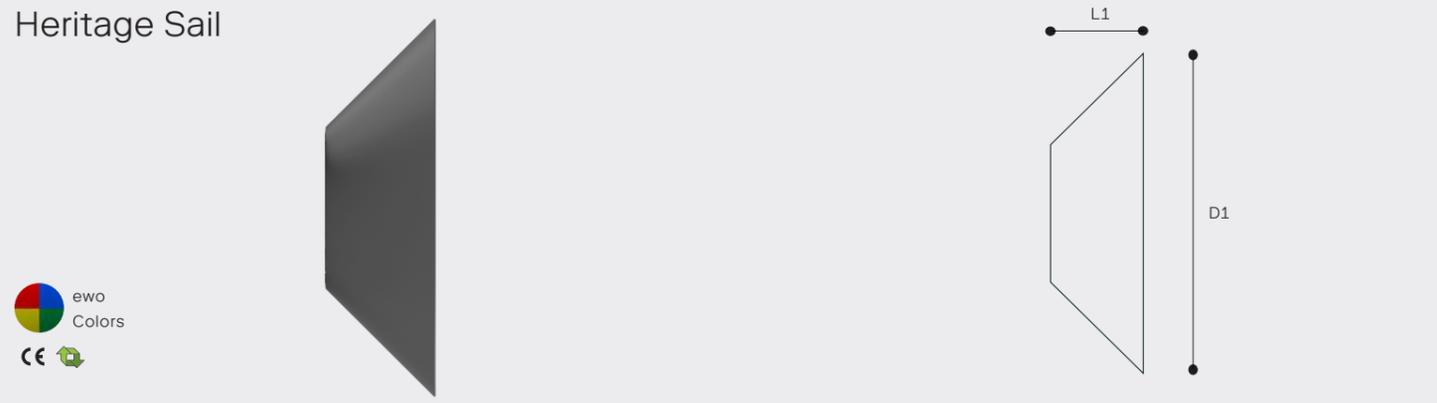
## Shadow Sail



## Shadow Sail

Model Slice/Integral	Article	L1 [mm]	D1 [mm]	Note
C165	1062090	50	375	Field replaceable: can be mounted and dismantled after installation. Material: powder coated aluminium.  For other sizes, availability to be verified.

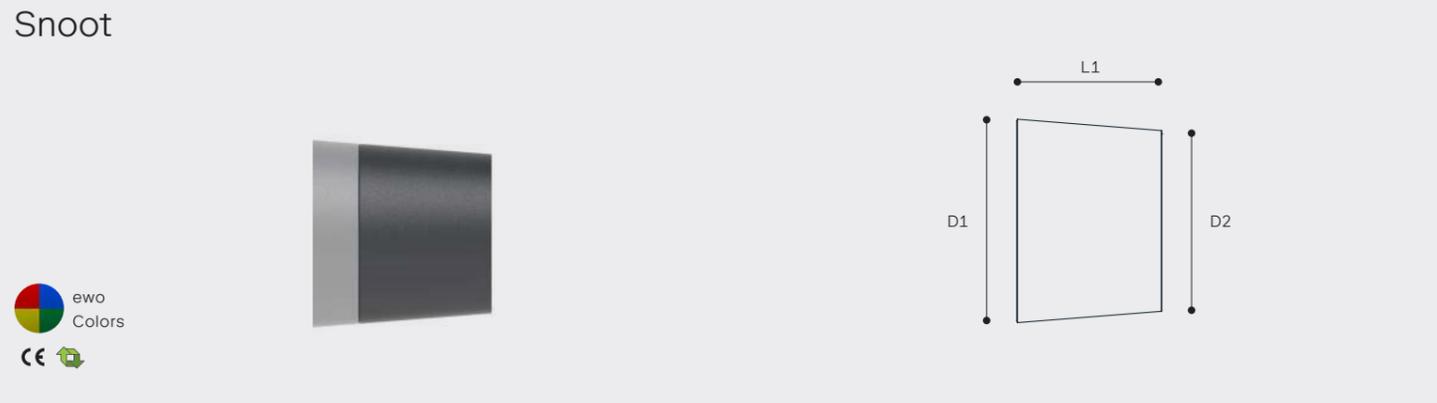
## Heritage Sail



## Heritage Sail

Model Slice/Integral	Article	L1 [mm]	D1 [mm]	Note
C125	1062093	56	331	Field replaceable: can be mounted and dismantled after installation. Material: powder coated aluminium.
C165	1062094	50	375	
C210	1062095	45	420	
C260	1062096	42	470	

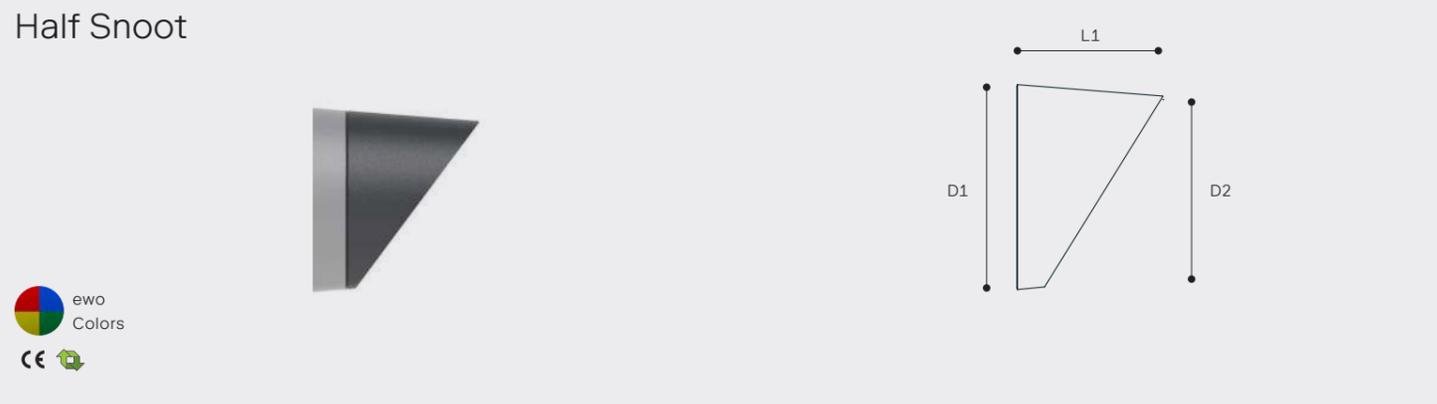
## Snoot



## Snoot

Model Slice/Integral	Article black	Article Color matched	L1 [mm]	D1 [mm]	D2 [mm]	Note
C90	1062203	1062280	30	78	74	Can be mounted after installation. Material: powder coated aluminium. Finish: matching colour or black
C125	1062036	1062272	101	114	99	
C165	1062037	1062273	116	154	136	
C210	1062038	1062274	138	199	178	
C260	1062039	1062275	151	248	225	Compatible with EG06, AG01, AG02.
C365	1062240	1062282	200	354	322	

## Half Snoot

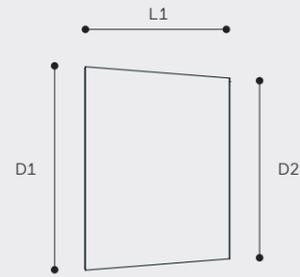
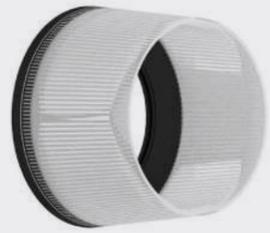


## Half Snoot

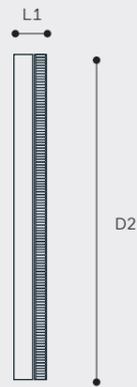
Model Slice/Integral	Article black	Article Color matched	L1 [mm]	D1 [mm]	D2 [mm]	Note
C90	1062202	1062281	30	78	75	Can be mounted after installation. Material: powder coated aluminium. Finish: matching colour or black.
C125	1062040	1062276	117	114	99	
C165	1062041	1062277	153	154	141	
C210	1062042	1062278	195	199	183	
C260	1062043	1062279	241	248	229	Compatible with EG06, AG01, AG02.
C365	1062239	1062283	200	354	337	

# External accessories

## Transparent Snoot



## Support for Spread foils



## Transparent Snoot

Model Slice/Integral	Article	L1 [mm]	D1 [mm]	D2 [mm]	Note
C165	1062246	108	135	99	Can be mounted after installation. Material: UV resistant polycarbonate. Available only for C165.  For other sizes, availability to be verified.

## Support for Spread foils

Model Slice/Integral	Article	L1 [mm]	D1 [mm]	Note
C165	1062244	16	154	Can be mounted after installation. Material: UV resistant polycarbonate. Available only for C165. Recommended for oval distributions.  For other sizes, availability to be verified.

# Internal accessories

## Honeycomb louvre



## Circular louvre



## Honeycomb louvre

Model Slice/Integral	Article	Note
C90	1062242	
C125	1062024	Factory fitted: cannot be mounted after installation. Material: polycarbonate.
C165	1062025	
C210	1062026	Compatible with AG01, AG02.
C260	1062027	
C360	1062204	

## Circular louvre

Model Slice/Integral	Article	Note
C90	1062023	
C125	1062023	Factory fitted: cannot be mounted after installation. Material: polycarbonate.
C165	1062023	
C210	1062023	Compatible with EG06.
C260	1062023	
C360	1062023	

# Mounting accessoires

## Wall Hinge

C365

C90 – C260

ewo Colors  
CE

## Wall Hinge

Model Slice/Integral	Article	L1 [mm]	D1 [mm]	Note
C90	1021724	87	70	Designed for simple surface mounted installation. Material: powder coated aluminium. Element powder-coated, same color as the projector.
C125	1021709	106	87	
C165	1021709	106	87	
C210	1021710	121	93	
C260	1021710	121	93	
C365	1021725	130	130	

## V-Notch

Type A

Type B

ewo Colors  
CE

## V-Notch

Model Slice/Integral	Article Type A	Article Type B	Note
Version 1	1062517	1062521	Can be supplied as full pole up to 10 m, or as 1.5 m section to attach to local pole. Material: powder coated galvanized steel. Mechanism to prevent cable over rotation. Consult <a href="#">V-Notch brochure</a> for more information.
Version 2	1062518	1062522	
Version 3	1062519	1062523	
Version 4	1062520	1062524	

## Pole adaptor

ewo Colors  
CE

## Pole adaptor

Model Slice/Integral	Article	L1 [mm]	L2 [mm]	Note
C90	1021719	130	74	Can be retrofitted to existing poles with belts or screws. Material: powder coated aluminium. Element powder-coated, same color as the projector. Mechanism to prevent cable over rotation.
C125	1021719	130	74	
C210	1021719	130	74	
C260	1021719	130	74	
C365	1021719	130	74	

## Catenary

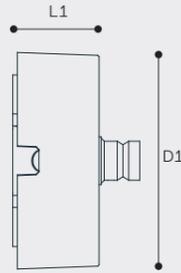
ewo Colors  
CE

## Catenary

Model Slice/Integral	Article	L1 [mm]	D1 [mm]	Note
C125	1021721	172	60	Designed for Chameleon with central hinge. Material: Stainless steel. Element powder-coated, same color as the projector.
C165	1021721	172	60	
C210	1021722	172	70	Compatible rope diameters: Ø6 mm - Ø14 mm. Mechanism to prevent cable over rotation.
C260	1021722	172	70	

# Mounting accessoires

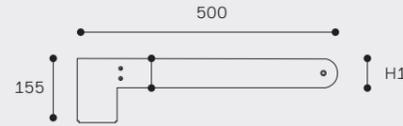
## Connection box



## Connection box

Model Slice/Integral	Article	L1 [mm]	D1 [mm]	Note
C90	1021 717	55	144	Surface mounted accessory allows for electrical connection behind the luminaire. Material: powder coated aluminium. Element powder-coated, same color as the projector. Mechanism to prevent cable over rotation.
C125	1021 717	55	144	
C165	1021 717	55	144	
C210	1021 717	55	144	
C260	1021 717	55	144	
C365	1021 717	55	144	

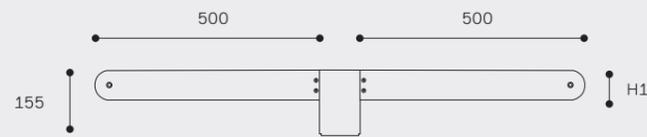
## Single pole adapter



## Single pole adapter

Model Slice/Integral	Article	Ø pole	H1 [mm]	Note
C125 - C165	1062247	76	60	Pole bracket for Chameleon installation. Material: powder coated aluminium. Support for pole top Ø76 mm and Ø114 mm. Single arm.
C210 - C260	1062255	76	70	
C125 - C165	1062253	114	60	
C210 - C260	1062257	114	70	

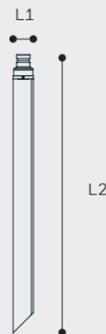
## Double pole adapter



## Double pole adapter

Model Slice/Integral	Article	Ø pole	H1	Note
C125 - C165	1062248	76	60	Pole bracket for Chameleon installation. Material: powder coated aluminium. Support for pole top Ø76 mm and Ø114 mm. Double arm.
C210 - C260	1062256	76	70	
C125 - C165	1062254	114	60	
C210 - C260	1062258	114	70	

## Ground spike



## Ground spike

Model Slice/Integral	Article	L1 [mm]	L2 [mm]	Note
C90	1060164	50	548	Material: powder coated stainless steel. Element powder-coated, same color as the projector. Mechanism to prevent cable over rotation.
C125	1060164	50	548	
C165	1060164	50	548	
C210	1060164	50	548	
C260	1060164	50	548	
C365	1060164	50	548	

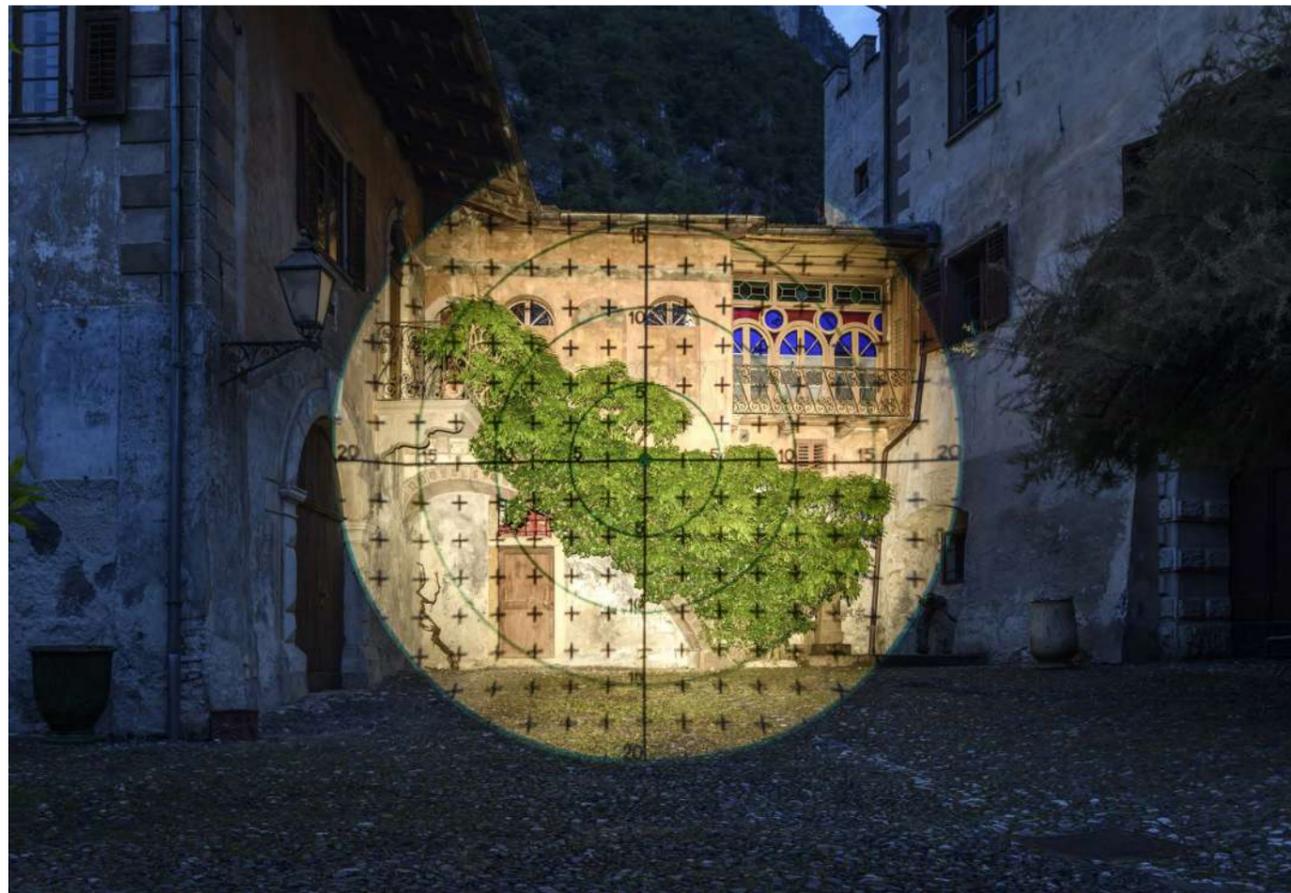
C210 GOBO



# C210 GOBO



< Grid mask



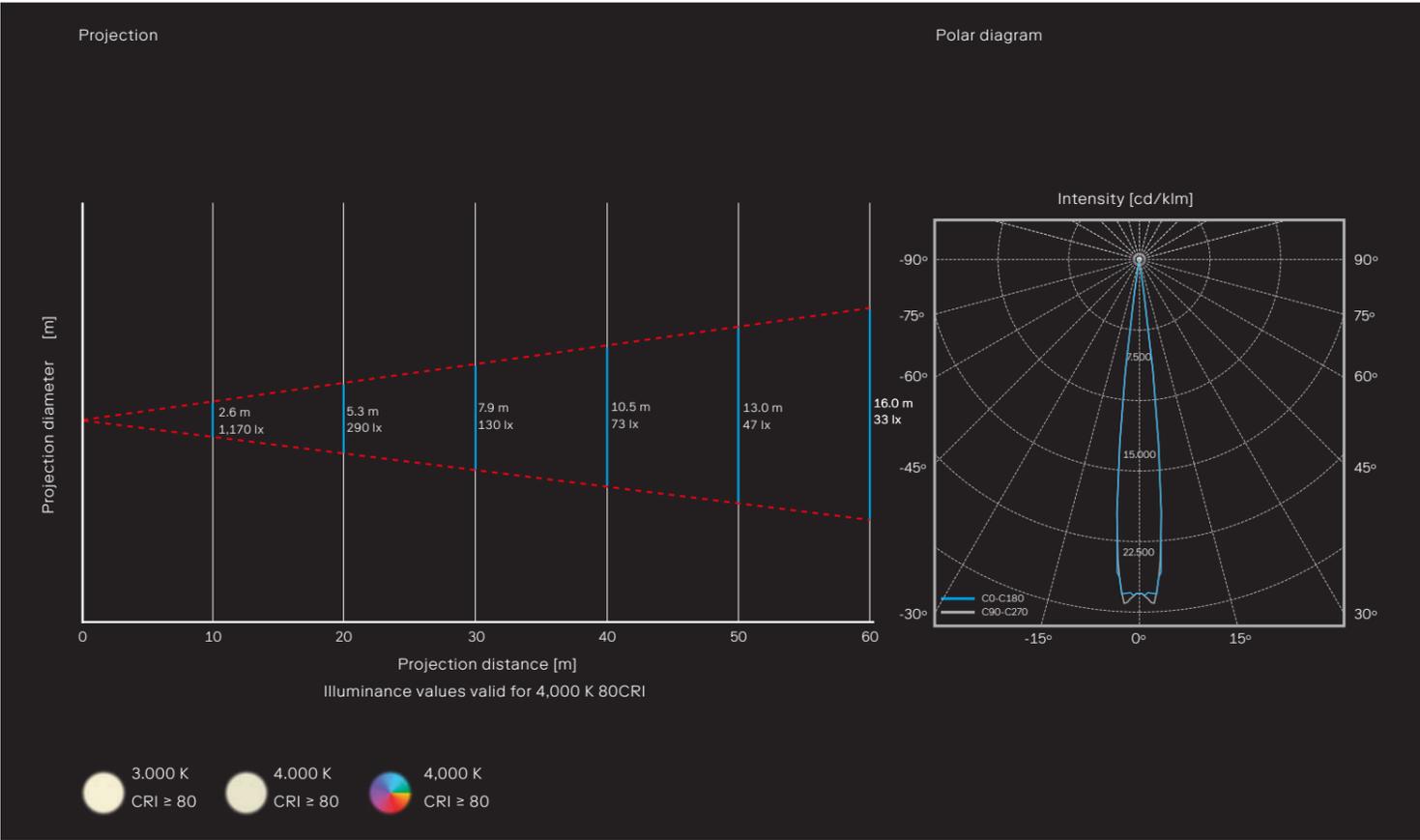
# Chameleon

Chameleon C210 Slice GOBO 15° Projector



-  DB 703 Anthracite
-  ewo color

CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo colors *
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	 	Weight [kg]
C210 GOBO	0.035* 0.08*	7.8*
	<small>⊙ projected windage area [m²]</small>	<small>* without accessories</small>
	<small>⊙ lateral windage area [m²]</small>	

## Performance

Focal length (mm)	155
Beam angle	15°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,575
System luminous flux [lm] 4,000 K (RGBW)	2,590

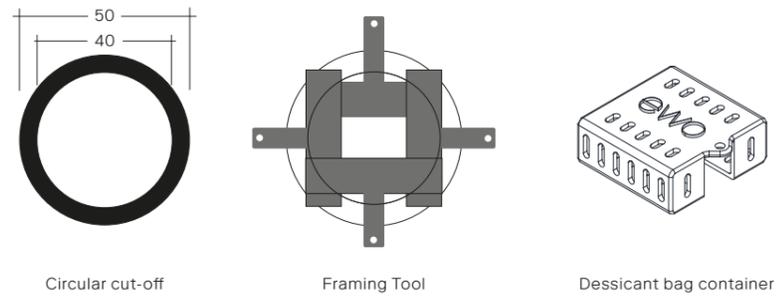
## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	-	-
Current max. [mA]	1,000	550
LED power max. [W]	45.7	52.1

Driver (external) Monochrome

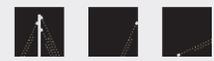
Control Options		
Programming [optional]	Constant lumen output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Accessories



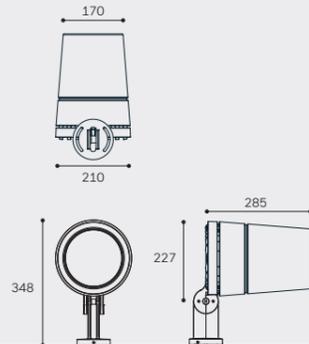
# Chameleon

Chameleon C210 Slice GOBO 30° Projector

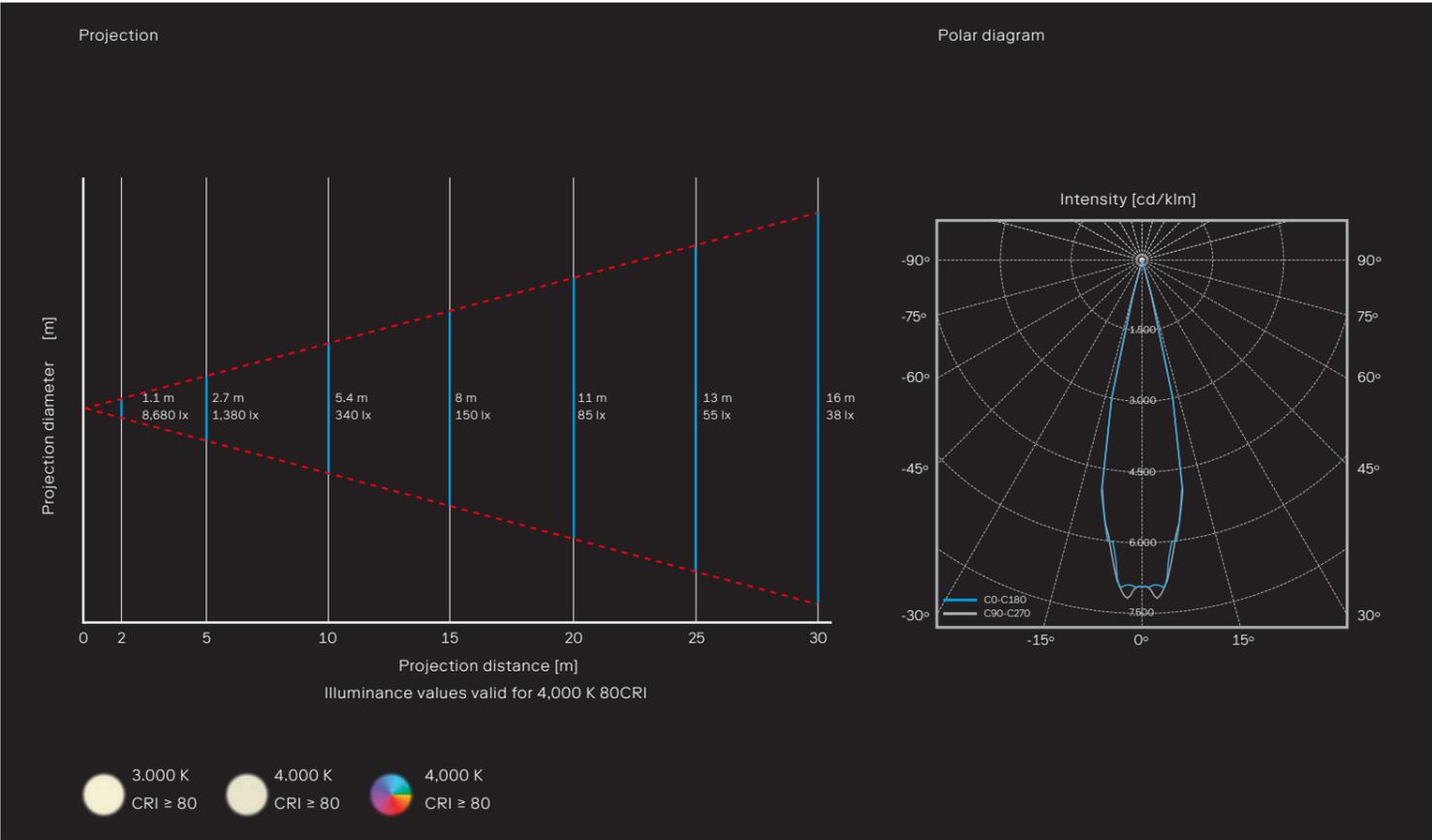


DB 703 Anthracite

ewo color



CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo colors *
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	4° @ 0.035*	30° @ 0.06*	Weight [kg]
C210 GOBO	0.035*	0.06*	6.6*
	* projected windage area [m²]		* without accessories
	* lateral windage area [m²]		

## Performance

Focal length [mm]	77
Beam angle	30°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,700
System luminous flux [lm] 4,000 K (RGBW)	2,560

## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	-	-
Current max. [mA]	1,000	550
LED power max. [W]	45.7	52.1

Driver (external) Monochrome



Programming [optional]  
Constant lumen output (CLO)  
Emergency power supply (AC/DC)  
Stand-alone

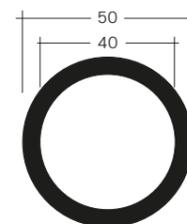
Control accessories Further accessories on request

Software connexx light management software for remote management of intelligent luminaire clusters

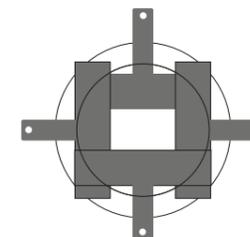
RGBW



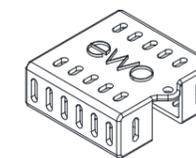
## Accessories



Circular cut-off



Framing Tool



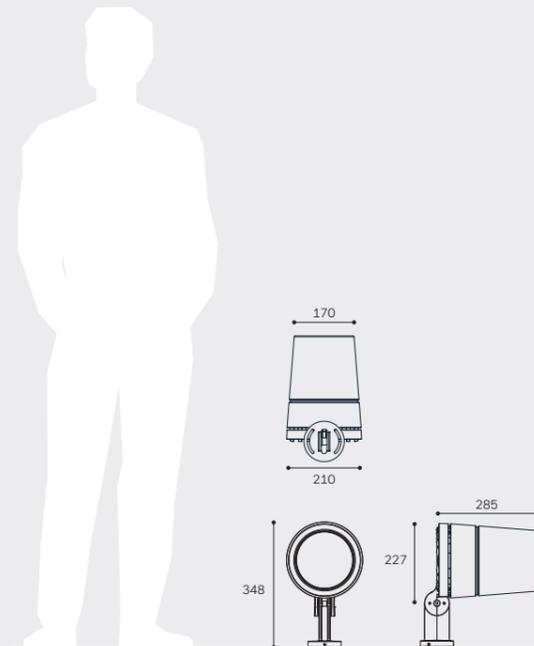
Desiccant bag container

# Chameleon

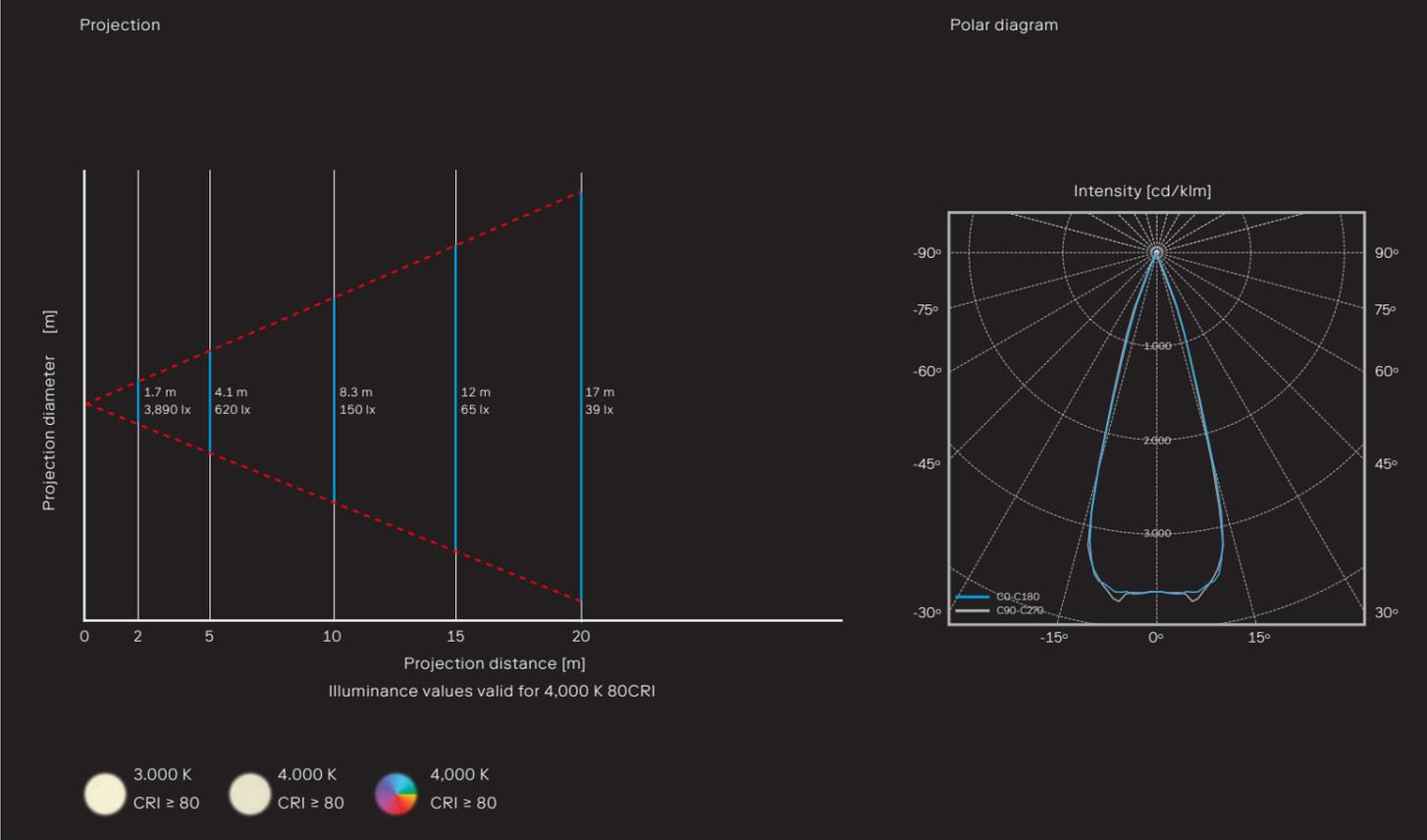
Chameleon C210 Slice GOBO 45° Projector



- DB 703 Anthracite
- ewo color



CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo colors *
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	⊕ ⊙	⊖ ⊙	Weight [kg]
C210 GOBO	0.035*	0.06*	6.6*
	⊙ projected windage area [m²]		* without accessories
	⊙ lateral windage area [m²]		

## Performance

Focal length [mm]	53
Beam angle	45°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,300
System luminous flux [lm] 4,000 K (RGBW)	2,380

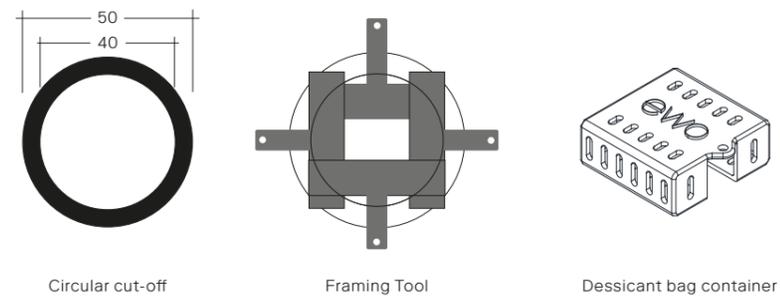
## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	-	-
Current max. [mA]	1,000	550
LED power max. [W]	45.7	52.1

Driver (external) Monochrome

Control Options	ON OFF DALI	ON OFF DALI DMX
Programming [optional]	Constant lumen output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Accessories



# Chameleon

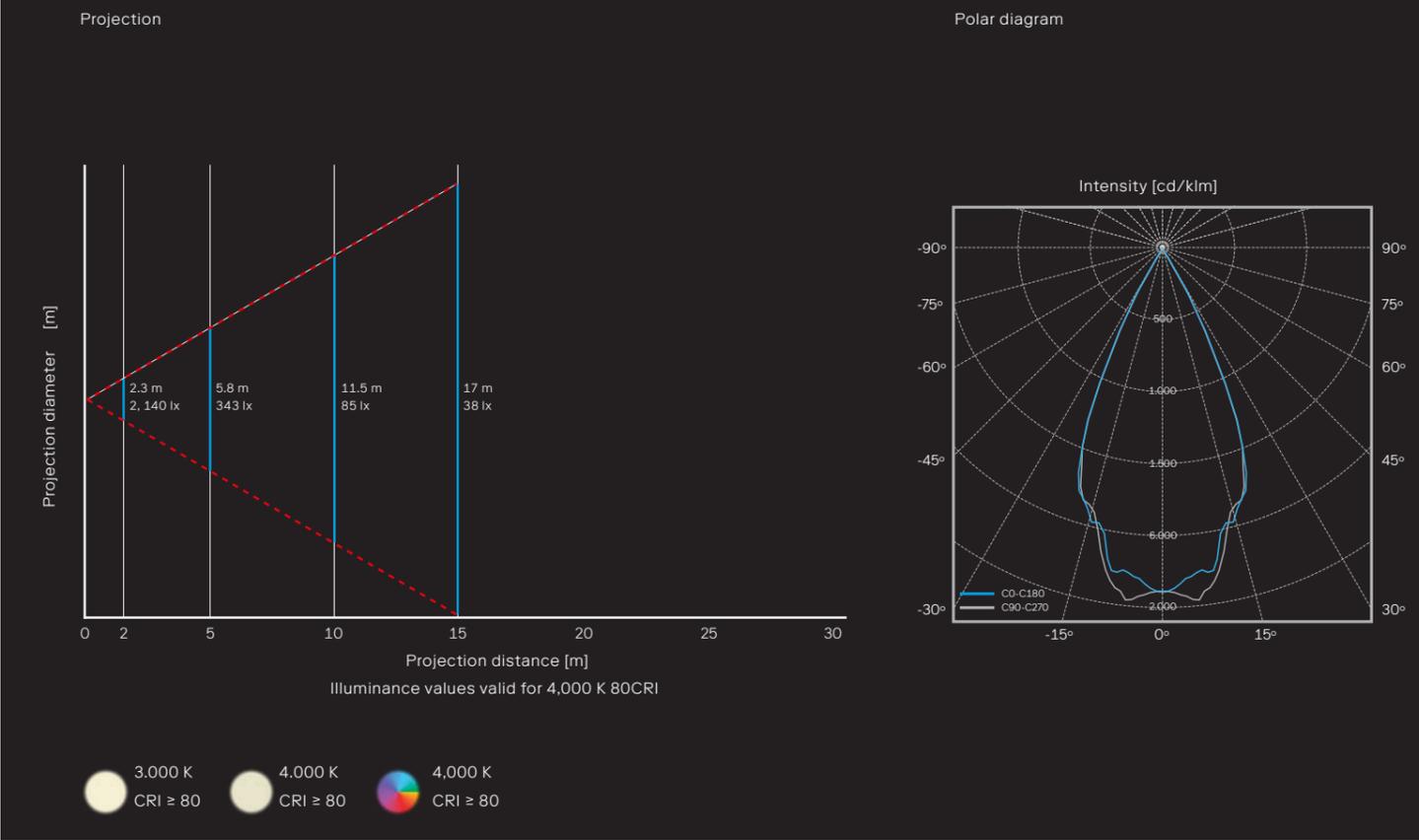
Chameleon C210 Slice GOBO 60° Projector



DB 703 Anthracite



CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo colors *
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	4 <sup>⊕</sup> ⊕	-1 <sup>⊖</sup> ⊖	Weight [kg]
C210 GOBO	0.035*	0.06*	6.6*
	⊕ projected windage area [m²]		* without accessories
	⊖ lateral windage area [m²]		

## Performance

Focal length [mm]	38
Beam angle	60°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,500
System luminous flux [lm] 4,000 K (RGBW)	2,550

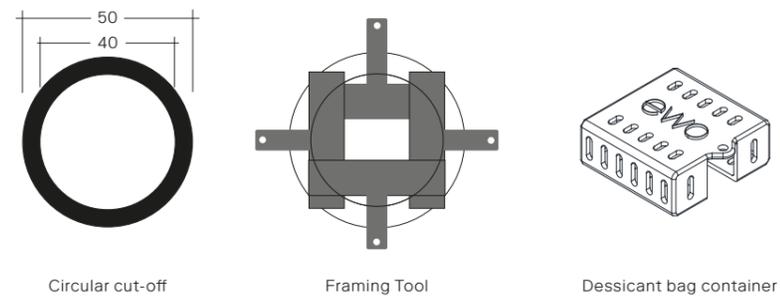
## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	-	-
Current max. [mA]	1,000	550
LED power max. [W]	45.7	52.1

Driver (external) Monochrome

Control Options	ON OFF DALI	ON OFF DALI DMX
Programming [optional]	Constant lumen output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Accessories

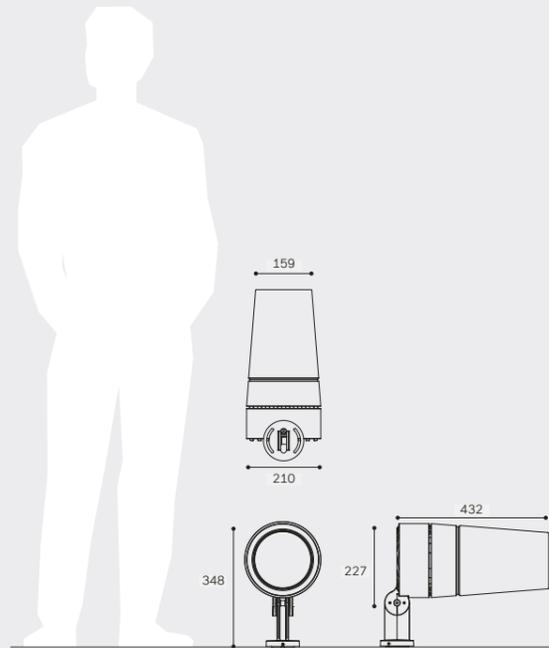


# Chameleon

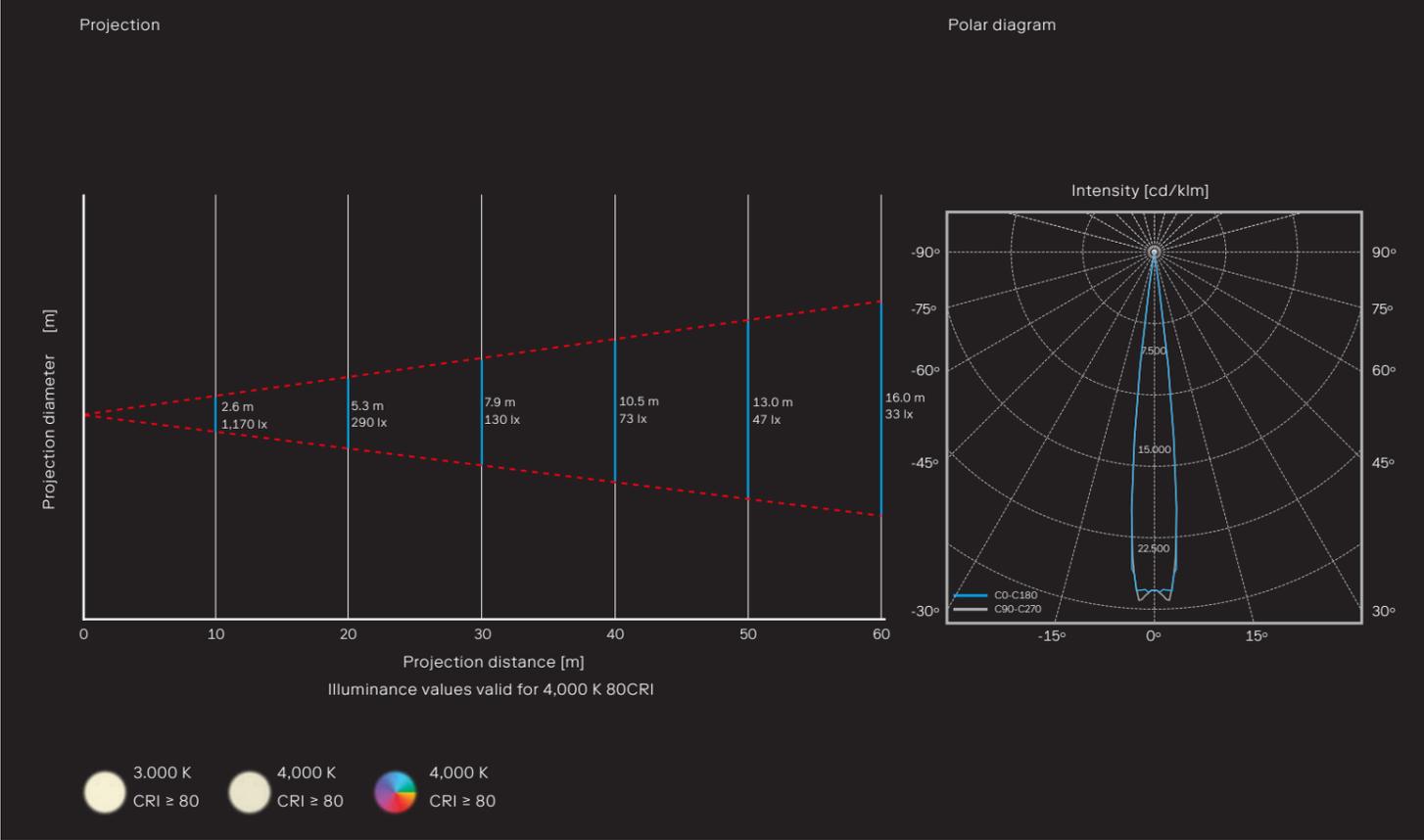
Chameleon C210 Integral GOBO 15° Projector



- DB 703 Anthracite
- ewo color



CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo color*
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	⊕ ⊙	⊖ ⊙	Weight [kg]
C210 GOBO	0.035*	0.09*	9.0*
	⊙ projected windage area [m²]		* without accessories
	⊙ lateral windage area [m²]		

## Performance

Focal length [mm]	155
Beam angle	15°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,575
System luminous flux [lm] 4,000 K (RGBW)	2,590

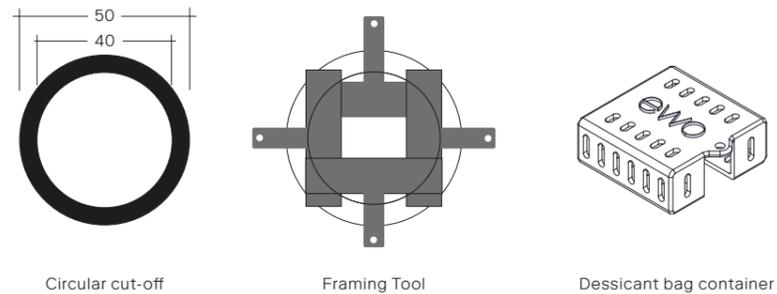
## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current max. [mA]	1,000	450
Power max. [W]	51	46

## Driver (integrated) Monochrome

Control Options	ON OFF DALI	ON OFF DALI DMX
Programming [optional]	Constant lumen output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Accessories

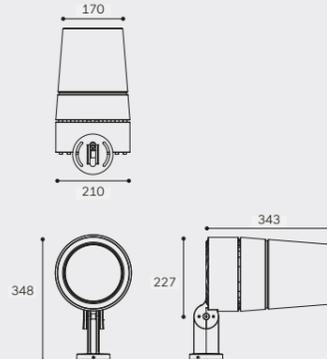


# Chameleon

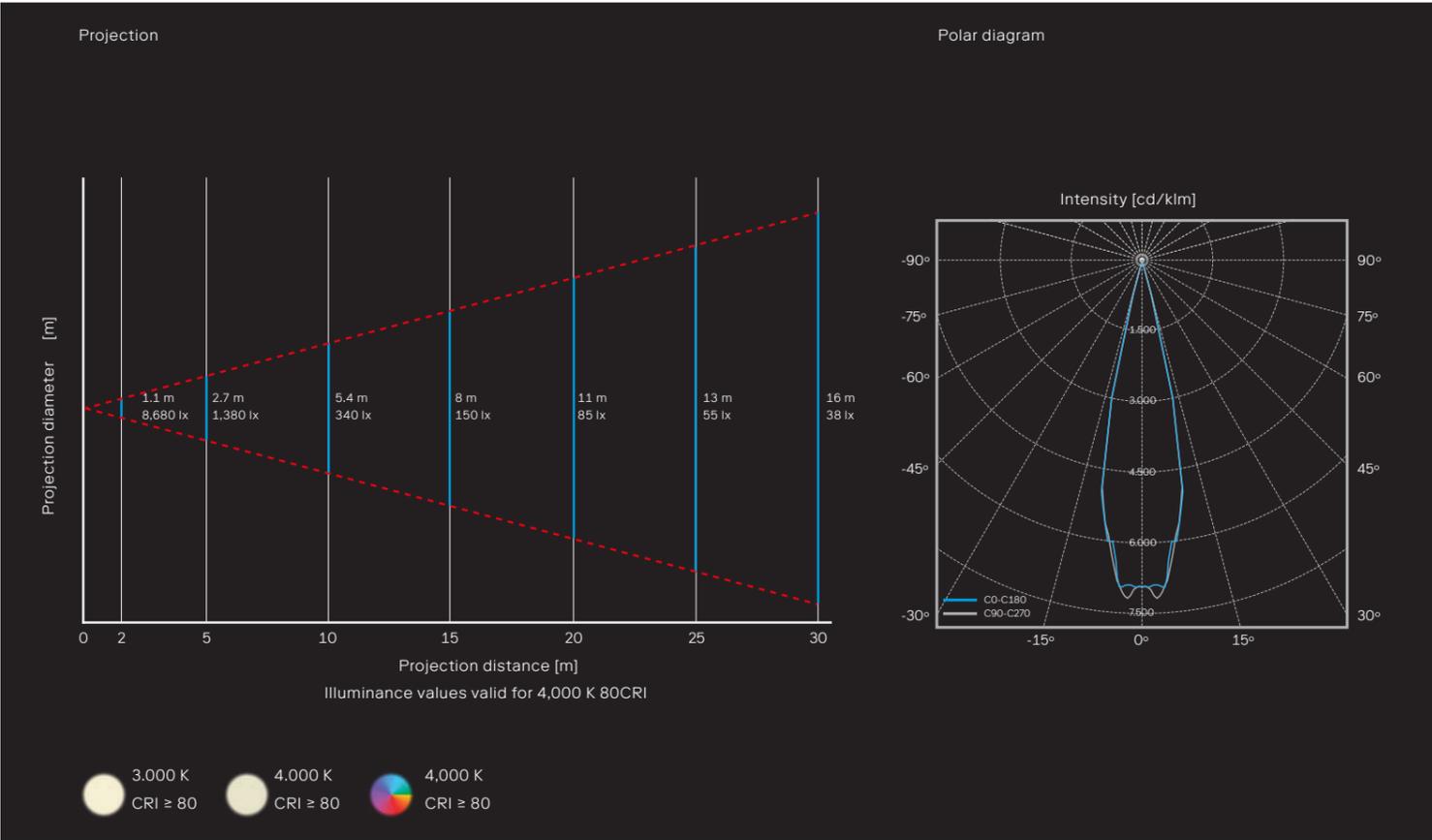
Chameleon C210 Integral GOBO 30° Projector



-  DB 703 Anthracite
-  ewo color



CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo color*
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C210 GOBO	0.035*	0.08*	8.8*
	$\varnothing$ projected windage area [m <sup>2</sup> ]	$\varnothing$ lateral windage area [m <sup>2</sup> ]	* without accessories

## Performance

Focal length [mm]	77
Beam angle	30°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,700
System luminous flux [lm] 4,000 K (RGBW)	2,560

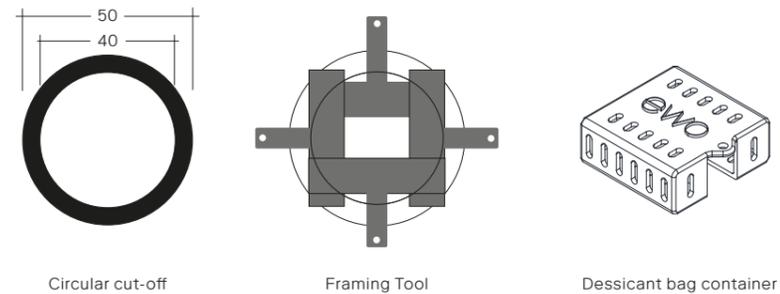
## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current max. [mA]	1,000	450
Power max. [W]	51	46

## Driver (integrated) Monochrome

Control Options		
Programming [optional]	Constant lumen output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Accessories

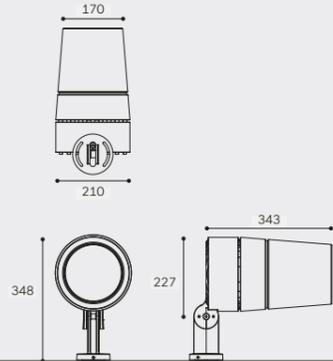


# Chameleon

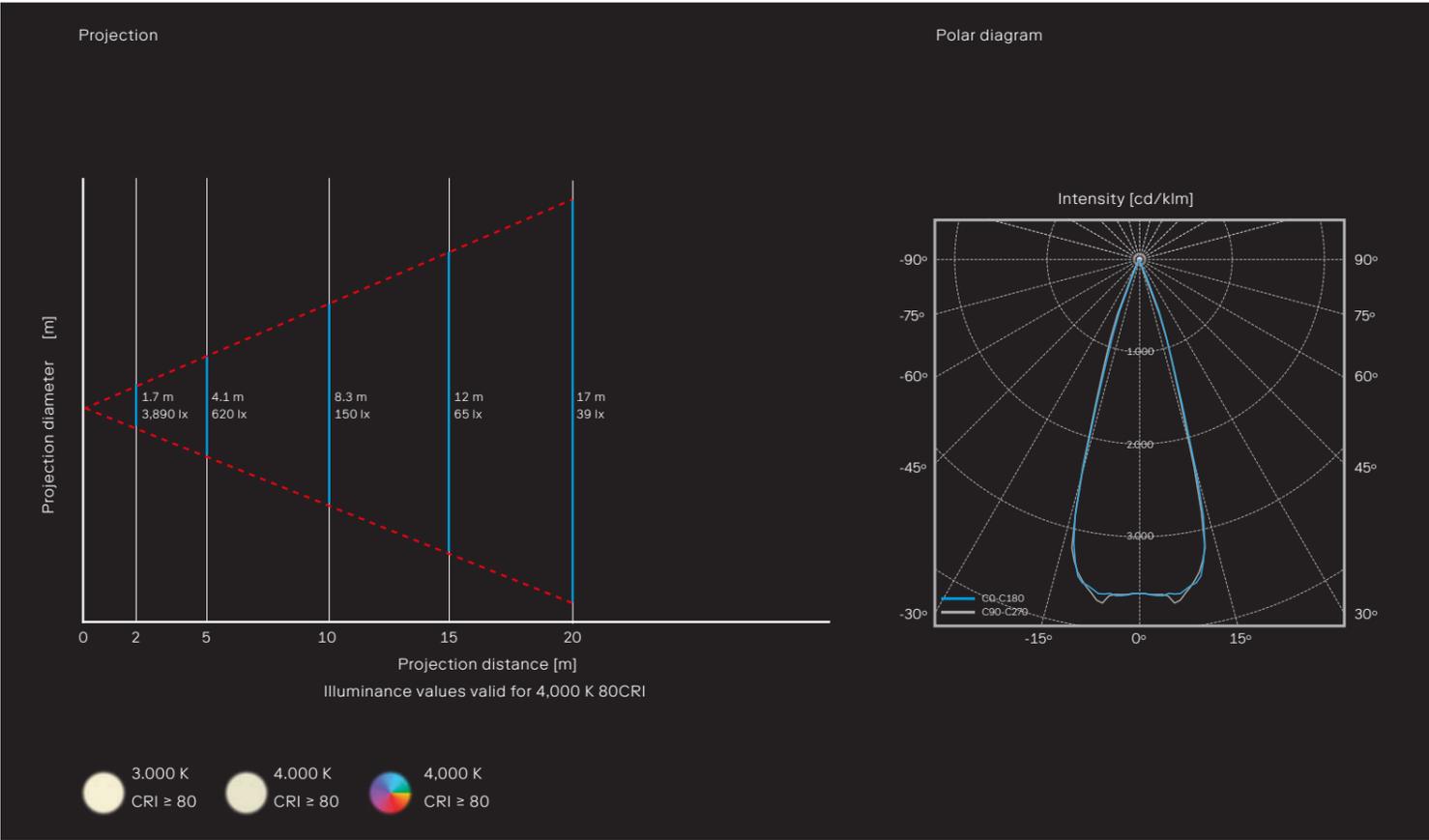
Chameleon C210 Integral GOBO 45° Projector



-  DB 703 Anthracite
-  ewo color



CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo color*
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	$\varnothing$	$\varnothing$	Weight [kg]
C210 GOBO	0.035*	0.08*	8.8*
	$\varnothing$ projected windage area [m <sup>2</sup> ]	$\varnothing$ lateral windage area [m <sup>2</sup> ]	* without accessories

## Performance

Focal length [mm]	53
Beam angle	45°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,300
System luminous flux [lm] 4,000 K (RGBW)	2,380

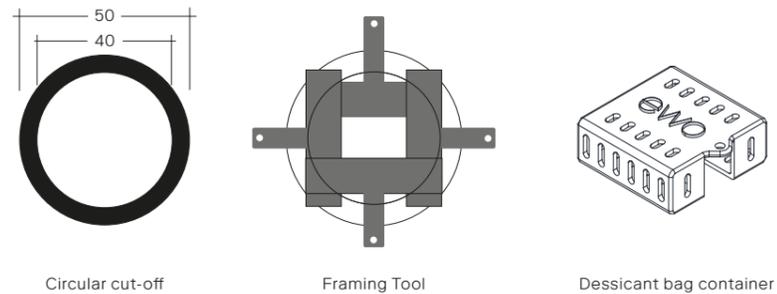
## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current max. [mA]	1,000	450
Power max. [W]	51	46

## Driver (integrated) Monochrome

Control Options		
Programming [optional]	Constant lumen output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Accessories



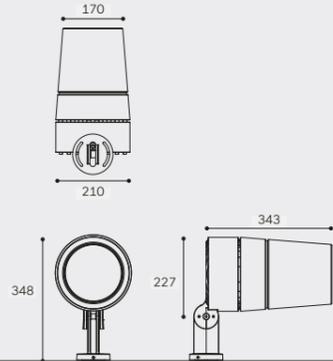
# Chameleon

Chameleon C210 Integral GOBO 60° Projector

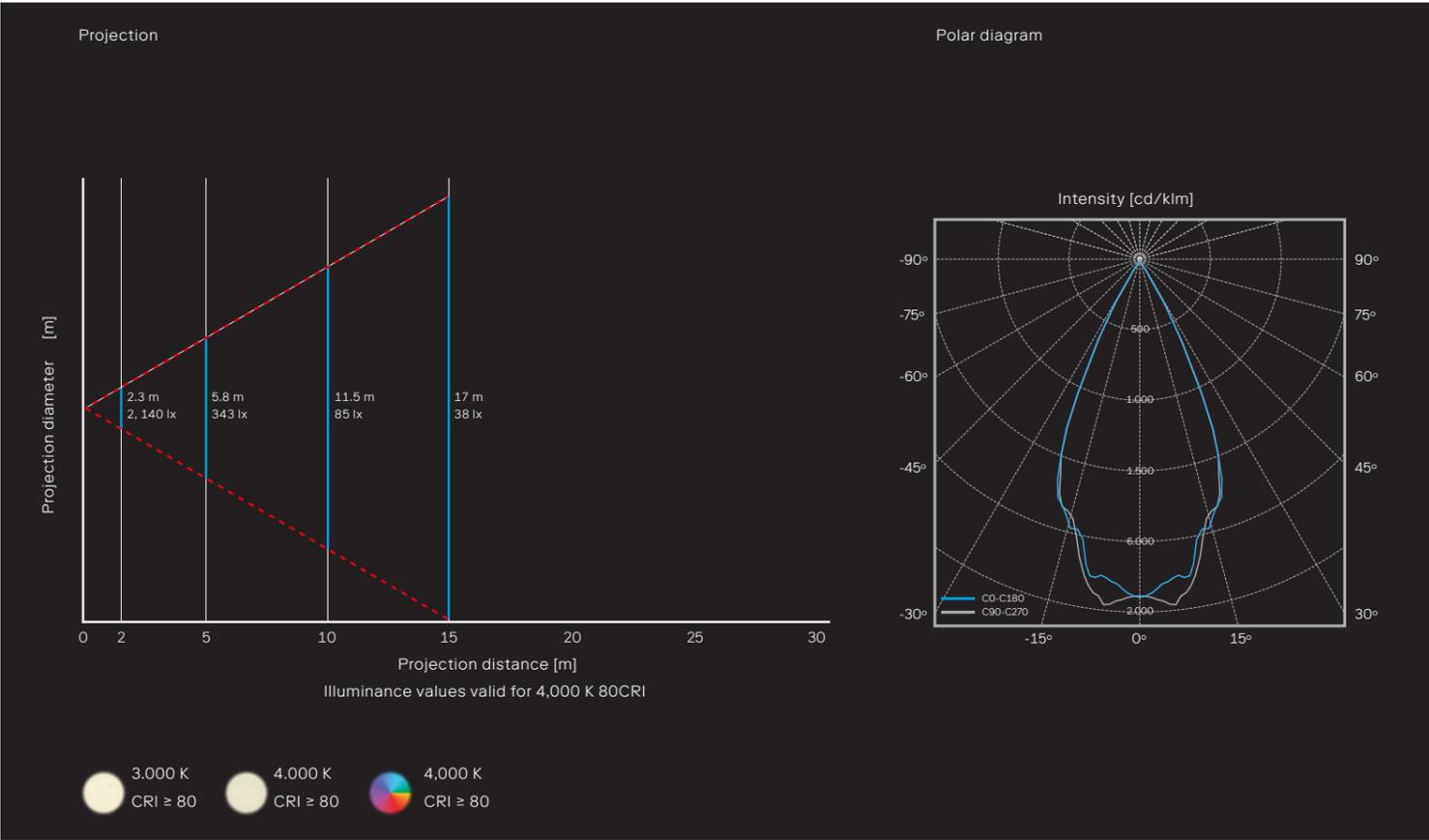


DB 703 Anthracite

ewo color



CE IP66 RoHS IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	ewo color*
Glass	Safety glass (ESG), anti-reflective treatment
Mounting options	Pole, wall, surface * other colors on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	⊕ ⊖ ⊕ ⊖	Weight [kg]
C210 GOBO	0.035* 0.08*	8.8*
	⊕ projected windage area [m²]	* without accessories
	⊖ lateral windage area [m²]	

## Performance

Focal length [mm]	38
Beam angle	60°
Diameter GOBO [mm]	50, 66
Image size max. [mm]	40
Number of LEDs	16
System luminous flux [lm] 4,000 K	4,500
System luminous flux [lm] 4,000 K (RGBW)	2,550

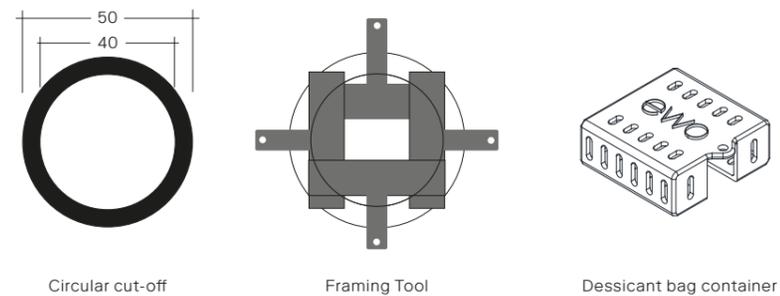
## Electrical

	Monochrome	RGBW
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current max. [mA]	1,000	450
Power max. [W]	51	46

## Driver (integrated) Monochrome

Control Options	ON OFF DALI	ON OFF DALI DMX
Programming [optional]	Constant lumen output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Accessories





AREA  
STREETS  
WALKWAYS  
PEDESTRIAN CROSSINGS

## F-System

The F-System is a comprehensive lighting system, designed by Joerg Boner, featuring three sizes (M, S and XS) allowing it to effortlessly scale to a plethora of architectures. Luminaires are available with single or double head, wall mounted or with a bracket for suspended applications. Optically, the F-System can be configured with either A-Series high precision lens optics or T-Series low glare ewoLightTile for tunable white applications bringing humancentric lighting to urban spaces.



BILL BROWN RESERVE  
Brisbane, Australia, 2020  
F-System



COMUNE DI VILLANDRO  
Villandro, Italy, 2022  
F-System



BILL BROWN RESERVE  
Brisbane, Australia, 2020  
F-System, R-System

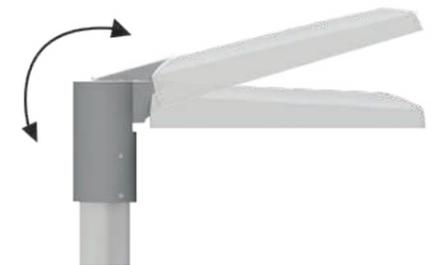




Designer Jörg Boner



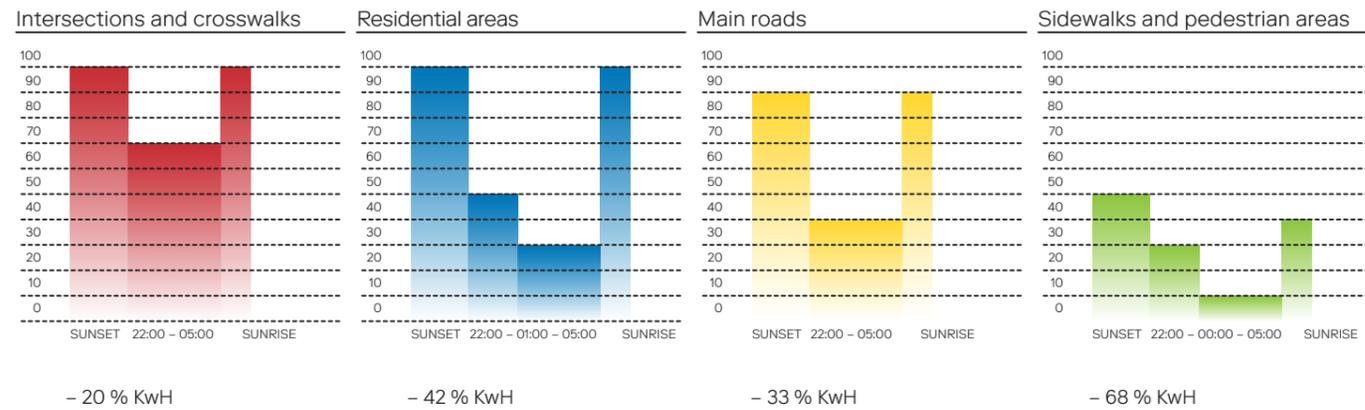
The pole mounted variants are compatible with many pole diameters and can also be adjusted in 5° increments from 0–90°, for pole-tops with a diameter of ø76 mm or ø60 mm.



Luminaires are fitted with a cover that can be opened without the use of tools, making this luminaire family very easy to maintain.



With DALI, 1–10 V and stand alone line switch control, the F–System can easily be controlled to maximise both safety and energy saving.



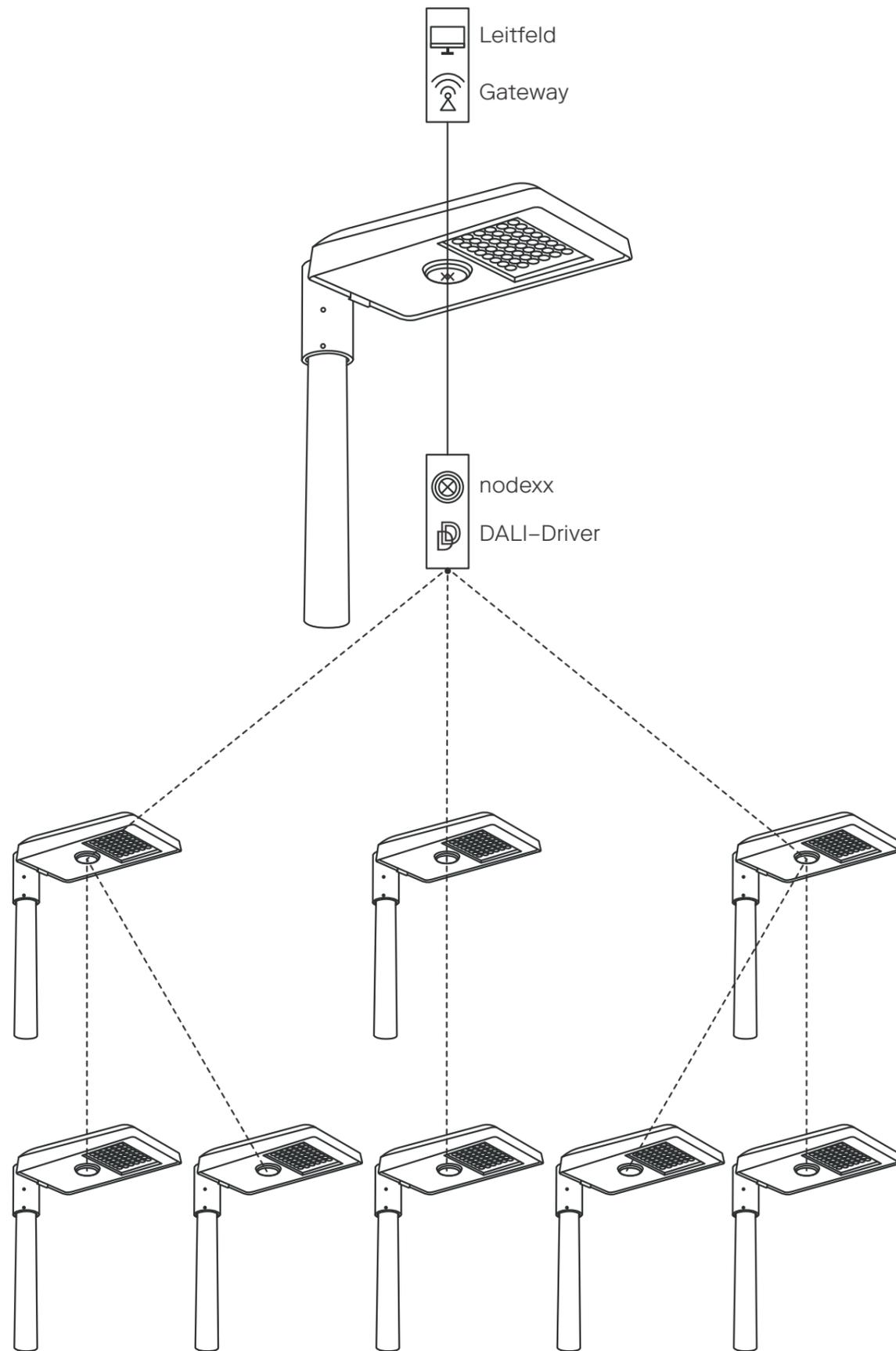
### City light zoning

Dimming is an excellent way to save money and electricity without sacrificing safety. It allows optimal management of resources, going on to dramatically cut both costs and consumption.

A functional lighting system was developed for Villanders to drastically mini-

mise energy waste by up to 45 % and to reduce light pollution in accordance with regulations. For pedestrian and residential areas, for instance, it was possible to introduce up to three different stages of dimming between 10 p.m. and system shutdown.

The F-System can also be specified with Zhaga interface for smart city integration and intelligent central lighting control. This is an important feature to onboard urban lighting into the internet of things.



Flexibility creates the possibility of grouping luminaires by manually managing and dimming the lighting. This allows squares, streets, and pathways to be lit in any desired or preferred pattern. In addition, software programming responds to changing needs, such as Christmas lighting or one-off events.

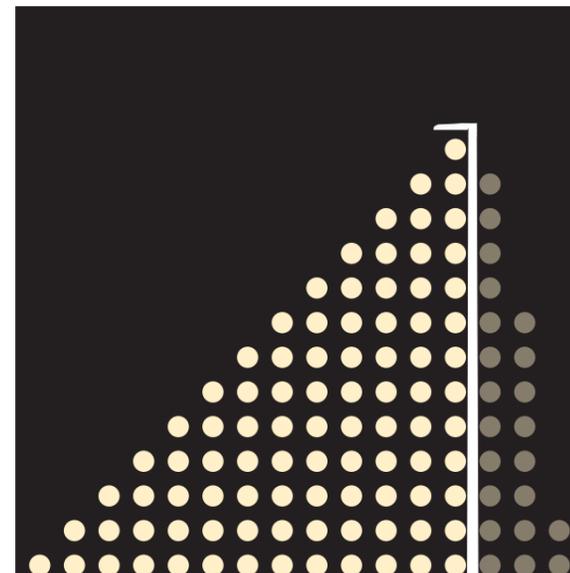
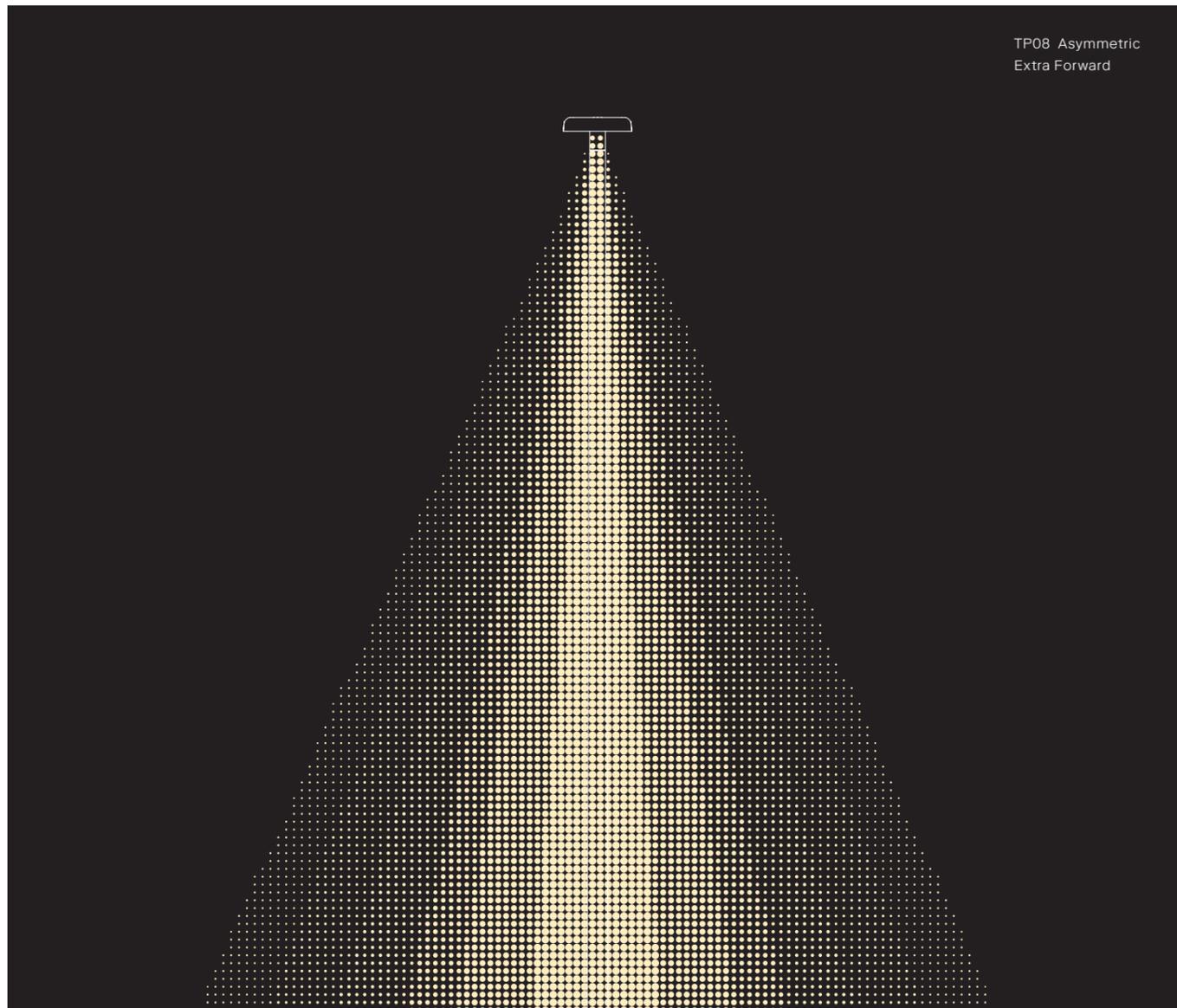




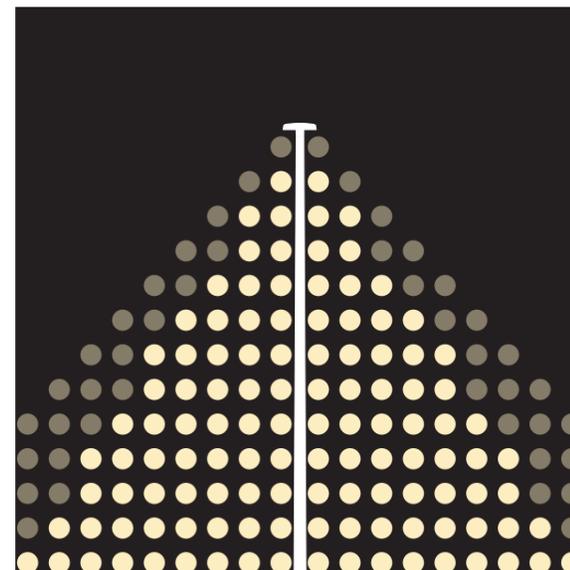
The F-System is compatible with ewo's A-Series precision lens optics or ewoLightTile, low glare light guiding panels. Fitted with A-Series optics, the T-Series becomes an ideal luminaire for streetlighting and pathway applications. The homogenous yet precise ewoLightTile optics on the other hand, brings dynamic lighting to public spaces to improve wellbeing outside.

ewoLightLayers

With the new optical accessory, ewoLightLayers, the light guidance of the A-Series is even more precise. To the already extensive range of light distributions, the two effects rear light shield and glare shield increase the choice even more.



Backlight shield



Anti-Glare-Grid



PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

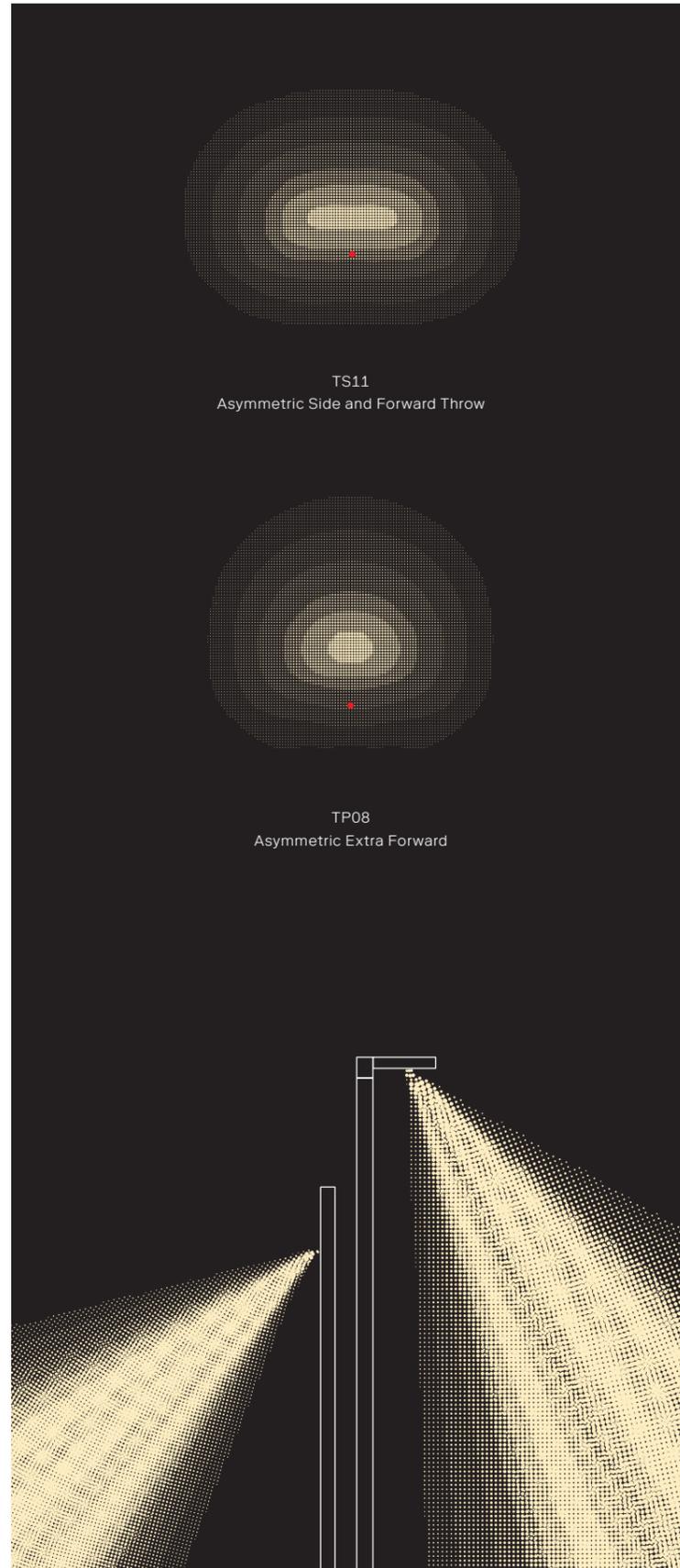
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile

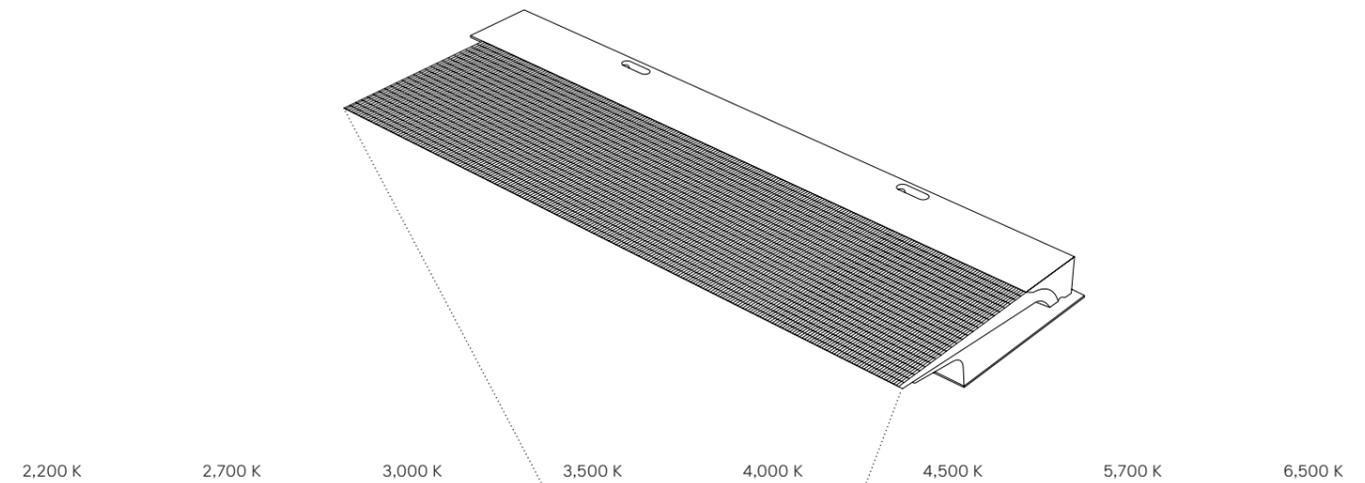


## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

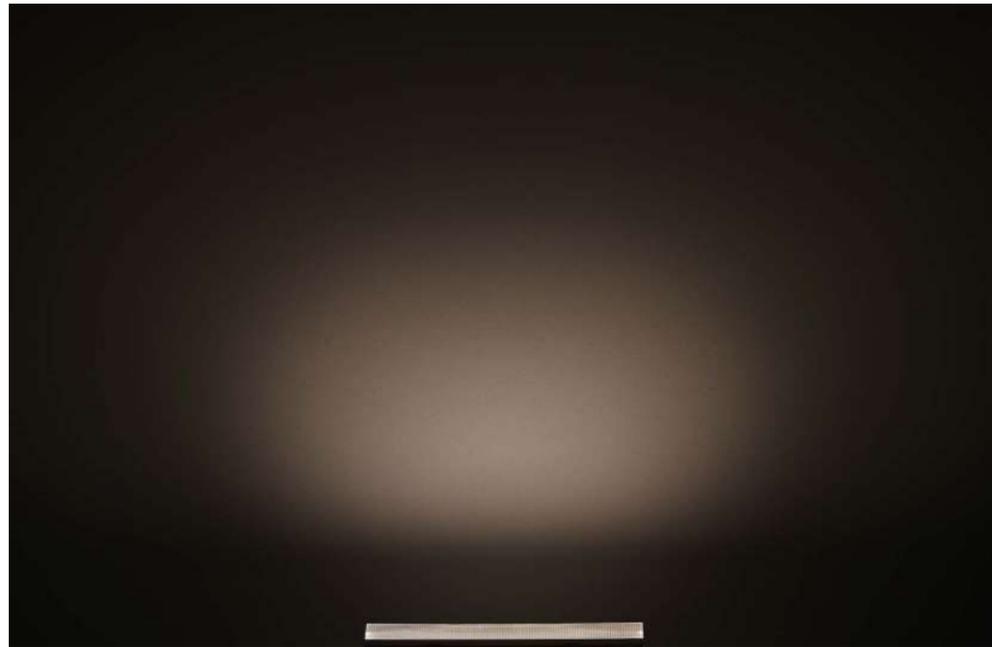
## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

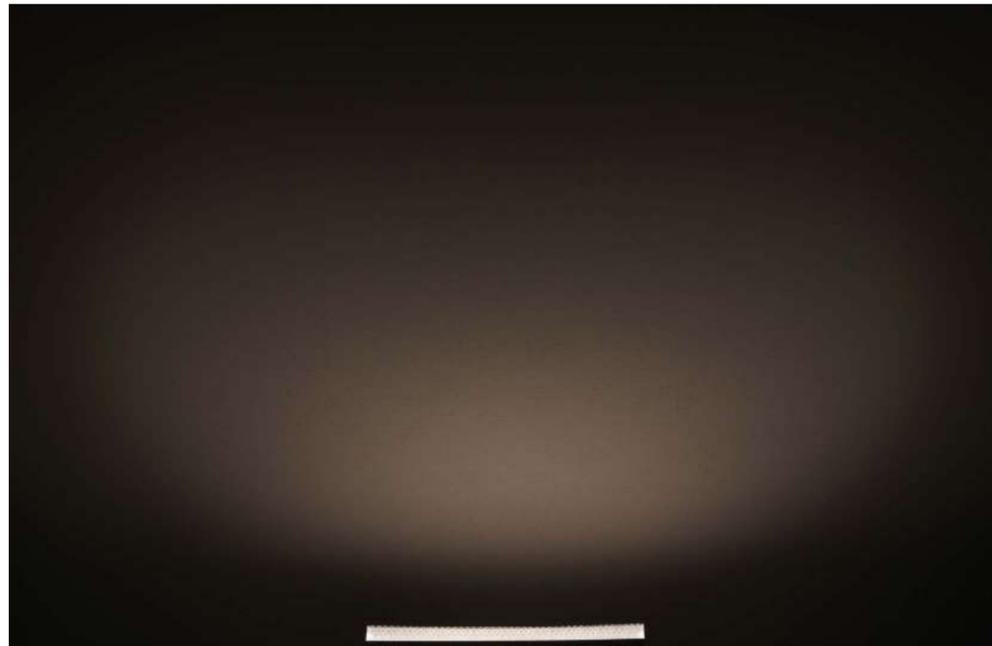


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.

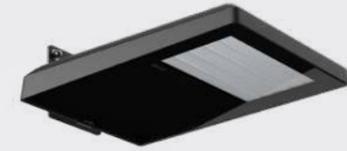


ewoLightTile

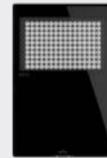


# F-System

F-System M  
F6, F8, F10  
F6-W, F8-W,  
F10-W



Wall-mounted



A-Series



T-Series

F-System S  
F2, F3, F4, F5



Wall-mounted



Single



Double



A-Series



T-Series

F-System XS  
F1-XS, F2-XS, F3-XS



Wall-mounted



Single



Double



A-Series



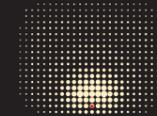
T-Series

A  
SERIES

Precision lens optics  
\* also available in satiné version



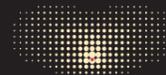
AH02\*  
Symmetric Wide Flood



AP07\*  
Asymmetric Extra Forward



AS06\*  
Asymmetric Extra Side Throw



AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



AS10-L  
Asymmetric Forward – Left



AS10-R  
Asymmetric Forward – Right



Shape your own light by combining  
any light distribution

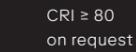
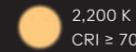
ewoLightLayers – optical accessories to guide light precisely



Backlight shield



Anti glare shield

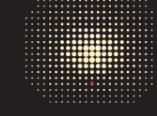


T  
SERIES

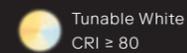
ewoLighTile: low glare light-guiding panels



TS11  
Asymmetric Side and Forward Throw



TP08  
Asymmetric Extra Forward



A  
SERIES

Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
ewo connexx	XX
Zhaga Book 18	Z
Line Switch	LS

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

T  
SERIES

Control protocols

DALI 2 T8	T8 DALI
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Programming options

Night dimming	
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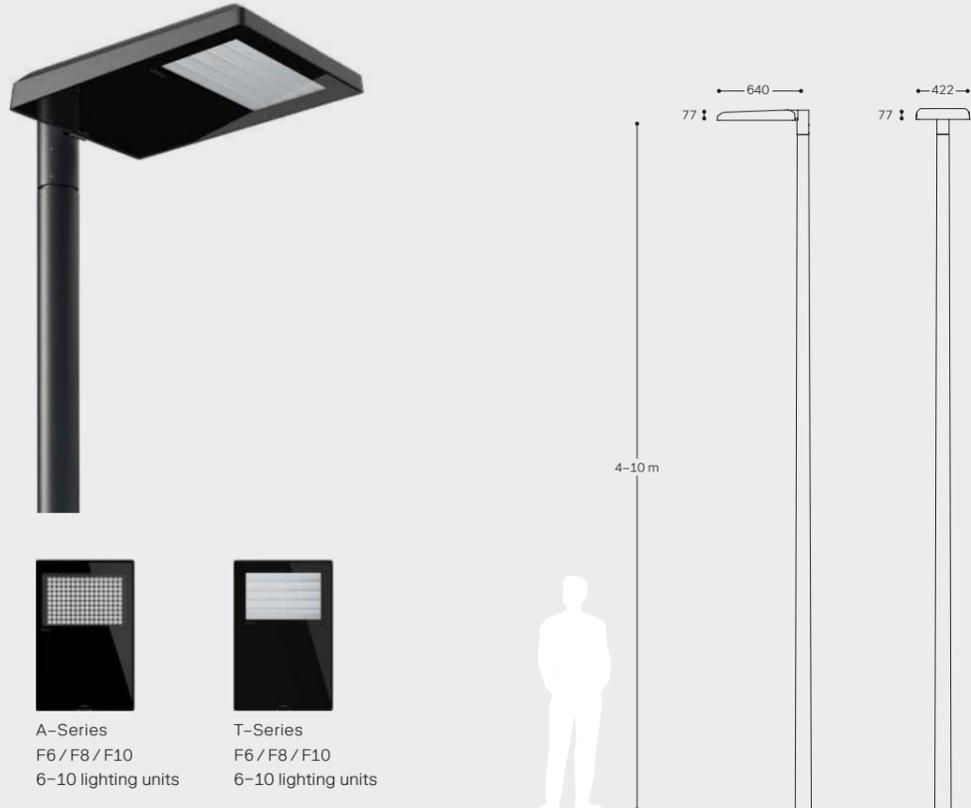
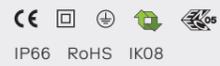
# F-System M

F6, F8, F10

Roads and traffic  
Airports and logistics



Configurator



**A-Series**  
F6 / F8 / F10  
6-10 lighting units

**T-Series**  
F6 / F8 / F10  
6-10 lighting units

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall, bracket
Pole adapter	Aluminum, fixed position, 90° for pole-top ø89 mm, ø114 mm or ø133 mm (single or double design)

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	LPH [m] ①	↑ <sup>⊙</sup>	→ <sup>⊙</sup>	Weight [kg] ④
F6	4-10	0.29	0.07	14.2
F6-W	/	0.27	0.05	13.9
F8	4-10	0.29	0.07	14.4
F8-W	/	0.27	0.05	14.1
F10	4-10	0.29	0.07	14.6
F10-W	/	0.27	0.05	14.3

① in 1 m steps    ② projected windage area [m²]    ③ lateral windage area [m²]    ④ With pole adapter/fixing bracket without power cable (Pole adapter Ø76 fix 1.2 kg/ fixing bracket (-W) 0.9 kg)

## Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	650*	225
LED power max. [W]	295	119

\* F10 max. 600 mA

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

## Driver

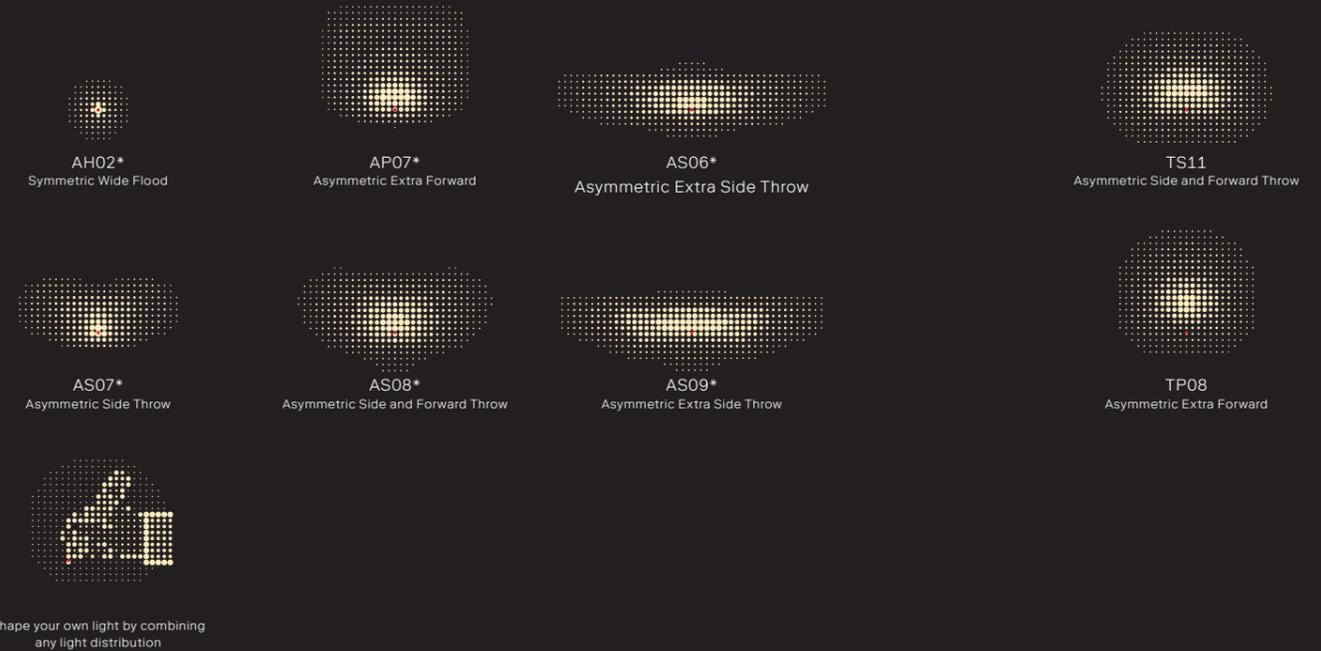
	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z Lys	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels



## Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	TS11	TP08
MacAdam ellipses (SDCM)			≤ 5 SDCM					≤ 5 SDCM

Model	F6/-W	F8/-W	F10/-W	F6/-W	F8/-W	F10/-W
Light units	6	8	10	6	8	10
Luminous flux [lm]	5,700-21,900	7,500-29,200	9,400-34,200	5,500	7,300	9,100

## Accessories



## Available designs



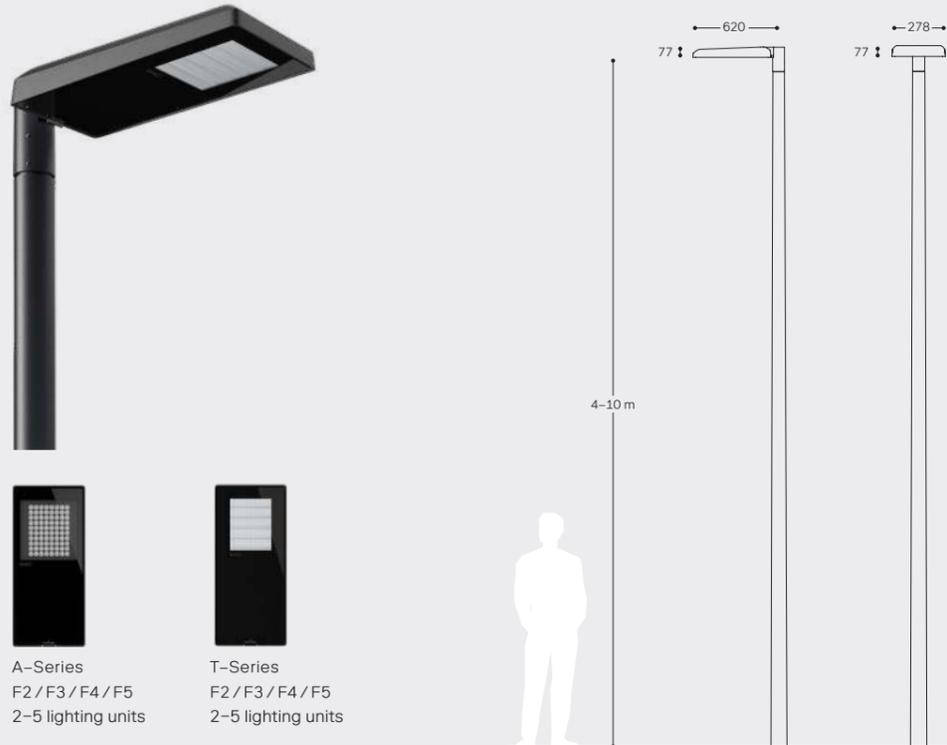
# F-System S

F2, F3, F4, F5

Roads and traffic



Configurator



A-Series F2 / F3 / F4 / F5 2-5 lighting units  
T-Series F2 / F3 / F4 / F5 2-5 lighting units

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole adapter	Aluminum, fixed position, 90° for pole-top ø89 mm, ø114 mm or ø133 mm (single or double design)

## Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	700*	225
LED power [W]	147	60

\* F5 max. 600 mA

## Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z Lys	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Measurements

Model	LPH [m] ①	l <sub>p</sub> ②	-l <sub>p</sub> ③	Weight [kg] ④
F2	4-10	0.19	0.07	10.8
F2-W	/	0.18	0.04	10.5
F3	4-10	0.19	0.07	11.0
F3-W	/	0.18	0.04	10.7
F4	4-10	0.19	0.07	11.2
F4-W	/	0.18	0.04	10.9
F5	4-10	0.19	0.07	11.4
F5-W	/	0.18	0.04	11.1

① in 1 m steps  
② projected windage area [m²]  
③ lateral windage area [m²]  
④ With pole adapter/fixing bracket without power cable (Pole adapter Ø76 fix 1.2 kg/ fixing bracket (-W) 0.9 kg)

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare light-guiding panels

Color and CRI options: 2,200 K CRI ≥ 70, 2,700 K CRI ≥ 70, 3,000 K CRI ≥ 80, 4,000 K CRI ≥ 70, 5,700 K CRI ≥ 70, CRI ≥ 80 on request, Tunable White CRI ≥ 80, RGBW.

## Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)				≤ 5 SDCM					≤ 5 SDCM	

Model	F2/-W	F3/-W	F4/-W	F5/-W	F2/-W	F3/-W	F4/-W	F5/-W
Light units	2	3	4	5	2	3	4	5
Luminous flux [lm]	1,900-8,400	2,900-12,000	3,800-15,500	4,700-17,100	1,800	2,700	3,600	4,600

## Accessories

ewoLightLayers (optical accessories)



## Pole bracket variants



## Available designs



## Glass cover



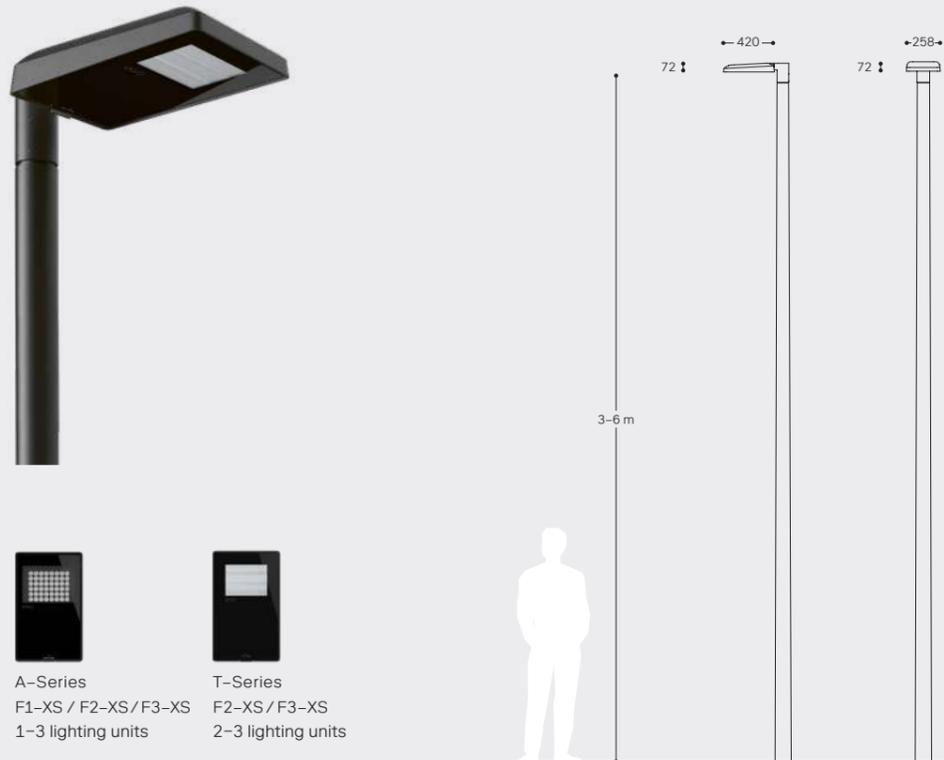
# F-System XS

F1-XS, F2-XS, F3-XS

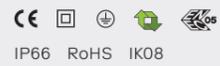
Large area and street lighting



- DB 703 Anthracite
- ewo color



Configurator



A-Series  
F1-XS / F2-XS / F3-XS  
1-3 lighting units

T-Series  
F2-XS / F3-XS  
2-3 lighting units

## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole Adapter	Aluminum, fixed position, 90° for pole-top ø 42 mm, ø 48 mm, ø 60 mm, ø 89 mm, ø 114 mm or ø 133 mm (single or double design) / fixed position, 0° for pole-top ø 42 mm, ø 48 mm or ø 60 mm / adjustable in 5° increments from 0-90°, for pole-top ø 76 mm or ø 60 mm

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	LPH [m] ①	↑ <sup>⊙</sup>	-↑ <sup>⊙</sup>	Weight [kg] ④
F1-XS	3-6	0.13	0.05	7.9
F1-XS-W	/	0.11	0.03	7.6
F2-XS	3-6	0.13	0.05	8.1
F2-XS-W	/	0.11	0.03	7.9
F3-XS	3-6	0.13	0.05	8.3
F3-XS-W	/	0.11	0.03	8.1

① in 1 m steps    ② projected windage area [m<sup>2</sup>]    ③ lateral windage area [m<sup>2</sup>]  
④ With pole adapter/fixing bracket without power cable (Pole adapter Ø76 fix 1.2 kg/ fixing bracket (-W) 0.9 kg)

## Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	700*	225
LED power [W]	145	60

\* F3-XS 650 mA

## Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

## Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z L/S	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare light-guiding panels

## Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)				≤ 5 SDCM					≤ 5 SDCM	

Model	F1-XS/-W	F2-XS/-W	F3-XS/-W	F2-XS/-W	F3-XS/-W
Light units	1	2	3	2	3
Luminous flux [lm]	1,000-4,200	1,900-8,400	2,900-12,000	1,800	2,700

## Accessories

ewoLightLayers (optical accessories)



## Available designs

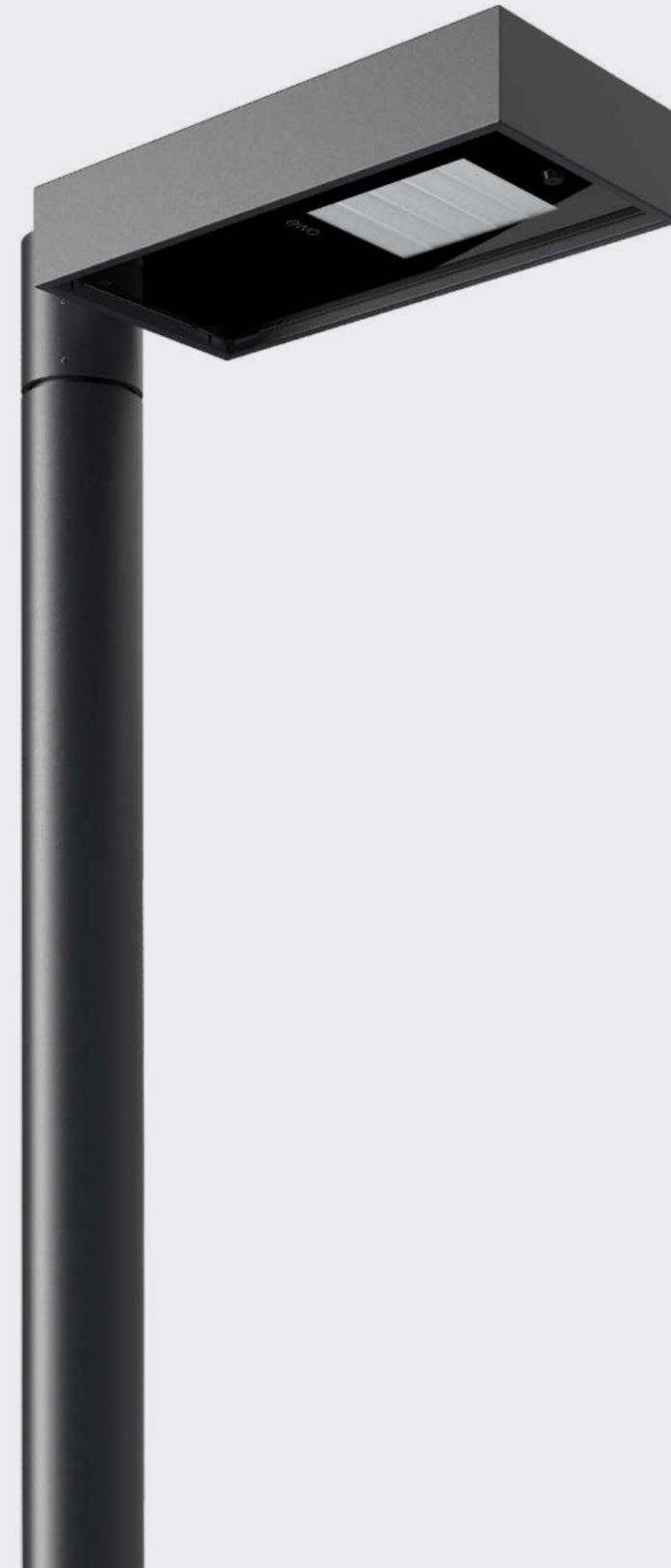


## Glass cover





AREA  
HIGH BAY  
WALKWAYS



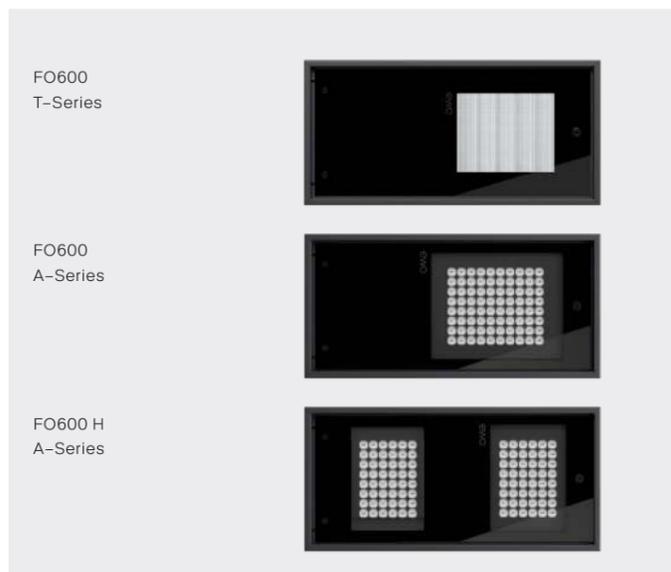
## FO

The FO family of pole and wall mounted luminaires is available with either A-Series high precision lens optics for static white applications or T-Series low glare ewoLightTile for tunable white configurations.

## Body of Light



The body of the FO luminaires can house up to 5 light units, providing various light distributions for area, high bay, street or walkway lighting. Pole and wall mounted luminaires are in two different sizes as FO420 and FO600 (optionally as a double head design available).



## Intelligence of Light



Smart Lighting control modules for different communication standards or external Zhaga interface can optionally be integrated into the luminaire, allowing it to join smart city networks.





PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

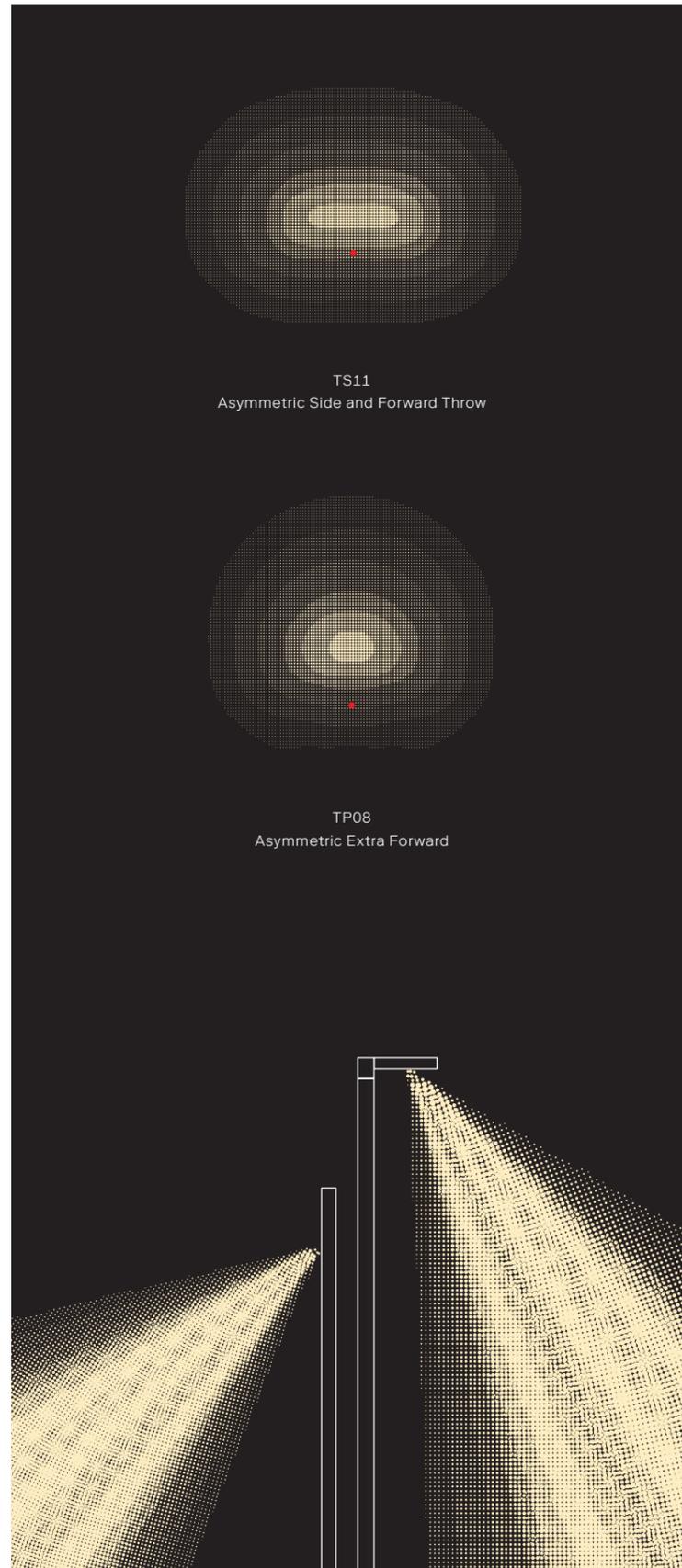
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

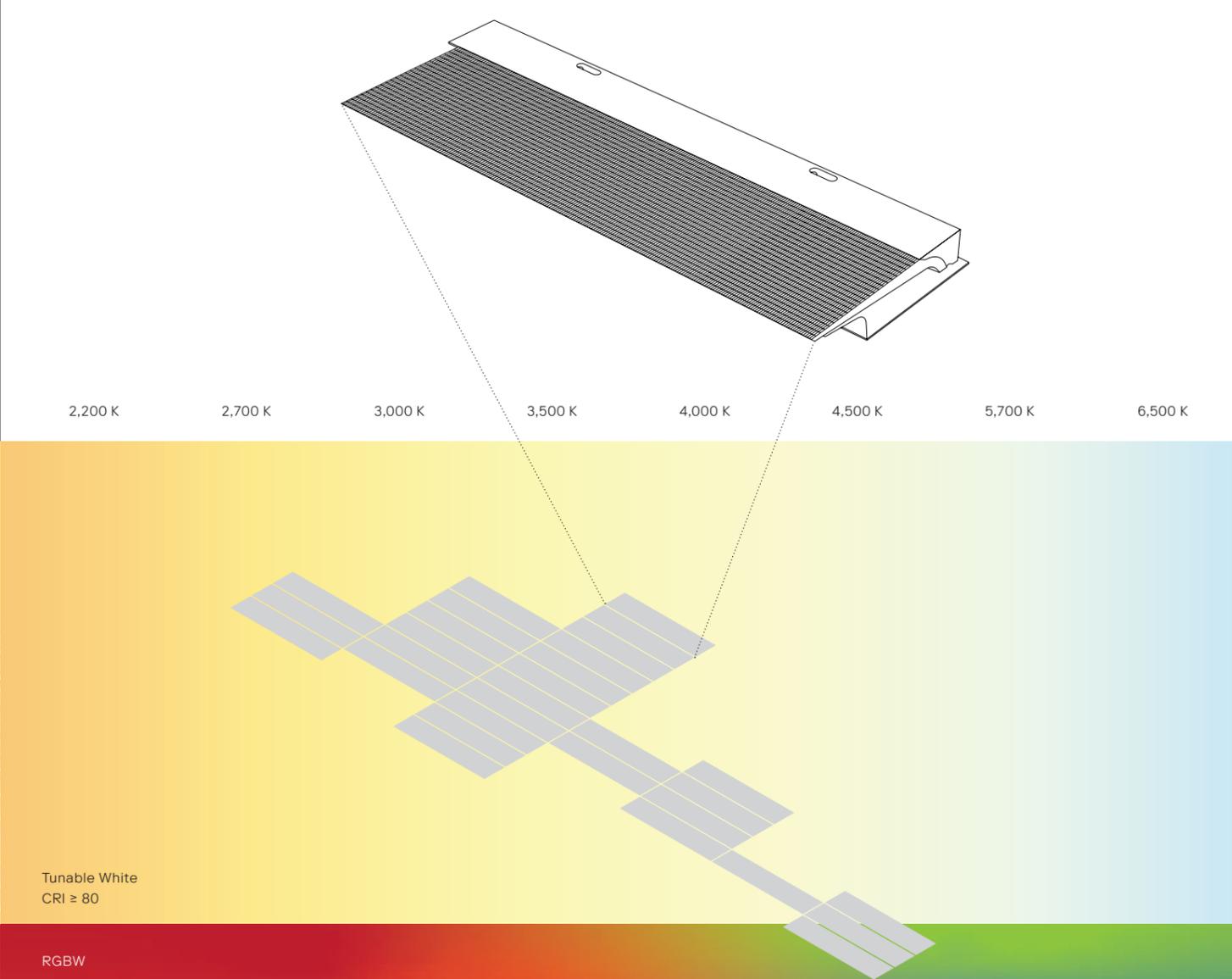
vertical array  
luminous range: 3 x LPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

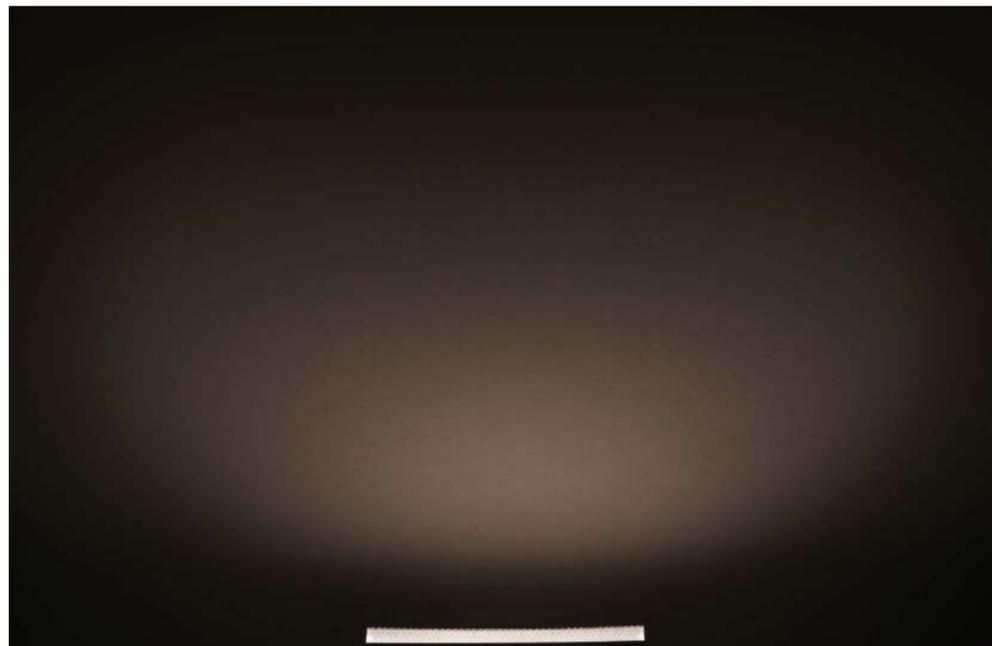


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.

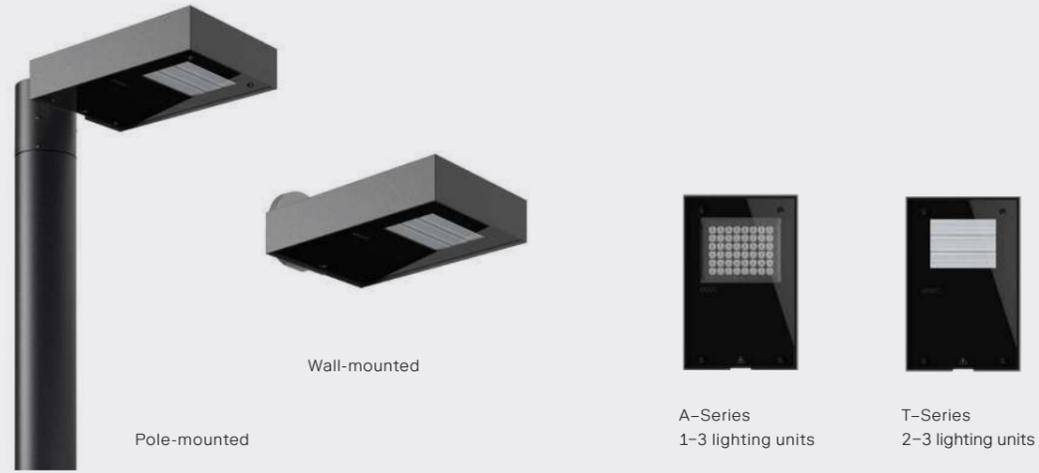


ewoLightTile

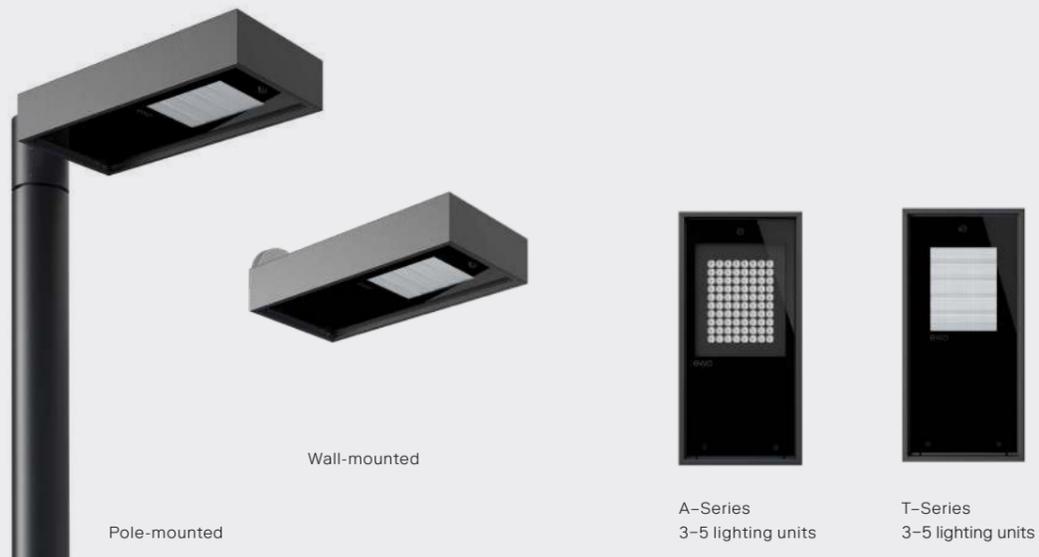
BODY OF LIGHT



FO420  
FO420-W



FO600  
FO600-W

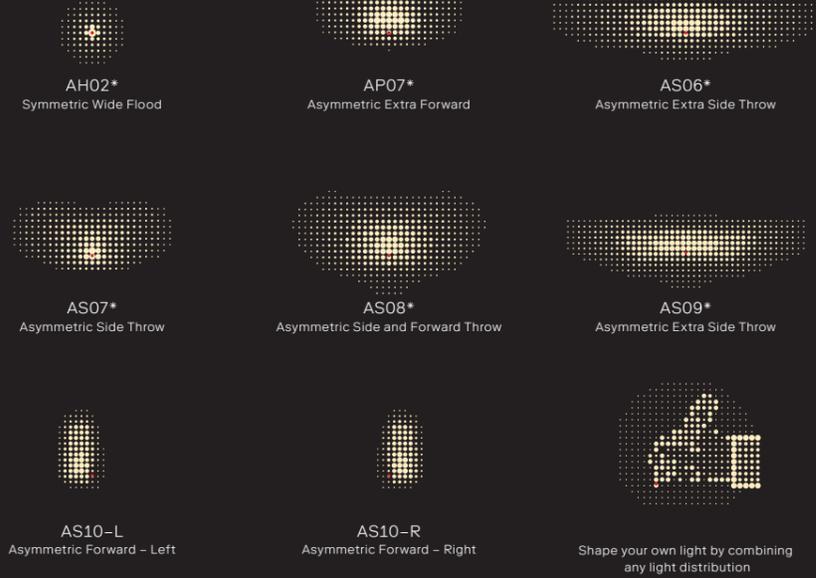


SHAPE OF LIGHT



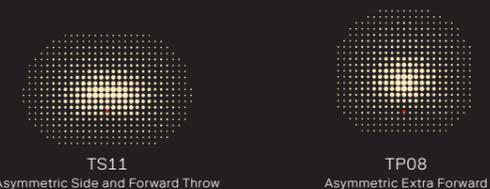
A  
SERIES

Precision lens optics  
\* also available in satiné version



T  
SERIES

ewoLighTile: low glare light-guiding panels



INTELLIGENCE OF LIGHT



A  
SERIES

Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
ewo connexx	XX
Zhaga Book 18	Z
Line Switch	LS

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

T  
SERIES

Control protocols

DALI 2 T8	T8 DALI
-----------	------------

Programming options

Night dimming
---------------

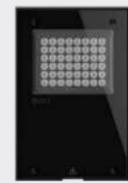
# FO420

FO420  
FO420-W

Public space  
Roads and traffic



- DB 703 Anthracite
- ewo color



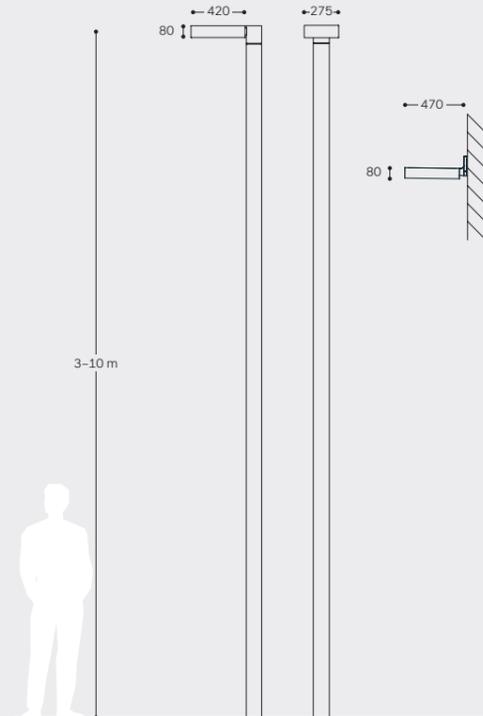
A-Series  
1-3 lighting units



T-Series  
2-3 lighting units

Configurator

- CE, RoHS, IP66, IK08



## Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole adapter	Aluminum, fixed position, 90° for pole-top ø 42 mm, ø 48 mm, ø 60 mm, ø 76 mm, ø 89 mm, ø 114 mm or ø 133 mm (single or double design), fixed position, 0° for pole-top ø 42 mm, ø 48 mm or ø 60 mm, adjustable in 5° increments from 0-90°, for pole-top ø 60 mm or ø 76 mm

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	650	225
LED power max. [W]	95	36

## Driver

	A-Series	T-Series
Control options	ON, OFF, DALI, 1-10V, X, Z, L/S	T8, DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Dimensions

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>w</sup> ③	Weight [kg]
FO420	3-10	0.11	0.06	11.0
FO420-W	/	0.12	0.05	10.0

① in 0.1 m steps    ② projected windage area [m<sup>2</sup>]    ③ lateral windage area [m<sup>2</sup>]

## Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels

Shape your own light by combining any light distribution

- 2,200 K CRI ≥ 70
- 2,700 K CRI ≥ 70
- 3,000 K CRI ≥ 80
- 4,000 K CRI ≥ 70
- 5,700 K CRI ≥ 70
- CRI ≥ 80 on request
- Tunable White CRI ≥ 80
- RGBW

## Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)					≤ 5 SDCM					≤ 5 SDCM

Model	FO420/-W	FO420/-W
Light units	1-3	2-3
Luminous flux [lm]	1,000-10,900	1,800-2,700

## Accessories

ewoLightLayers (optical accessories)



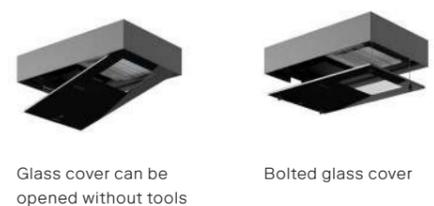
## Pole bracket variants



## Available designs



## Glass cover



# FO600

FO600  
FO600-W

Public space  
Roads and traffic



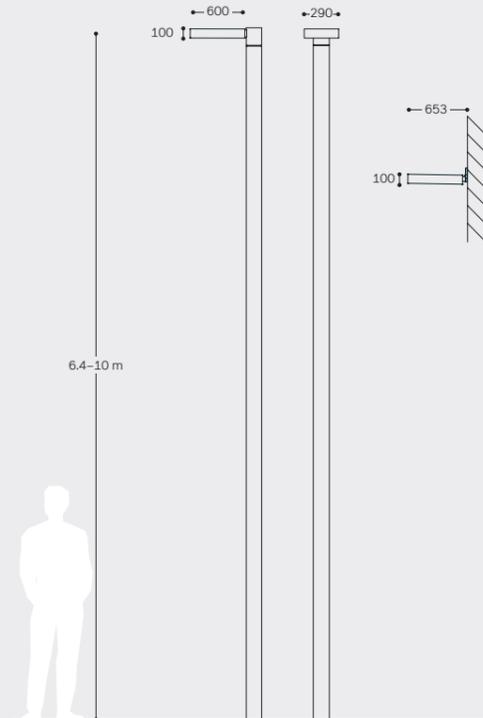
- DB 703 Anthracite
- ewo color



A-Series  
3-5 lighting units



T-Series  
3-5 lighting units



Configurator

- CE, RoHS, IP66, IK08

Housing

Housing material	Stainless steel
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole adapter	Aluminum, fixed position, 90° for pole-top ø 60 mm, ø 76 mm, ø 114 mm or ø 133 mm (single or double design)

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sub>p</sub> ②	-l <sub>p</sub> ③	Weight [kg]
FO600	6.4-10	0.19	0.08	17.0
FO600-W	/	0.18	0.06	18.0

① in 0.1 m steps    ② projected windage area [m<sup>2</sup>]    ③ lateral windage area [m<sup>2</sup>]

Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	550	225
LED power max. [W]	135	60

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON, OFF, DALI, 1-10V, X, Z, Lys	T8, DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

A SERIES

Precision lens optics  
\* also available in satiné version

T SERIES

ewoLightTile: low glare light-guiding panels

- 2,200 K CRI ≥ 70
- 2,700 K CRI ≥ 70
- 3,000 K CRI ≥ 70/80
- 4,000 K CRI ≥ 70
- 5,700 K CRI ≥ 70
- CRI ≥ 80 on request
- Tunable White CRI ≥ 80
- RGBW

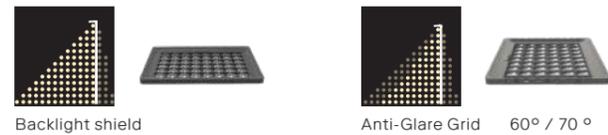
Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)					≤ 5 SDCM					≤ 5 SDCM

Model	FO600/-W	FO600/-W
Light units	3-5	3-5
Luminous flux [lm]	2,900-15,900	4,600

Accessories

ewoLightLayers (optical accessories)



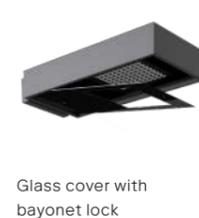
Pole bracket variants



Available designs



Glass cover



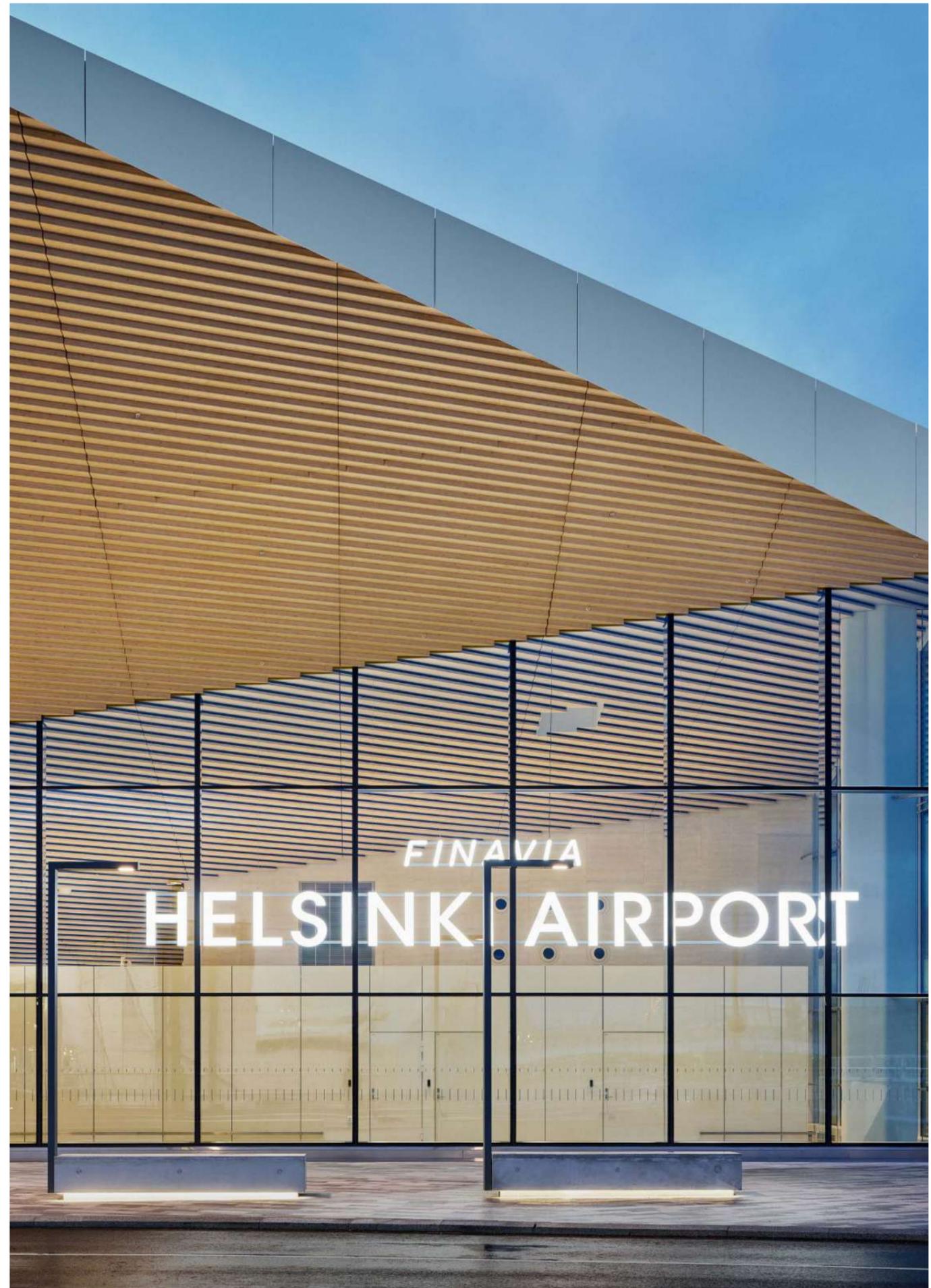


PUBLIC SPACE  
ROADS AND TRAFFIC

## FA

The FA family of products is a versatile lighting system available as pole mounted systems, bollards and wall luminaires, helping to create a consistent design language across urban spaces. The FA family utilises two main optical systems. High precision A-Series lenses ideal for applications including street, area, walkway lighting and pedestrian crossings. And T-Series lenses, also known as ewoLightTile, offering maximum visual comfort with LEDs hidden inside, making it ideal for vertical optic elements that sit in the pole of the FA luminaire. With tunable white options and smart control, the FA can significantly contribute to empowering wellbeing outdoors.

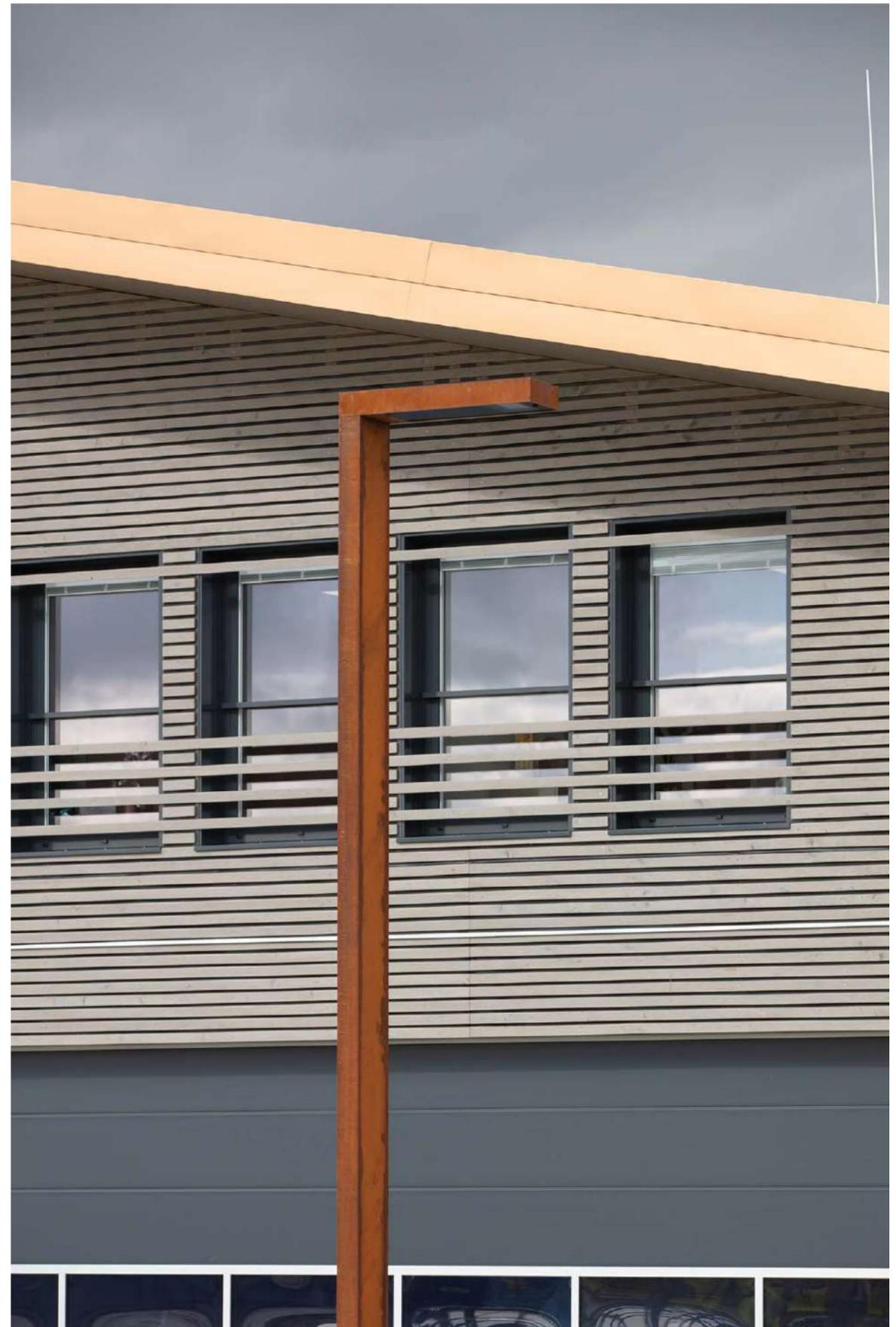




GRIES EAST RESIDENTIAL AREA  
Gries (BZ), Italy, 2021  
FA



BÄCKEREI KASPROWICZ  
Pahl, Germany, 2020  
SL-Elektroplanung, Nürnberg – Lichttechnik, Johann Lichtl  
FA



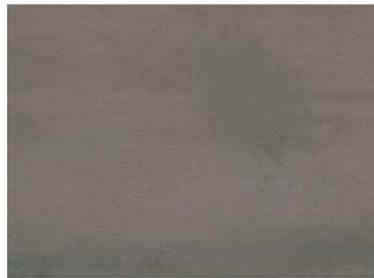


Skins + protection

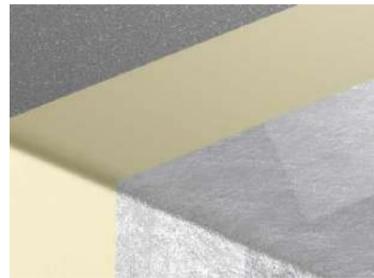
With different finishes and materials FA is prepared to match modern architecture and urban landscapes.



COR-TEN



RAW STEEL

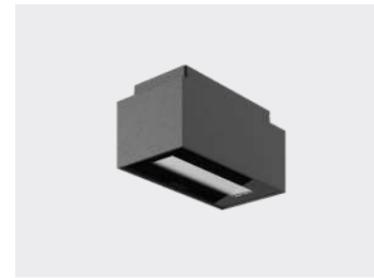


ewoECP

Protect and clothe your FA luminaire with rough COR-TEN, pure raw steel or with the internally developed ewoECP treatment for additional extra anti corrosion protection (ewoECP).

Forms + combinations

The design of the FA family pole luminaire allows for double or single variants. Integration of an EL unit as vertical alignment is also possible.



CEILING FA100-C



WALL DOWNLIGHT FA100-WD



WALL UPLIGHT FA100-WU

The clear design language has been extended to ceiling luminaires and wall luminaires and provides you with a wide range of elements that allow you to cover many areas of lighting planning in a coherent design with one family.



PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

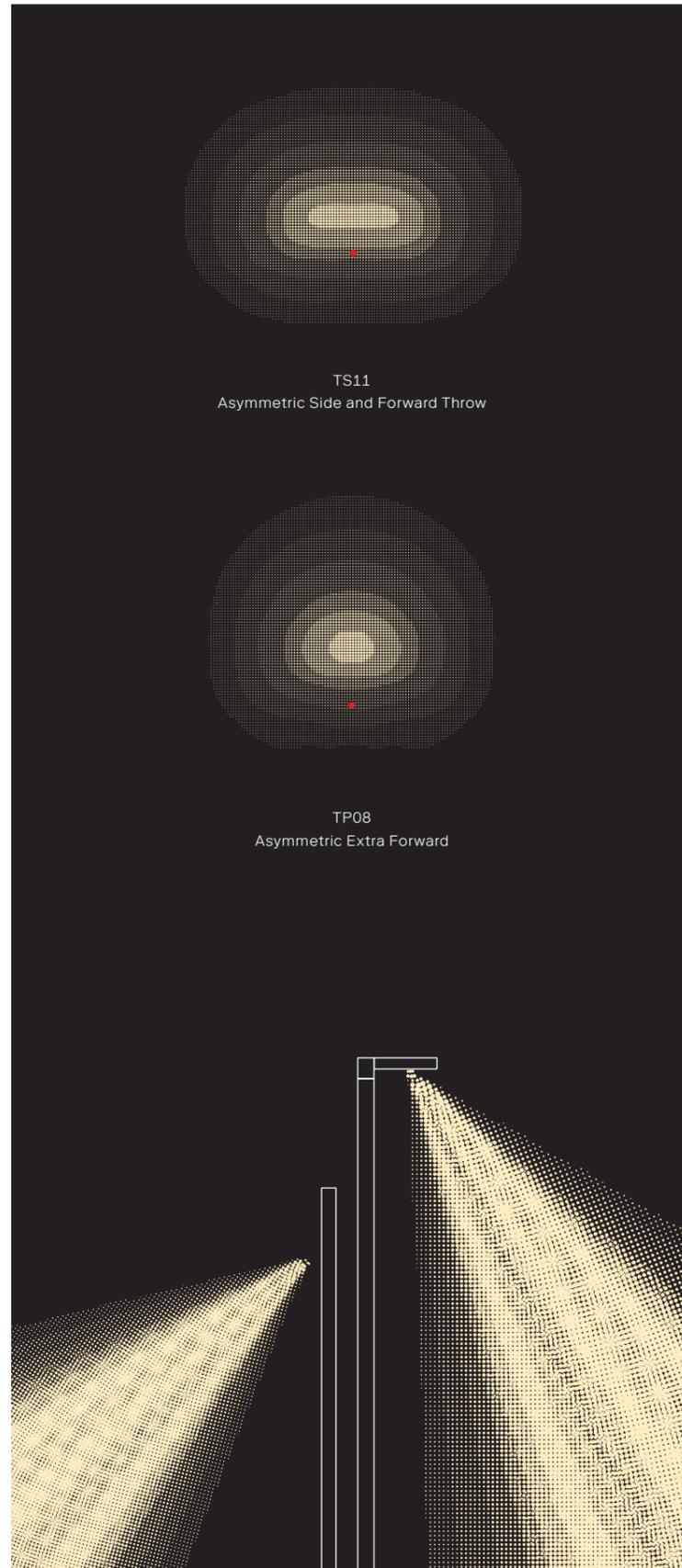
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

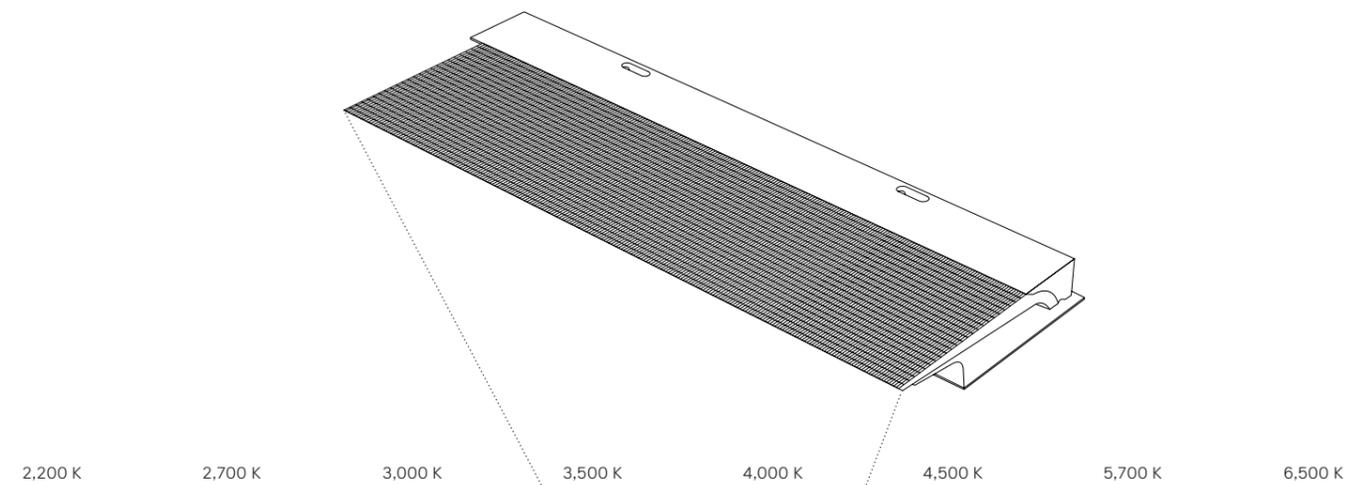
vertical array  
luminous range: 3 x LPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

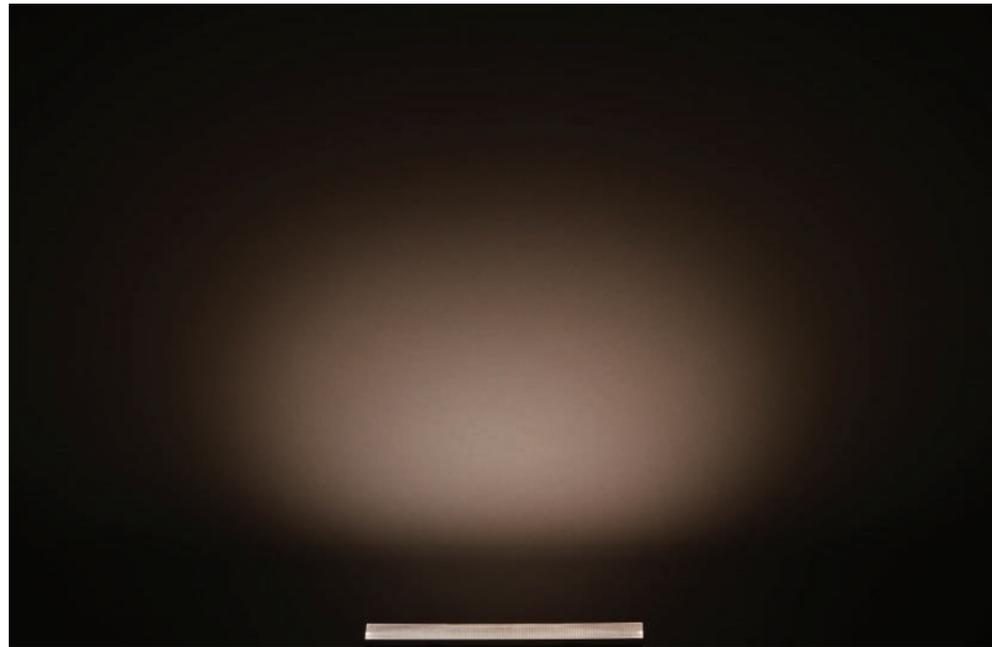
## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

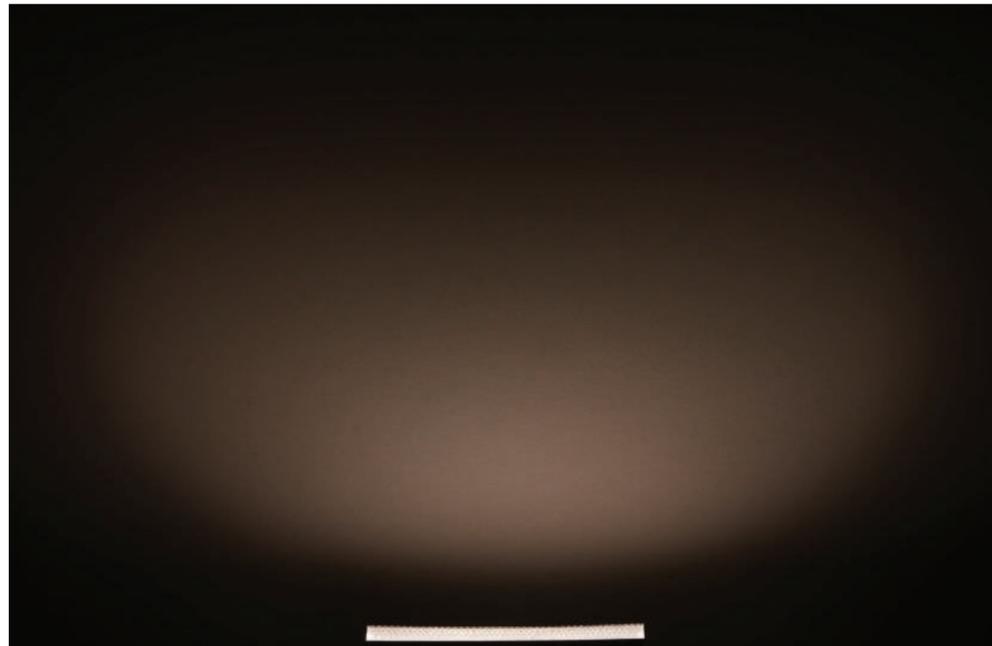


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.



ewoLightTile

FA

BODY OF LIGHT



SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



FA770  
FA770-W  
FA1070



A-Series FA770 1-4 LU    A-Series FA1070 5-6 LU  
T-Series FA770 2-4 LU    T-Series FA1070 5-6 LU

FA170



A-Series 8 LEDs    A-Series 16 LEDs    T-Series 32 LEDs

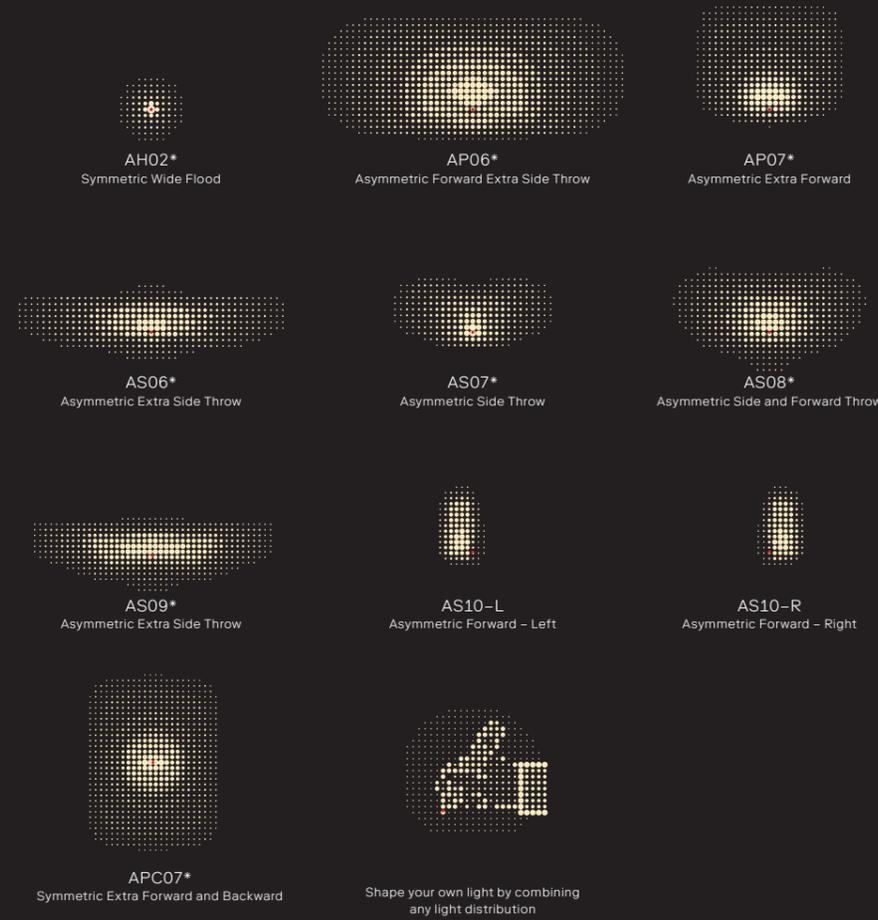
FA100-C,  
FA100-WD,  
FA100-U



A-Series 8 LEDs    A-Series 16 LEDs    T-Series 32 LEDs

A  
SERIES

Precision lens optics  
\* also available in satiné version



AH02\* Symmetric Wide Flood  
AP06\* Asymmetric Forward Extra Side Throw  
AP07\* Asymmetric Extra Forward  
AS06\* Asymmetric Extra Side Throw  
AS07\* Asymmetric Side Throw  
AS08\* Asymmetric Side and Forward Throw  
AS09\* Asymmetric Extra Side Throw  
AS10-L Asymmetric Forward - Left  
AS10-R Asymmetric Forward - Right  
APC07\* Symmetric Extra Forward and Backward  
Shape your own light by combining any light distribution

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request

T  
SERIES

ewoLighTile: low glare light-guiding panels



TS11 Asymmetric Side and Forward Throw  
TP08 Asymmetric Extra Forward

Tunable White CRI ≥ 80    RGBW

A  
SERIES

Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
ewo connexx	XX
Zhaga Book 18	Z
Line Switch	LS

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

T  
SERIES

Control protocols

DALI 2 T8	T8 DALI
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Programming options

Night dimming
---------------

FA770  
FA770-W  
FA1070

Public space  
Roads and traffic  
Pedestrian path  
Accent lighting



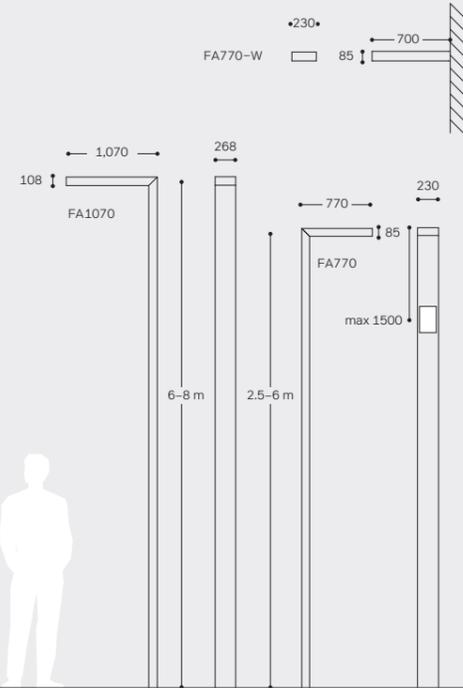
- DB 703 Anthracite
- ewo color



A-Series 1-6 lighting units  
T-Series 2-6 lighting units

Configurator

- IP66 RoHS IK08



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels

- 2,200 K CRI ≥ 70
- 2,700 K CRI ≥ 70
- 3,000 K CRI ≥ 80
- 4,000 K CRI ≥ 70
- 5,700 K CRI ≥ 70
- CRI ≥ 80 on request
- Tunable White CRI ≥ 80
- RGBW

Housing

Housing material	Extruded aluminium profile (optional COR-TEN steel)	
Housing finish	Polyester powder coating (ewoECP upon request**)	
Finish standard colour	Silver grey (RAL 9007 / DB 702)*	
Glass	Safety glass (ESG)	
Mounting options	Pole, wall	
	* other color on request	
	** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance (except 1070)	

Measurements

Model	LPH [m] ①	l <sub>p</sub> ②	-l <sub>p</sub> ③	Weight [kg] ④
FA770	2.5-6	0.18	1.38	95.0*
FA770-W	/	0.16	0.06	14.5
FA1070	6-8	0.29	2.14	176.0**

① in 0.5 m steps    ② projected windage area [m<sup>2</sup>]    ③ max. weight  
④ lateral windage area [m<sup>2</sup>]    ④④ pole included

\* single version with aluminium pole LPH = 6 m and telescopic element with anchor cage  
\*\* single version with aluminium pole LPH = 8 m and telescopic element with anchor cage

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)				≤ 5 SDCM					≤ 5 SDCM	

Model	FA770/-W	FA1070	FA770/-W	FA1070
Light units	1-5	5-6	2-4	5-6
Luminous flux [lm]	1,000-18,800	4,700-19,100	4,100	5,500

Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	700*	225
LED power max. [W]	160	71

\* FA1070 max. 550 mA

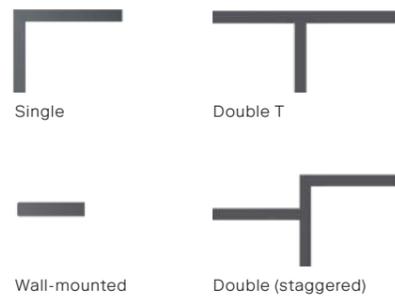
Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z L/S	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

Available designs (also available as pendant)

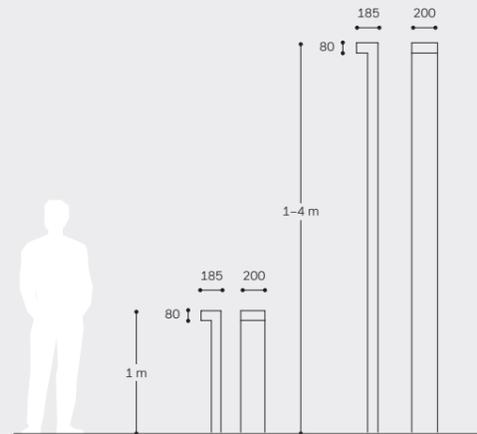


Product variations



BOLLARDS  
FA170

Pedestrian path  
Accent lighting



Configurator

CE RoHS IK09\*  
\*(IK10 on request, COR-TEN IK08)

Housing

Housing material	Aluminum die-cast* (A-Series: optional COR-TEN)
Housing finish	Polyester powder coating (ewoECP upon request***)
Finish standard colour	Silver grey (RAL 9007 / DB 702)**
Glass	Safety glass (ESG)
Mounting options	Pole
Installation	Gelbox for throughwiring upon request * pole made of extruded aluminium profile ** other color on request *** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sub>p</sub> ②	-l <sub>p</sub> ③	Weight [kg] ④
FA170	1	0.04	0.20	18.5*
FA170	1-4	0.04	0.80	46.5**

① in 0.5 m steps    ② projected windage area [m<sup>2</sup>]    ③ max. weight  
④ lateral windage area [m<sup>2</sup>]    ⑤ pole included

\* single version with aluminium pole LPH = 1 m and buried base  
\*\* single version with aluminium pole LPH = 4 m and buried base

Electrical

	A-Series	T-Series
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	500	225
LED power max. [W]	26	12

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V LS	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels

Shape your own light by combining any light distribution

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    CRI ≥ 80 on request    Tunable White CRI ≥ 80    RGBW

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	TS11	TP08
MacAdam ellipses (SDCM)					≤ 5 SDCM			≤ 5 SDCM

Model	FA170	FA170
Light units	1	1
Luminous flux [lm]	340-2,590	1,000

Accessories

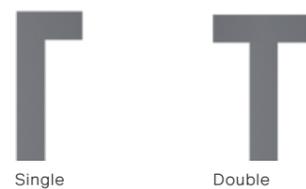
ewoLightLayers (optical accessories)



Surface



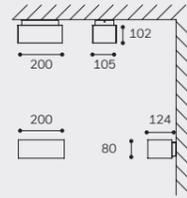
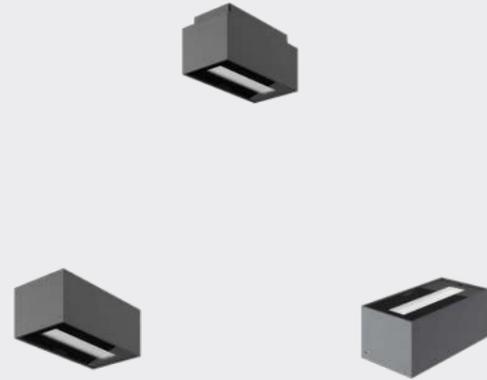
Available designs



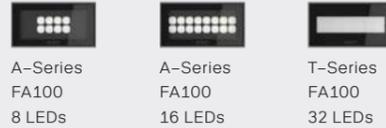
FA

WALL / CEILING

FA100-C  
FA100-WD  
FA100-WU



Configurator



IP66 RoHS IK09\*  
\*(IK10 on request)

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Silver grey (RAL 9007 / DB 702)*
Glass	Safety glass (ESG)
Mounting options	Wall, ceiling
Installation	Gelbox for throughwiring upon request

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	⊕ <sup>⊙</sup> ②	-⊖ <sup>⊙</sup> ③	Weight [kg] ④
FA100-WD	/	0.02	0.02	2.5
FA100-WU	/	0.02	0.02	2.5
FA100-C	/	/	0.02	2.5

② projected windage area [m<sup>2</sup>]    ④ max. weight  
③ lateral windage area [m<sup>2</sup>]

Electrical

	A-Series	T-Series
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	500	225
LED power max. [W]	26	12

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V L/S	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels

Performance

Optics	AH02	AP07	APC07	AS06	AS07	AS08	AS09	TS11	TP08
MacAdam ellipses (SDCM)						≤ 5 SDCM			≤ 5 SDCM

Model	FA100-WD	FA100-WU	FA100-C	FA100-WD	FA100-WU	FA100-C
Light units	1	1	1	1	1	1
Luminous flux [lm]	315-3,250	315-3,250	420-3,300	1,000	1,000	1,000

Accessories

ewoLightLayers (optical accessories)



Available designs



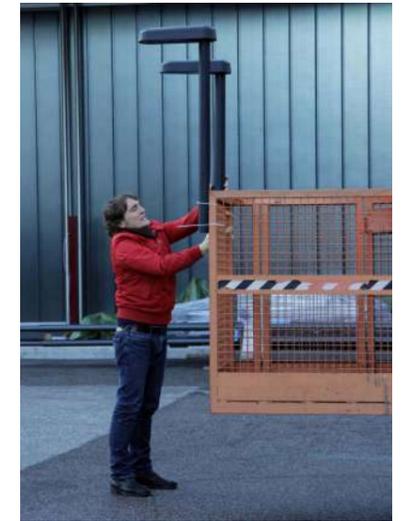
**A**  
SERIESPUBLIC SPACE  
ROADS AND TRAFFIC

## GO

Designed by Zurich based product designer Joerg Boner, the GO family of compact luminaires includes pole mounted and wall mounted systems featuring its signature curved luminaire body. To complement this curve, the GO luminaires are available with a curved safety glass, mirroring the shape of the body, and catching the light as it exits the luminaire, creating a visible sparkle. The safety glass can also be configured to be mounted flush to the luminaire, for enhanced light control and visual comfort. Available with A-Series high precision lens optics and controllable with DALI or 1-10 V, this luminaire is ideal for urban applications.



Jörg Boner working on the GO



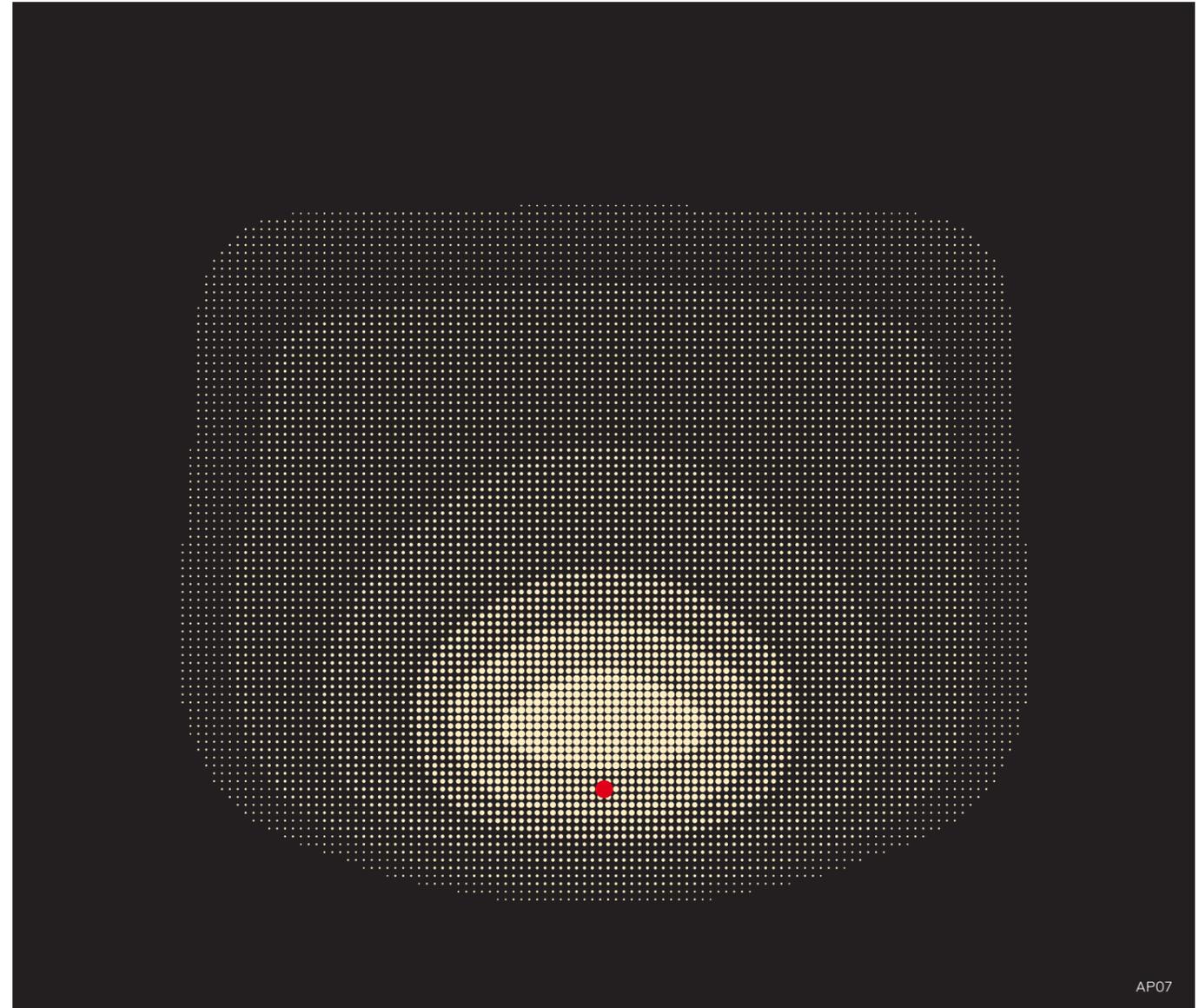
Body of Light



Shape of Light



High quality optics  
The GO family is compatible with A-Series precision lens optics and is the ideal choice for street and pavement lighting.



AP07

BODY OF LIGHT



SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



POLE



GO  
1 lighting unit

WALL



Single-pane safety  
glass



GO  
1 lighting unit



Precision lens optics  
\* also available in satiné version



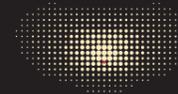
AP07\*  
Asymmetric Extra Forward



AS06\*  
Asymmetric Extra Side Throw



AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



Shape your own light by combining  
any light distribution



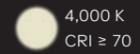
2,200 K  
CRI ≥ 70



2,700 K  
CRI ≥ 70



3,000 K  
CRI ≥ 80



4,000 K  
CRI ≥ 70



5,700 K  
CRI ≥ 70

CRI ≥ 80  
on request



Control protocols

ON/OFF	
DALI 2	
1-10 V	
Line Switch	

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

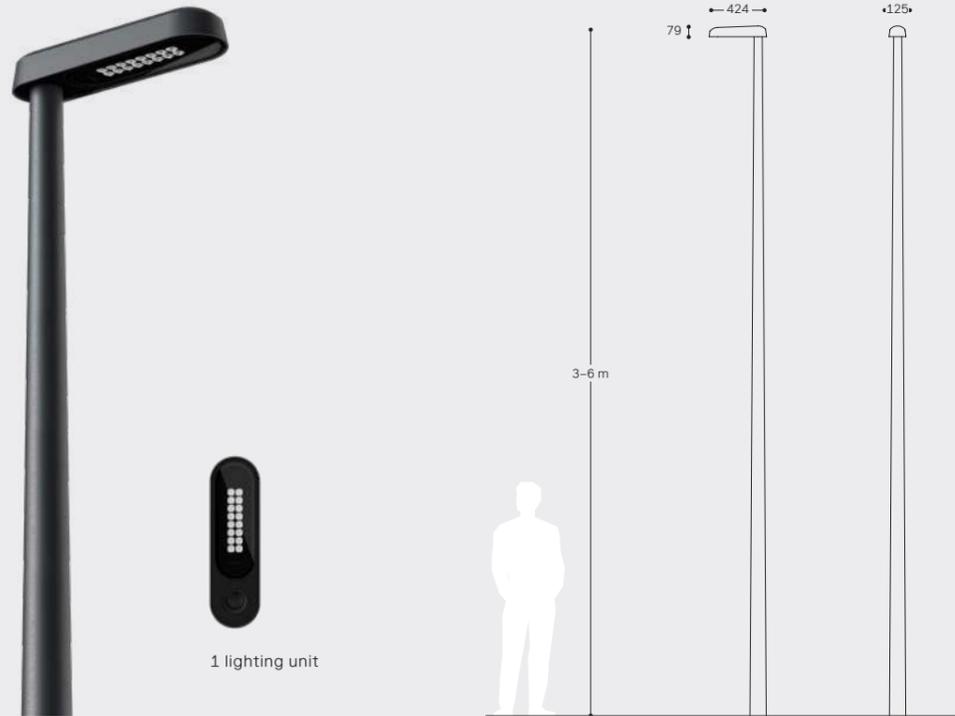
POLE

Area, street and walkway lighting



DB 703 Anthracite

ewo color



1 lighting unit

Configurator

IP66 RoHS IK08

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating or vibratory-finished aluminum
Finish standard colour	Anthracite (DB 703)*
Glass cover	Safety glass (ESG) or curved cover
Mounting options	Pole
Pole adapter	ø60mm, optional adapter for ø76mm * other color on request

Electrical

A-Series

Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	650
LED power max. [W]	34

Driver

A-Series

Control options	ON OFF DALI 1-10V L/S
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connex light management software for remote management of intelligent luminaire clusters

Measurements

Model	LPH [m] ①	↑ <sup>Ⓜ</sup> ②	-↑ <sup>Ⓜ</sup> ③	Weight [kg]
GO	3-6	0.05	0.03	6.5
GO-W	/	0.05	0.03	5.0

① in 0.5 m steps    ② projected windage area [m<sup>2</sup>]  
③ lateral windage area [m<sup>2</sup>]

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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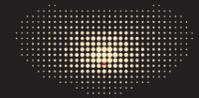
Precision lens optics  
\* also available in satiné version



AP07\*  
Asymmetric Extra Forward

AS06\*  
Asymmetric Extra Side Throw

AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



Shape your own light by combining any light distribution

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request

Performance

Optics	AP07	AS06	AS07	AS08	AS09
MacAdam ellipses (SDCM)			≤ 5 SDCM		

Model	GO
Light units	1
Luminous flux [lm]	900-3,500

Accessories

ewoLightLayers (optical accessories)



Backlight shield



Anti-Glare Grid 60° / 70°

Surface



Polyester powder-coated housing and pole, anthracite (DB 703)



Vibratory-finished aluminium housing, pole made from hot-dip galvanised steel

Cover design



Single-pane safety glass

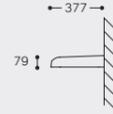
WALL  
GO-W

Area, street and  
walkway lighting



DB 703  
Anthracite

ewo  
color



GO  
1 lighting unit

Configurator

CE RoHS IK08

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating or vibratory-finished aluminum
Finish standard colour	Anthracite (DB 703)*
Glass cover	Safety glass (ESG) or curved cover
Mounting options	Wall
Pole adapter	ø 60mm, optional adapter for ø 76mm * other color on request

Electrical

A-Series

Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	650
LED power max. [W]	34

Driver

A-Series

Control options	ON OFF DALI 1-10V L/S
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connexx light management software for remote management of intelligent luminaire clusters

Measurements

Model	LPH [m]	⊕ <sup>1</sup>	⊖ <sup>2</sup>	Weight [kg]
GO-W	/	0.05	0.03	6.5

<sup>1</sup> projected windage area [m<sup>2</sup>]  
<sup>2</sup> lateral windage area [m<sup>2</sup>]

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--



Precision lens optics  
\* also available in satiné version



AP07\*  
Asymmetric Extra Forward



AS06\*  
Asymmetric Extra Side Throw



AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



Shape your own light by combining any light distribution

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request

Performance

Optics	AP07	AS06	AS07	AS08	AS09
MacAdam ellipses (SDCM)			≤ 5 SDCM		

Model	GO-W
Light units	1
Luminous flux [lm]	900-3,500

Accessories

ewoLightLayers (optical accessories)



Backlight shield



Anti-Glare Grid 60° / 70°

Surface



Polyester powder-coated housing and pole, anthracite (DB 703)



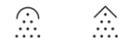
Vibratory-finished aluminium housing, pole made from hot-dip galvanised steel

Cover design



Safety glass (ESG)

BODY OF LIGHT



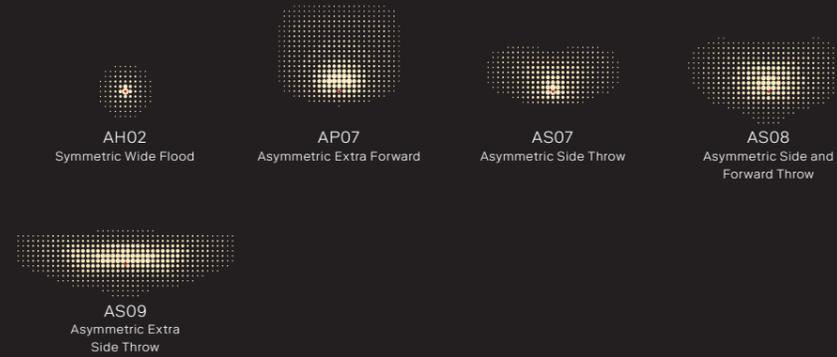
SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



A  
SERIES



GLOW



Glow

Monochrome

Control protocols

ON/OFF	
DALI 2	
Zaga Book 18	
ewo connexx	
Line Switch	

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

Monochrome

Control protocols

DALI 2	
ewo connexx	

RGBW

Control protocols

DALI 8	
ewo connexx	
DMX	

# ECLIPSE

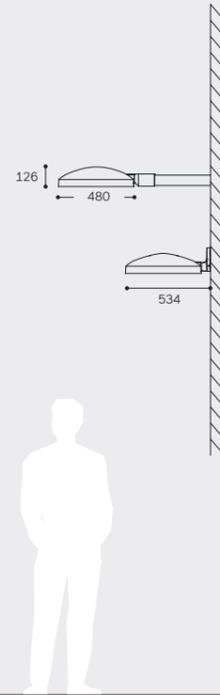
## ECLIPSE

Wall luminaire  
Pole mounted system  
Rope suspension



[Configurator](#)

CE IP66 RoHS IK08



**Functional**

AH02 Symmetric Wide Flood

AP07 Asymmetric Extra Forward

AS07 Asymmetric Side Throw

AS08 Asymmetric Side and Forward Throw

AS09 Asymmetric Extra Side Throw

Glow

**Glow - Lighting**

2.500 K CRI ≥ 70\*

2.200 K CRI ≥ 70\*

2.700 K CRI ≥ 70\*

3.000 K CRI ≥ 70\*

4.000 K CRI ≥ 70\*

\* additional light colors on request

Housing	
Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request*)
Finish standard colors	ewo colors
Glass	Safety glass (ESG)
Mounting options	Pole, wall, surface

\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements		
Model	⊕ ⊙	⊖ ⊙
ECLIPSE	0.18*	0.046*
	⊙ projected windage area [m²]	⊙ lateral windage area [m²]
		* without accessories and mounting types

Operating conditions	
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options

Performance							
Distribution	AH02	AP07	AS07	AS08	AS09	Glow	Glow RGBW
Elliissi di MacAdam	≤ 5 SDCM						
Luminous flux [lm] 4,000 K						8,530	
Luminous flux [lm] 2,200 K						490	
Luminous flux [lm] 2,500 K							490

	Monochrome		RGBW
	Funzionale	Glow	Glow
Protection class	SKI / SKII	SKI / SKII	SKI
Voltage [V], [Hz]	220-240, 50/60		
LED nr.	8-32	64	66
Current max. [mA]	700	50	50
Power max. [W]	74,0	9,6	9,6

Driver	Monochrome	Glow Monochrome	Glow RGBW
Control Options	ON OFF DALI L/S X X Z	DALI X X	T8 DALI X X DMX
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone		
Control accessories	Further accessories on request		
Software	connexx light management software for remote management of intelligent luminaire clusters (on request)		

Accessories	Cover types	Mounting types				
<p>Decorum*</p> <p>* field installable</p>	<p>Round</p>	<p>Pole lateral</p> <p>Ø60 Ø76 Ø114</p>	<p>Pole horizontal</p> <p>Ø42 Ø60 Ø76</p>	<p>Pole central</p> <p>Ø60 Ø76</p>	<p>Wall</p>	<p>Suspension</p>
<p>PIR-Sensor</p>						



WAYS  
ACCENTS  
BUILDINGS

## CN

Thanks to its flat, round luminaire head and four freely configurable light outlets, the CN product family is ideal for illuminating open spaces, roads, sidewalks and crosswalks. The pole mount is in the center. The two sizes with diameters of 480 mm and 600 mm can be configured with the high-precision lens optics of the A-Series.



PARCO PIAZZALE DEGLI ALPINI  
Bergamo, Italy, 2019  
&GO Lighting Solutions  
CN



GEMEINDEKULTURZENTRUM ST. NIKOLAUS  
Ischgl, Austria, 2015  
CN



BODY OF LIGHT



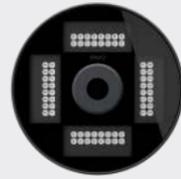
SHAPE OF LIGHT



INTELLIGENCE OF LIGHT

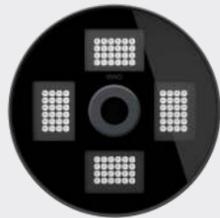


CN480



A-Series  
1-4 lighting units

CN600



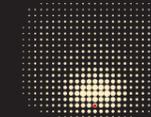
A-Series  
1-8 lighting units



Precision lens optics  
\* also available in satiné version



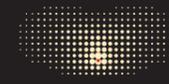
AH02\*  
Symmetric Wide Flood



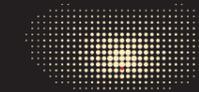
AP07\*  
Asymmetric Extra Forward



AS06\*  
Asymmetric Extra Side Throw



AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



AS10-L  
Asymmetric Forward - Left



AS10-R  
Asymmetric Forward - Right



Shape your own light by combining  
any light distribution

- 2,200 K CRI ≥ 70
- 2,700 K CRI ≥ 70
- 3,000 K CRI ≥ 80
- 4,000 K CRI ≥ 70
- 5,700 K CRI ≥ 70
- CRI ≥ 80 on request



Control protocols

ON/OFF	
DALI 2	
1-10 V	
ewo connexx	
Zhaga Book 18	
Line Switch	

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

Programming options

Night dimming
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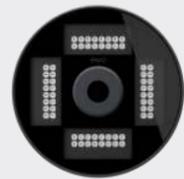
CN480

Public space  
Roads and traffic

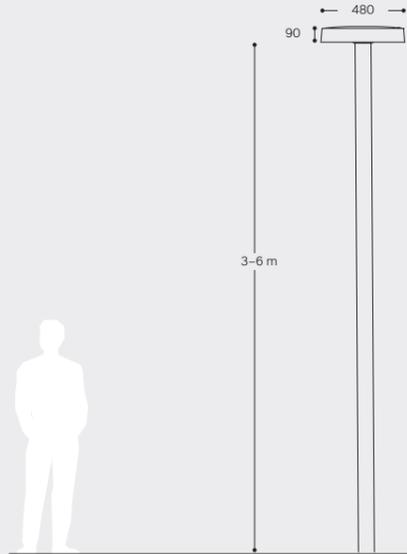


DB 703  
Anthracite

ewo  
color



A-Series  
1-4 lighting units



Configurator

CE RoHS IK10

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole
	* other color on request
	** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sub>p</sub> ②	-l <sub>p</sub> ③	Weight [kg] ④
CN480	3-6 ① in 0.1 m steps	0.20 ② projected windage area [m²]	0.06 ③ lateral windage area [m²]	15.0 ④ max. weight ④④④ excluding pole

Electrical

A-Series

Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	500
LED power max. [W]	95

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

A-Series

Control options	ON OFF DALI 1-10V X Z Lys
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connexx light management software for remote management of intelligent luminaire clusters



Precision lens optics  
\* also available in satiné version

AH02\* Symmetric Wide Flood

AP07\* Asymmetric Extra Forward

AS06\* Asymmetric Extra Side Throw

AS07\* Asymmetric Side Throw

AS08\* Asymmetric Side and Forward Throw

AS09\* Asymmetric Extra Side Throw

AS10-L Asymmetric Forward - Left

AS10-R Asymmetric Forward - Right

Shape your own light by combining any light distribution

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 70/80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R
MacAdam ellipses (SDCM)					≤ 5 SDCM			

Model	CN480
Light units	1-4
Luminous flux [lm]	1,000-11,200

Available designs (also available as pendant)



Pole luminaire

Accessories ewoLightLayers (optical accessories)



Backlight shield

Anti -Glare Grid 60° / 70°

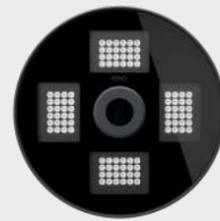
CN 600

Public space  
Roads and traffic

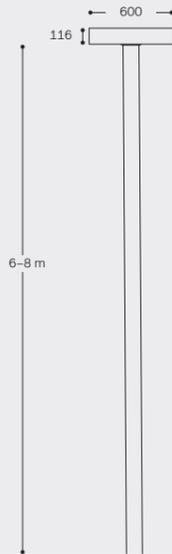


DB 703  
Anthracite

ewo  
color



A-Series  
CN600  
1-8 lighting units



Configurator

CE IP66 RoHS IK10

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>s</sup> ③	Weight [kg] ④
CN600	6-8 ① in 0.1 m steps	0.28 ② projected windage area [m <sup>2</sup> ]	0.07 ③ lateral windage area [m <sup>2</sup> ]	20.0 ④ max. weight ②③④ excluding pole

Electrical

	A-Series
Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	500
LED power max. [W]	170

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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Driver

	A-Series
Control options	ON OFF DALI 1-10V L/S
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connexx light management software for remote management of intelligent luminaire clusters



Precision lens optics  
\* also available in satiné version

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R
MacAdam ellipses (SDCM)	≤ 5 SDCM							

Model	CN600
Light units	1-8
Luminous flux [lm]	1,000-19,700

Available designs (also available as pendant)



Pole luminaire

Accessories ewoLightLayers (optical accessories)



Backlight shield    Anti-Glare Grid    60° / 70°



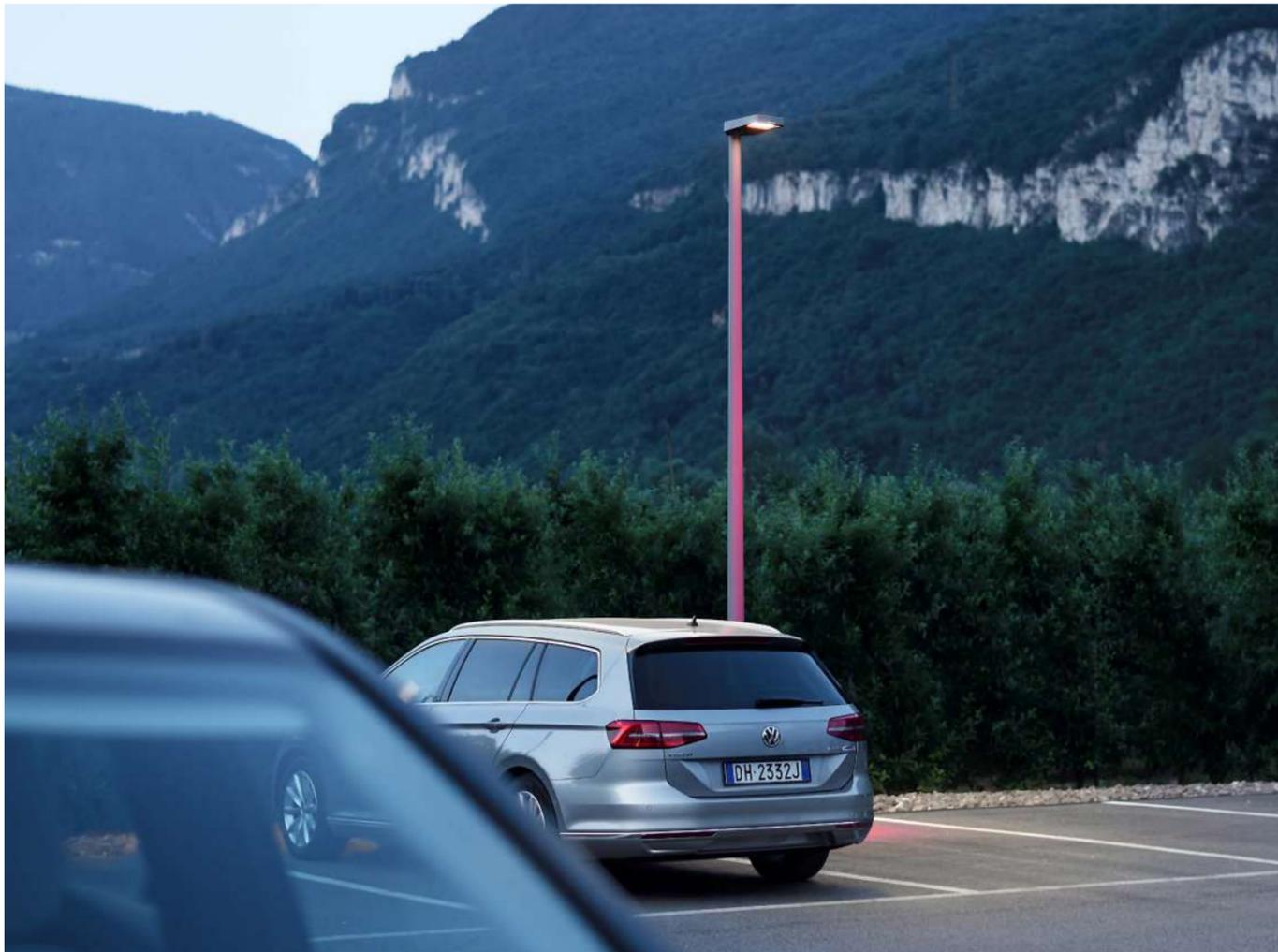
WAYS  
ACCENTS  
BUILDINGS

## IR

Intelligence ready

The IR mast luminaires by Jörg Boner can be equipped with high-precision lens optics from the A series for static white colour temperatures as well as with ew-oLightTiles for tunable white configurations. Its housing allows for the integration of nodes and sensors, making the IR intelligence ready and allowing it to integrate seamlessly into smart city systems whilst offering a high degree of control flexibility for its individual lighting units.

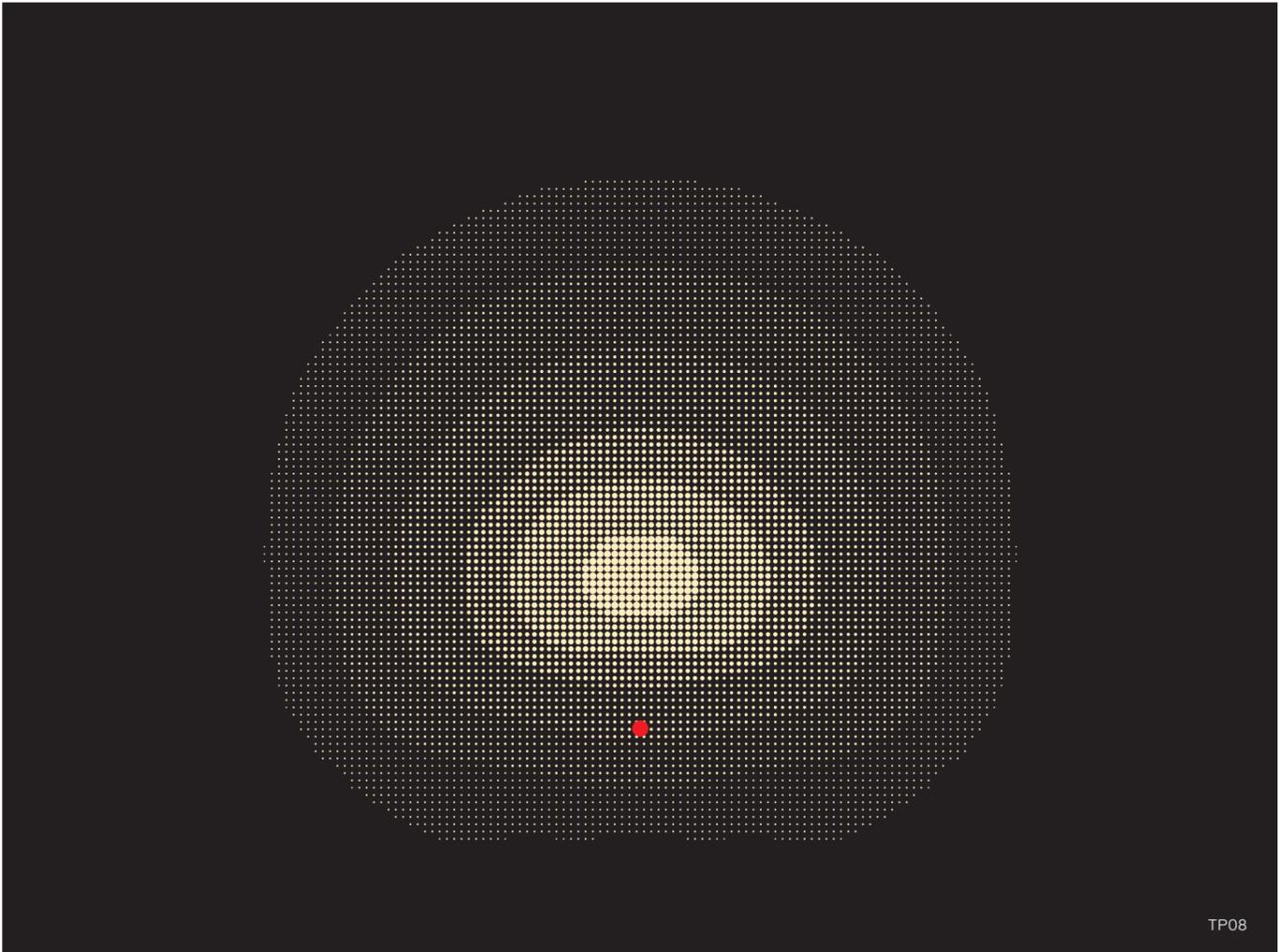




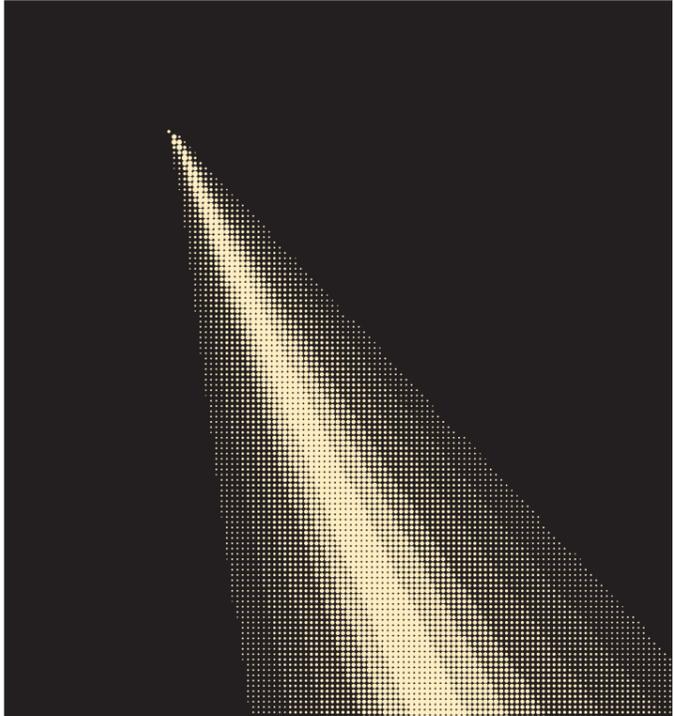
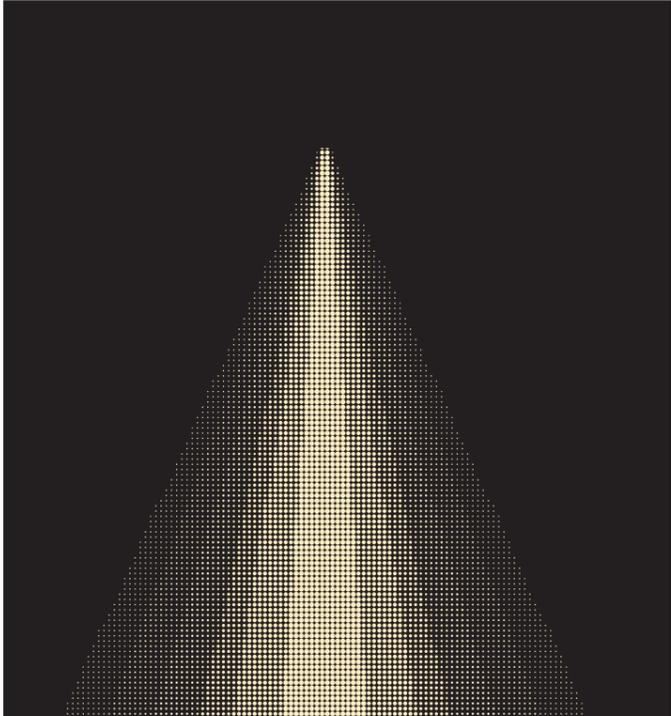
Shape of Light



T  
SERIES



TP08





PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

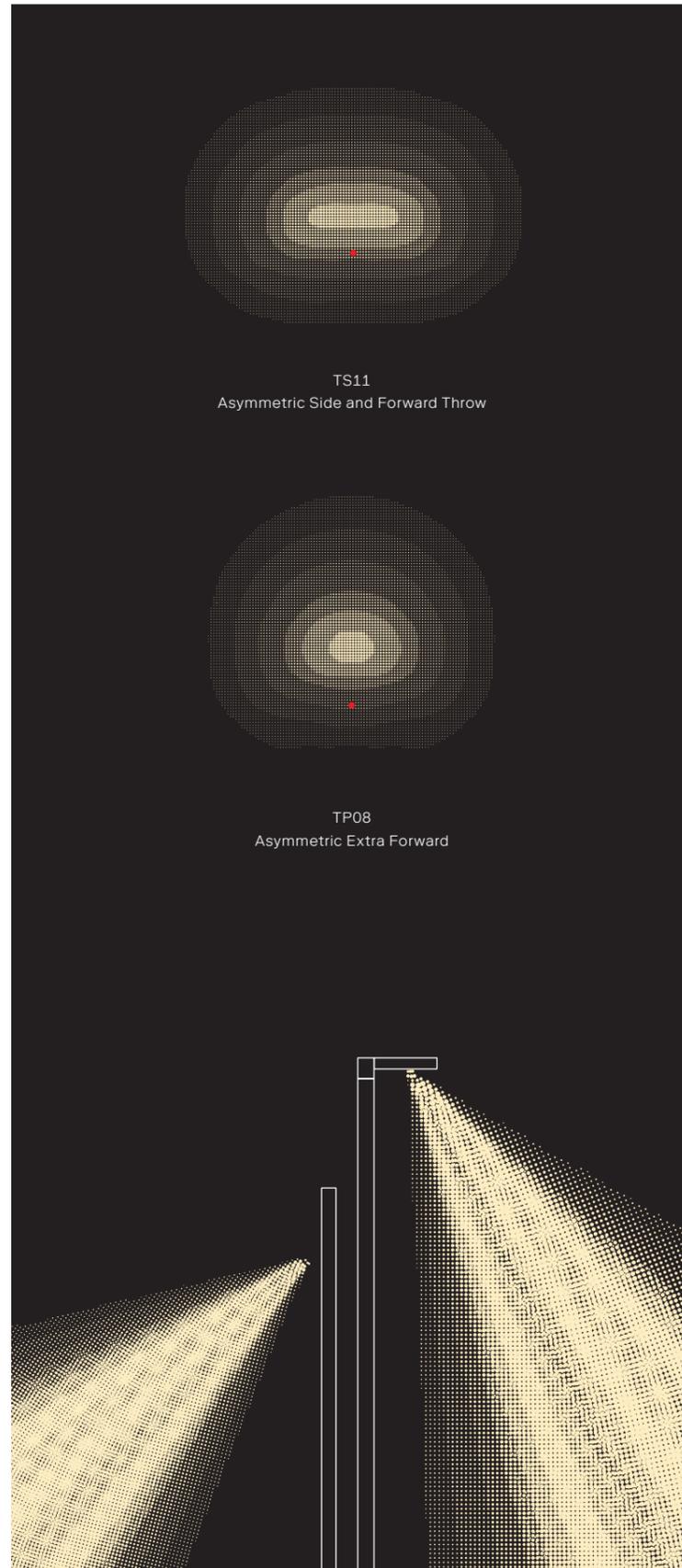
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

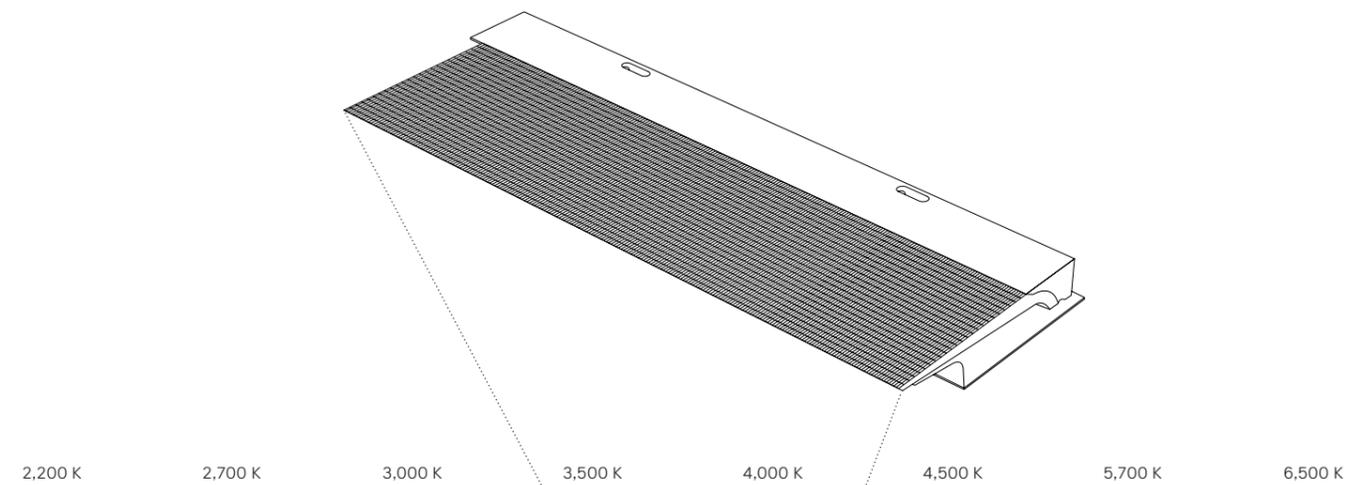
vertical array  
luminous range: 3xLPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

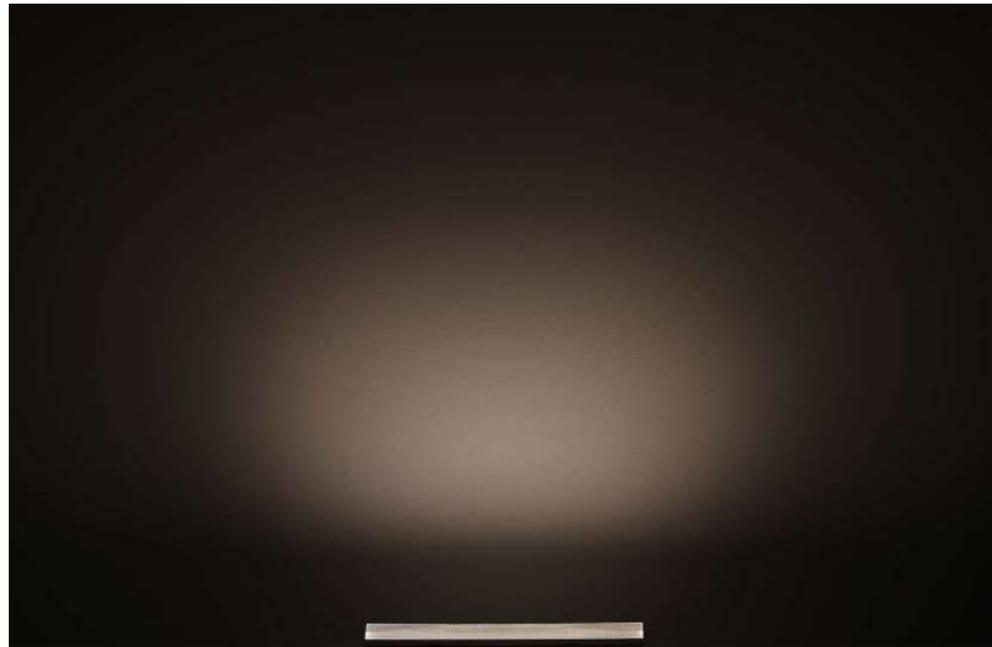
## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

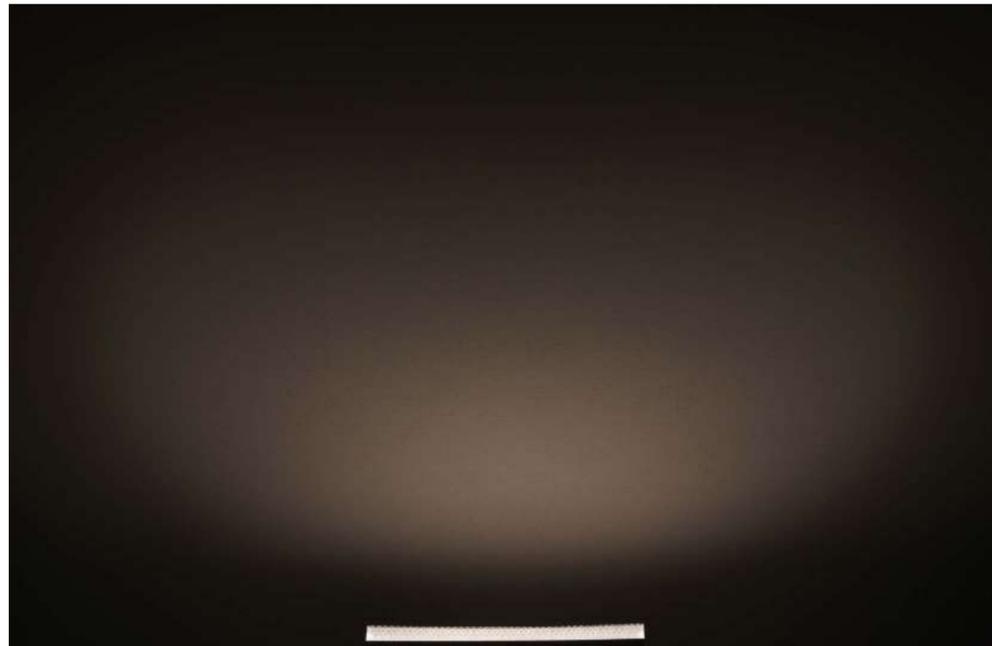


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.



ewoLightTile

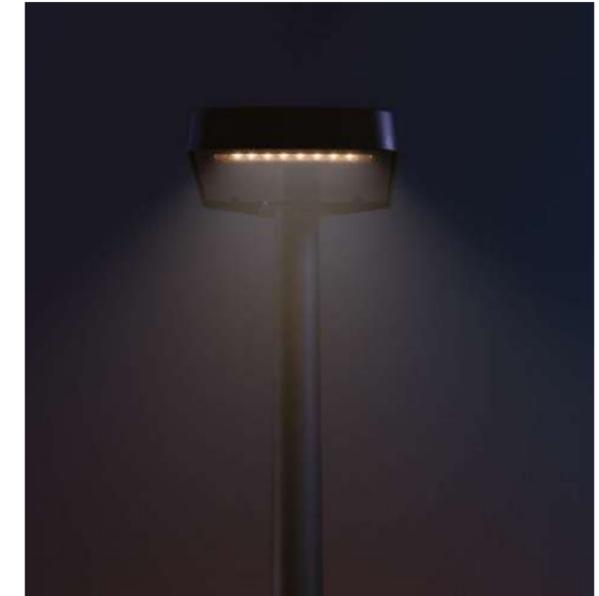
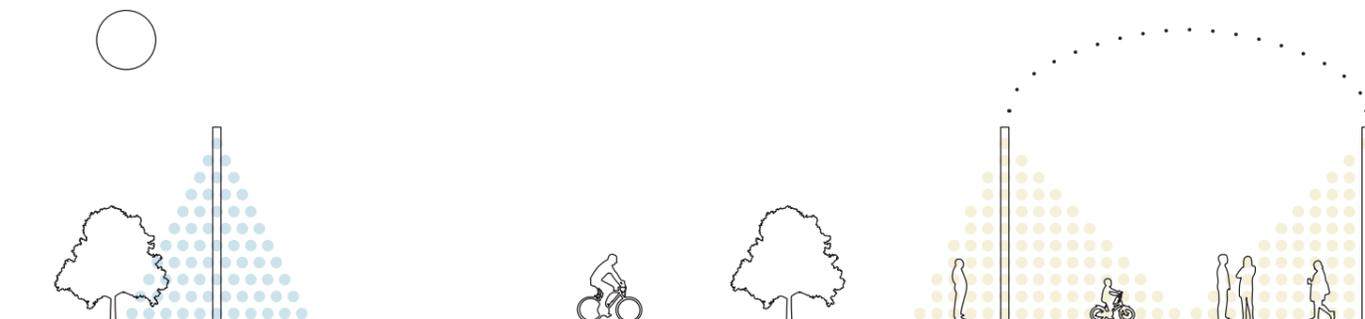


Designed by Zurich based product designer Joerg Boner, the IR is a family of pole mounted luminaires with either a single or a twin head. The luminaire itself makes for an elegant appearance with its integrated luminaire and pole connection.



### Play with colour

Cityscapes are being transformed every day in the pursuit to creating dramatic spaces and enticing city centres. Controlling dynamic lighting solutions with DALI T8 will enable scene setting, automated lighting adjustment and an introduction to circadian lighting during the hours of darkness.



With DALI, 1–10 V and stand alone line switch control, IR can easily be controlled to maximise both safety and energy saving.



Four steps to optimise corrosion protection:

1) Corrosion resistant alloy  
ewo luminaires are produced with a high-quality, low copper-aluminium alloy to guarantee high-end mechanical and anti-corrosion properties.

2) ewoECP pre-treatment  
After a detailed cleaning process, a Cr6-free film is applied to ensure complete adhesion of the following layer.

3) ewoProtectiveLayerECP  
A proprietary coating prevents delamination, blistering and cracking of the protective layer, even after accidental damage. This way, extreme corrosion resistance can be achieved.

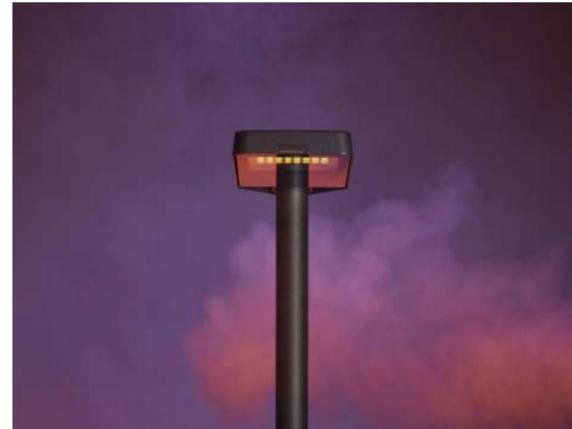
4) High-quality powder coating  
A high-quality coating performed in-house with thermosetting powders delivers customer desired colours with the serenity of a superior performance against corrosion.



## ewoECP areas of application

Outdoor: coastal and offshore areas with high salinity

Indoor: buildings or areas with almost permanent condensation with high pollution



## ewoECP performance

- No blistering around scribe >1000 h\* (AUS & NZ common requirement)
- No other corrosion defects such as blistering and adhesion >2500 h\*
- Comparable to the IM3 corrosivity category (suitable for buried tanks)
- SASO compliance

\* testing process: ISO9227 salt spray test

BODY OF LIGHT



POLE  
IR1, IR2, IR3



A-Series  
IR1, IR2, IR3  
1-3 lighting units



T-Series  
IR2, IR3  
2-3 lighting units

WALL  
IR1-W, IR2-W, IR3-W



A-Series  
IR1, IR2, IR3  
1-3 lighting units



T-Series  
IR2, IR3  
2-3 lighting units

SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



A  
SERIES

Precision lens optics  
\* also available in satiné version



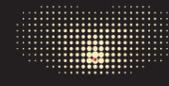
AH02\*  
Symmetric Wide Flood



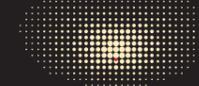
AP07\*  
Asymmetric Extra Forward



AS06\*  
Asymmetric Extra Side Throw



AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



AS10-L  
Asymmetric Forward - Left



AS10-R  
Asymmetric Forward - Right

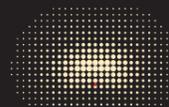


Shape your own light by combining  
any light distribution

2,200 K CRI ≥ 70   2,700 K CRI ≥ 70   3,000 K CRI ≥ 80   4,000 K CRI ≥ 70   5,700 K CRI ≥ 70   CRI ≥ 80 on request

T  
SERIES

ewoLighTile: low glare light-guiding panels



TS11  
Asymmetric Side and Forward Throw



TP08  
Asymmetric Extra Forward

Tunable White CRI ≥ 80   RGBW

A  
SERIES

Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
ewo connexx	XX
Zhaga Book 18	Z
Line Switch	L/S

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency Power Supply
Stand-alone	

T  
SERIES

Control protocols

DALI 2 T8	T8 DALI
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Programming options

Night dimming	
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POLE  
IR1, IR2, IR3

Area, street and walkway lighting



Configurator



A-Series  
IR1, IR2, IR3  
1-3 lighting units

T-Series  
IR2, IR3  
2-3 lighting units

Housing

Housing material	Aluminum die-cast	
Housing finish	Polyester powder coating (ewoECP upon request**)	
Finish standard colour	Anthracite (DB 703)*	
Glass	Safety glass (ESG)	
Mounting options	Pole	
Pole adapter	Integral pole adapter, for pole-top $\varnothing$ 60 mm and $\varnothing$ 76 mm	

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	$\uparrow$ ②	$\rightarrow$ ③	Weight [kg] ④
IR1	3-6	0.12	0.03	7.0
IR2	3-6	0.12	0.03	7.0
IR3	3-6	0.12	0.03	7.0

① in 0.5 m steps    ② projected windage area [m<sup>2</sup>]    ③ max. weight  
④ lateral windage area [m<sup>2</sup>]    ④④④ excluding pole

Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. mA	700*	225
LED power max. [W]	95	36

\* IR3 max. 650 mA

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z Lys	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels

Color and CRI options:  
 2,200 K CRI  $\geq$  70    2,700 K CRI  $\geq$  70    3,000 K CRI  $\geq$  80    4,000 K CRI  $\geq$  70    5,700 K CRI  $\geq$  70    CRI  $\geq$  80 on request  
 Tunable White CRI  $\geq$  80    RGBW

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)									$\leq$ 5 SDCM	$\leq$ 5 SDCM

Model	IR1	IR2	IR3	IR2	IR3
Light units	1	2	3	2	3
Luminous flux [lm]	1,000-3,800	1,900-7,700	2,900-10,900	1,800	2,700

Accessories

ewoLightLayers (optical accessories)



Available designs



Glass cover



WALL  
IR1-W, IR2-W, IR3-W

Area, street and  
walkway lighting



DB 703  
Anthracite

ewo  
color



A-Series  
IR1, IR2, IR3  
1-3 lighting units

T-Series  
IR2, IR3  
2-3 lighting units

Configurator

IP66 RoHS IK08

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Wall

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m]	$\theta_{1/2}^{\circ}$ ②	$-\theta_{1/2}^{\circ}$ ③	Weight [kg] ④
IR1-W	/	0.12	0.04	7.5
IR2-W	/	0.12	0.04	7.5
IR3-W	/	0.12	0.04	7.5

② projected windage area [m<sup>2</sup>]    ④ max. weight  
③ lateral windage area [m<sup>2</sup>]

Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	700*	225
LED power max. [W]	95	36

\* IR3 max. 650 mA

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z Lys	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLighTile: low glare  
light-guiding panels

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)				≤ 5 SDCM					≤ 5 SDCM	

Model	IR1-W	IR2-W	IR3-W	IR2-W	IR3-W
Light units	1	2	3	2	3
Luminous flux [lm]	1,000-3,800	1,900-7,700	2,900-10,900	1,800	2,700

Accessories

ewoLightLayers (optical accessories)

Backlight shield      Anti-Glare Grid    60° / 70°

Glass cover

Glass cover can be opened without tools      Bolted glass cover



PUBLIC SPACE  
ROADS AND TRAFFIC

## CO

The CO family of luminaires shares design features with the CN family, where square lighting units are placed within a circular luminaire head. This family is ideal for urban lighting applications including area, street, walkway lighting and lighting of pedestrian crossings. Optically, the CO can be configured with either A-Series high precision lens optics or T-Series low glare ewoLightTile for tunable white applications bringing humancentric lighting to urban spaces.





PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

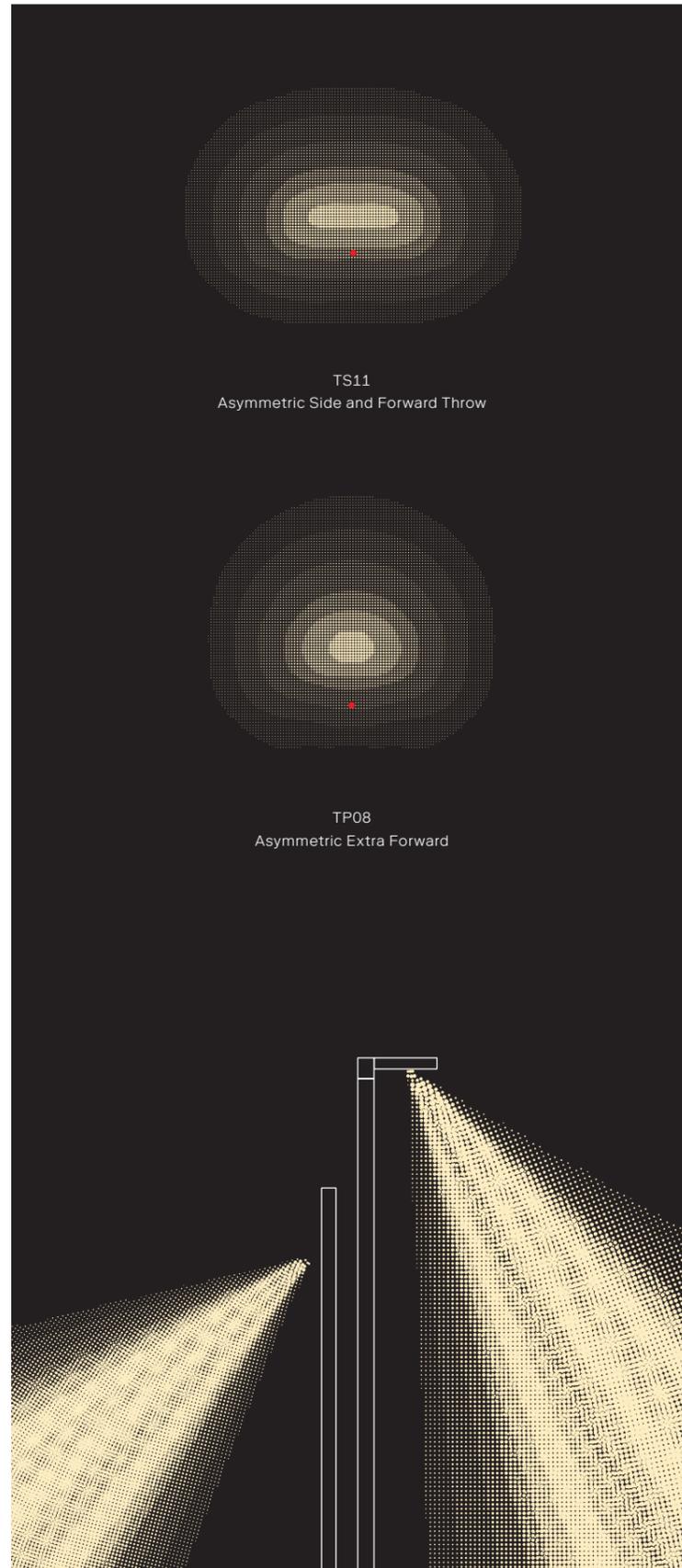
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

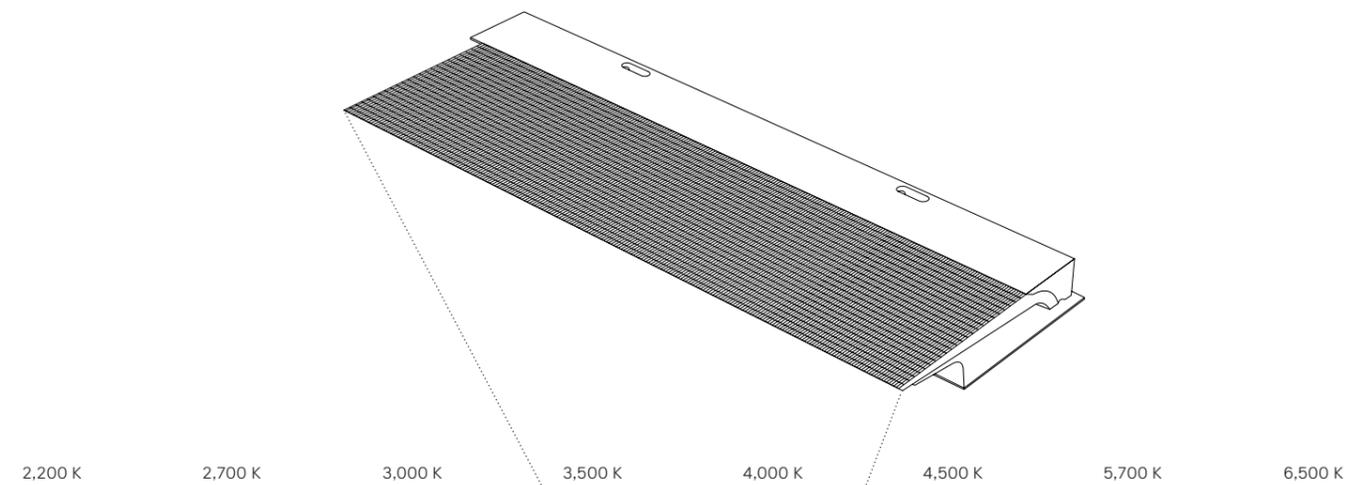
vertical array  
luminous range: 3 x LPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

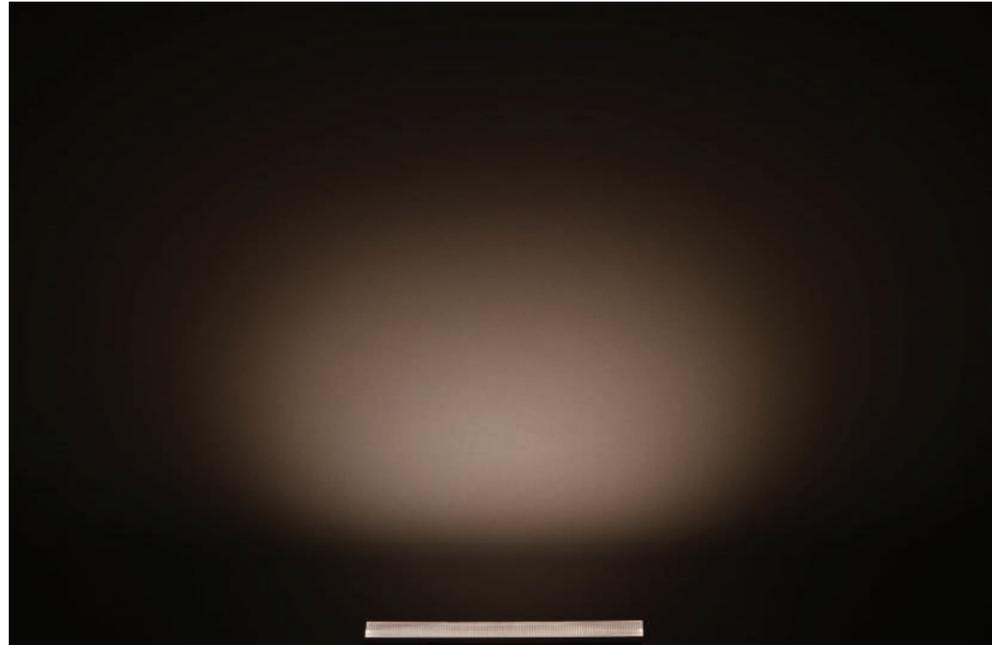
## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

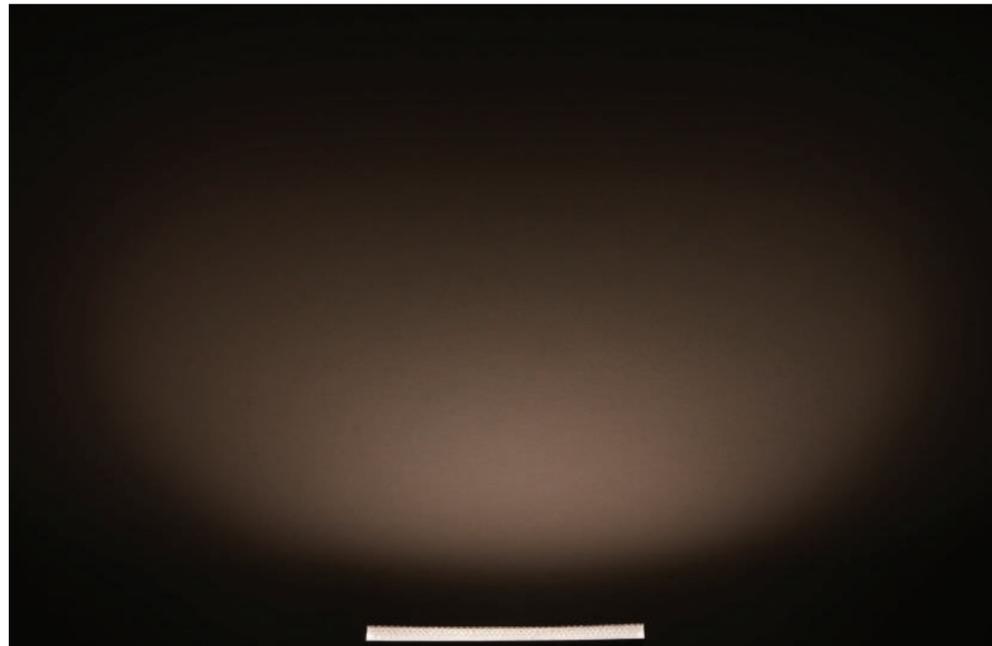


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.

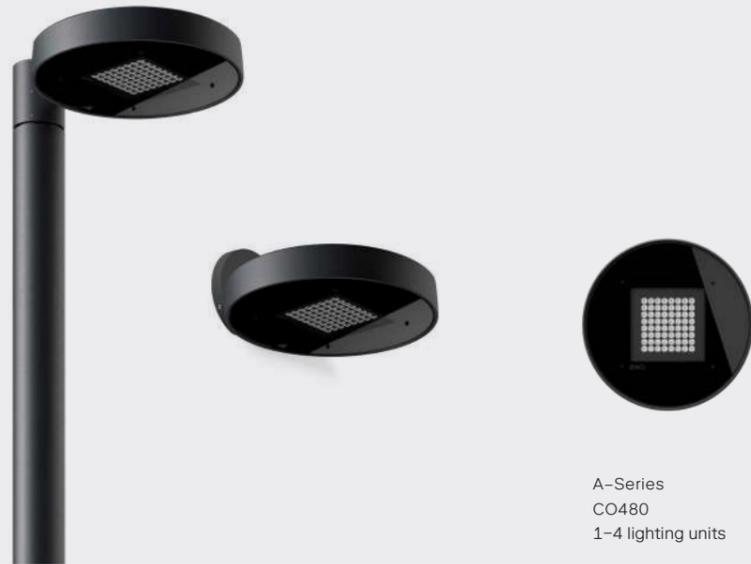


ewoLightTile

BODY OF LIGHT



POLE / WALL  
CO480  
CO480-W



A-Series  
CO480  
1-4 lighting units

POLE / WALL  
CO600  
CO600-W



A-Series  
CO600  
4-5 lighting units

T-Series  
CO600  
4-5 lighting units

SHAPE OF LIGHT



Precision lens optics  
\* also available in satiné version



AH02\*  
Symmetric Wide Flood



AP07\*  
Asymmetric Extra Forward



AS06\*  
Asymmetric Extra Side Throw



AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



AS10-L  
Asymmetric Forward - Left



AS10-R  
Asymmetric Forward - Right



Shape your own light by combining  
any light distribution

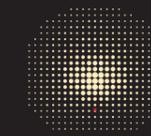
2,200 K CRI ≥ 70   2,700 K CRI ≥ 70   3,000 K CRI ≥ 70/80   4,000 K CRI ≥ 70   5,700 K CRI ≥ 70   CRI ≥ 80 on request



ewoLighTile: low glare light-guiding panels



TS11  
Asymmetric Side and Forward Throw



TP08  
Asymmetric Extra Forward

Tunable White CRI ≥ 80   RGBW

INTELLIGENCE OF LIGHT



Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
ewo connexx	XX
Zhaga Book 18	Z
Line Switch	L/S

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	



Control protocols

DALI 2 T8	T8 DALI
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Programming options

Night dimming	
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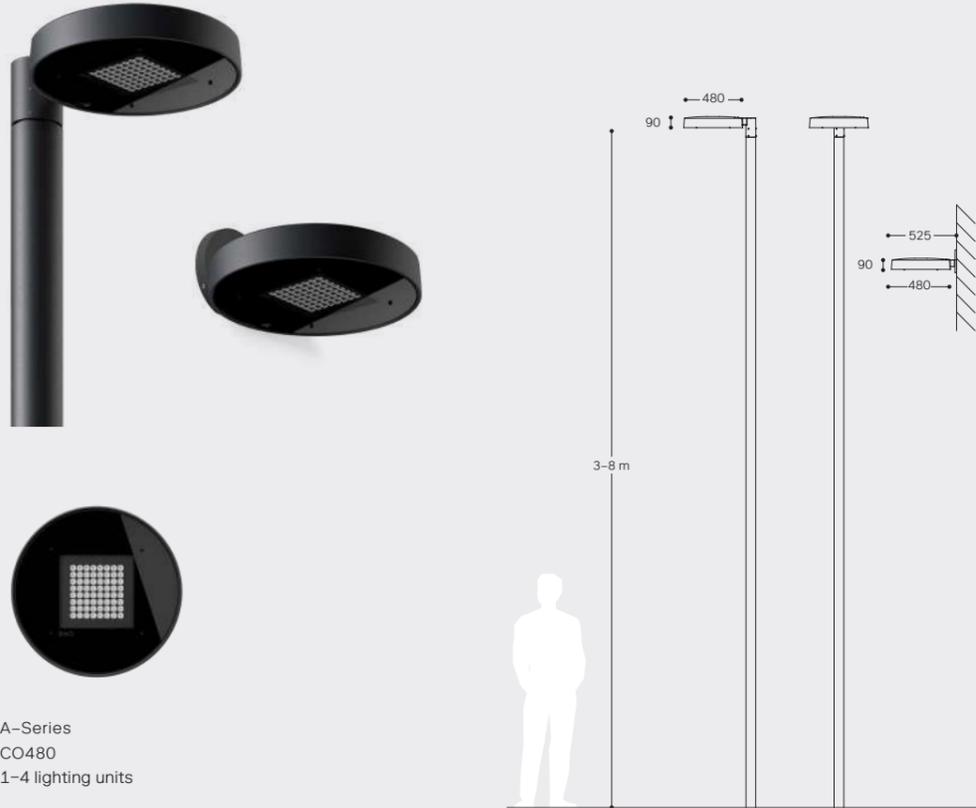
CO480  
CO480-W

Public space  
Roads and traffic



DB 703  
Anthracite

ewo  
color



Configurator

CE IP66 RoHS IK08

A-Series  
CO480  
1-4 lighting units

Housing

Housing material	Aluminium die-casting
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole adapter	Aluminium die-casting, fixed position, 90° for pole-top ø60 mm, ø76 mm, ø114 mm or ø133 mm (single or double design)

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>p</sup> ③	Weight [kg] ④
CO480	3-8	0.18	0.054	12.5
CO480-W	/	0.18	0.050	13.0

① in 0.1 m steps    ② projected windage area [m²]    ③ max. weight    ④ excluding pole

Electrical

A-Series	
Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	500
LED power max. [W]	95

Operating conditions

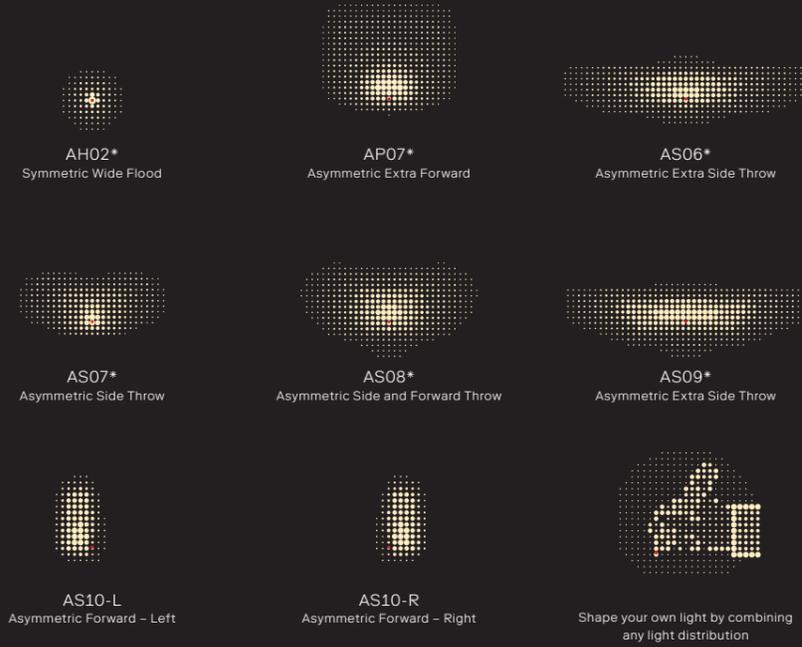
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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Driver

A-Series	
Control options	ON OFF DALI 1-10V L/S
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connexx light management software for remote management of intelligent luminaire clusters



Precision lens optics  
\* also available in satiné version



2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 70/80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R
MacAdam ellipses (SDCM)	≤ 5 SDCM							
Model	CO480/-W							
Light units	1-4							
Luminous flux [lm]	1,000-11,800							

Available designs (also available as pendant)



Accessories ewoLightLayers (optical accessories)

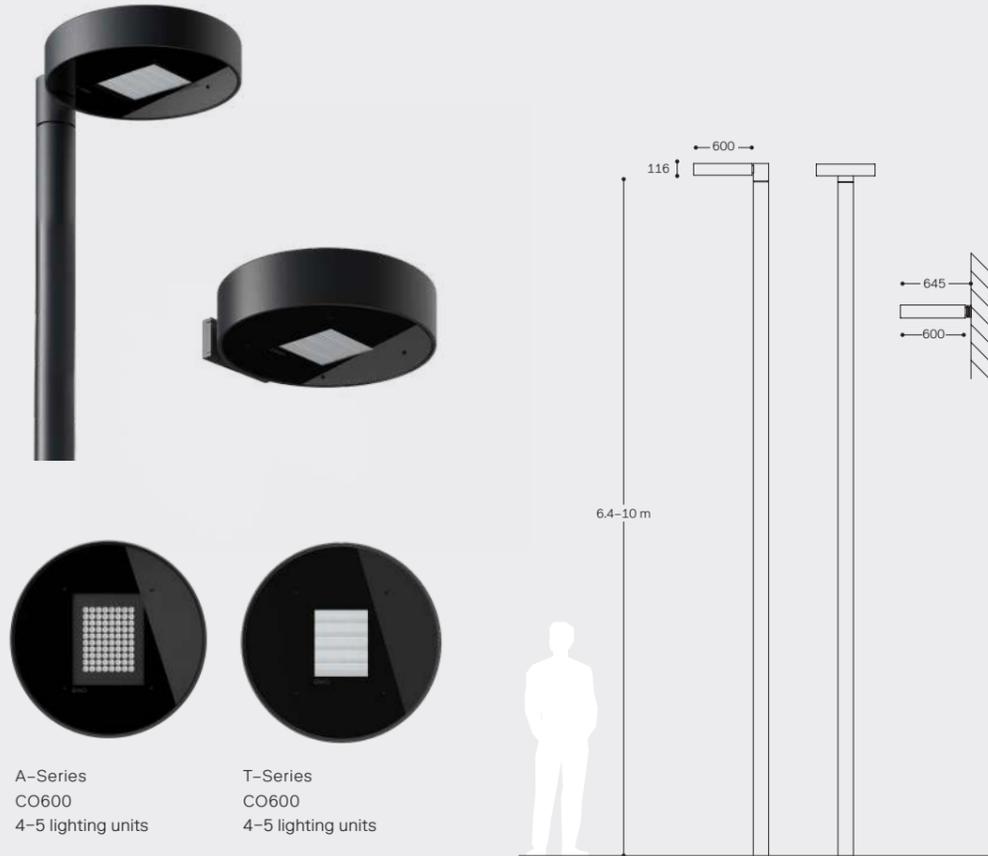


CO600  
CO600-W

Public space  
Roads and traffic



DB 703  
Anthracite



Configurator

CE IP66 RoHS IK08

A-Series  
CO600  
4-5 lighting units

T-Series  
CO600  
4-5 lighting units

Housing

Housing material	Aluminum
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole adapter	Aluminium die-casting, fixed position, 90° for pole-top ø60 mm, ø76 mm, ø114 mm or ø133 mm (single or double design)

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>s</sup> ③	Weight [kg] ④
CO600	6.4-10	0.30	0.09	18.0
CO600-W	/	0.29	0.07	19

① in 0.1 m steps  
② projected windage area [m²]  
③ lateral windage area [m²]  
④ max. weight  
⑤ excluding pole

Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	500	225
LED power max. [W]	120	60

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V L/S	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request    Tunable White CRI ≥ 80    RGBW

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)					≤ 5 SDCM					≤ 5 SDCM

Model	CO600/-W	CO600/-W
Light units	4-5	4-5
Luminous flux [lm]	3,800-14,700	4,600

Available designs (also available as pendant)



Accessories ewoLightLayers (optical accessories)





PUBLIC SPACE  
ROADS AND TRAFFIC

## DA

The DA family of luminaires brings soft curves to urban environments with its spherical body shape. Available in single or double pole configuration as well as wall mounted, this versatile family of luminaires is available with either A-Series high precision lens optics or T-Series low glare ewoLightTile for tunable white applications bringing humancentric lighting to urban spaces. Smart lighting control modules can be fitted on request via an external Zhaga interface, allowing this luminaire to integrate into smart city systems.





PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

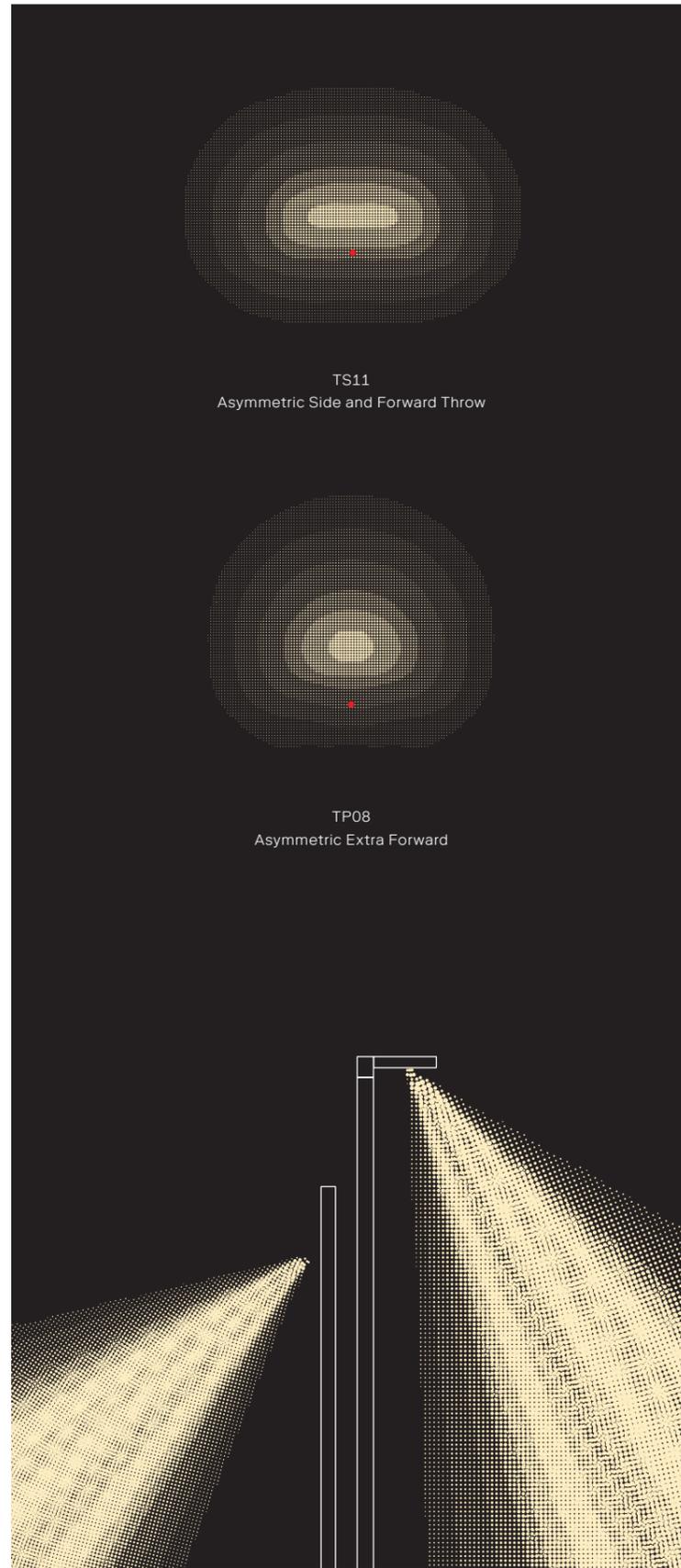
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

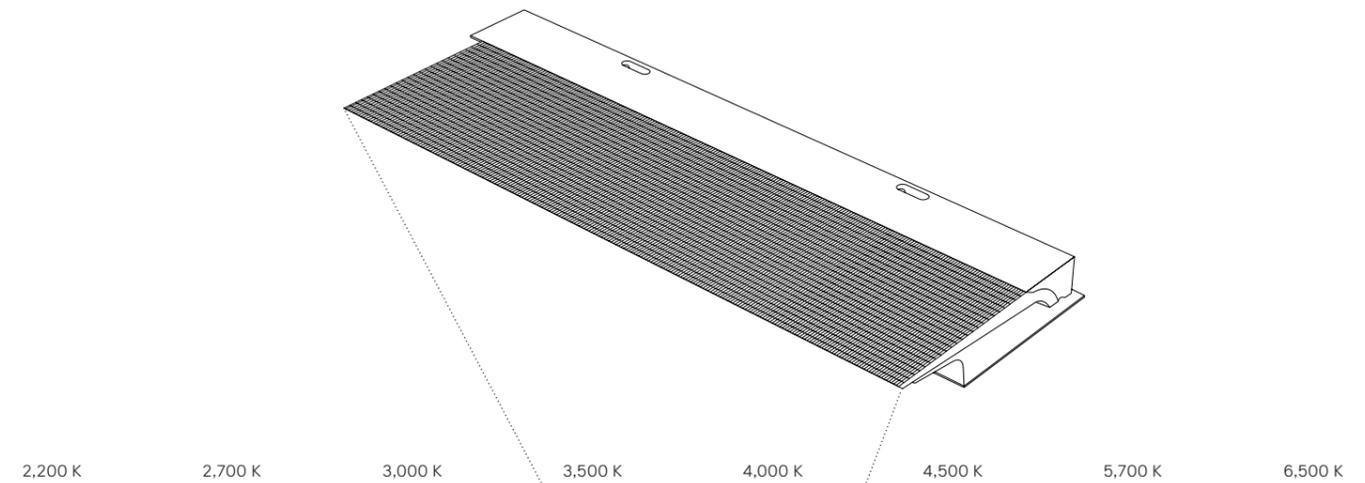
vertical array  
luminous range: 3xLPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

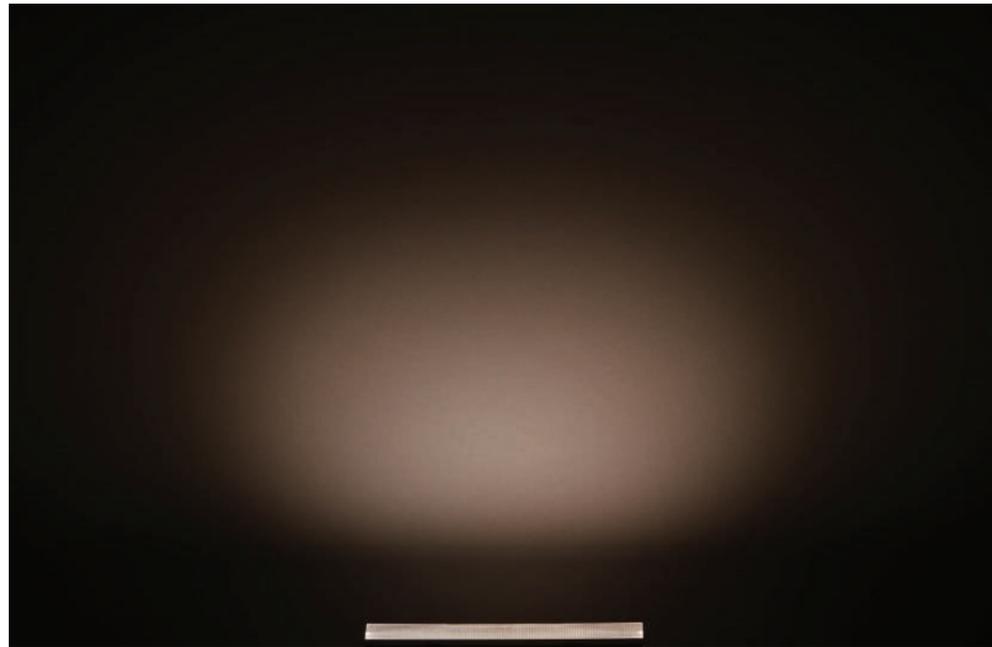
## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

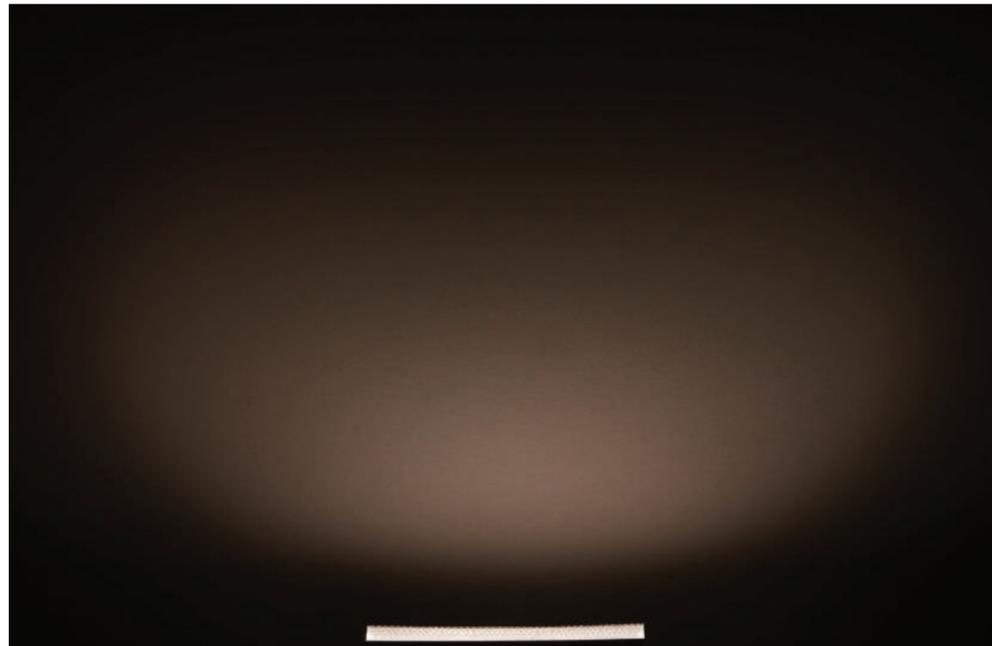


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.

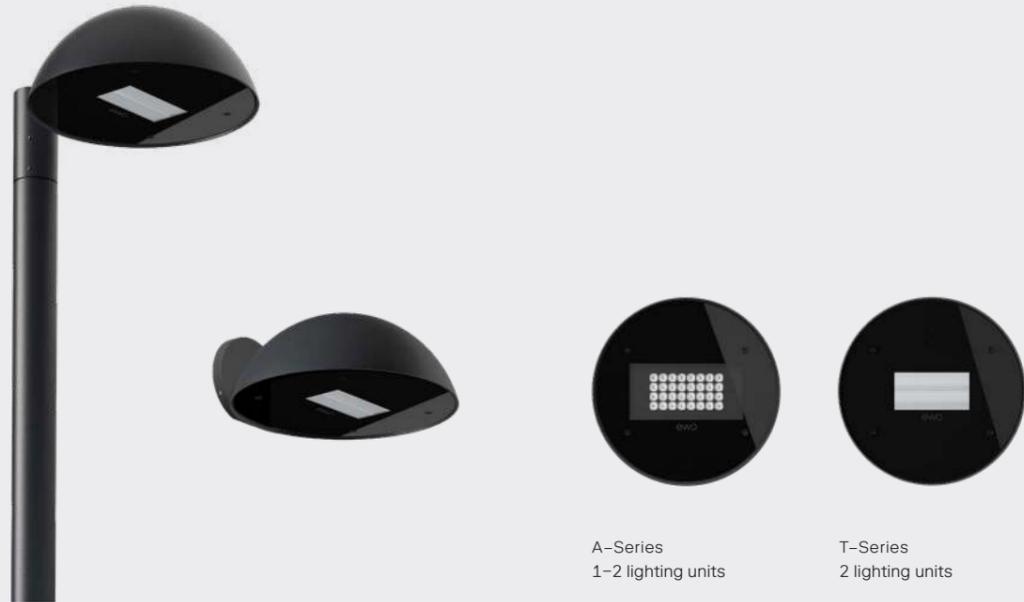


ewoLightTile

BODY OF LIGHT



POLE / WALL  
DA400  
DA400-W



POLE / WALL  
DA520  
DA520-W



SHAPE OF LIGHT

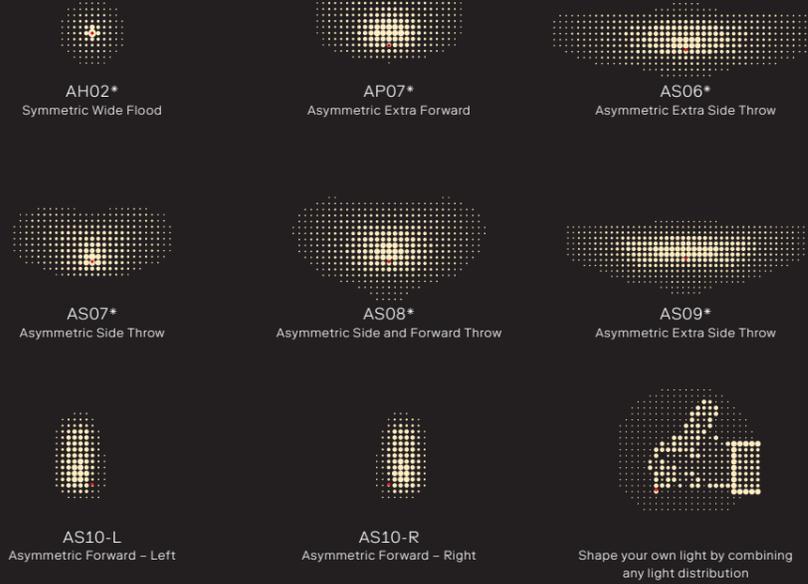


INTELLIGENCE OF LIGHT



A SERIES

Precision lens optics  
\* also available in satiné version



2,200 K CRI ≥ 70   2,700 K CRI ≥ 70   3,000 K CRI ≥ 80   4,000 K CRI ≥ 70   5,700 K CRI ≥ 70   CRI ≥ 80 on request

T SERIES

ewoLighTile: low glare light-guiding panels



Tunable White CRI ≥ 80   RGBWO

A SERIES

Control protocols

ON/OFF	ON/OFF
DALI 2	DALI
1-10 V	1-10V
ewo connexx	XX
Zhaga Book 18	Z
Line Switch	L/S

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

T SERIES

Control protocols

DALI 2 T8	T8 DALI
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Programming options

Night dimming
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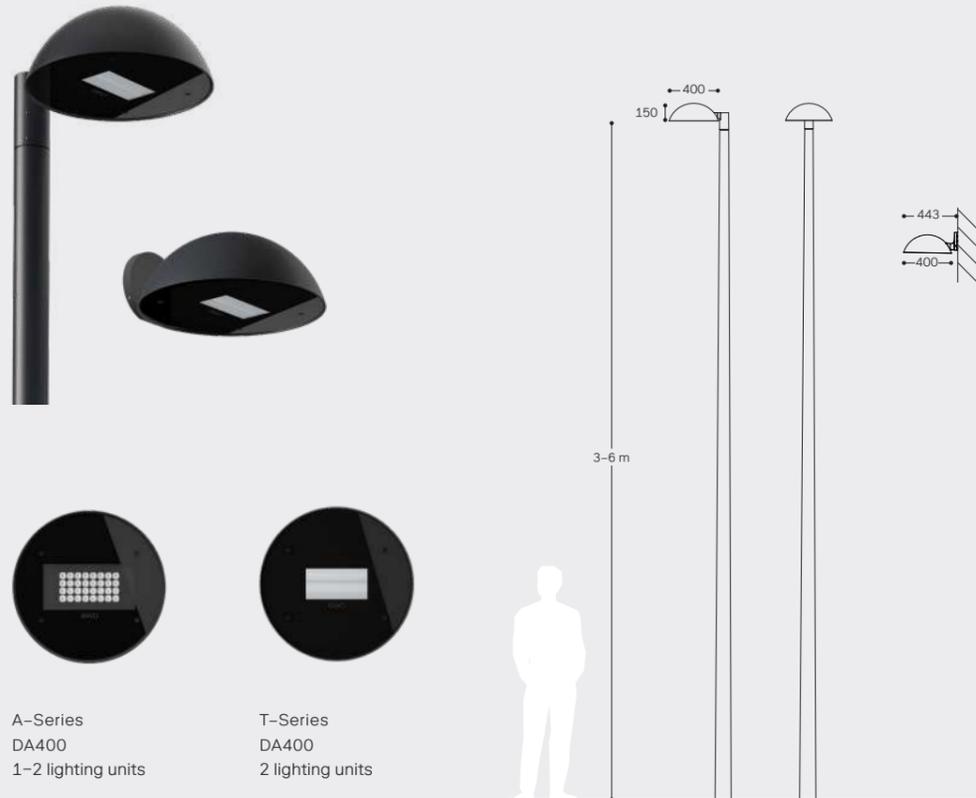
DA400  
DA400-W

Public space  
Roads and traffic



DB 703  
Anthracite

ewo  
color



Configurator

CE RoHS IK08

A-Series  
DA400  
1-2 lighting units

T-Series  
DA400  
2 lighting units

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole adapter	Aluminum, fixed position, 90° for pole-top ø48 mm, ø60 mm, ø89 mm, ø114 mm or ø133 mm (single or double design) / fixed position, 0° for pole-top ø48 mm / adjustable in 5° increments from 0-90°, for pole-top ø76 mm or ø60 mm

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Electrical

	A-Series	T-Series
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	500	225
LED power max. [W]	55	24

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z Lys	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

Measurements

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>p</sup> ③	Weight [kg] ④
DA400	3-6	0.14	0.07	11.5
DA400-W	/	0.13	0.05	10.0

① in 0.1 m steps    ② projected windage area [m²]    ③ max. weight    ④ excluding pole

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

A SERIES

Precision lens optics  
\* also available in satiné version

T SERIES

ewoLightTile: low glare  
light-guiding panels

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request    Tunable White CRI ≥ 80    RGBW

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)					≤ 5 SDCM					≤ 5 SDCM

Model	DA400/-W	DA400/-W
Light units	1-2	2
Luminous flux [lm]	1,000-6,300	1,800

Available designs (also available as pendant)



Accessories ewoLightLayers (optical accessories)

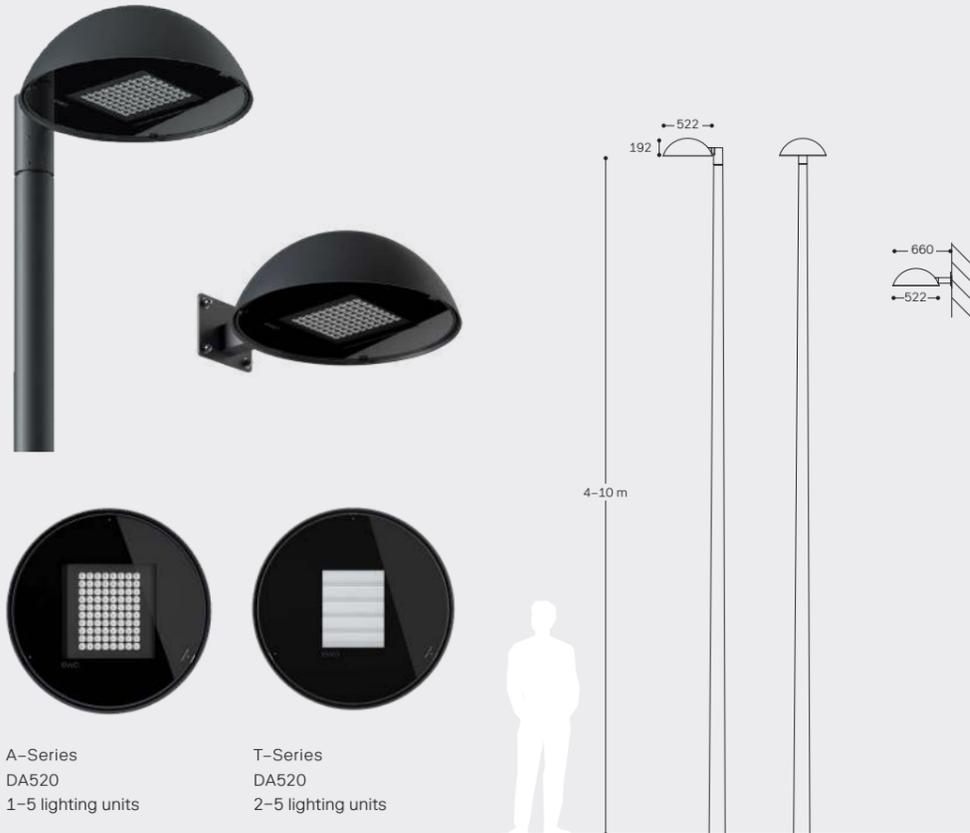


DA520  
DA520-W

Public space  
Roads and traffic



DB 703  
Anthracite



Configurator

CE RoHS IK08

A-Series  
DA520  
1-5 lighting units

T-Series  
DA520  
2-5 lighting units

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole, wall
Pole adapter	Aluminum, fixed position, 90° for pole-top ø89 mm, ø114 mm or ø133 mm (single or double design) / swivels from 0 to 90° in 5° increments, for pole-top ø76 mm or ø60 mm

\* other color on request  
\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Electrical

	A-Series	T-Series
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	500	225
LED power max. [W]	123	60

Measurements

Model	LPH [m] ①	⊥ ②	-⊥ ③	Weight [kg] ④
DA520	4-10	0.23	0.10	18.0
DA520-W	/	0.22	0.09	17.5

① in 0.1 m steps    ② projected windage area [m²]    ③ max. weight    ④ excluding pole

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X X L/S	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version



ewoLightTile: low glare  
light-guiding panels

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)					≤ 5 SDCM					≤ 5 SDCM

Model	DA520/-W	DA520/-W
Light units	1-5	2-5
Luminous flux [lm]	1,000-14,700	4,600

Available designs (also available as pendant)



Accessories ewoLightLayers (optical accessories)





WAYS  
ACCENTS  
BUILDINGS

## FN

The FN family of pole mounted luminaires is available with either A-Series high precision lens optics for static white applications or T-Series low glare ewoLightTile for tunable white configurations. Its body can house up to six lighting units, providing various light distributions for area, high bay, street or walkway lighting. A single lighting unit can be added to the back of the luminaire for applications requiring a more bi-directional approach. Smart Lighting control modules for different communication standards or external Zhaga interface can optionally be integrated into the luminaire, allowing it to join smart city networks.





PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

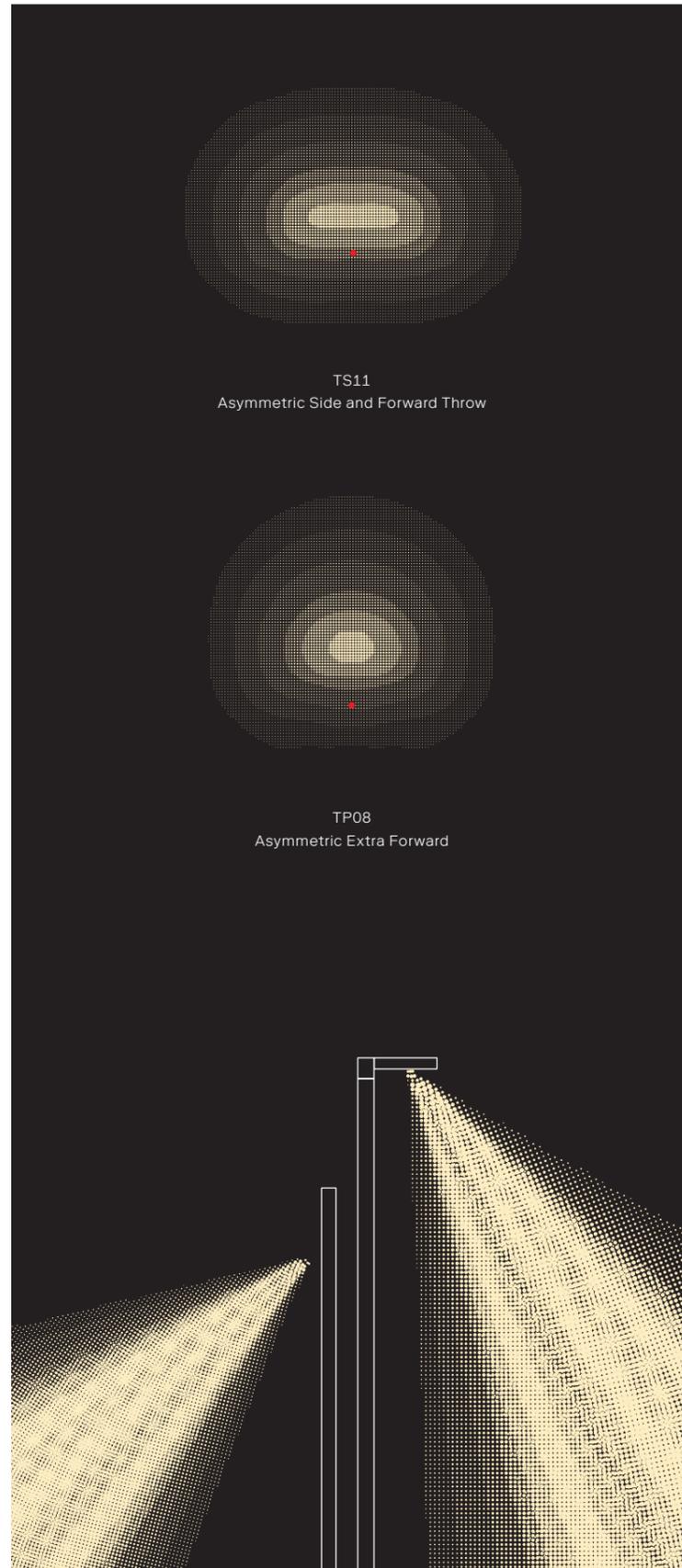
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

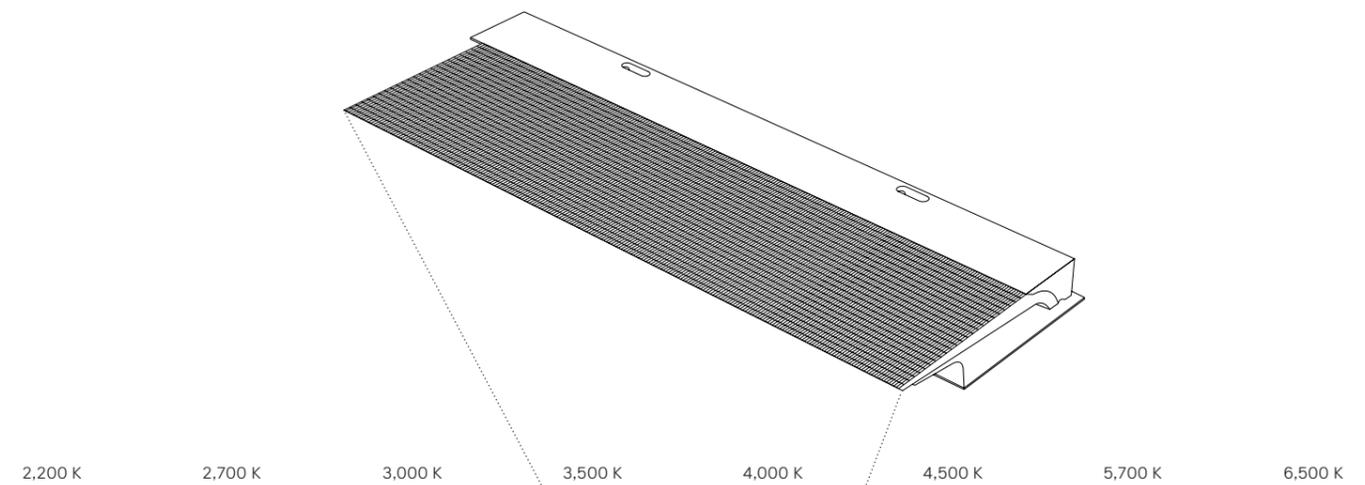
vertical array  
luminous range: 3 x LPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

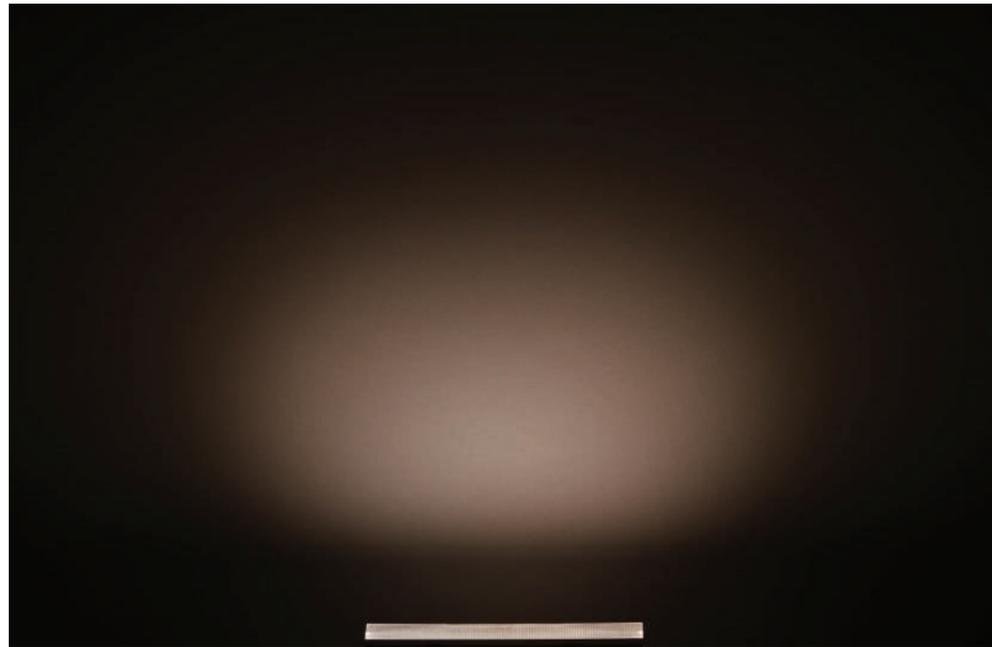
## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

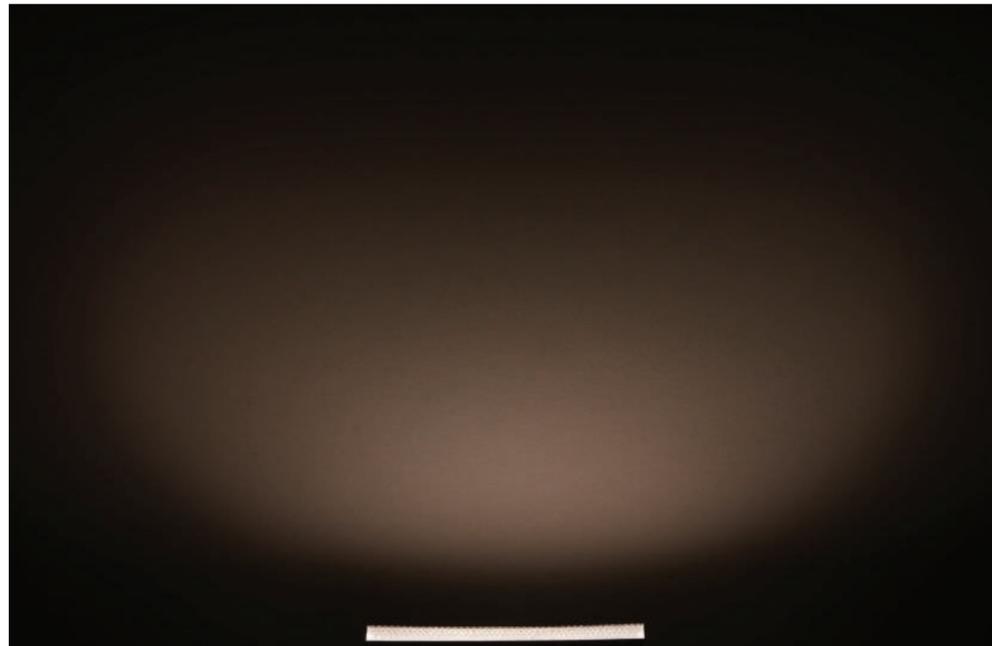


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.

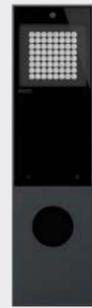


ewoLightTile

BODY OF LIGHT



POLE  
FN1000  
FN 1000-B



A-Series  
FN1000  
1-4 lighting  
units



A-Series  
FN1000-B  
1-4+1 lighting  
units



T-Series  
FN1000  
2-4 lighting  
units



T-Series  
FN1000-B  
2-4+1 lighting  
units

POLE  
FN1300  
FN1300-B



A-Series  
FN1300  
5-6 lighting  
units



A-Series  
FN1300-B  
5-6+1 lighting  
units



T-Series  
FN1300  
5-6 lighting  
units



T-Series  
FN1300-B  
5-6+1 lighting  
units

SHAPE OF LIGHT



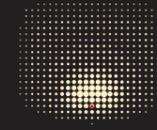
INTELLIGENCE OF LIGHT



Precision lens optics  
\* also available in satiné version



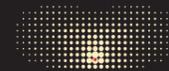
AH02\*  
Symmetric Wide Flood



AP07\*  
Asymmetric Extra Forward



AS06\*  
Asymmetric Extra Side Throw



AS07\*  
Asymmetric Side Throw



AS08\*  
Asymmetric Side and Forward Throw



AS09\*  
Asymmetric Extra Side Throw



AS10-L  
Asymmetric Forward - Left



AS10-R  
Asymmetric Forward - Right



Shape your own light by combining  
any light distribution

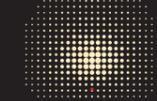
2,200 K CRI ≥ 70   2,700 K CRI ≥ 70   3,000 K CRI ≥ 80   4,000 K CRI ≥ 70   5,700 K CRI ≥ 70   CRI ≥ 80 on request



ewoLighTile: low glare light-guiding panels



TS11  
Asymmetric Side and Forward Throw



TP08  
Asymmetric Extra Forward

Tunable White CRI ≥ 80   RGBW



Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
ewo connexx	XX
Zhaga Book 18	Z
Line Switch	LS

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	



Control protocols

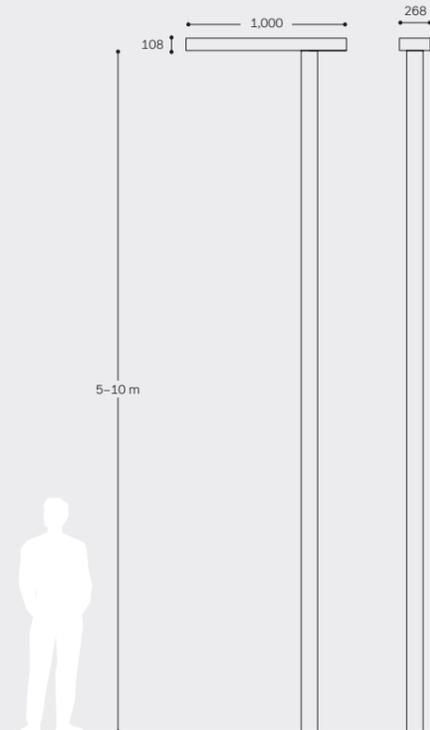
DALI 2 T8	T8 DALI
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Programming options

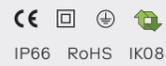
Night dimming
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POLE  
FN1000  
FN1000-B

Roads and traffic  
Logistics



Configurator



Precision lens optics  
\* also available in satiné version



Housing

Housing material	Extruded aluminum profile
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole * additional color on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>s</sup> ③	Weight [kg] ④
FN1000	5-10	0.27	0.11	21.5
FN1000-B	5-10	0.27	0.11	24.0

① in 0.1 m steps    ② projected windage area [m<sup>2</sup>]    ③ max. weight    ④ excluding pole  
⑤ lateral windage area [m<sup>2</sup>]    ⑥⑦⑧

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)									≤ 5 SDCM	

Model	FN1000	FN1000-B	FN1000	FN1000-B
Light units	1-4	1-4+1	2-4	2-4+1
Luminous flux [lm]	1,000-15,500	1,900-19,400	3,600	4,600

Electrical

	A-Series	T-Series
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	700	225
LED power max. [W]	174	60

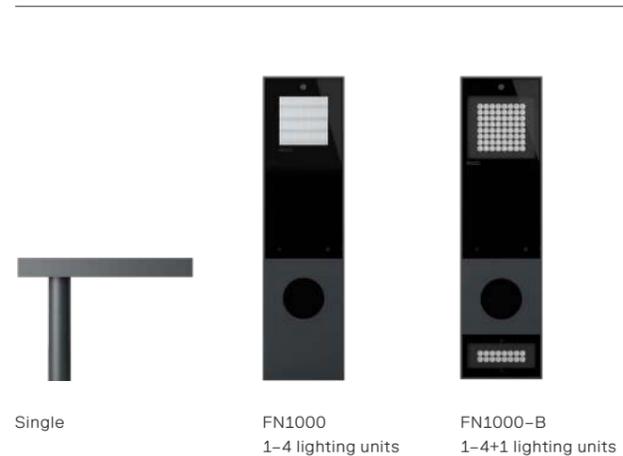
Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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Driver

	A-Series	T-Series
Control options	ON, OFF, DALI, 1-10V, X, Z, Lys	T8, DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

Available designs



Accessories



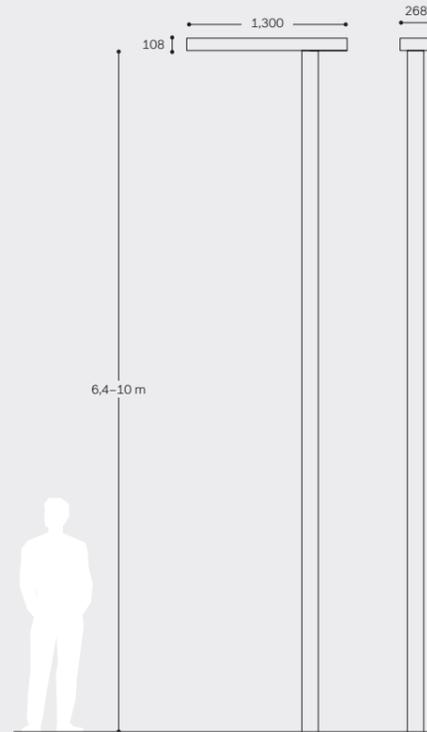
POLE  
FN1300  
FN1300-B

Roads and traffic  
Logistics



DB 703  
Anthracite

ewo  
color



Configurator

CE IP66 RoHS IK08

Housing

Housing material	Extruded aluminum profile
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Glass	Safety glass (ESG)
Mounting options	Pole
	* other color on request
	** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>s</sup> ③	Weight [kg] ④
FN1300	6.4-10	0.35	0.14	26.0
FN1300-B	6.4-10	0.35	0.14	28.5

① in 0.1 m steps    ② projected windage area [m<sup>2</sup>]    ③ max. weight    ④ excluding pole

Electrical

	A-Series	T-Series
Protection class	I/II	I/II
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	550	225
LED power max. [W]	195	83

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V X Z Lys	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70    5,700 K CRI ≥ 70    CRI ≥ 80 on request    Tunable White CRI ≥ 80    RGBW

Performance

Optics	AH02	AP07	AS06	AS07	AS08	AS09	AS10-L	AS10-R	TS11	TP08
MacAdam ellipses (SDCM)					≤ 5 SDCM					≤ 5 SDCM

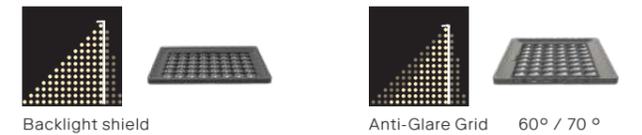
Model	FN1300	FN1300-B	FN1000	FN1000-B
Light units	5-6	5-6+1	2-4	2-4+1
Luminous flux [lm]	4,700-19,100	5,700-22,300	5,500	6,400

Available designs



Accessories

ewoLightLayers (optical accessoires)



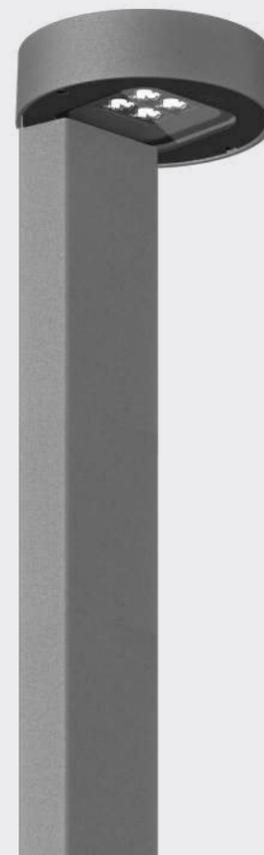


ARCHITECTURE AND THE ARTS  
PUBLIC SPACE

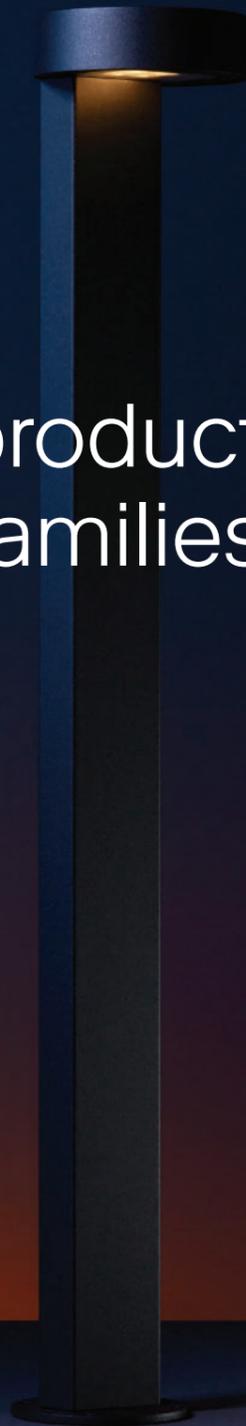
## *if, if* round

For paths, gardens and squares

When it all comes down to atmosphere, our *if* bollard luminaire is the perfect tool to direct light along walkways, gardens and squares in architectural surroundings. As an elegant continuation of the *if* bollard, *if*round and its slender form effortlessly blend in with any setting and environment. Be it in private gardens or on walkways, in residential areas or hotels: With its homogeneous illumination, *if*round is sure to meet even the highest demands of building owners, architects and planners.



product families



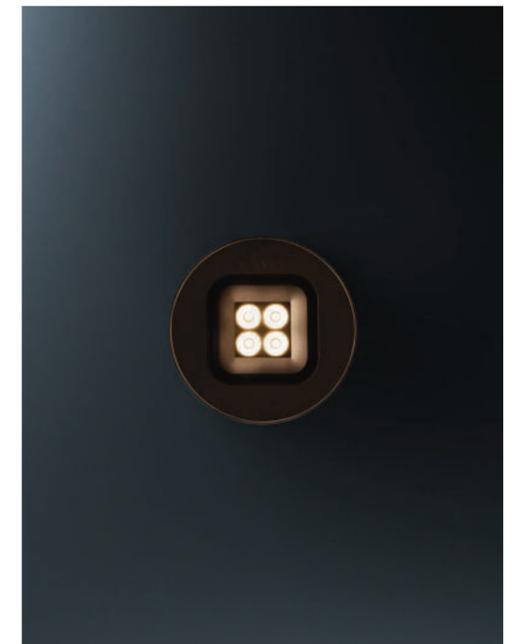
↳ if round-WD, AP06, 2,200 K



↳ if round-WB, AP07, 2,200 K



↳ if round-WU, AH02, 2,200 K



↳ if round-CL, AH02, 2,700 K

When it comes to atmosphere, our if round family, designed by Moritz Kessler, is the ideal solution for directional light on pavement, in gardens, and on squares in architectural settings. if round subtly adapts to any environment thanks to its elegant shape. With its even illumination, if round also meets the highest requirements of builders, architects, and planners. ↳ Video



“What if”

Artist duo beierle.goerlich explores how light transforms space into fantastic scenery – with photographs and installations, and with characters and props swapping places. Through its light, *if* has a transformative effect on any location. That way, a clearing becomes a venue and a world in which the imagination knows no limits. A place where anything could happen *if* ...

*if* ...



Although *if* is perfectly at home in classic architectural settings, beierle.goerlich decided not to depict it together with buildings. Instead, they took typical gardening activities such as mowing the lawn, barbecuing or tending to flowers out of the context of cultural landscapes and relocated them to a forest. In a series of surrealistic images, captured at dawn or dusk, the characters are placed next to each other without any apparent relationship: for instance, the forest fauna and the Woman in Black – a recurring figure in beierle.goerlich's work – whose activities in the woods are soberly observed by onlooking animals. Much like the unruffled wildlife, *if* is a quiet, reserved witness, whose light nonetheless powerfully sets the stage at the heart of the Bavarian Forest.



beierle.goerlich – that's photographer Edward Beierle and artist Jutta Görlich. Their work typically takes them into close proximity with architecture, and oftentimes to places that are undergoing some sort of transformation, which offers them new scope for exploration. For ewo, the duo has shifted their gaze and lens to the *if* bollard luminaire.





*if*round — slender elegance

*if*round adds yet another level of artistry and technology to the *if* product family. One particular detail makes the luminaire unmistakably recognisable as part of the *if* product family: the joint between the shaft and the head. *if*round stands out because the luminaire head can accommodate various A-Series lenses. For designers, this suddenly opens up the entire toolbox of our light-shaping technology – with symmetric and asymmetric light distributions and bespoke lighting configurations.



"As a trained architect, I am particularly fond of products that work in unison with buildings. With its pure, smooth geometry, *if round* is simple yet unmistakable."

– Hannes Wohlgemuth

*if round* — all about architecture

Be it in private gardens or on walkways, in residential areas or hotels: With its homogeneous illumination, *if round* is sure to meet even the highest demands of building owners, architects and planners. Especially since it is also available in a wall-mounted version that significantly extends its range of application in, on and around any building. And in public spaces, *if round* is the ultimate tool to create and gently fine-tune any high-quality drama, for nearby objects, surfaces and moods alike.

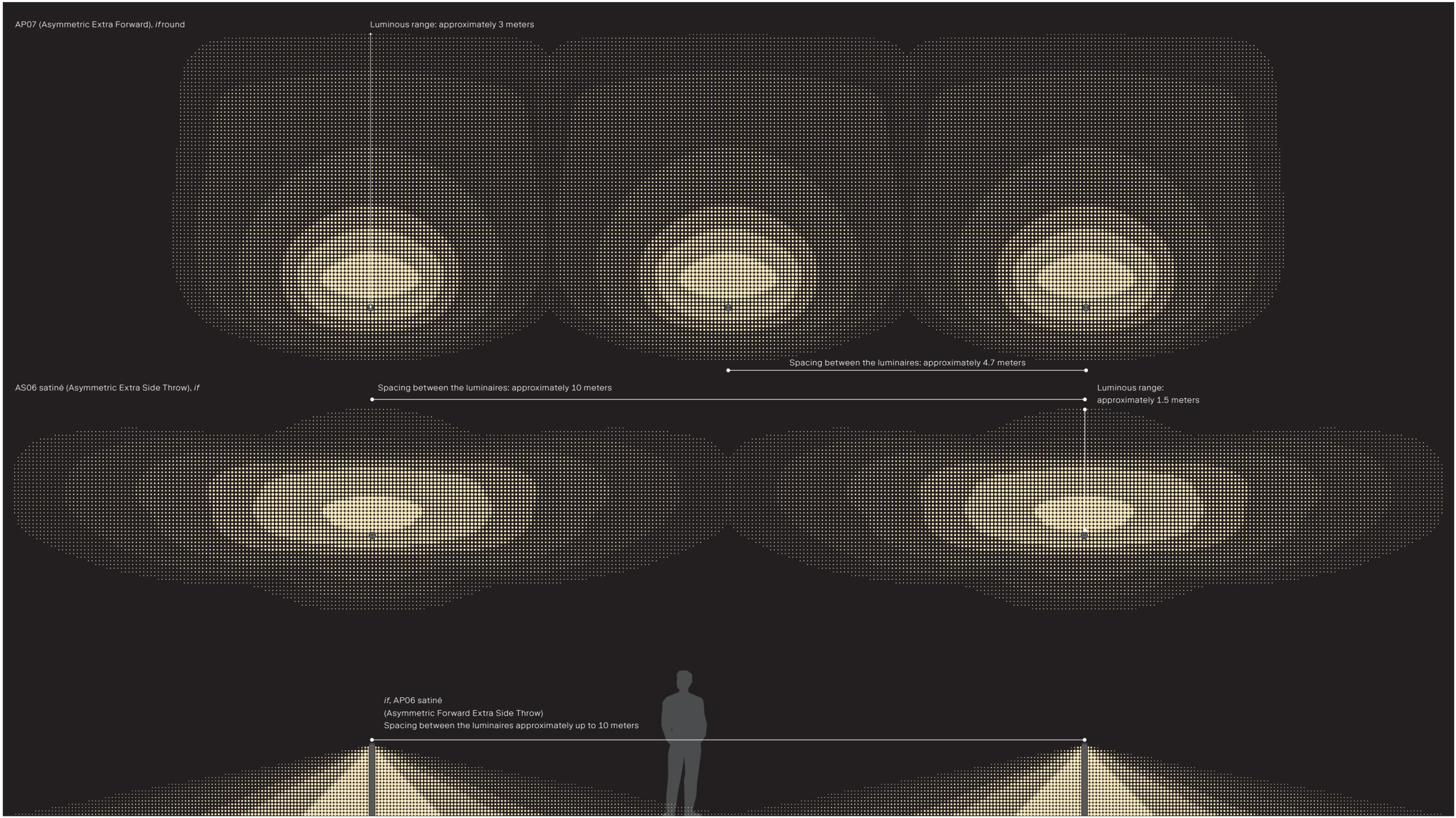




Luminous range – unrivalled efficiency

By using asymmetric lenses from the A-Series, a homogeneous illumination of up to 10 m to the side can be achieved – a feat that makes planning walkways

and paths far more efficient than with comparable bollards. And not just with the desired intensity, but also guaranteeing the most economical use of light.



Body of Light

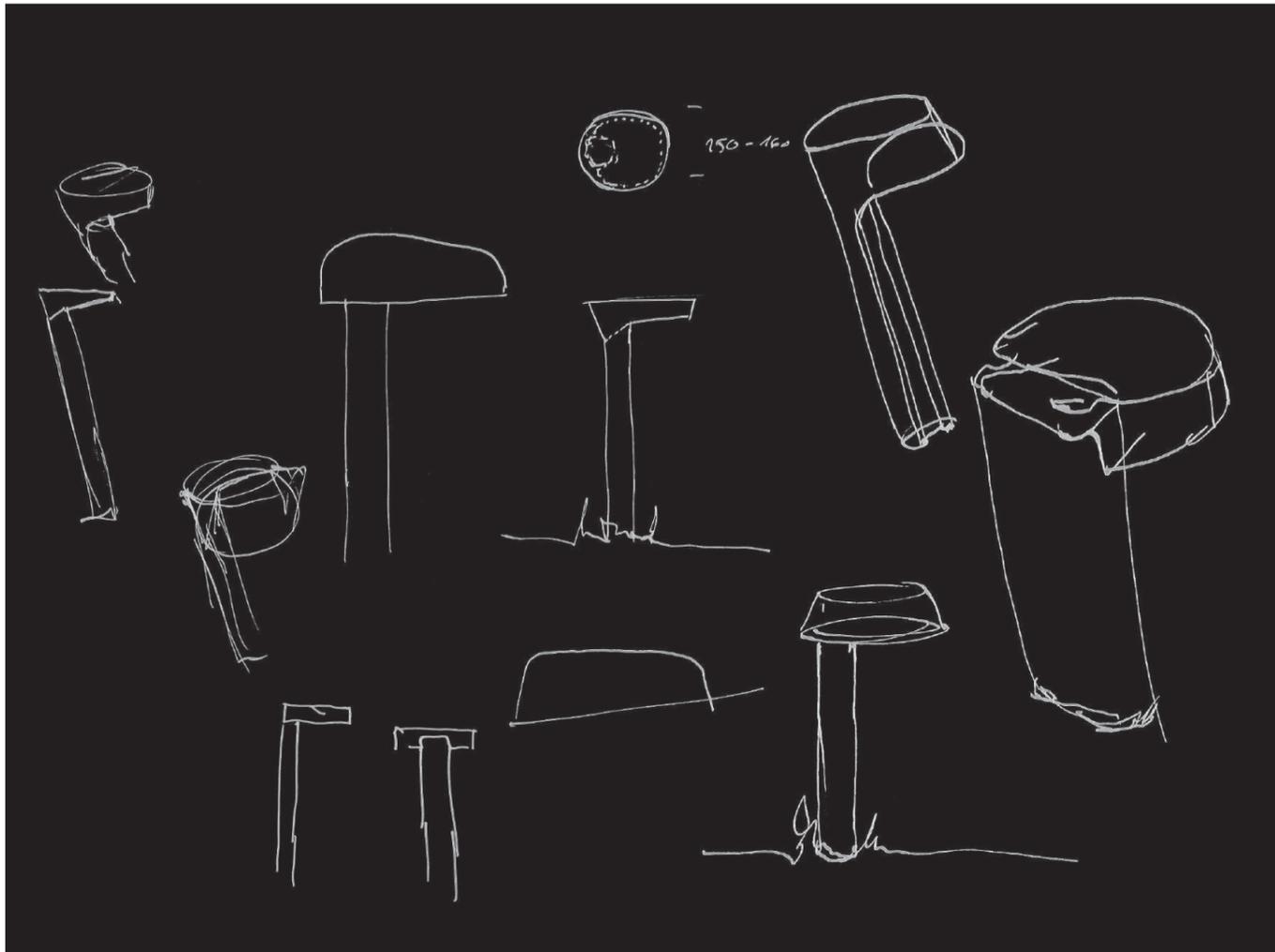


“Our motivation was to develop a simple bollard luminaire that, thanks to its sleek elegance, can discreetly be integrated into any environment. The design links opposites in complete harmony: soft spheres on the vertical plane and clear cuts at the horizontal level.”

— Moritz Kessler, product designer



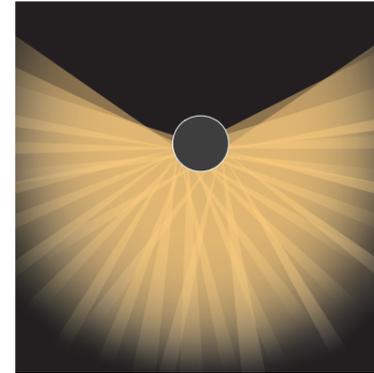
“In the housing, the shaft and the head are linked by a joint – a smooth connecting detail with a decidedly natural look. It is uncompromising in its shape and construction.”



Playful light

“For the paths that lead the guests to their villas, we created a perforated variation of the ifround that provides a distinctive and welcoming presence in the otherwise sparingly lit landscape. The resultant vibrancy is reminiscent of a collection of lanterns being left out to guide the guest home.”

— The Flaming Beacon, Lighting Designers



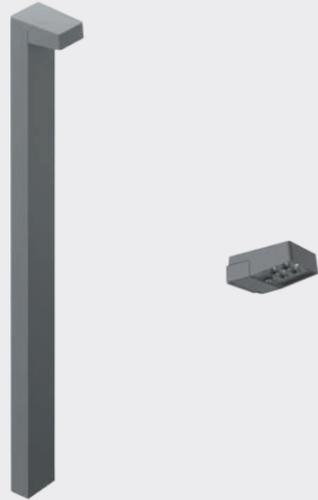
The eye-catching effect of our perforated screen. An ewoIndividual project for Park Hyatt Maldives Hadahaa and The Ritz Carlton Maldives, Fari Islands.





# if, ifround

if  
if-W



if round-BD  
if round-WD  
if round-WU  
if round-CL  
if round-WB



Precision lens optics  
\* also available in satiné version



AP05 satiné (Tilt 5.5°)  
Asymmetric Extra Forward



AP06 satiné (Tilt 5.5°)  
Asymmetric Forward Extra Side Throw



AS06 satiné (Tilt 5.5°)  
Asymmetric Extra Side Throw

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 80    CRI ≥ 80 on request



AG01  
Symmetric Narrow 10°



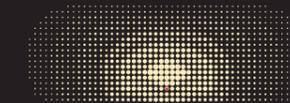
AG02  
Symmetric Medium 26°



AG03  
Symmetric Flood 50°



AG04  
Symmetric Elliptical 8°-40°



AP06  
Asymmetric Extra Forward



AP07  
Asymmetric Extra Forward



AH02  
Symmetric Wide Flood



AS06  
Asymmetric Extra Side Throw



AS08\*  
Asymmetric Side and Forward Throw



Shape your own light by combining any light distribution

2,200 K CRI ≥ 80    2,700 K CRI ≥ 80    3,000 K CRI ≥ 80

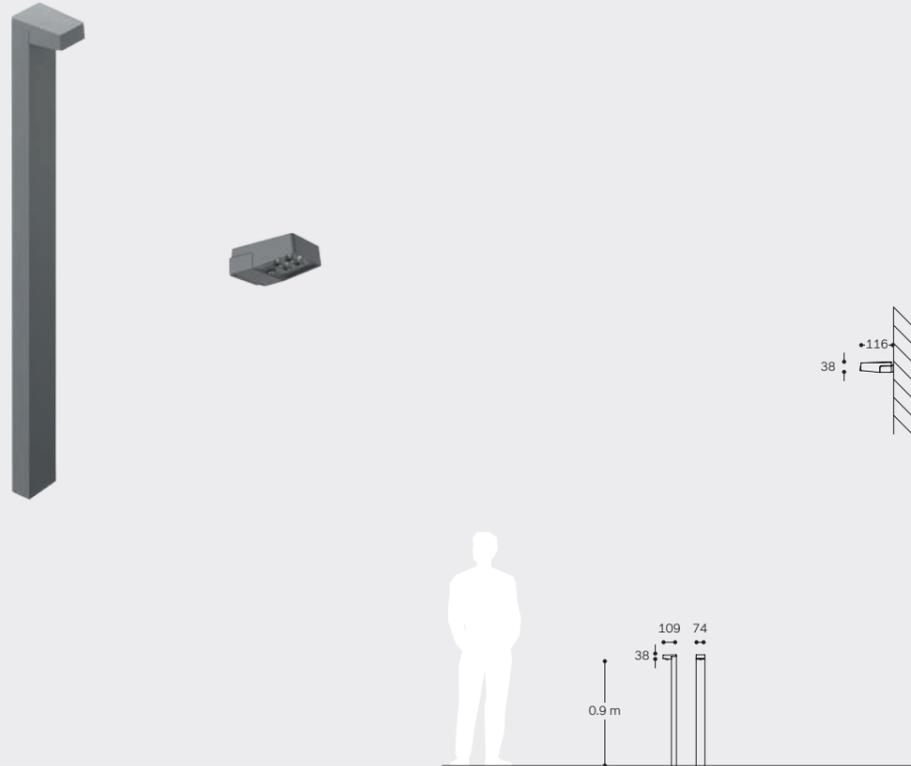


Control protocols

ON/OFF



Architecture and the arts  
Public space



Configurator

CE RoHS IP65/IP22 IK05

Housing

Housing material	Aluminum die-cast*
Housing finish	Polyester powder coating (ewoECP upon request***)
Finish standard colour	Silver grey (RAL9007 / DB 702)**
Cover	PMMA
Mounting options	Pole, wall

\* pole made of extruded aluminium profile  
\*\* other color on request  
\*\*\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	LPH [m] ①	l <sup>p</sup> ②	-l <sup>w</sup> ③	Weight [kg] ④
if	0.9	0.01	0.07	2.5
if-W	/	0.01	0.01	0.5

① other LPH available upon request    ② projected windage area [m<sup>2</sup>]    ③ lateral windage area [m<sup>2</sup>]    ④ max. weight  
⑤ pole included

Electrical

A-Series

Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	250
LED power max. [W]	5

Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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Driver

A-Series

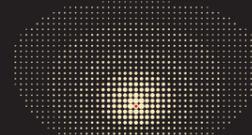
Control options	ON/OFF
Control accessories	Further accessories on request
Software	connex light management software for remote management of intelligent luminaire clusters



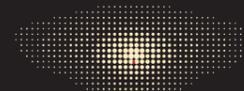
Precision lens optics



AP05 satiné (Tilt 5.5°)  
Asymmetric Extra Forward



AP06 satiné (Tilt 5.5°)  
Asymmetric Forward Extra Side Throw



AS06 satiné (Tilt 5.5°)  
Asymmetric Extra Side Throw

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 80    CRI ≥ 80 on request

Performance

Optics	AP05 satiné	AP06 satiné	AS06 satiné
MacAdam ellipses (SDCM)		≤ 5 SDCM	

Model	if	if-W
Light units	1	1
Luminous flux [lm]	280-350	280-350

Available designs



Single



Wall-mounted

Accessory

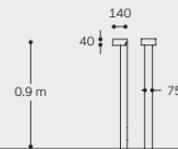
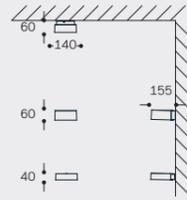


Ground spike

# if round

if round-BD  
if round-WD  
if round-WU  
if round-CL  
if round-WB

Architecture and the arts  
Public space



## Configurator

CE IP65 RoHS IK08

Housing	
Housing material	Aluminum die-cast*
Housing finish	Polyester powder coating, ewoECP upon request***
Finish standard colour	Silver grey (RAL 9007 / DB 702)**
Glass	Safety glass (ESG)
Mounting options	Pole, wall, ceiling
	* pole made of extruded aluminium profile
	** other color on request
	*** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements				
Model	LPH [m] ①	↑ ②	-↑ ③	Weight [kg] ④
if round-BD	0.9	0.02	0.07	3.0
if round-CL	/	0.02	0.01	1.1
if round-WD	/	0.02	0.01	0.8
if round-WU	/	0.02	0.01	0.8
if round-WB	/	0.02	0.01	0.9
	① other LPH available upon request	② projected windage area [m²]	③ max. weight	
		④ lateral windage area [m²]	⑤ pole included	

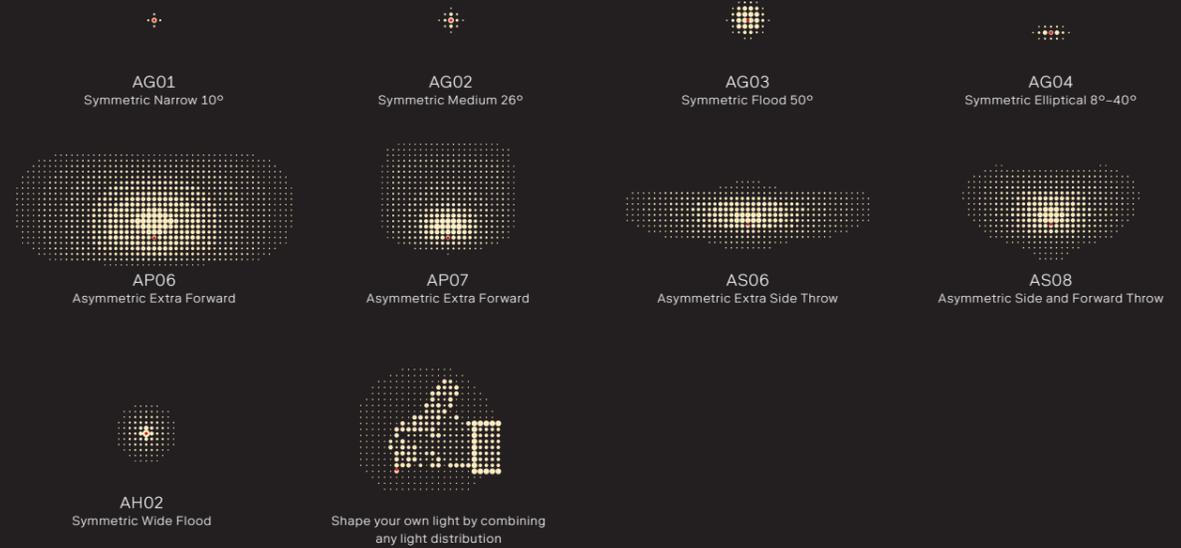
Electrical	
A-Series	
Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	650
LED power max. [W]	10

Operating conditions	
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options

Driver	
A-Series	
Control options	ON/OFF
Control accessories	Further accessories on request
Software	connex light management software for remote management of intelligent luminaire clusters



Precision lens optics



2,200 K CRI ≥ 80    2,700 K CRI ≥ 80    3,000 K CRI ≥ 80

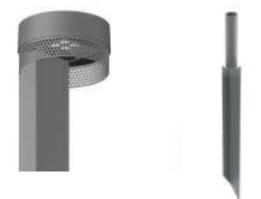
Performance										
Optics	AH02	AG01	AG02	AG03	AG04	AP06	AP07	AS06	AS08	
MacAdam ellipses (SDCM)	≤ 5 SDCM									
Model	if round-BD	if round-CL	if round-WD	if round-WB	if round-WU					
Light units	1	1	1	1	1					
Luminous flux [lm]	190-730	190-730	190-730	190-730	190-730					

## Available designs



BD (Single)    CL (Ceiling)    WD (Wall Downlight)    WB (Wall Uplight and Downlight)    WU (Wall Uplight)

## Accessories



Diffusor    Ground spike



ARCHITECTURE AND THE ARTS  
PUBLIC SPACE

## EL

New levels of visual comfort for  
urban living

A luminaire for illuminating paths, setting  
accents and even illuminating facades.





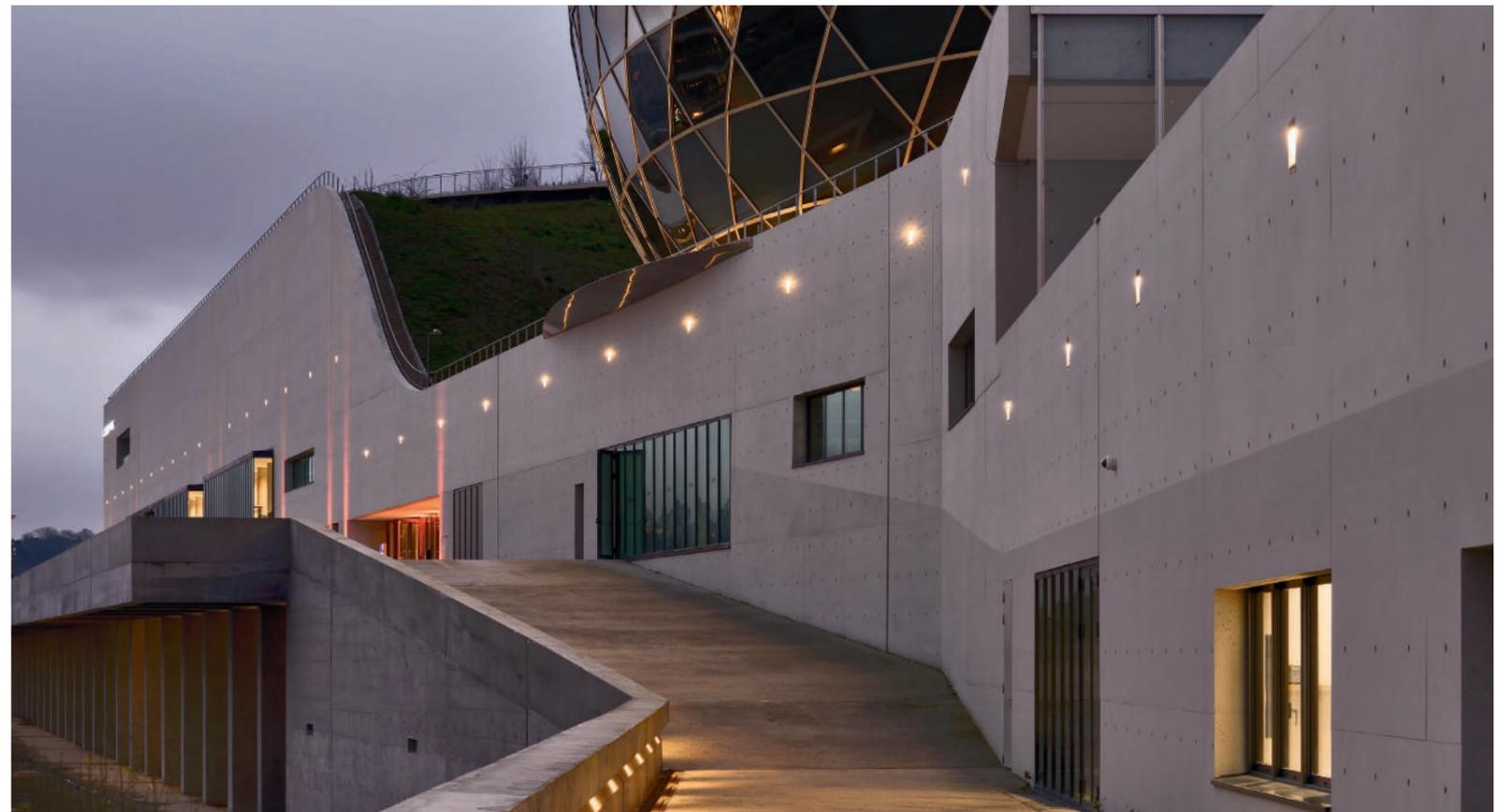
ST. MARTIN TOWER  
Frankfurt am Main, Germany, 2015  
Kubus Freiraumplanung Gbr  
ewoIndividual, EL



CITTADELLA NUOVA  
Pisa, Italy, 2014  
Fabio Daole  
ewoIndividual, EL



LA SEINE MUSICALE  
Boulogne-Billancourt, France, 2016  
8.18 paris  
ewoIndividual, EL



LUXTRAM  
Luxembourg, Luxembourg, 2017  
Atelier Lumière  
ewoIndividual, EL



WALDKLINIK  
Eisenberg, Germany, 2021  
HDR Germany, Matteo Thun & Partners  
EL



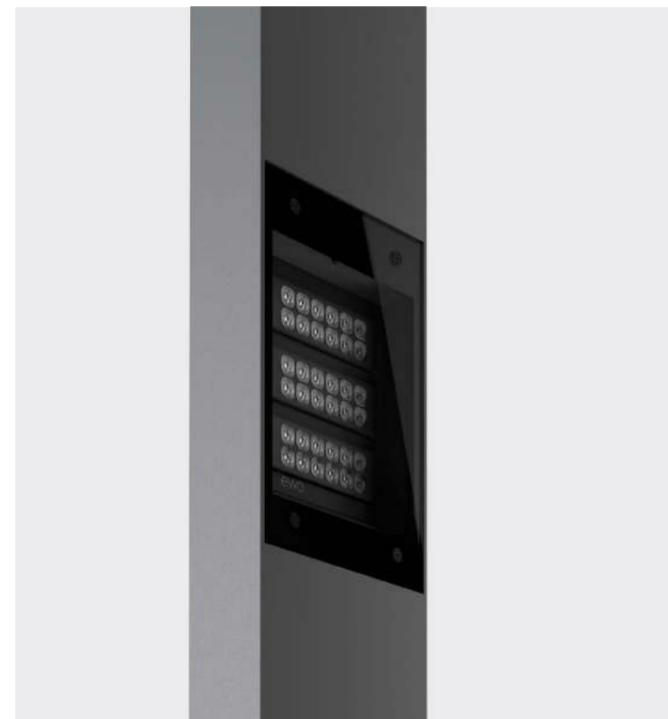
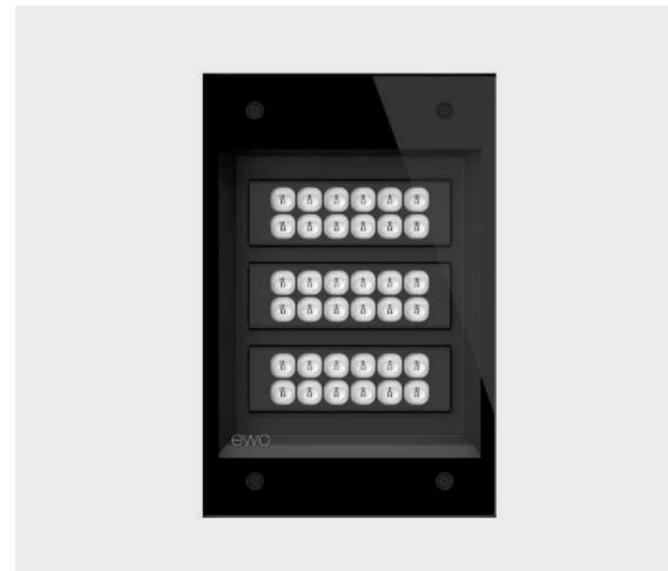
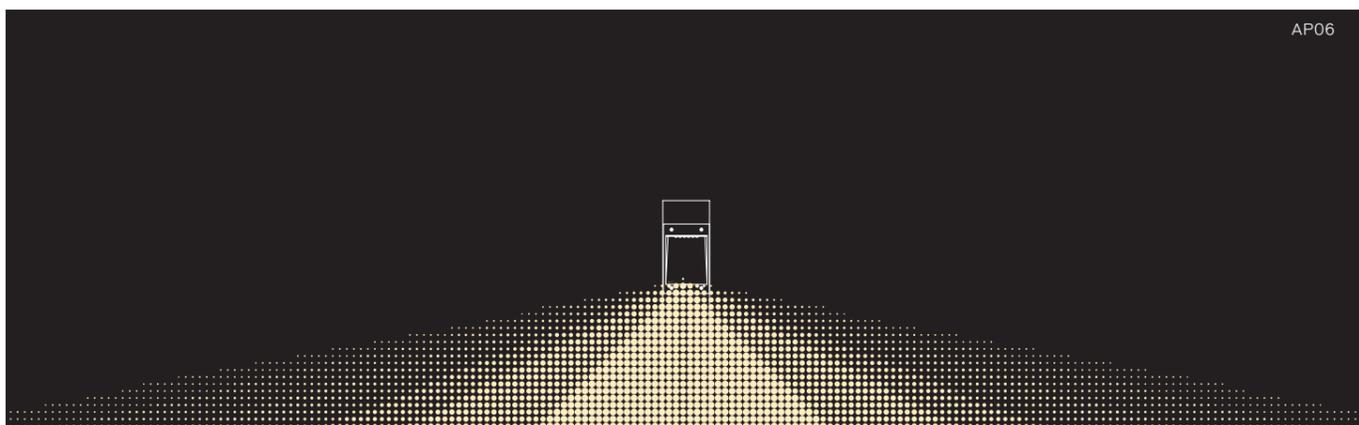
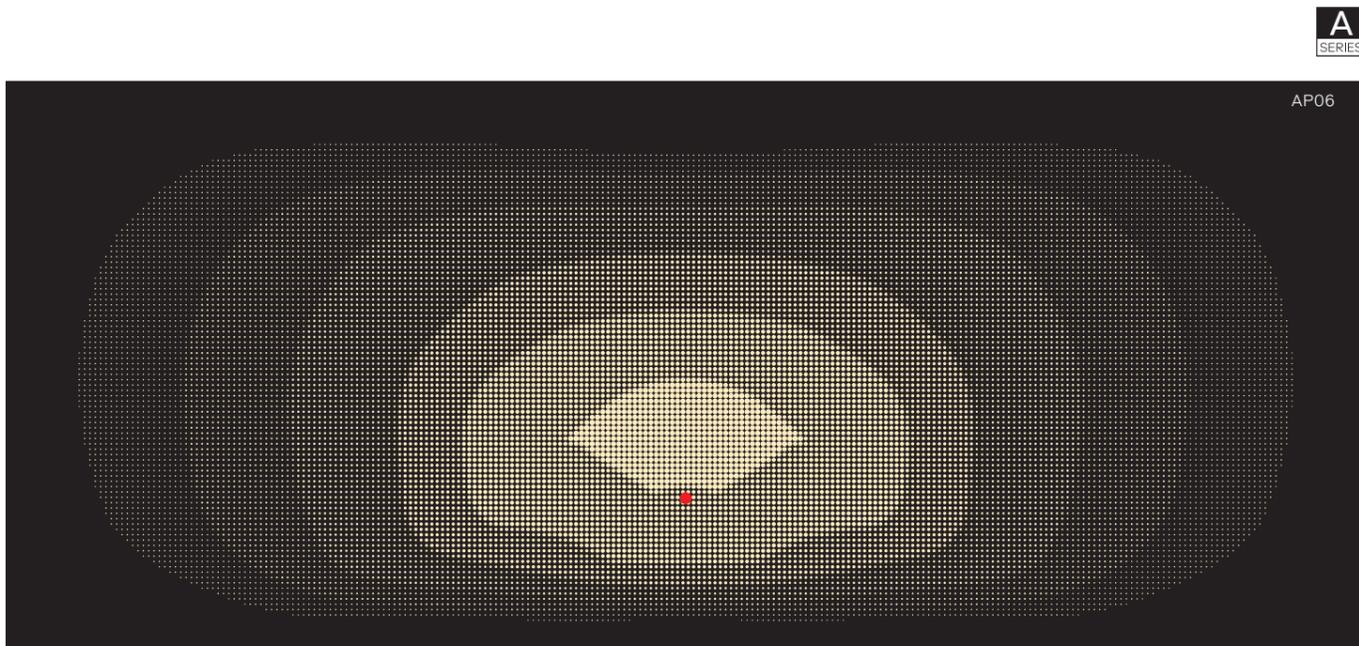
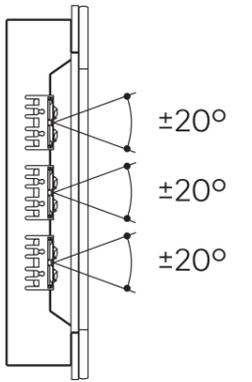
XAL COMPETENCE CENTER  
Graz, Austria, 2011-2013  
XAL  
FA, EL





The EL family is compatible with ewo's A-Series precision lens optic or ewoLightTile, low glare light guiding panels. Fitted with A-Series optics, the EL becomes an ideal luminaire for street-lighting and pathway applications. The homogenous yet precise ewoLightTile optics on the other hand, brings dynamic lighting to public spaces to improve wellbeing outside.

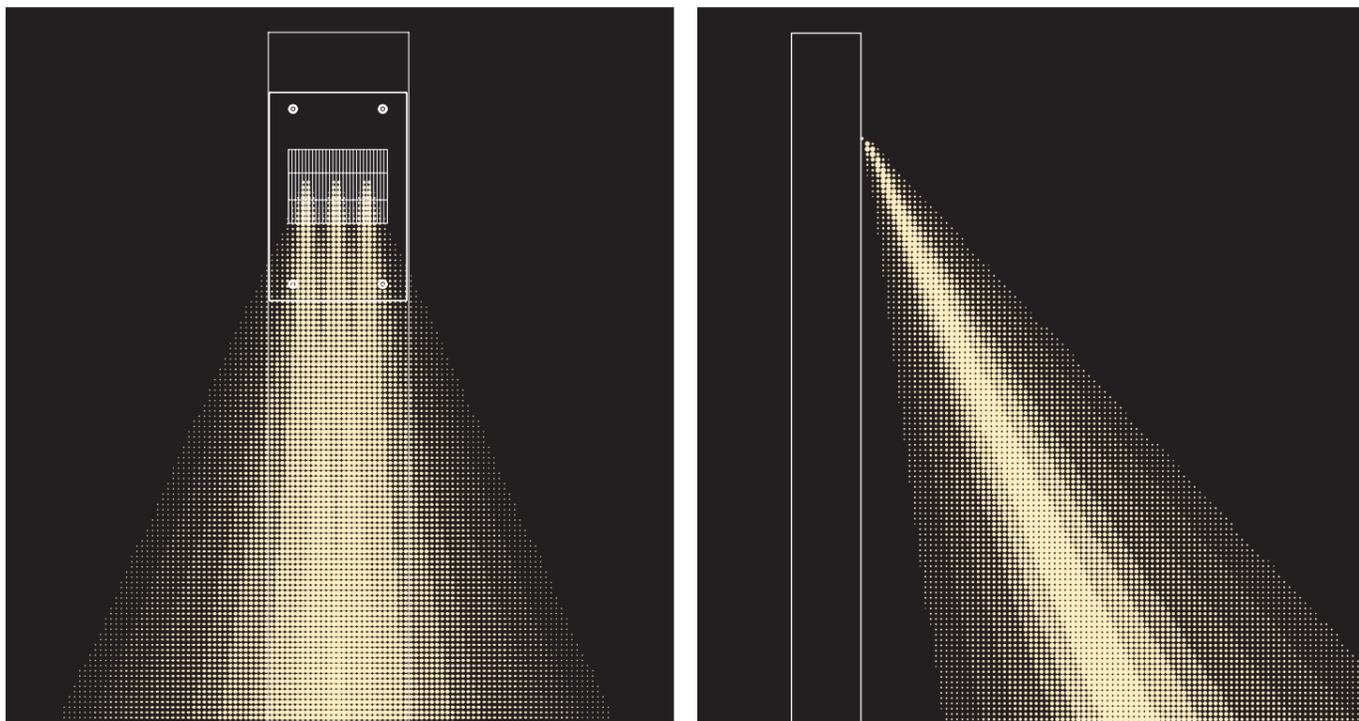
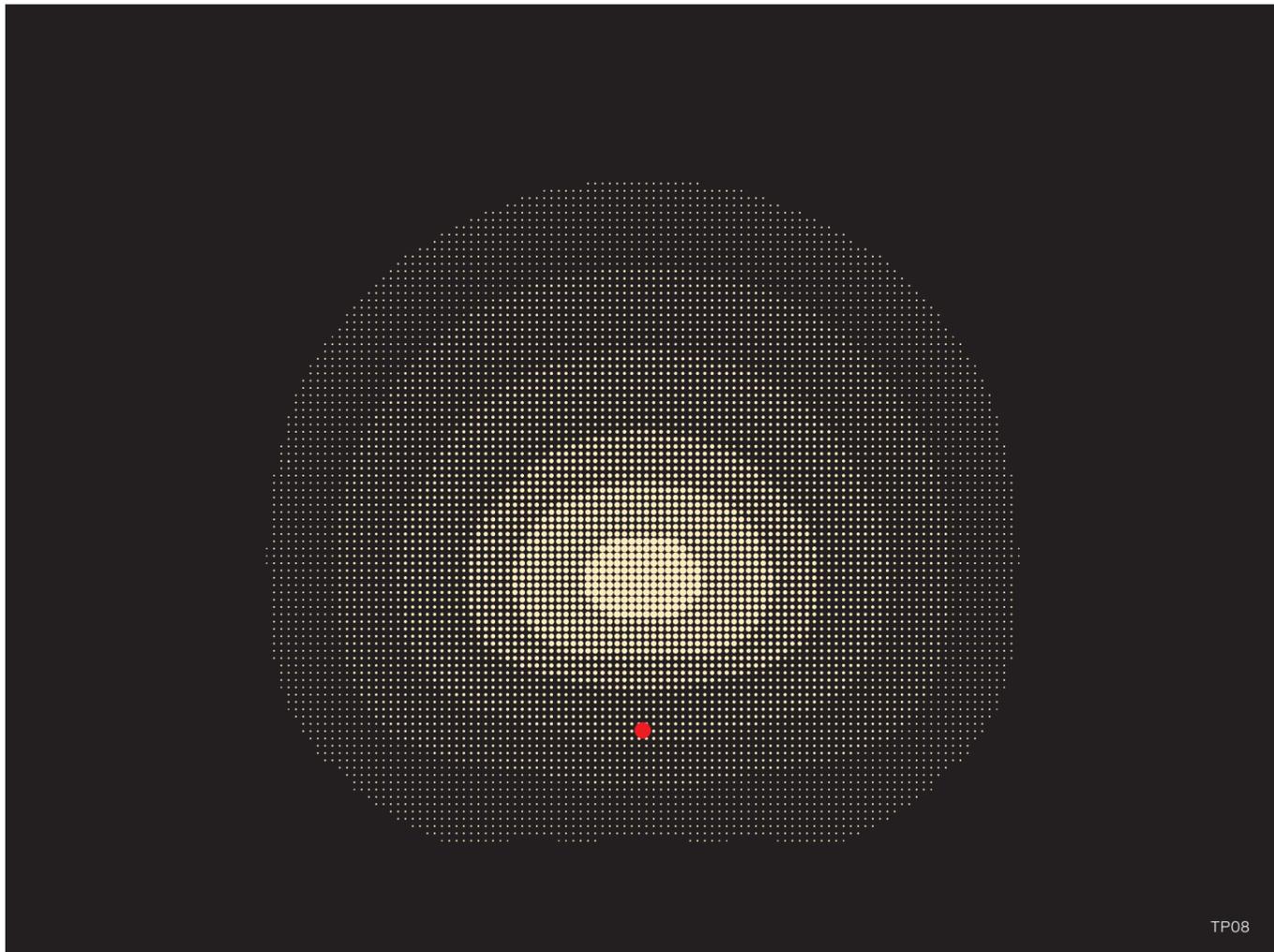
EL light columns allow for the configuration of up to 6 light units. Each of the light units can be configured with the desired A-Series optic to create just the right light distribution for a specific project. This freedom of the configuration of optics, helps to exactly direct the light to where it's needed.



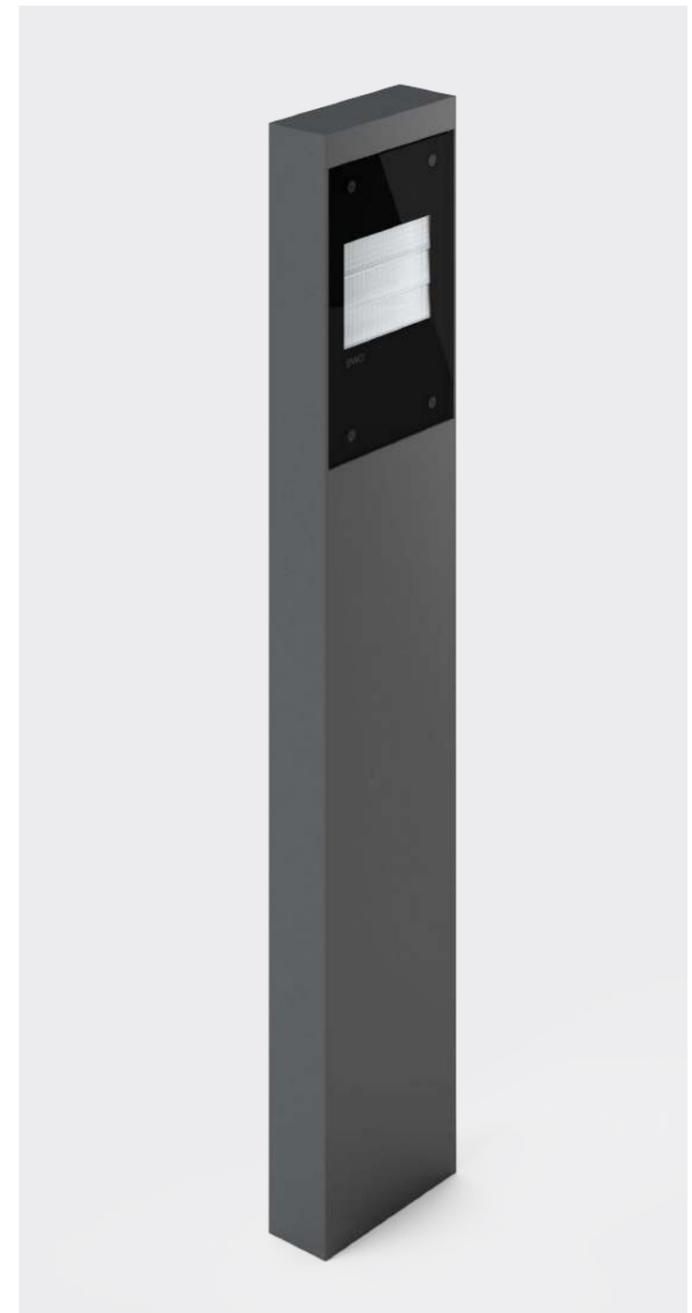
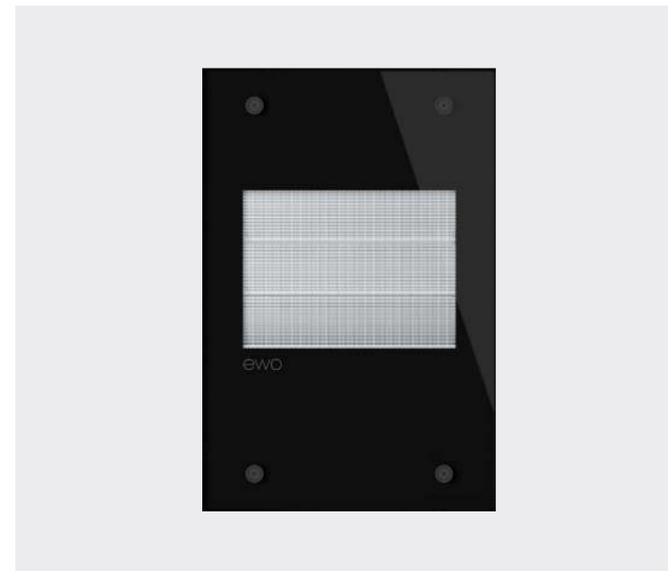
A  
SERIES

AP06

AP06



Dynamic Lighting has the power to transform public spaces into urban sanctuaries, improving people's wellbeing outdoors. The ewoLightTile optic not only achieves excellent colour mixing, it also conceals the LED light points from view so onlookers can enjoy the light effect without experiencing unwanted glare. And with ewo's precision optics, also the dynamic light is precisely directed for regulation compliant lighting schemes.





PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

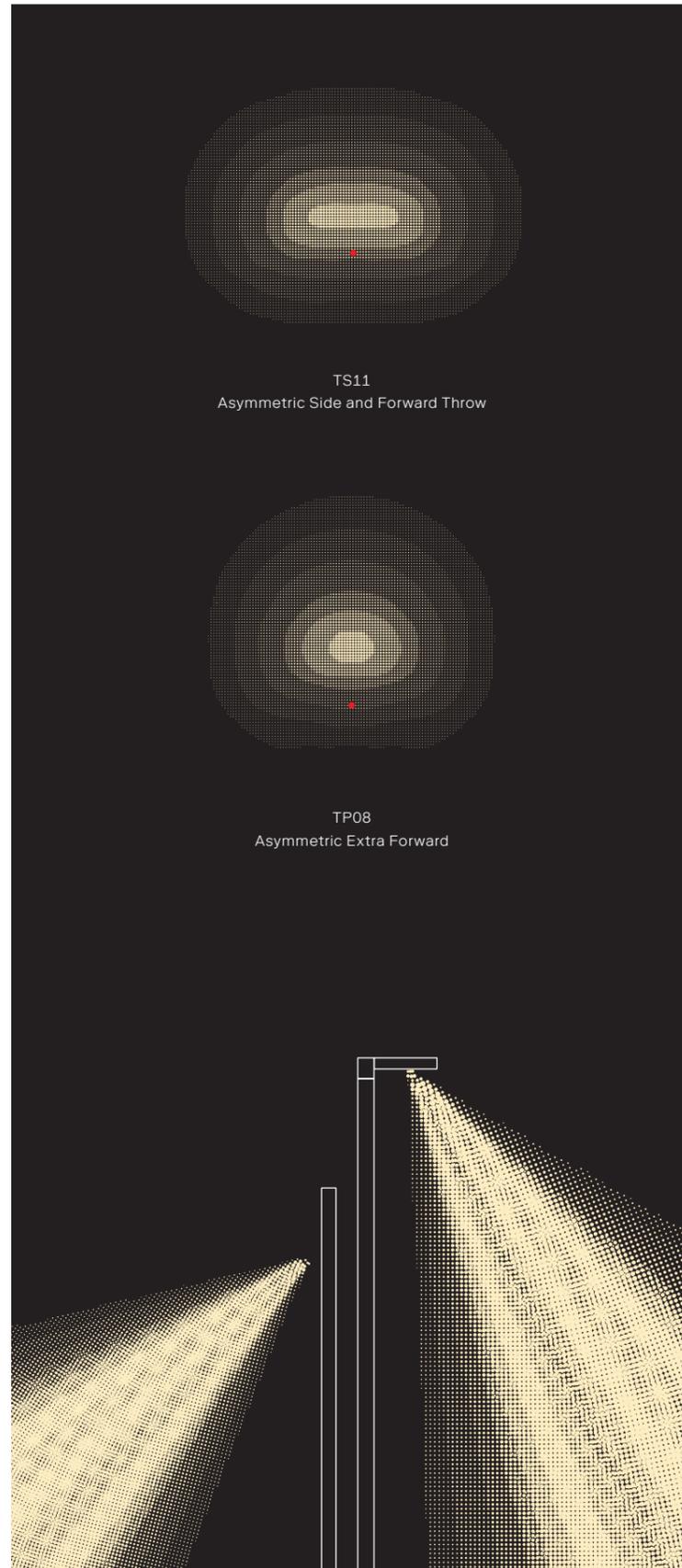
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

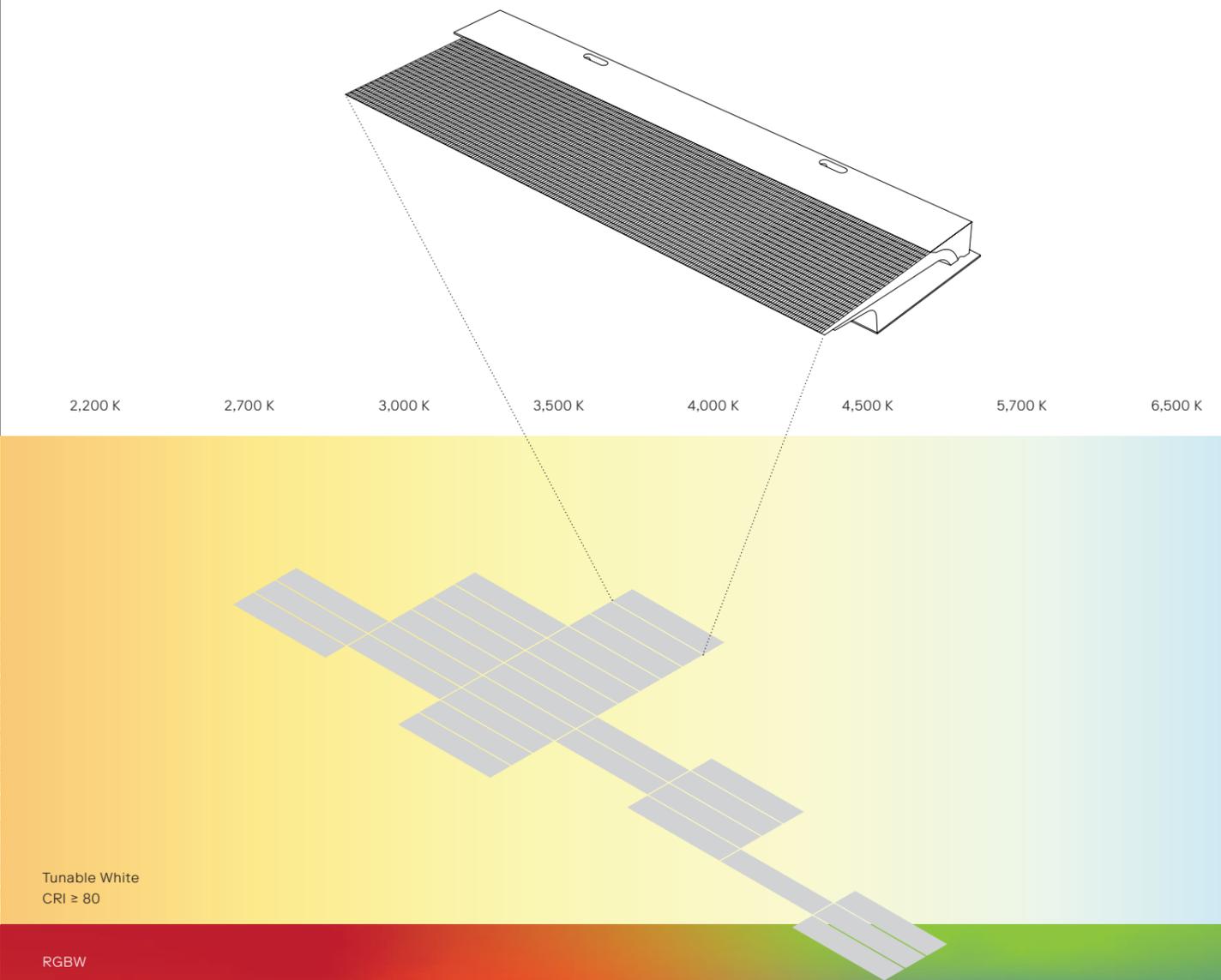
vertical array  
luminous range: 3 x LPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

## Modular Combinations

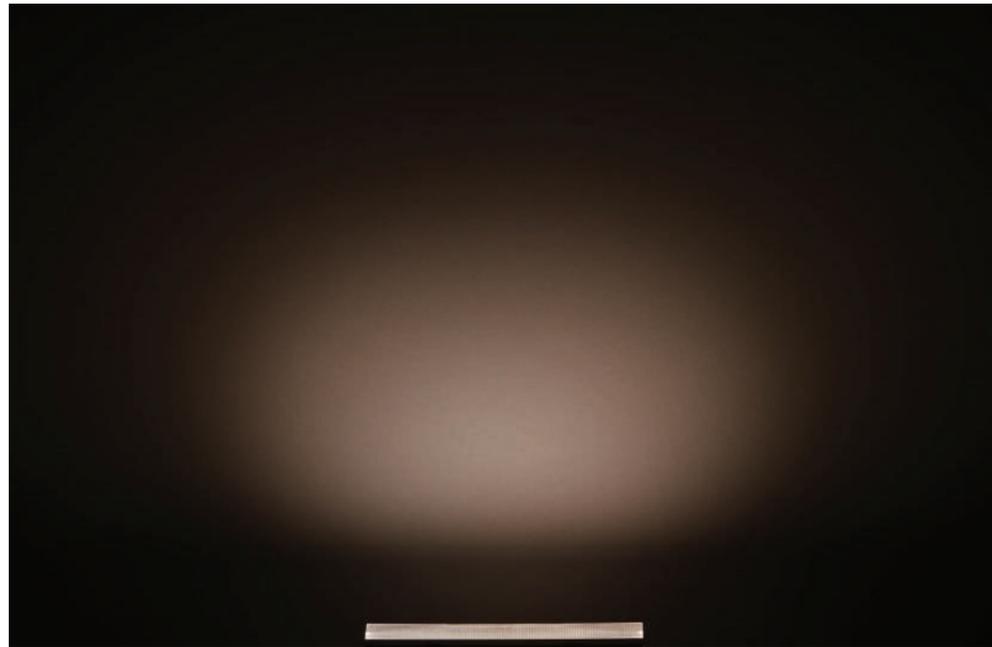
For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.



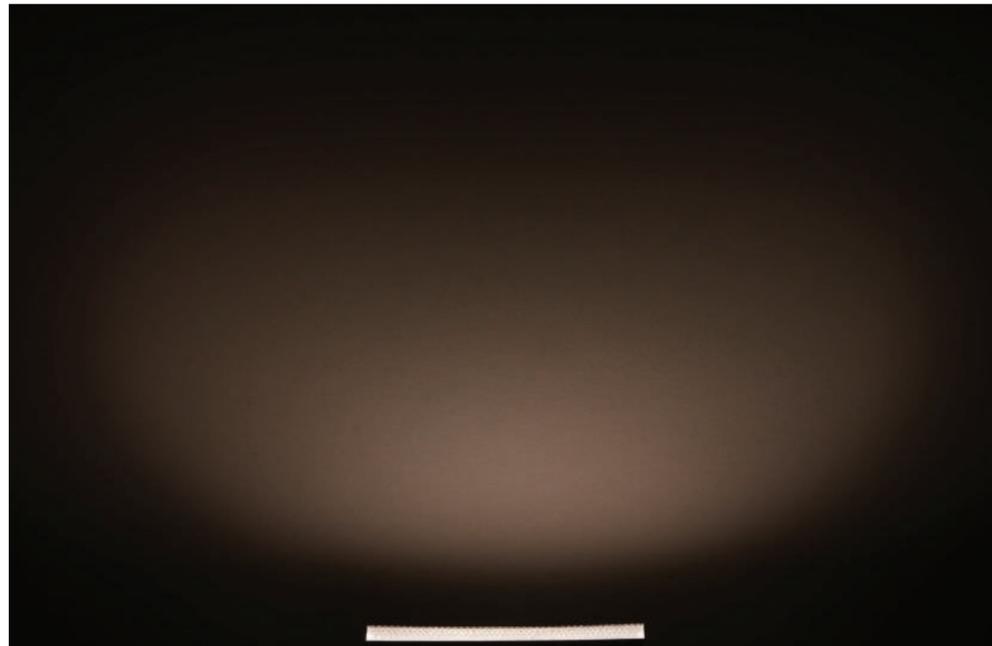
2,200 K    2,700 K    3,000 K    3,500 K    4,000 K    4,500 K    5,700 K    6,500 K

Tunable White  
CRI ≥ 80

RGBW



TP08

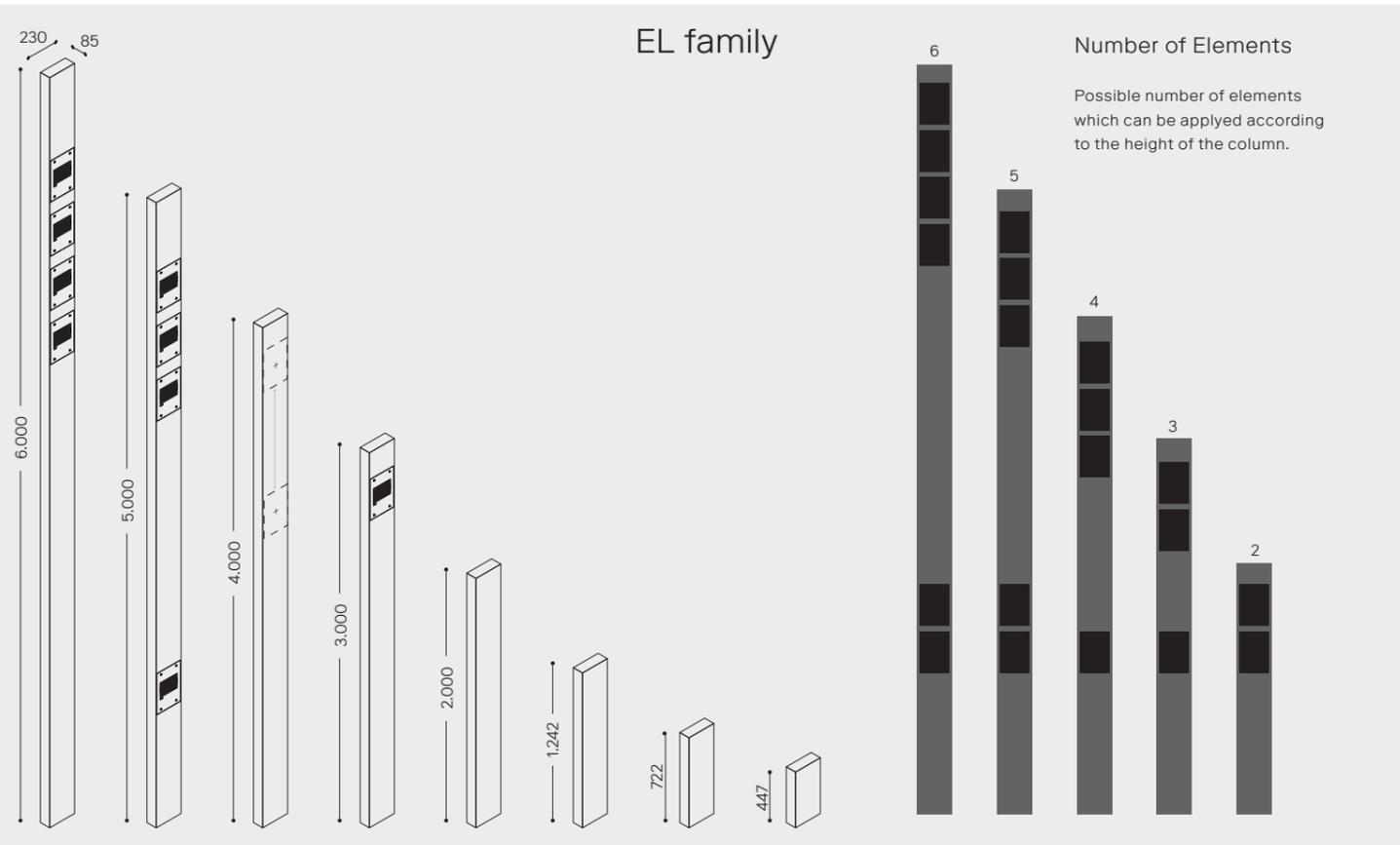


TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.

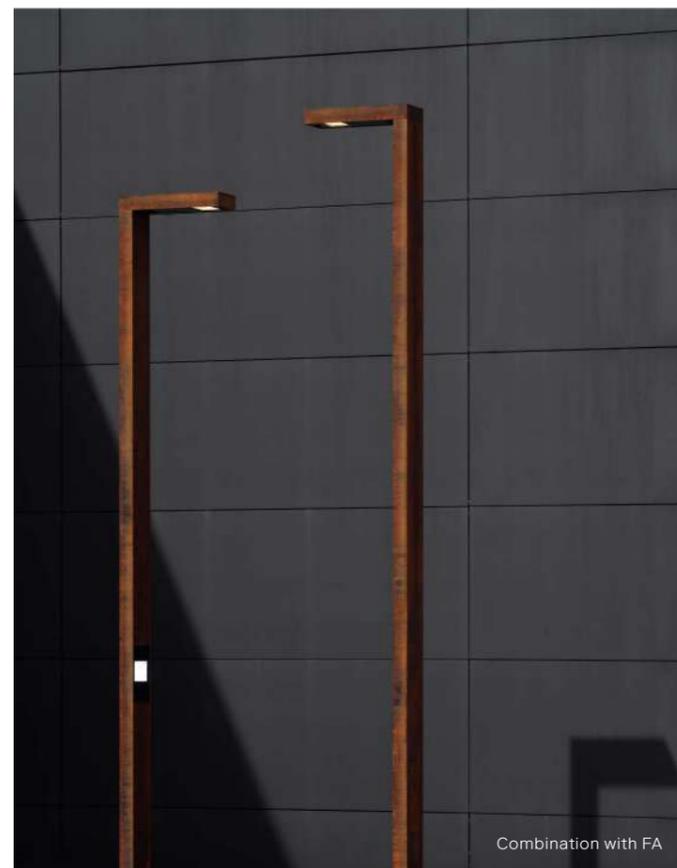


ewoLightTile



**Function**

The EL family of luminaires looks great and is also strong. With an IK of 10 and single-pane safety glass, this product can resist the daily challenges public lighting needs to endure.



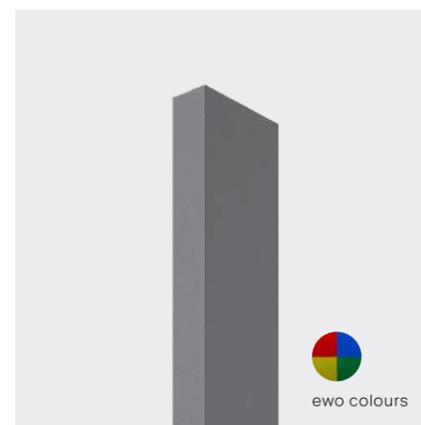
**Form**

EL light columns come in a range of sizes from 447mm height all the way to 6m. This makes the EL family of luminaires a versatile tool for both pathway, square and street lighting. Furthermore, the modular nature of the light elements, allows for integration into other product families such as the FA, with an EL light element recessed into the pole.



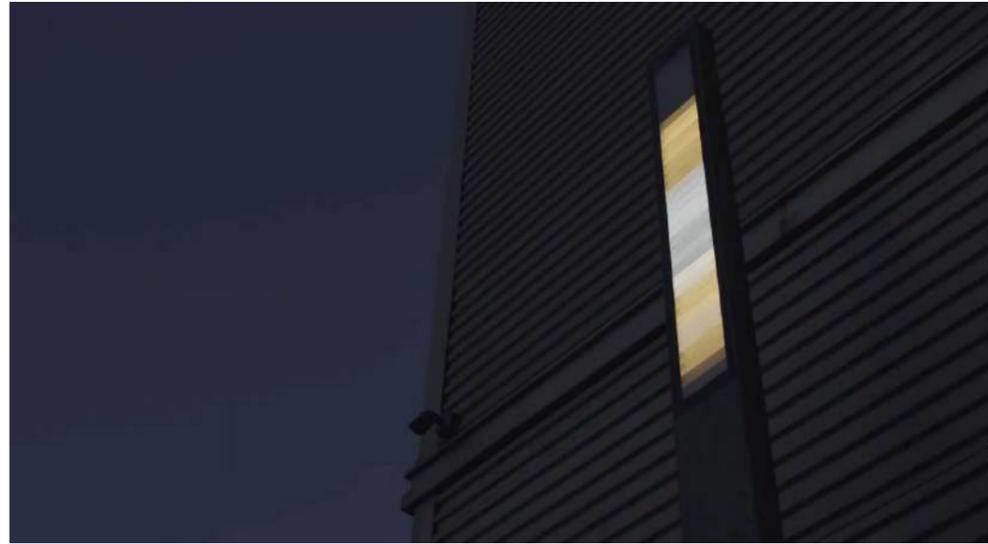
**Finish**

With its elegant COR-TEN finish option, EL light columns can transform public areas into modern urban retreats. And if other finishes are needed, ewo offers an extended colour palette of finishes that can be chosen to best suit a space.



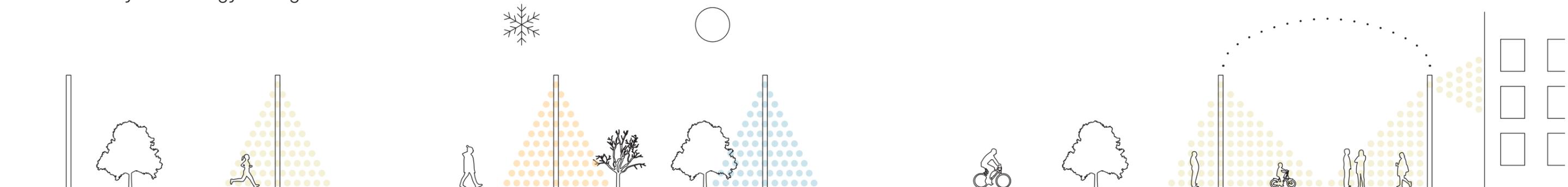


Stay in control  
With DALI, 1-10 V and stand alone line switch control, the EL family can easily be controlled to maximise both safety and energy saving.



Play with colour  
Cityscapes are being transformed every day in the pursuit to creating dramatic spaces and enticing city centres. Controlling dynamic EL lighting solutions with DALI T8 will enable scene setting, automated lighting adjustment and an introduction to circadian lighting during the hours of darkness.

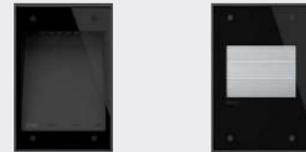
Get smart  
EL light columns can also be specified with Zhaga interface for smart city integration and intelligent central lighting control. This is an important feature to onboard urban lighting into the internet of things.



BODY OF LIGHT



BOLLARD  
EL380  
EL710  
EL1250



A-Series  
1 recessed  
lighting unit

T-Series  
2-3 lighting  
units

LIGHT COLUMNS  
EL2000  
EL3000  
EL4000  
EL5000  
EL6000

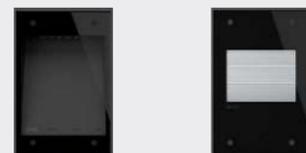
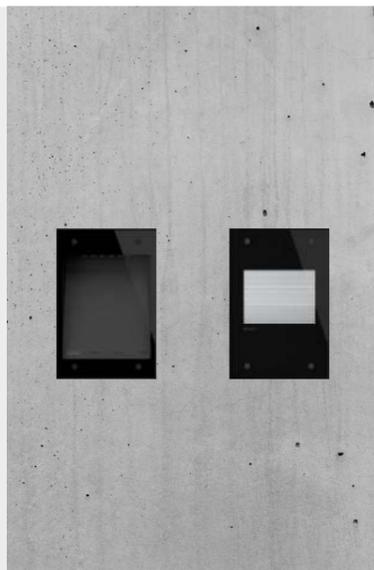


A-Series  
1 recessed  
lighting unit

A-Series  
1-3 lighting  
units

T-Series  
2-3 lighting  
units

WALL  
EL-W



A-Series  
1 recessed  
lighting unit

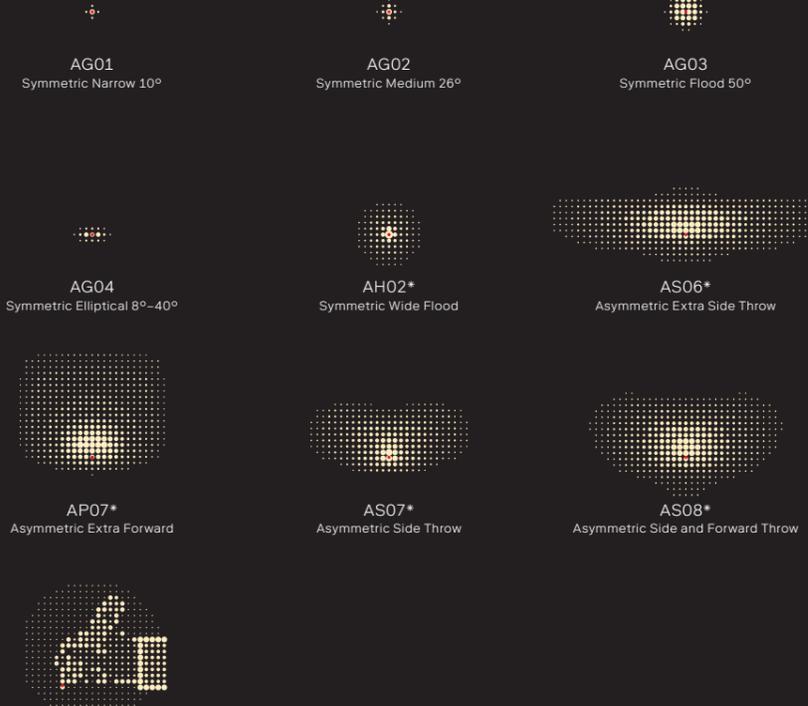
T-Series  
2-3 lighting  
units

SHAPE OF LIGHT



A  
SERIES

Precision lens optics  
\* also available in satiné version



AG01  
Symmetric Narrow 10°

AG02  
Symmetric Medium 26°

AG03  
Symmetric Flood 50°

AG04  
Symmetric Elliptical 8°-40°

AH02\*  
Symmetric Wide Flood

AS06\*  
Asymmetric Extra Side Throw

AP07\*  
Asymmetric Extra Forward

AS07\*  
Asymmetric Side Throw

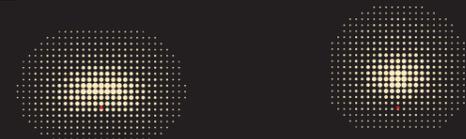
AS08\*  
Asymmetric Side and Forward Throw

Shape your own light by combining  
any light distribution



T  
SERIES

ewoLighTile: low glare light-guiding panels



TS11  
Asymmetric Side and Forward Throw

TP08  
Asymmetric Extra Forward



INTELLIGENCE OF LIGHT



A  
SERIES

Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
Line Switch	L/S

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

T  
SERIES

Control protocols

DALI 2 T8	T8 DALI
-----------	------------

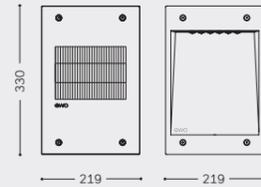
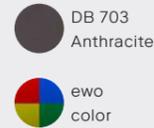
Programming options

Night dimming
---------------

# EL Bollard

EL380  
EL710  
EL1250

Architecture and the arts  
Public space



[Configurator](#)

CE RoHS IK10

## Housing

Housing material	Extruded aluminium profile (optionally COR-TEN steel)
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Silver grey (RAL 9007 / DB 702)*
Glass	Safety glass (ESG)
Mounting options	Pole * other color on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

## Measurements

Model	LPH [m]	⊕ <sup>1</sup>	⊖ <sup>2</sup>	Weight [kg]
EL380	/	0.02	0.10	13.5*
EL710	/	0.02	0.17	17.0*
EL1250	/	0.02	0.29	27.0*

<sup>1</sup> projected windage area [m<sup>2</sup>]    \* buried base included  
<sup>2</sup> lateral windage area [m<sup>2</sup>]

## Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	600	225
LED power max. [W]	67	36

## Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

## Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V LS	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



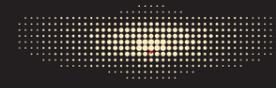
Precision lens optics



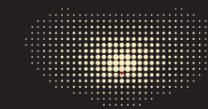
ewoLightTile: low glare light-guiding panels



AP07 satiné  
Asymmetric Extra Forward



AS06 satiné  
Asymmetric Extra Side Throw



AS08 satiné  
Asymmetric Side and Forward Throw



TS11  
Asymmetric Side and Forward Throw



Shape your own light by combining any light distribution



TP08  
Asymmetric Extra Forward



## Performance

Distribution	AP07 satiné	AS06 satiné	AS08 satiné	TS11	TP08
MacAdam ellipses (SDCM)		≤ 5 SDCM			≤ 5 SDCM

Model	EL380	EL710	EL1250	EL380	EL710	EL1250
Light units	1	1	1	1	1	1
Luminous flux [lm]	300-1,100	300-1,100	300-7,500	2,700	2,700	2,700

## Models/equipment variations



A-Series  
Pedestrian path  
Accent lighting element  
1 lighting unit



T-Series  
Pedestrian path  
Accent lighting element  
2-3 lighting units

## Surface



Aluminium polyester powder coated

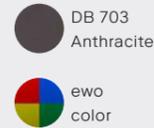


COR-TEN steel

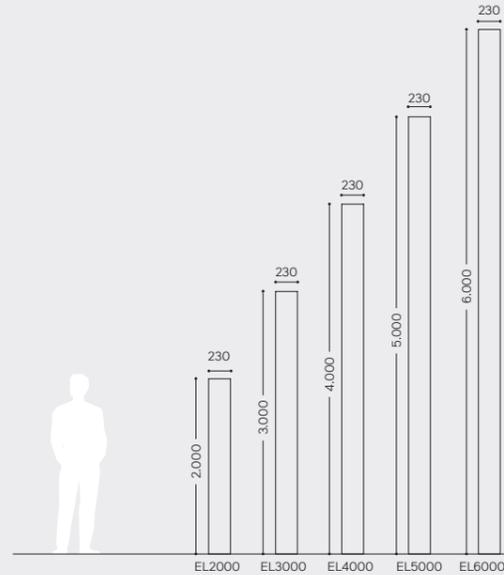
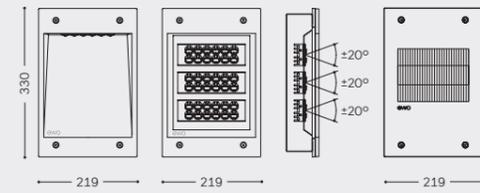
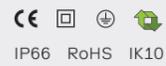
# EL Light Columns

EL2000  
EL3000  
EL4000  
EL5000  
EL6000

Architecture and the arts  
Public space



[Configurator](#)



**A** SERIES Precision lens optics  
\* also available in satiné version

**T** SERIES ewoLightTile: low glare light-guiding panels

## Housing

Housing material	Extruded aluminium profile (optionally COR-TEN steel)	
Housing finish	Polyester powder coating (ewoECP upon request**)	
Finish standard colour	Silver grey (RAL 9007 / DB 702)*	
Glass	Safety glass (ESG)	
Mounting options	Pole * other color on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance	

## Measurements

Model	LPH [m]	l <sub>p</sub> ①	-l <sub>p</sub> ②	Weight [kg]
EL2000	/	0.02	0.46	64.0*
EL3000	/	0.02	0.69	77.0*
EL4000	/	0.02	0.92	90.0*
EL5000	/	0.02	1.15	103.0*
EL6000	/	0.02	1.38	116.0*

① projected windage area [m<sup>2</sup>]  
② lateral windage area [m<sup>2</sup>]  
\* telescopic element included with anchor cage

## Performance

Optics	AG01	AG02	AG03	AG04	AH02	AS06	AP07	AS07	AS08	TS11	TP08
MacAdam ellipses (SDCM)	≤ 5 SDCM						≤ 5 SDCM				

Model	EL2000	EL3000	EL4000	EL5000	EL6000	EL2000	EL3000	EL4000	EL5000	EL6000
Light units	1-2	1-3	1-4	1-5	1-6	1-2	1-3	1-4	1-5	1-6
Lumin. flux [lm]	300-15,100	300-22,700	300-30,300	300-37,900	300-45,500	5,400	8,100	10,800	13,500	16,200

## Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. mA	600	225
LED power max. [W]	400	216

## Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

## Driver

	A-Series	T-Series
Control options	ON OFF DALI LYS	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

## Equipment variations



A-Series Pedestrian path  
1 lighting unit

A-Series Façade / Object lighting element  
1-3 lighting units

T-Series Pedestrian path Accent lighting element  
2-3 lighting units

## Product variations



Aluminium polyester powder coated

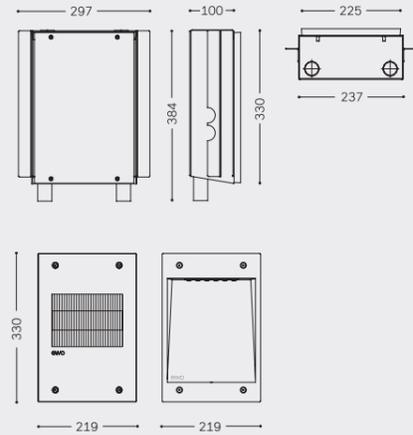
COR-TEN steel

Combinations with FA

# EL Wall

EL-W

Recessed walkway lighting



[Configurator](#)

CE IP66 RoHS IK10

## Housing

Housing material	Stainless steel
Glass	Safety glass (ESG)
Mounting options	Wall

## Measurements

Model	LPH [m]	IP	Weight [kg]
EL-W	/	/	6.0

## Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	600	225
LED power max. [W]	65	36

## Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

## Driver

	A-Series	T-Series
Control options	ON OFF DALI 1-10V L/S	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics



ewoLightTile: low glare light-guiding panels



AP07 satiné  
Asymmetric Extra Forward



AS06 satiné  
Asymmetric Extra Forward



AS08 satiné  
Asymmetric Side and Forward Throw



TS11  
Asymmetric Side and Forward Throw



Shape your own light by combining any light distribution



TP08  
Asymmetric Extra Forward

Color and CRI options: 2,200 K (CRI ≥ 70), 2,700 K (CRI ≥ 70), 3,000 K (CRI ≥ 80), 4,000 K (CRI ≥ 70), 5,700 K (CRI ≥ 70), CRI ≥ 80 on request, Tunable White (CRI ≥ 80), RGBW.

## Performance

Optics	AP07 satiné	AS06 satiné	AS08 satiné	TS11	TP08
MacAdam ellipses (SDCM)	≤ 5 SDCM			≤ 5 SDCM	

Model	EL-W	EL-W	EL-W	EL380	EL710	EL1250
Light units	1	1	1	1	1	1
Lumin. flux [lm]	300-1,100	300-1,100	300-7,500	2,700	2,700	2,700

## Models/equipment variations



A-Series  
Pedestrian path  
Accent lighting element  
1 lighting unit



T-Series  
Pedestrian path  
Accent lighting element  
2-3 lighting units

## ZA

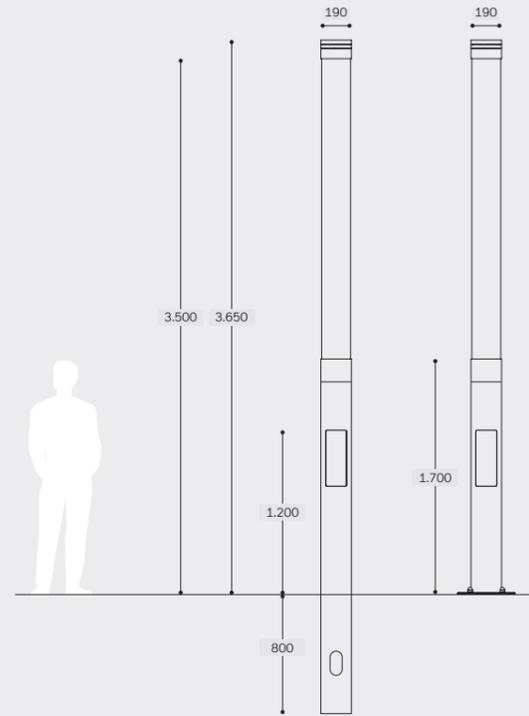
### Urban light column

The ZA light column is an ideal tool to enhance the visitor experience of urban squares and parks. Aesthetically, satiné versions of the ZA light column with its opaque light contribute to the look and feel of open outdoor spaces. Functionally, ZA is also available with asymmetric optical distributions for area, street or walkway lighting, contributing to the safety of these often busy circulation areas.

# ZA190

## LIGHT COLUMN

Architecture and the arts  
Public space

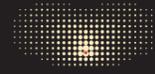


### Configurator

CE RoHS IK08



Precision lens optics  
\* also available in satiné version



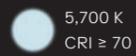
AS07\*  
Asymmetric Side Throw



AP07\*  
Asymmetric Extra Forward



Shape your own light by combining any light distribution



CRI ≥ 80  
on request

### Housing

Housing material	Aluminum
Housing finish	Polyester powder coating (ewoECP upon request**)
Finish standard colour	Anthracite (DB 703)*
Tube	PMMA tube (satiné)
Maintenance	Flush service door with junction box * other color on request ** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

### Measurements

Model	LPH [m]	l <sub>p</sub> ①	-l <sub>p</sub> ②	Weight [kg] ③
ZA190	3.5	0.03	0.69	45.0

① projected windage area [m<sup>2</sup>]      ③ max. weight  
② lateral windage area [m<sup>2</sup>]      ④⑤ pole included

### Performance

Optics	AS07	AP07
MacAdam ellipses (SDCM)	≤ 5 SDCM	

Model	ZA190
Nr. of LEDs	16
Luminous flux [lm]	1,100-3,700

### Electrical

A-Series

Protection class	I/II
Voltage [V], [Hz]	220-240, 50/60
Current feed max. [mA]	700
LED power max. [W]	36

### Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

### Driver

A-Series

Control options	
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connexx light management software for remote management of intelligent luminaire clusters



RECESSED WALL LUMINAIRES  
CEILING MOUNT  
INGROUND LUMINAIRES

## IN

### Recessed linear lighting system

The IN family of flush mounted recessed linear luminaires can be ground, wall or ceiling mounted and is suitable for both outdoor and indoor spaces. When fitted with T-Series ewoLightTiles for tunable white solutions, this luminaire creates lighting accents well suited for direct view applications such as inground or wall recessed. When fitted with high precision A-Series lenses, IN becomes a powerful linear projector suitable for walkway lighting and wall washing.





PUBLIC SPACE  
AREAS  
RESIDENTIAL AREAS  
WALKWAYS

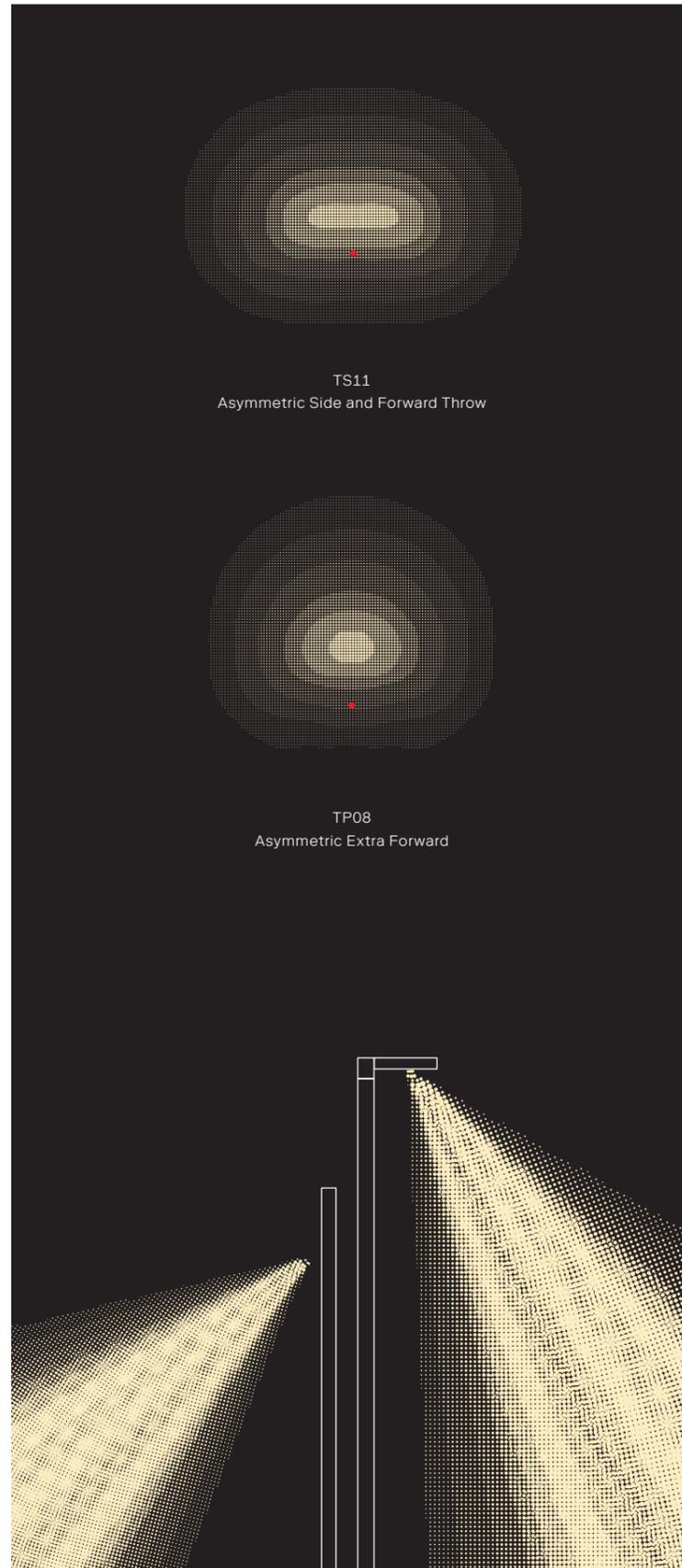
# ewoLightTile

Light guiding panels, superior visual comfort, patented technology

ewoLightTile provides a precise and homogeneous light distribution as well as minimised glare and backlighting. The individual LED units and the gaps between the ewoLightTiles remain invisible.

Light guide optics with optimised surface

Current feed 100-350 mA  
Power 9.6-36.9 W per ewoLightTile  
Luminous flux up to 2,300 lm per ewoLightTile



horizontal array

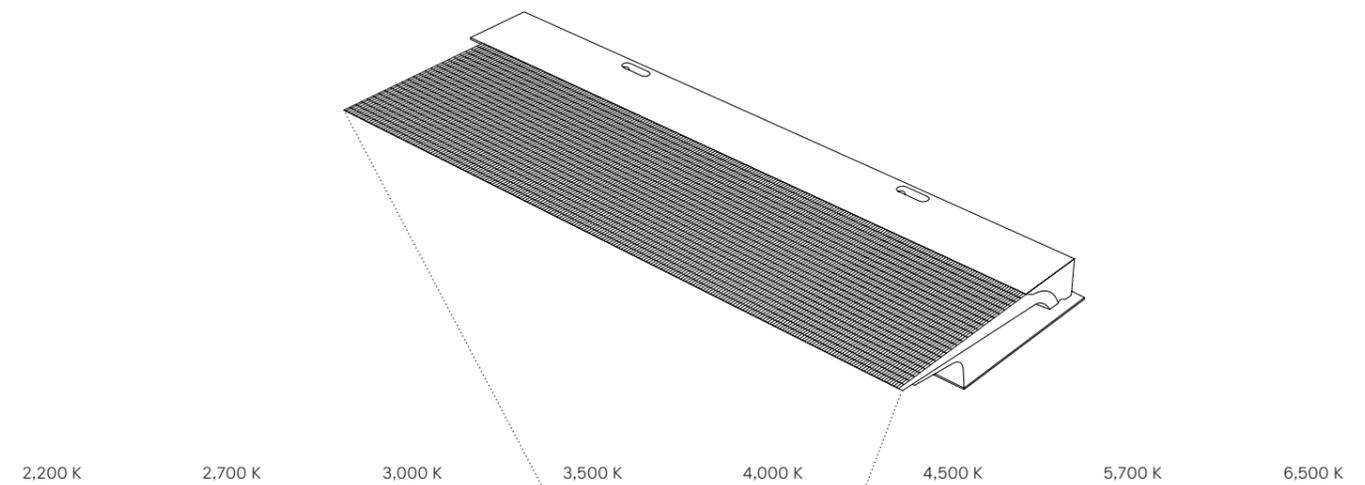
vertical array  
luminous range: 3 x LPH

## Areas of Application

ewoLightTile is ideal for projects that focus on making people feel safe and comfortable in a number of settings from pathways to residential areas and urban spaces. Combined both horizontally and vertically, ewoLightTile offers asymmetric light distribution and avoids unwanted light dispersion.

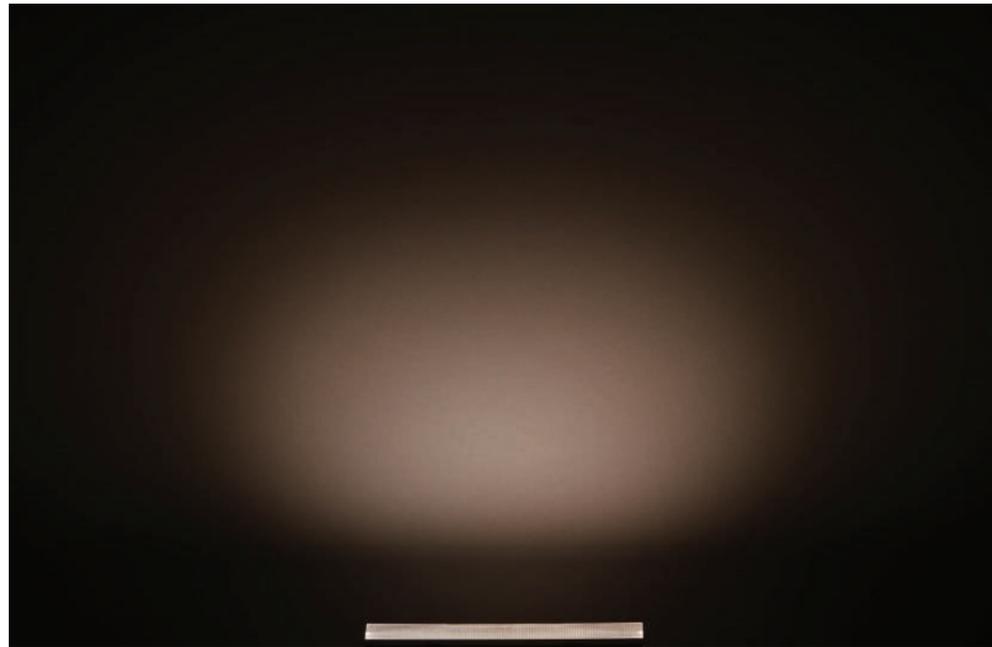
## Modular Combinations

For any customised requirements, ewoLightTiles can be combined vertically and horizontally. This results in an unlimited number of arrangements along the longitudinal axis or width.

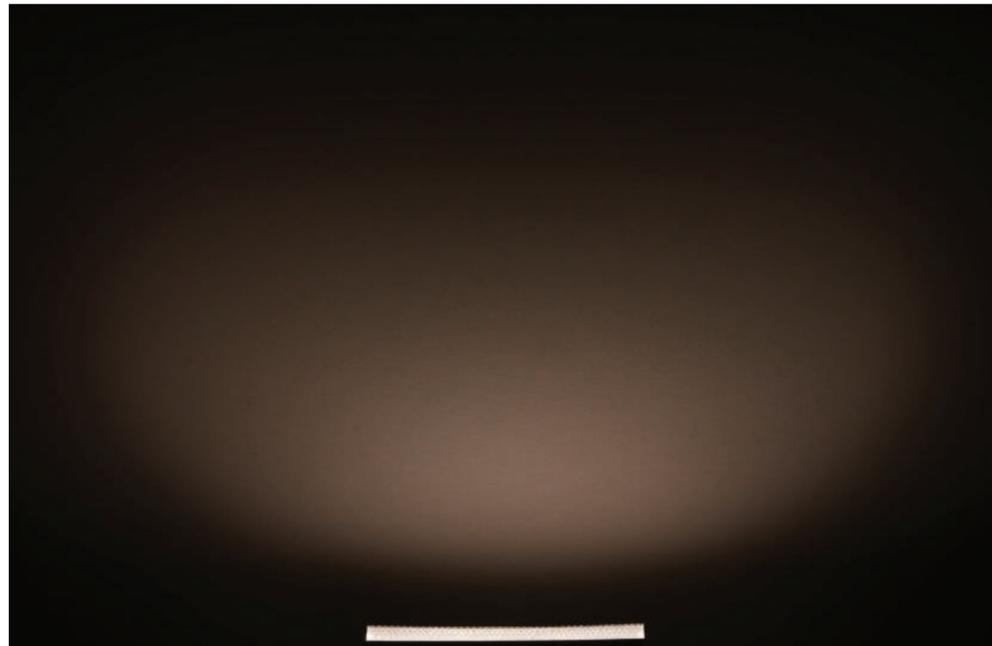


Tunable White  
CRI ≥ 80

RGBW



TP08



TS11

Un confort visuel maximal avec la nouvelle optique plane révolutionnaire ewoLightTile. A fortiori lorsque l'on se trouve à proximité de la source lumineuse, la technologie de lentille garantit une distribution ciblée grâce à sa surface lumineuse large et homogène, qui rend les unités LED complètement invisibles.



ewoLightTile

BODY OF LIGHT



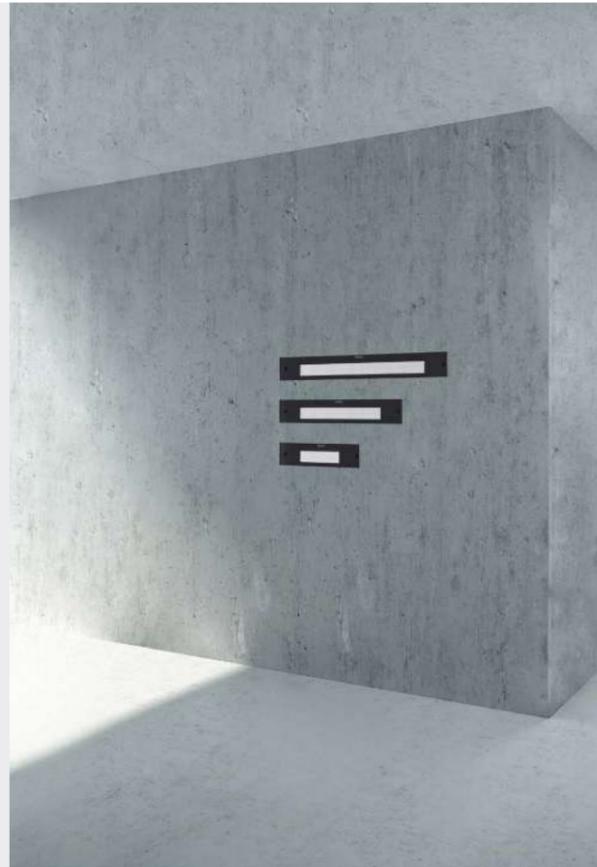
SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



WALL  
IN1  
IN2  
IN3



A-Series (single 90° LED row) - V04



T-Series, 1-3 lighting units



Precision lens optics  
\* also available in satiné version



AG01  
Symmetric Narrow 10°



AG02  
Symmetric Medium 26°



AG03  
Symmetric Flood 50°



AG04  
Symmetric Elliptical 8°-40°



AH02\*  
Symmetric Wide Flood



AS07\*  
Asymmetric Side Throw



AP06\*  
Asymmetric Extra Forward



AP07\*  
Asymmetric Extra Forward



Shape your own light by combining any light distribution



2,200 K  
CRI ≥ 80



2,700 K  
CRI ≥ 80



3,000 K  
CRI ≥ 80



4,000 K  
CRI ≥ 80



ewoLighTile: low glare light-guiding panels



TS11  
Asymmetric Side and Forward Throw



TP08  
Asymmetric Extra Forward



Tunable White  
CRI ≥ 80



Control protocols

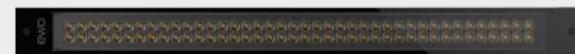
ON/OFF	ON OFF
DALI	DALI
1-10 V	1-10V
Line Switch	LS

Programming options

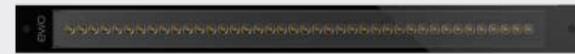
CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

CEILING,  
GROUND

IN1  
IN2  
IN3  
IN4  
IN5



A-Series, 1-5 lighting units (double LED rows) -V01



A-Series, 1-5 lighting units (single central LED row) -V02



A-Series, 1-3 lighting units (single, staggered LED row) -V03



T-Series, 1-5 lighting units



Control protocols

DALI 2 T8	T8 DALI
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Programming options

Night dimming	
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IN

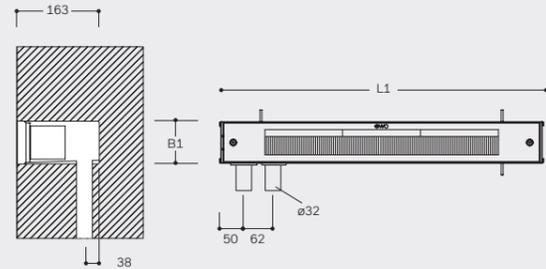
WALL  
IN 1  
IN 2  
IN 3

For area, walkway  
or indoor lighting



[Configurator](#)

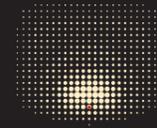
CE IP66/IP67 RoHS IK10



Precision lens optics  
\* also available in satiné version



ewoLighTile: low glare  
light-guiding panels



AP07\*  
Asymmetric Extra Forward



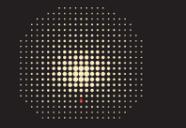
AP06\*  
Asymmetric Extra Forward



Shape your own light



TS11  
Asymmetric Side and Forward Throw



TP08  
Asymmetric Extra Forward

2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70

Tunable White CRI ≥ 80

Housing

Housing material	Aluminum
Housing finish	Coated black matt RAL 9005
Glass	Safety glass (ESG)
Mounting options	Wall Lighting unit adjustable +/- 5°

Measurements

Model	L1 [mm]	B1 [mm]	Weight [kg]Ⓞ
IN 1	336	86	4.5
IN 2	496	86	6.5
IN 3	656	86	8.5

Ⓞ max. weight

Performance

Optics	AP07	AP06	TS11	TP08
MacAdam ellipses (SDCM)	≤ 3 SDCM		≤ 5 SDCM	

Model	IN 1	IN 2	IN 3	IN 1	IN 2	IN 3
Light units	1	2	3	1	2	3
Luminous flux [lm]	210-620	410-1,000	620-1,500	900	1,800	2,700

Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	500*	225
LED power max. [W]	31	36

\* IN 2, IN 3: 400 mA

Operating conditions

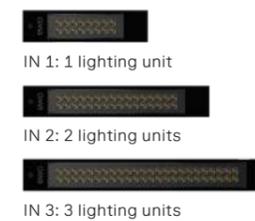
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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Driver

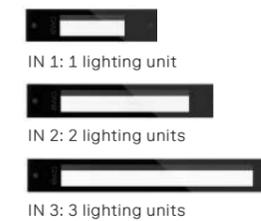
	A-Series	T-Series
Control options	ON OFF DALI 1-10V LS	T8 DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

Equipment variations

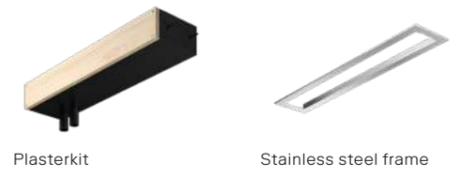
A-Series



T-Series

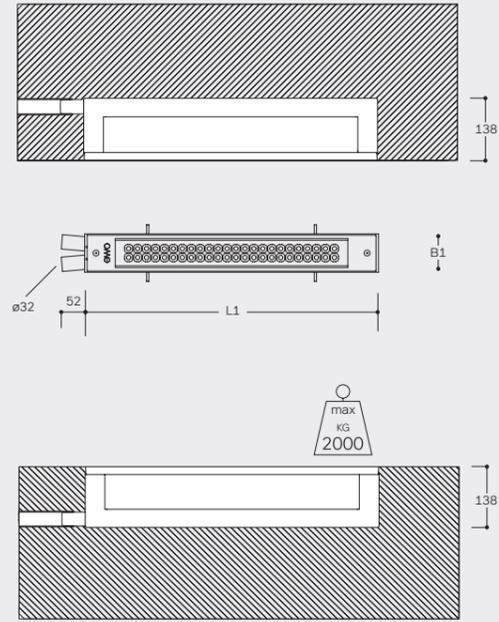


Accessories



CEILING, GROUND  
IN 1  
IN 2  
IN 3  
IN 4  
IN 5

For area, walkway  
or indoor lighting



Configurator

CE, RoHS, IP66/IP67, IK10

**A** SERIES Precision lens optics  
\* also available in satiné version

**T** SERIES ewoLightTile: low glare  
light-guiding panels

Color temperature options: 2,200 K (CRI ≥ 70), 2,700 K (CRI ≥ 70), 3,000 K (CRI ≥ 80), 4,000 K (CRI ≥ 70), and Tunable White (CRI ≥ 80).

Housing

Housing material	Aluminum
Housing finish	Coated black matt RAL 9005
Glass	Safety glass (ESG)
Mounting options	Ceiling, ground Lighting unit adjustable +/- 5°

Measurements

Model	L1 [mm]	B1 [mm]	Weight [kg]Ⓞ
IN 1*	337	86	4.5
IN 2*	497	86	6.5
IN 3*	657	86	8.5
IN 4	817	86	10.5
IN 5	977	86	12.5

\* IN 1-IN 3 for ceiling only      Ⓞ max. weight

Performance

Optics	AG01	AG02	AG03	AG04	AH02	AP07	AS07	AS08	TS11	TP08
MacAdam ellipses (SDCM)	≤ 3 SDCM								≤ 5 SDCM	

Model	IN 1	IN 2	IN 3	IN 4	IN 5	IN 1	IN 2	IN 3	IN 4	IN 5
Light units	1	2	3	4	5	1	2	3	4	5
Luminous flux [lm]	340-2,100	670-3,500	1,000-5,300	1,400-7,000	1,700-7,900	900	1,800	2,700	3,600	4,600

Electrical

	A-Series	T-Series
Protection class	I/II	I
Voltage [V], [Hz]	220-240, 50/60	220-240, 50/60
Current feed max. [mA]	500*	225
LED power max. [W]	87	60

\* IN 2, 3, 4: 400 mA  
IN 5: 350 mA

Operating conditions

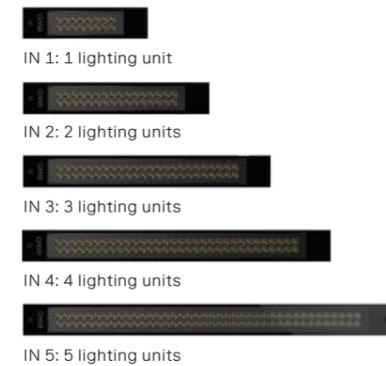
Lifetime Visit the [configurator](#) for specific lifetime options

Driver

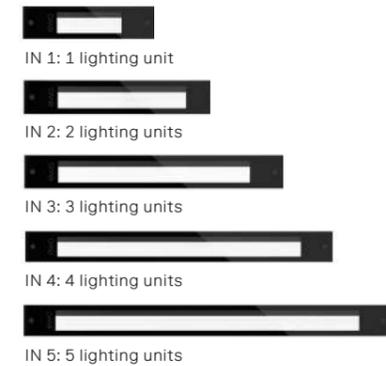
	A-Series	T-Series
Control options	ON, OFF, DALI, 1-10V, L/S	T8, DALI
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

Equipment variations

A-Series



T-Series



Accessories



**A**  
SERIES

Street lighting from very low mounting heights, such as bridges



## RAZER

RAZER was inspired by the soft, grazing lighting effect of the sunrise and is designed to illuminate roads from very low mounting heights (0.4–1 m).

It provides high visual comfort for drivers while protecting the night sky.

RAZER can be perfectly integrated into existing structures along roads and bridges, also in areas with harsh climates.



Simone Veil Bridge  
Bordeaux, France, 2024

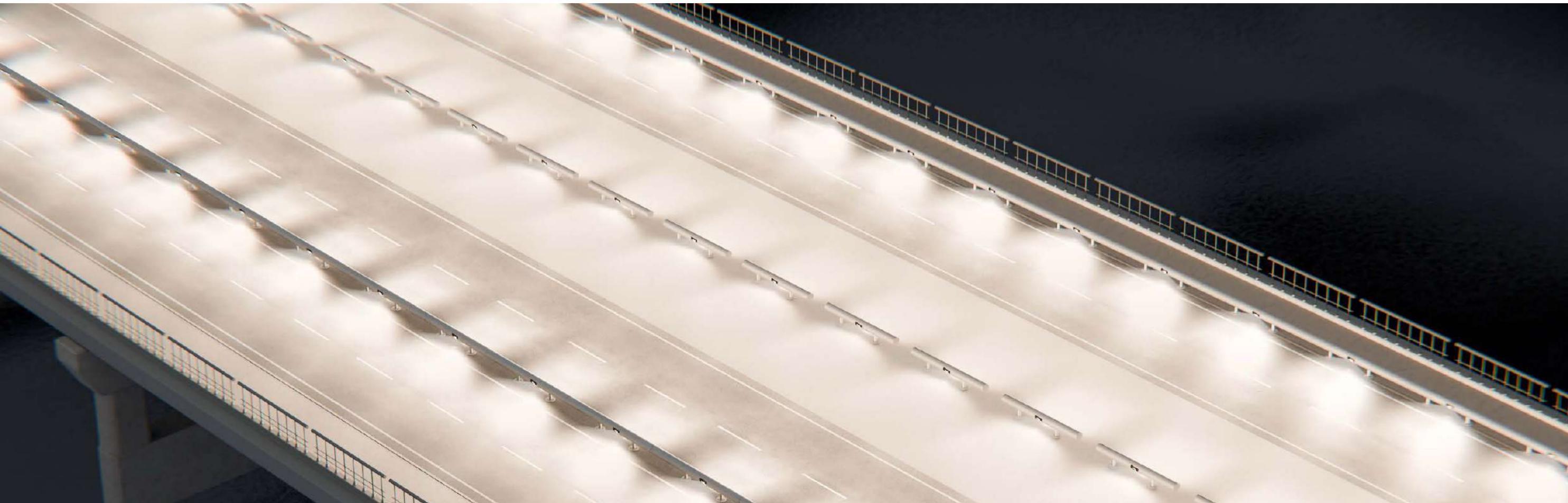
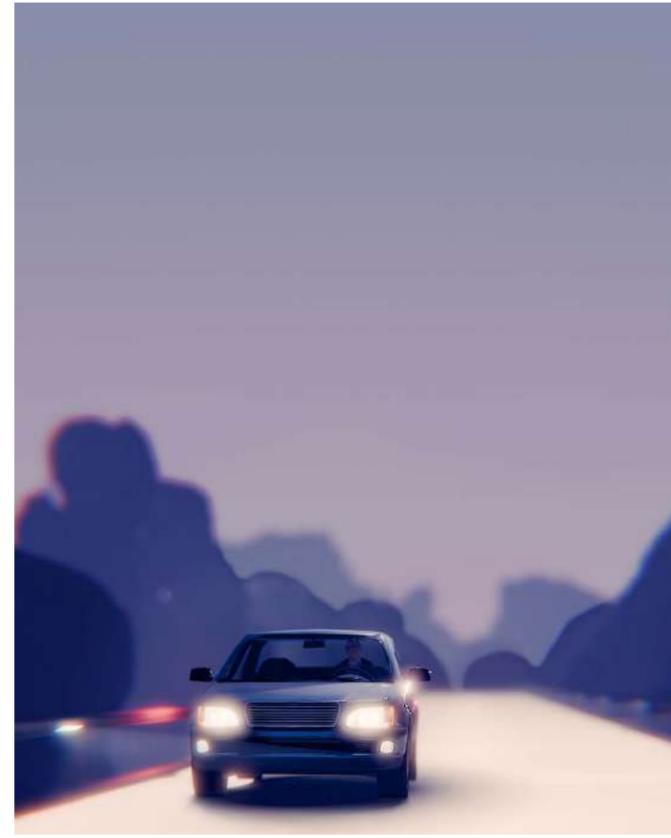
Lucas Goy, Les Éclaireurs  
RAZER



RAZER is positioned below eye level with minimal ULR, so as to avoid any driver glare.

It achieves high visual comfort for motorists, all while limiting light pollution.

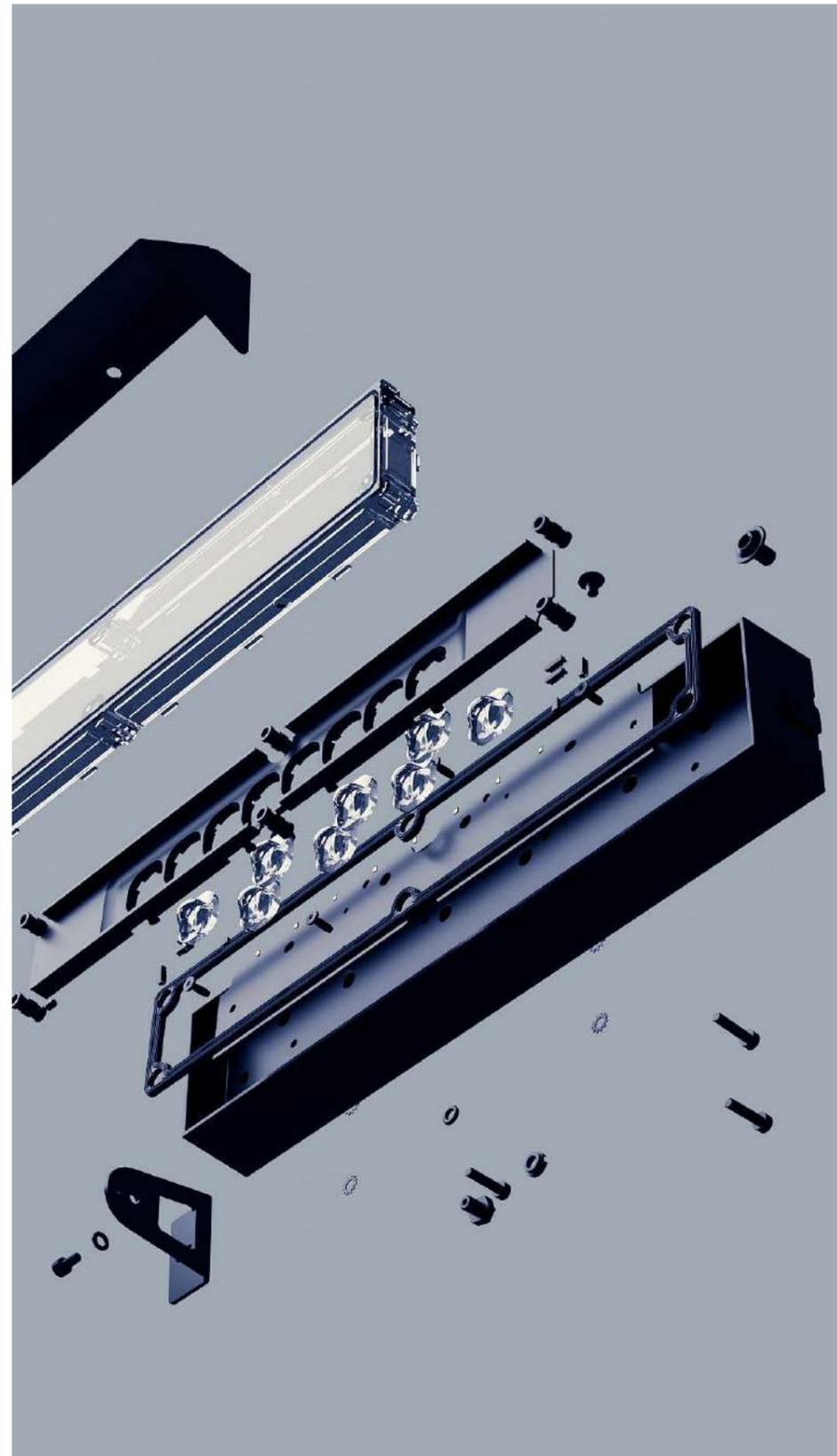
The AV01 grazing effect optic ensures a high degree of light uniformity and wide spacing between luminaires, thus reducing the number of units needed along the area of illumination.



## Body of Light

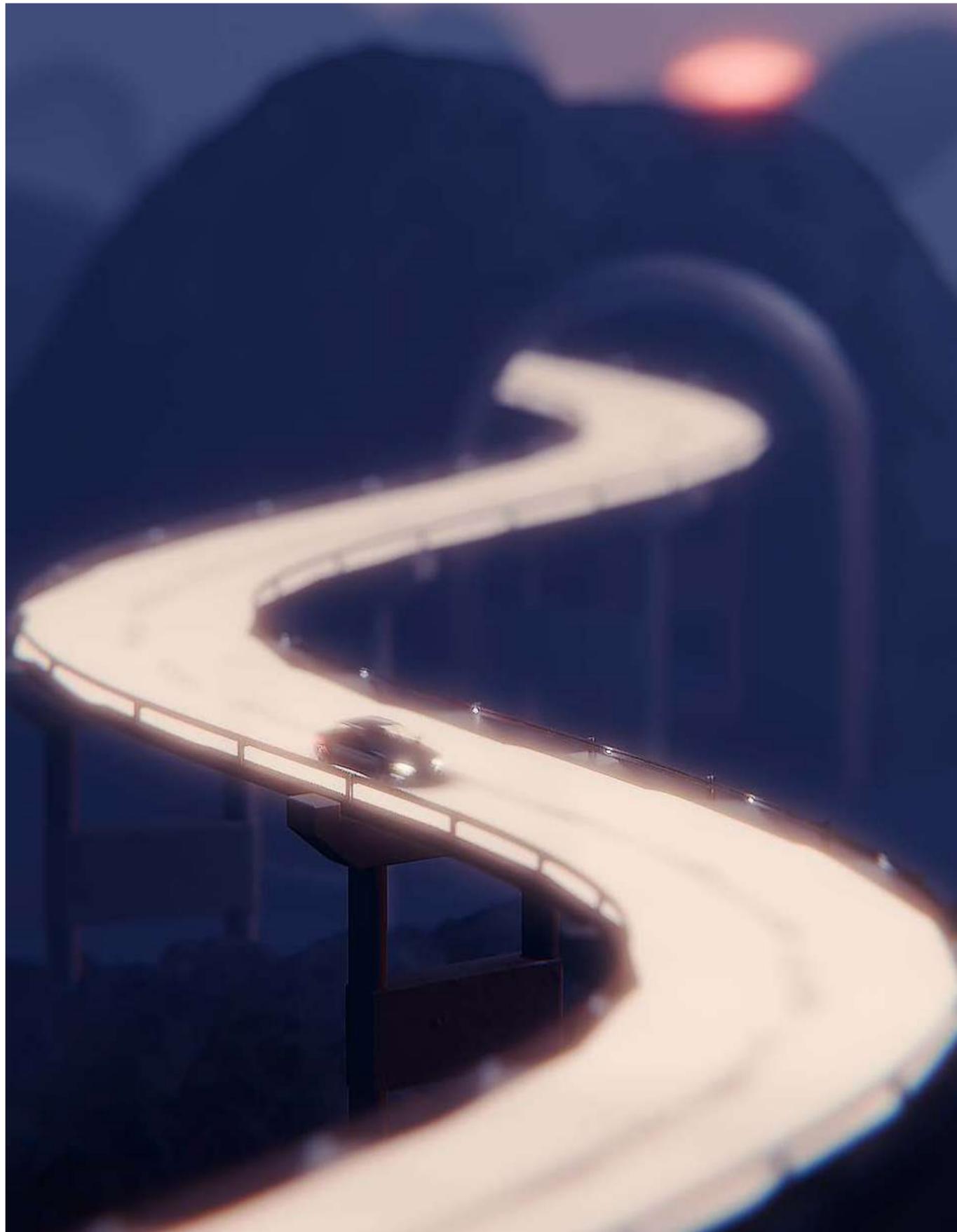


With its linear and compact design, RAZER can be perfectly integrated into existing structures along roads and bridges, allowing to avoid the use of pole mounted luminaires.



It is also ideal for areas with harsh climates, for example places exposed to strong winds, or where intrusive lighting would be a distraction.





RAZER is equipped with a remote driver and is compatible with intelligent control systems.



Road lighting  
from very low  
installation heights  
e.g. bridges

 RAL 9005

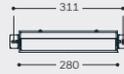
 ewo  
color



RAZER with shielding



A-Series  
1 LED-unit

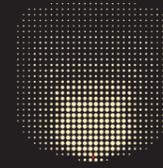


[Configurator](#)

 IP66 RoHS IK10



Precision lens optics



AV01  
Asymmetric Extra Forward Grazing

Monochrome

 3,000 K  
CRI ≥ 70

CRI ≥ 80  
on request

Housing

Housing material	Aluminum die-cast
Housing finish	Polyester powder coating* (ewoECP upon request**)
Finish standard colour	ewo colo* (shutter RAL 9005)
Glass	Polycarbonate cover
Mounting options	wall
Fixing	Stainless steel L-bracket
	* other color on request
	** ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Measurements

Model	$\theta_{p1}$ ①	$\theta_{p2}$ ②	Weight [kg] ③
RAZER + shielding	0.015*	0.019*	1.0
	① Projected windage area [m²]		
	② Lateral windage area [m²]		
	③ Weight with L-bracket		
	* Tilt 0°		

Performance

Distribution	AG01
Beam angle	-
MacAdam ellipses (SDCM)	≤ 3 SDCM
Nr. of LEDs	8
Luminous flux [lm] (3,000 K)	1,400

Electrical

A-Series

Protection class	II/ III
UNominal [Vdc]	25.6
Ucc max. [Vdc]	300
Current max. [mA]	1,000
LED power [W]	25.6

Operating conditions

Lifetime Visit the [configurator](#) for specific lifetime options

Driver (external) Monochrome

Control Options	
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request



PUBLIC SPACE

## ID

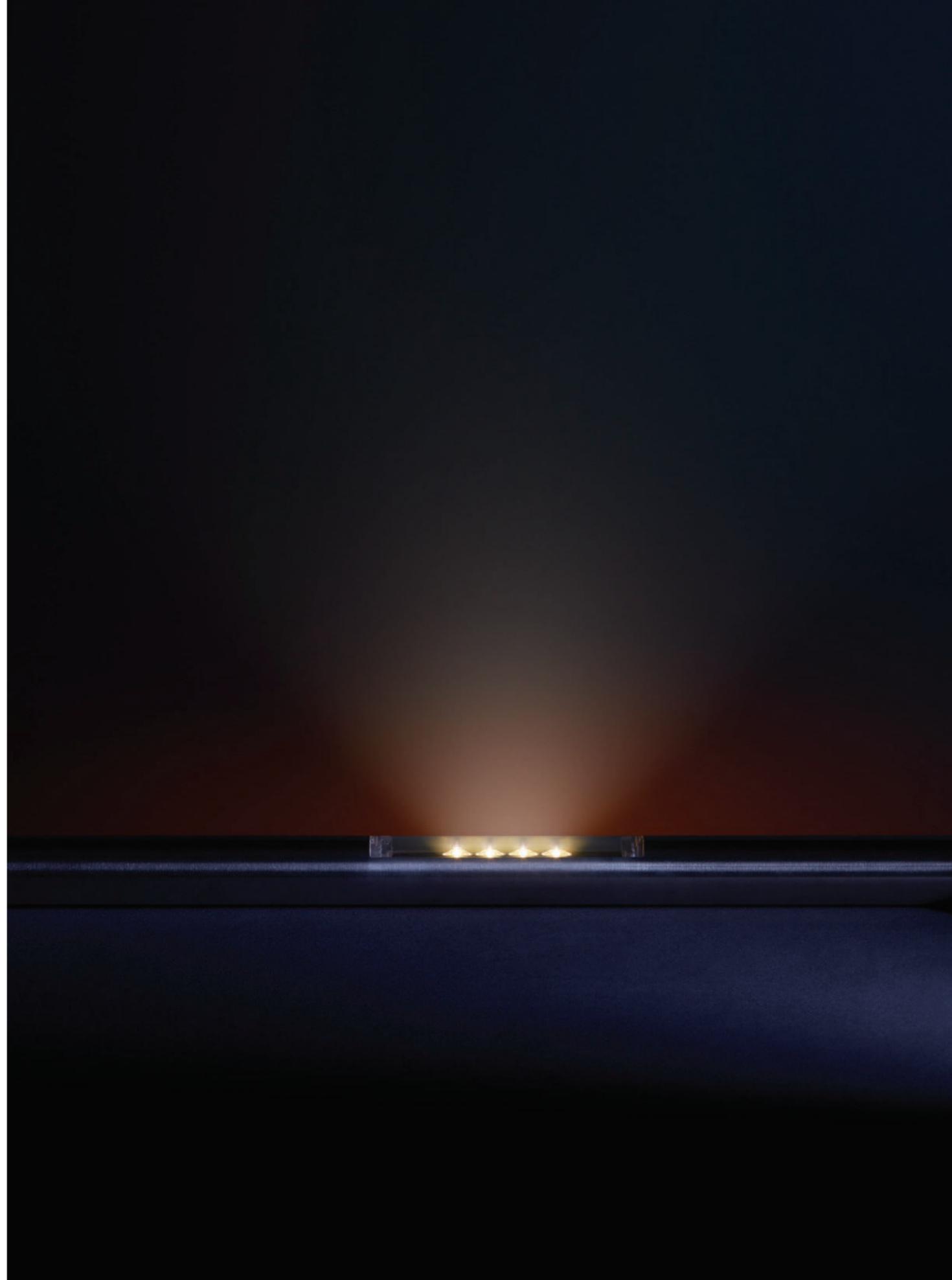
### Recessed handrail lighting system

Handrails appear in areas where public safety is important, such as stairs or before uneven or dangerous terrain. ID recessed handrail lighting adds an additional safety layer by lighting the potential trip hazards, keeping visitors safe. ID linear modules are available from one up to four LEDs and are fitted with A-Series high precision lens optics for walkway lighting.





↳ ID1, ID2, ID4



↳ ID4

# IDstandard

Public space



## Configurator

CE RoHS IK10  
IP67 Protection class III (<18 LED)

Housing	
Housing material	ID1, ID2 and ID4 die-cast aluminium (EN44300)
Housing finish	Aluminium
Cover	PMMA

Measurements			
Model	LEDs	L1 [mm]	Weight [kg]Ⓞ
IDstandard	1-2 LEDs	125	0.18
IDstandard	4 LEDs	165	0.23

Ⓞ max. weight without tube

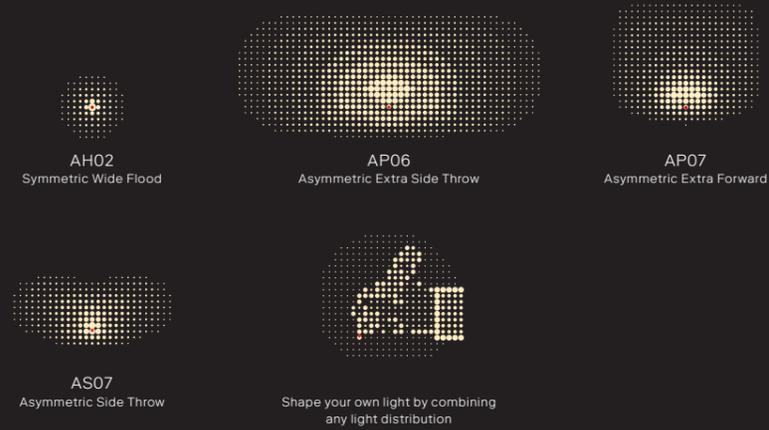
Electrical	
A-Series	
Protection class	II/III
Voltage [V], [Hz]	-
Current feed max. [mA]	500
LED power max. [W]	6.0

Operating conditions	
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options

Driver (external)	
A-Series	
Control options	ON OFF DALI 1-10V L/S
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connexx light management software for remote management of intelligent luminaire clusters



Precision lens optics



2,200 K CRI ≥ 70    2,700 K CRI ≥ 70    3,000 K CRI ≥ 80    4,000 K CRI ≥ 70

CRI ≥ 80 on request

Performance				
Optics	AP06	AP07	AS07	AS09
MacAdam ellipses (SDCM)	≤ 5 SDCM			

Model	IDstandard	IDstandard	IDstandard
Light units	1	2	4
Luminous flux [lm]	51-162	121-370	242-640

## Equipment variations



IDstandard 1 LED

IDstandard 4 LEDs

IDstandard 2 LEDs

## R-Series

The R-Series family of in-ground projectors represents ewo's solution for architectural recessed lighting. Its clean design and the variety of available sizes make it suitable for a wide range of applications. The availability of lenses including spot, elliptical and flood optics, and the wide range of colour temperature choices, including RGBW, complete an offer dedicated to giving the most beautiful buildings their deserved prominence. With five sizes from 50 mm (single LED) to 200 mm (24 LED) in diameter, even the most demanding applications will find an answer in this product series. The R-Series can be configured with integral or external driver for applications with shallow recess areas.



50HERTZ TRANSMISSION HEADQUARTER  
Berlin, Germany, 2016  
Aurelia Design  
R60



CHURCH LA BASSÉE  
La Bassée, France, 2019  
HDR Germany, Matteo Thun & Partners  
R-Series



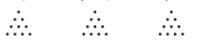
BODY OF LIGHT



SHAPE OF LIGHT



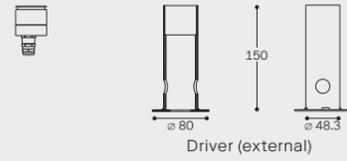
INTELLIGENCE OF LIGHT



R50



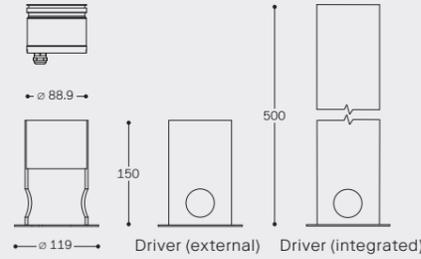
1 high-power LED



R90



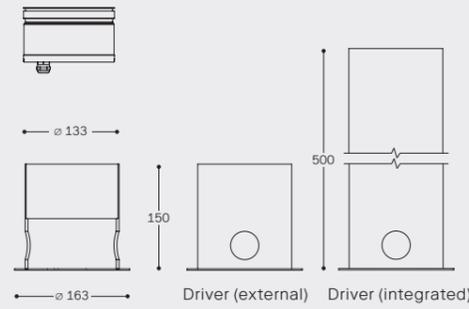
4 high-power LEDs



R130



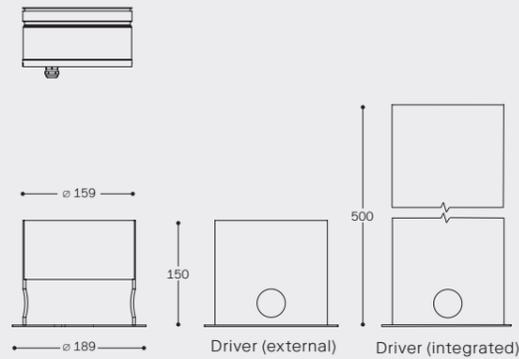
8 high-power LEDs



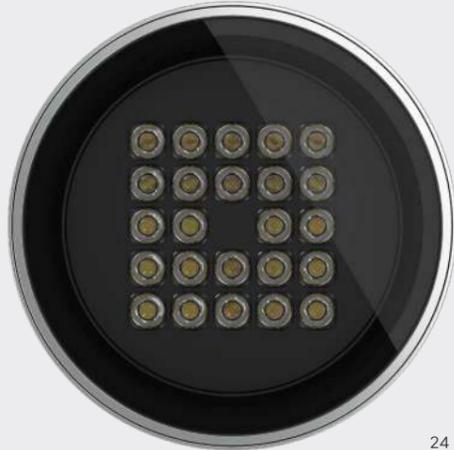
R160



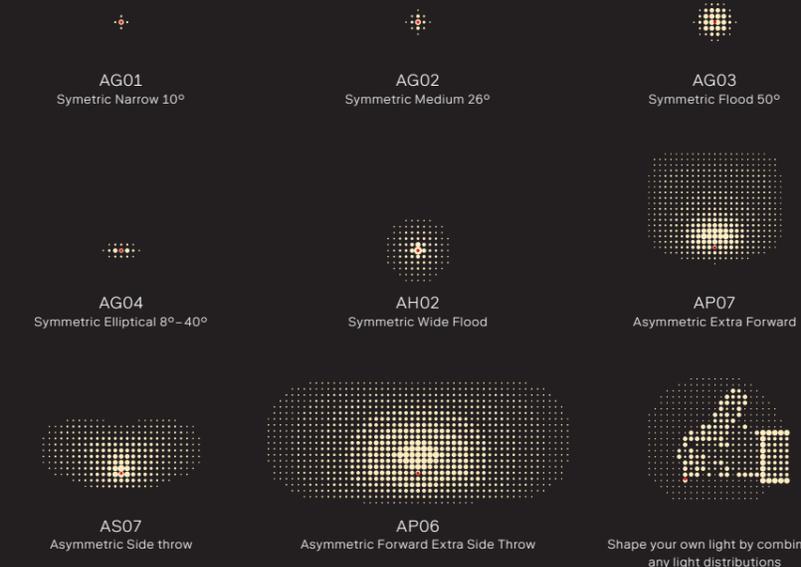
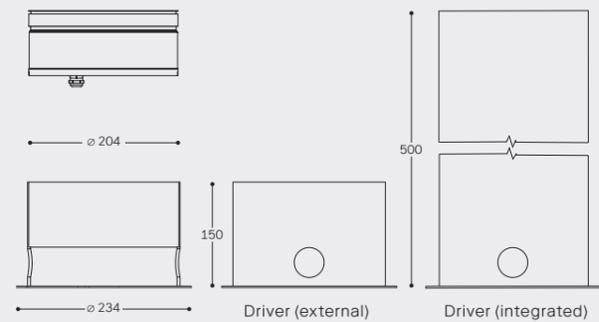
16 high-power LEDs



R200



24 high-power LEDs



A SERIES

Control protocols

ON/OFF	ON OFF
DALI 2	DALI
1-10 V	1-10V
Line Switch	LS

Programming options

CLO	Constant Lumen Output
AC/DC	Emergency power supply
Stand-alone	

RGBW

Control protocols

ON/OFF	ON OFF
DALI 2	DALI
DMX-RDM	DMX

# R50

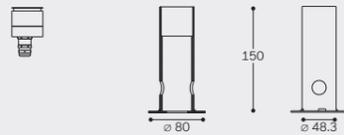
In-ground luminaires  
Architectural lighting  
Object and effect lighting  
Floor mounting



## Configurator



IP67 RoHS IK10



## Housing

Housing material	Aluminum, stainless steel
Housing finish	Internally black matt coated RAL 9005
Cover	Tempered safety glass (3,000 kg pressure load capacity)
Screws	Stainless steel
Cable	Pre-wired supply cable 0.50 m, complete with water stop device, cable gland

## Measurements

Model		Weight [kg]Ⓞ
R50	without driver	0.5
		Ⓞ max. weight

## Electrical

A-Series

Protection class	III
Voltage [V], [Hz]	-
Current feed max. [mA]	500
LED power max. [W]	1.5

## Operating conditions

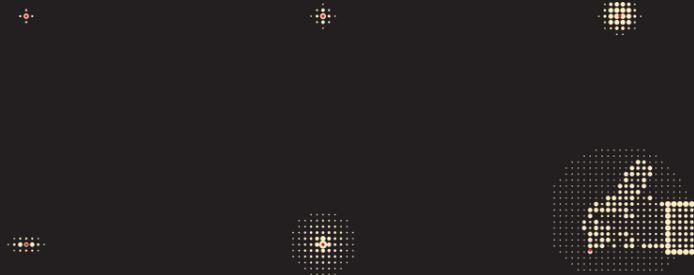
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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## Driver (external) A-Series

Control options	
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone
Control accessories	Further accessories on request
Software	connex light management software for remote management of intelligent luminaire clusters



Precision lens optics



Shape your own light by combining any light distributions



## Performance

Optics	AG01	AG02	AG03	AG04	AH02
Beam angle	10°	26°	50°	10–40°	60°
MacAdam ellipses (SDCM)	≤ 3 SDCM				
Model	R50				
Nr. of LEDs	1				
Luminous flux [lm]	50–150				

## Equipment variations



R50 without internal driver

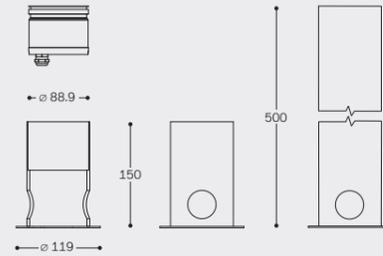
# R90

In-ground luminaires  
Architectural lighting  
Object and effect lighting  
Floor mounting

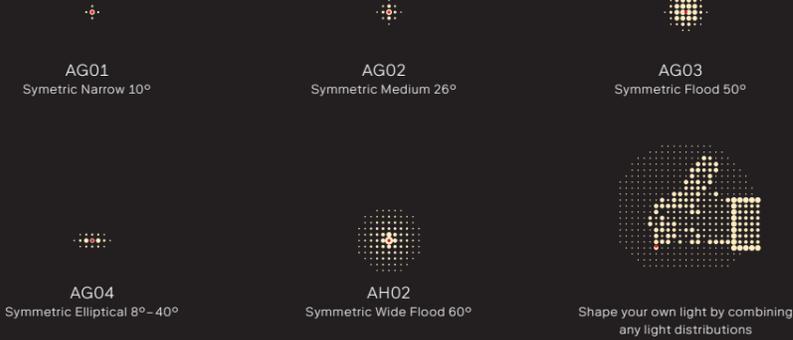


[Configurator](#)

CE IP67 RoHS IK10



Precision lens optics



2,200 K CRI ≥ 80    2,700 K CRI ≥ 80    3,000 K CRI ≥ 80    4,000 K CRI ≥ 80



Housing	
Housing material	Aluminum, stainless steel
Housing finish	Internally black matt coated RAL 9005
Cover	Tempered safety glass (3,000 kg pressure load capacity)
Screws	Stainless steel
Cable	Pre-wired supply cable 0.50 m, complete with water stop device, cable gland
Lighting unit	Steplessly adjustable ± 15° in all directions

Measurements		
Model		Weight [kg]Ⓞ
R90	without driver	2.0
R90	complete with driver	5.5

Ⓞ max. weight

Performance					
Optics	AG01	AG02	AG03	AG04	AH02
Beam angle	10°	26°	50°	10-40°	60°
MacAdam ellipses (SDCM)	≤ 3 SDCM				
Model	R90				
Nr. of LEDs	4				
Luminous flux [lm]	200-600				

Electrical	A-Series	RGBW
Protection class	I / II / III	I / II / III
Voltage [V], [Hz]	220-240, 50/60*	Driver external
Current feed max. [mA]	500	500
LED power max. [W]	6.1	6.1

\* with integrated driver

Operating conditions	
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options

Driver (external)	A-Series	RGBW
Control options	ON OFF DALI 1-10V L/S	ON OFF DALI DMX
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	

Equipment variations

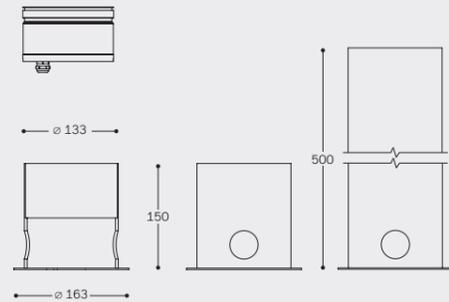


R90 without internal driver

R90 with internal driver

# R130

In-ground luminaires  
Architectural lighting  
Object and effect lighting  
Floor mounting



1:10

### Configurator



IP67 RoHS IK10

### Housing

Housing material	Aluminum, stainless steel
Housing finish	Internally black matt coated RAL 9005
Cover	Tempered safety glass (3,000 kg pressure load capacity)
Screws	Stainless steel
Cable	Pre-wired supply cable 0.50 m, complete with water stop device, cable gland
Lighting unit	Steplessly adjustable $\pm 15^\circ$ in all directions

### Measurements

Model		Weight [kg]Ⓞ
R130	without driver	3.5
R130	complete with driver	8.5

Ⓞ max. weight

### Electrical

	A-Series	RGBW
Protection class	I / II / III	I / II / III
Voltage [V], [Hz]	220-240, 50/60*	Driver external
Current feed max. [mA]	500	500
LED power max. [W]	12.0	12.0

\* with integrated driver

### Operating conditions

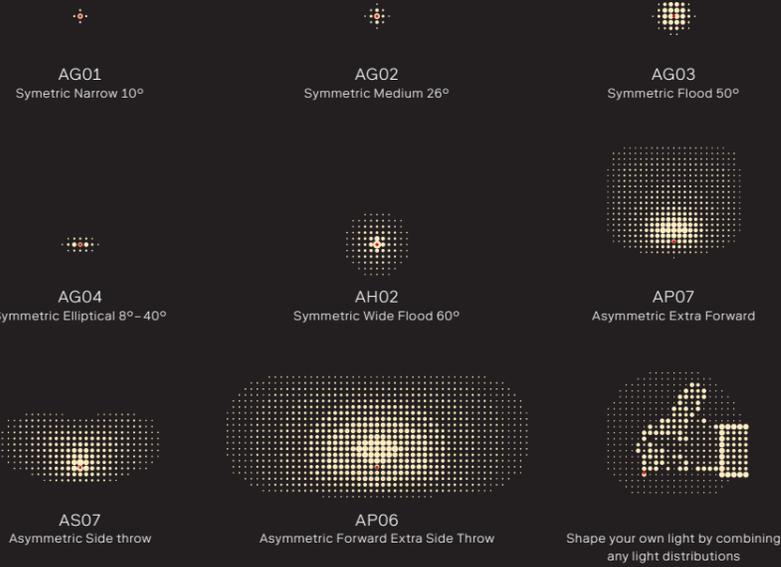
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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### Driver (external) A-Series

Control options	A-Series	RGBW
Control options	ON OFF DALI 1-10V L/S	ON OFF DALI DMX
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics



### Performance

Optics	AG01	AG02	AG03	AG04	AH02	AP07	AS07	AP06
Beam angle	10°	26°	50°	10-40°	60°	-	-	-
MacAdam ellipses (SDCM)	≤ 3 SDCM							
Model	R130							
Nr. of LEDs	8							
Luminous flux [lm]	310-1,200							

### Equipment variations

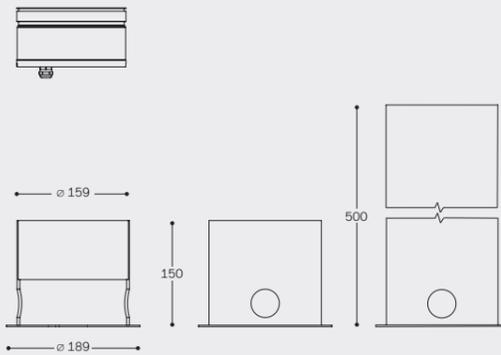


R130 without internal driver

R130 with internal driver

# R160

In-ground luminaires  
Architectural lighting  
Object and effect lighting  
Floor mounting



### Configurator



IP67 RoHS IK10

### Housing

Housing material	Aluminum, stainless steel
Housing finish	Internally black matt coated RAL 9005
Cover	Tempered safety glass (3,000 kg pressure load capacity)
Screws	Stainless steel
Cable	Pre-wired supply cable 0.50 m, complete with water stop device, cable gland
Lighting unit	Steplessly adjustable $\pm 15^\circ$ in all directions

### Measurements

Model		Weight [kg]Ⓞ
R160	without driver	6.5
R160	complete with driver	10.5

Ⓞ max. weight

### Electrical

	A-Series	RGBW
Protection class	I / II / III	I / II / III
Voltage [V], [Hz]	220-240, 50/60*	Driver external
Current feed max. [mA]	400	400
LED power max. [W]	19.0	19.0

\* with integrated driver

### Operating conditions

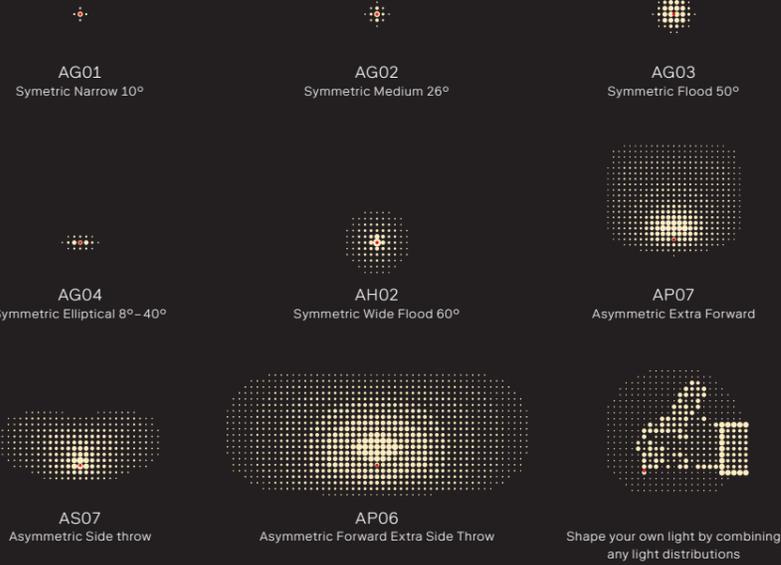
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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### Driver (external)

	A-Series	RGBW
Control options	ON OFF DALI 1-10V LVS	ON OFF DALI DMX
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics



### Performance

Optics	AG01	AG02	AG03	AG04	AH02	AP07	AS07	AP06
Beam angle	10°	26°	50°	10-40°	60°	-	-	-
MacAdam ellipses (SDCM)	≤ 3 SDCM							
Model	R160							
Nr. of LEDs	16							
Luminous flux [lm]	620-2,020							

### Equipment variations

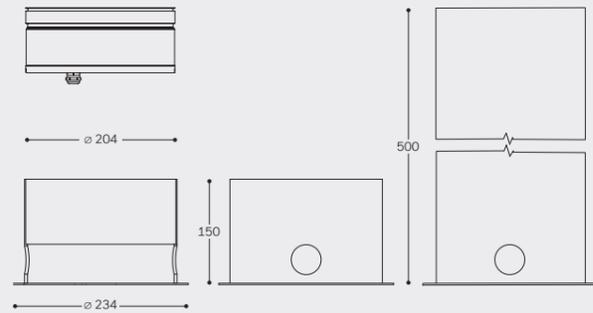
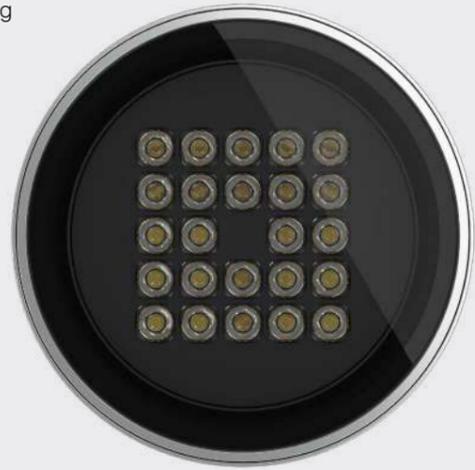


R160 without internal driver

R160 with internal driver

# R200

In-ground luminaires  
Architectural lighting  
Object and effect lighting  
Floor mounting



[Configurator](#)

CE RoHS IK10

Housing	
Housing material	Aluminum, stainless steel
Housing finish	Internally black matt coated RAL 9005
Cover	Tempered safety glass (3,000 kg pressure load capacity)
Screws	Stainless steel
Cable	Pre-wired supply cable 0.50 m, complete with water stop device, cable gland
Lighting unit	Steplessly adjustable $\pm 15^\circ$ in all directions

Measurements		
Model		Weight [kg]Ⓞ
R200	without driver	7.5
R200	complete with driver	12.0
		Ⓞ max. weight

Electrical	A-Series	RGBW
Protection class	I / II	I / II
Voltage [V], [Hz]	220-240, 50/60*	Driver external
Current feed max. [mA]	400	400
LED power max. [W]	29.0	29.0
	* with integrated driver	

Operating conditions	
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options

Driver (external)	A-Series	RGBW
Control options	ON OFF DALI 1-10V LYS	ON OFF DALI DMX
Programming [optional]	Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone	
Control accessories	Further accessories on request	
Software	connexx light management software for remote management of intelligent luminaire clusters	



Precision lens optics  
\* also available in satiné version

2,200 K CRI  $\geq 80$    2,700 K CRI  $\geq 80$    3,000 K CRI  $\geq 80$    4,000 K CRI  $\geq 80$



Performance		AG01	AG02	AG03	AG04	AH02	AP07	AS07	AP06
Optics									
Beam angle		10°	26°	50°	10-40°	60°	-	-	-
MacAdam ellipses (SDCM)		$\leq 3$ SDCM							
Model	R200								
Nr. of LEDs	24								
Luminous flux [lm]	930-3,030								

Equipment variations



R200 without internal driver

R200 with internal driver

PUBLIC SPACE

## UP-Series

Hovering street furniture in  
timeless design

As far back as 2009, the Norwegian  
designer team NORWAY SAYS  
designed a product family for ewo with  
accent lighting to make urban spaces  
more appealing and durable.







# Urban furniture

## BOLLARDS

LB21



LB22



BD21



BD22



## LITTER BINS

WR21



WR22



BD23



## SEATING AREA

SB21



LB23



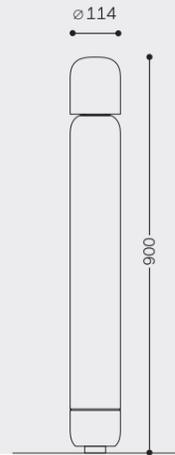
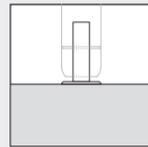
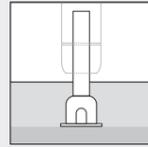
BR21



# Light Bollards

## LB21

Urban bollard with symmetric light distribution for illuminating open spaces. Additional accent lighting at ground level.



IP65 RoHS IK010

### Materials

- Bollard: stainless steel
- Buried base: hot-dip galvanised steel
- Flange plate: stainless steel
- Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

### Light source

- 2 lighting units each with 8 high-power LEDs
- Lighting units in aluminum, sealed with polyurethane resin
- Electronic control gear integrated

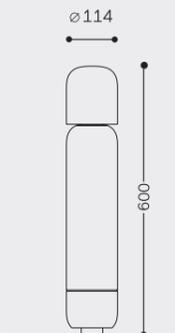
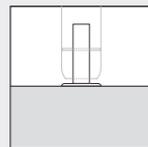
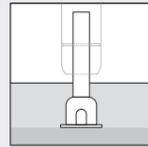
### Mounting options

- Buried mounting base
- Direct floor mounting flange plate
- Suitable for through-wiring electrical connection

System wattage	17.1 W
Current feed	350 mA
Protection class	I or II
Weight	10.5 kg

## LB22

Urban bollard with symmetric light distribution for illuminating open spaces, additional accent lighting at ground level.



IP65 RoHS IK010

### Materials

- Bollard: stainless steel
- Buried base: hot-dip galvanised steel
- Flange plate: stainless steel
- Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

### Light source

- 2 lighting units each with 8 high-power LEDs
- Lighting units in aluminum, sealed with polyurethane resin
- Electronic control gear integrated

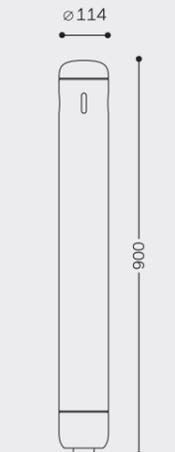
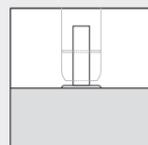
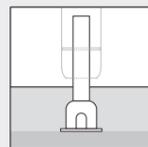
### Assembly variations

- Flush-mounted: buried base
- Surface-mounted: flange plate
- Designed for feed-through wiring

System wattage	17.1 W
Current feed	350 mA
Protection class	I or II
Weight	8.5 kg

## BD21 BD22

Urban bollard (with chain fixture) for marking boundaries, additional accent lighting at ground level.



IP65 RoHS IK010

### Materials

- Bollard: stainless steel
- Chain made of hot-dip galvanized steel (chain length to be defined)
- Buried base: hot-dip galvanised steel
- Flange plate: stainless steel
- Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

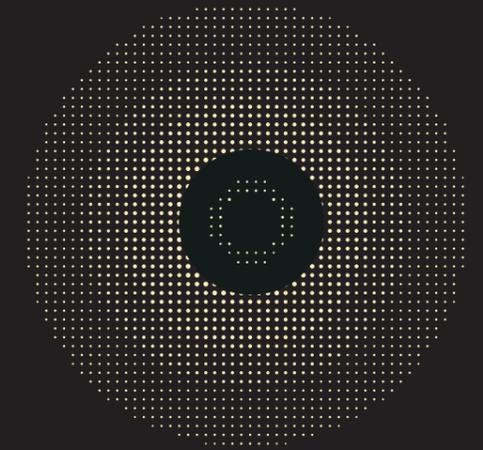
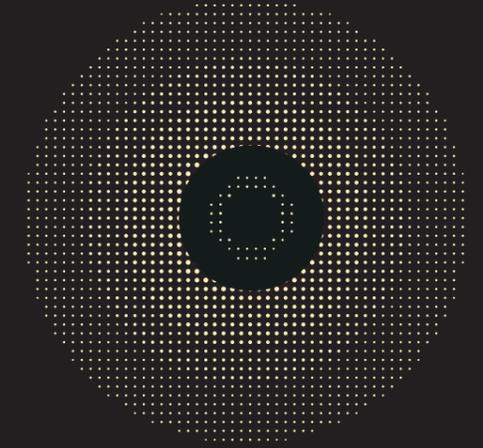
### Light source

- 1 lighting unit with 8 high-power LEDs
- Lighting unit in aluminum, sealed with polyurethane resin
- Electronic control gear integrated

### Assembly variations

- Flush-mounted: buried base
- Surface-mounted: flange plate
- Designed for feed-through wiring

System wattage	8.5 W
Current feed	350 mA
Protection class	I or II
Weight	11.5 kg

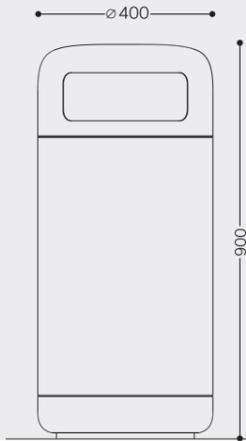
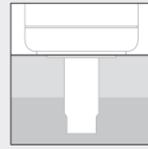


4,000 K  $\leq 5$  SDCM (MacAdam ellipses)

# Litter Bins

## WR21

Litter bin urban bollard with removable cover, capacity 45 l, additional accent lighting at ground level



IP65 RoHS IK010

### Materials

- Container in hot-dip galvanised steel
- Buried base: hot-dip galvanised steel
- Flange plate: hot-dip galvanised steel
- Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

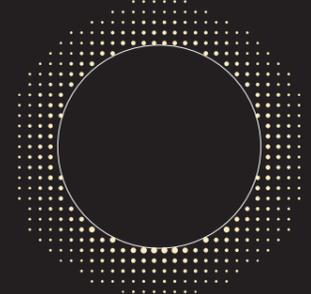
### Light source

- 1 lighting unit with 16 high-power LEDs
- Lighting unit in aluminum with transparent glass cover
- Electronic control gear integrated

### Assembly variations

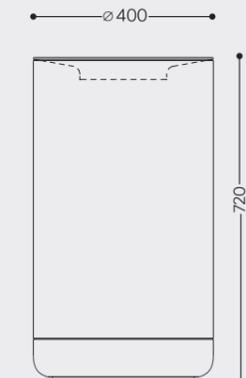
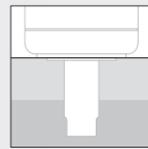
- Flush-mounted: buried base
- Surface-mounted: flange plate
- Designed for feed-through wiring

System wattage	17.1 W
Current feed	350 mA
Protection class	I or II
Weight	35.5 kg



## WR22

Litter bin urban bollard with removable cover, capacity 45 l, additional accent lighting at ground level



IP65 RoHS IK010

### Materials

- Container in hot-dip galvanised steel
- Upper cover in polished stainless steel
- Buried base: hot-dip galvanised steel
- Flange plate: hot-dip galvanised steel
- Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

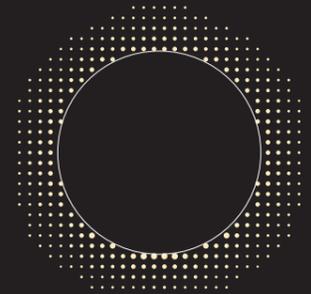
### Light source

- 1 lighting unit with 16 high-power LEDs
- Lighting unit in aluminum with transparent glass cover
- Electronic control gear integrated

### Assembly variations

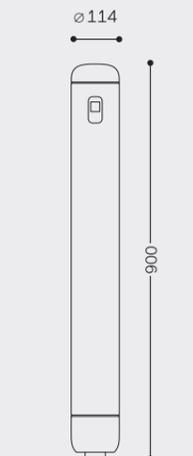
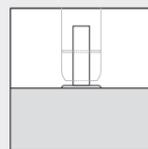
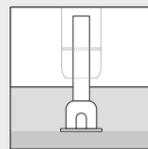
- Flush-mounted: buried base
- Surface-mounted: flange plate
- Designed for feed-through wiring

System wattage	17.1 W
Current feed	350 mA
Protection class	I or II
Weight	30 kg



## BD23

Urban bollard with integrated ashtray, removable cover to aid emptying, additional accent lighting at ground level



IP65 RoHS IK010

### Materials

- Bollard: stainless steel
- Buried base: hot-dip galvanised steel
- Flange plate: stainless steel
- Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

### Light source

- 1 lighting unit with 8 high-power LEDs
- Lighting unit in aluminum, sealed with polyurethane resin
- Electronic control gear integrated

### Assembly variations

- Flush-mounted: buried base
- Surface-mounted: flange plate
- Designed for feed-through wiring

System wattage	8.5 W
Current feed	350 mA
Protection class	I or II
Weight	11.5 kg



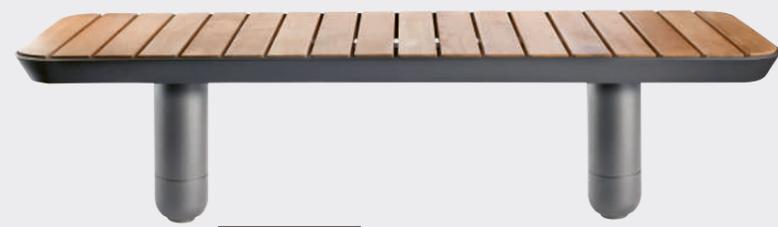
4,000 K

≤ 5 SDCM (MacAdam ellipses)

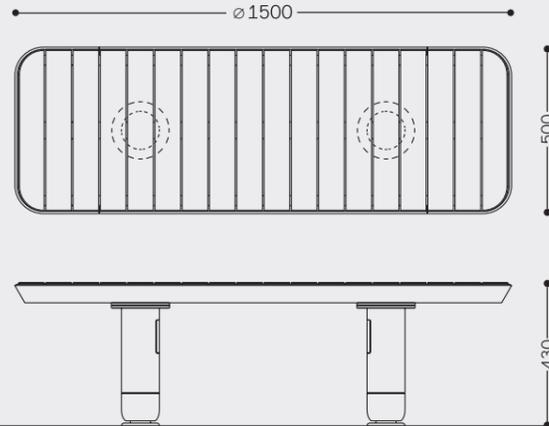
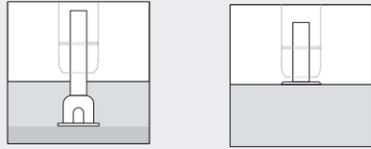
# Seating area

## SB21

Bench with additional accent lighting at ground level



CE RoHS IK010



- Materials**
- Bench made of weatherproof wood
  - Frame in hot-dip galvanised steel
  - Buried base: hot-dip galvanised steel
  - Flange plate: stainless steel
  - Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

- Light source**
- 2 lighting units each with 8 high-power LEDs
  - Lighting units in aluminum, sealed with polyurethane resin
  - Electronic control gear integrated

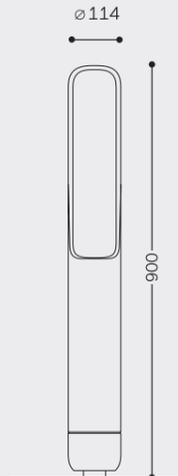
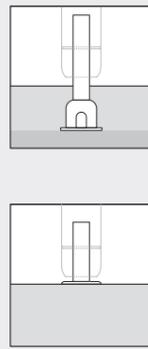
- Assembly variations**
- Flush-mounted: buried base
  - Surface-mounted: flange plate
  - Designed for feed-through wiring

System wattage	17.1 W
Current feed	350 mA
Protection class	I or II
Weight	55 kg

## BR21

Bike rack urban bollard light with opening for the attachment of locks, additional accent lighting at ground level

CE RoHS IK010



- Materials**
- Bollard: stainless steel and hot-dip galvanised steel
  - Buried base: hot-dip galvanised steel
  - Flange plate: stainless steel
  - Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

- Light source**
- 1 lighting unit with 8 high-power LEDs
  - Lighting unit in aluminum, sealed with polyurethane resin
  - Electronic control gear integrated

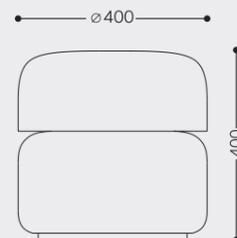
- Assembly variations**
- Flush-mounted: buried base
  - Surface-mounted: flange plate
  - Designed for feed-through wiring

System wattage	8.5 W
Current feed	350 mA
Protection class	I or II
Weight	11 kg

## LB23

Lighting bollard/seating with symmetric light distribution for illuminating open spaces, additional accent lighting at ground level

CE RoHS IK010

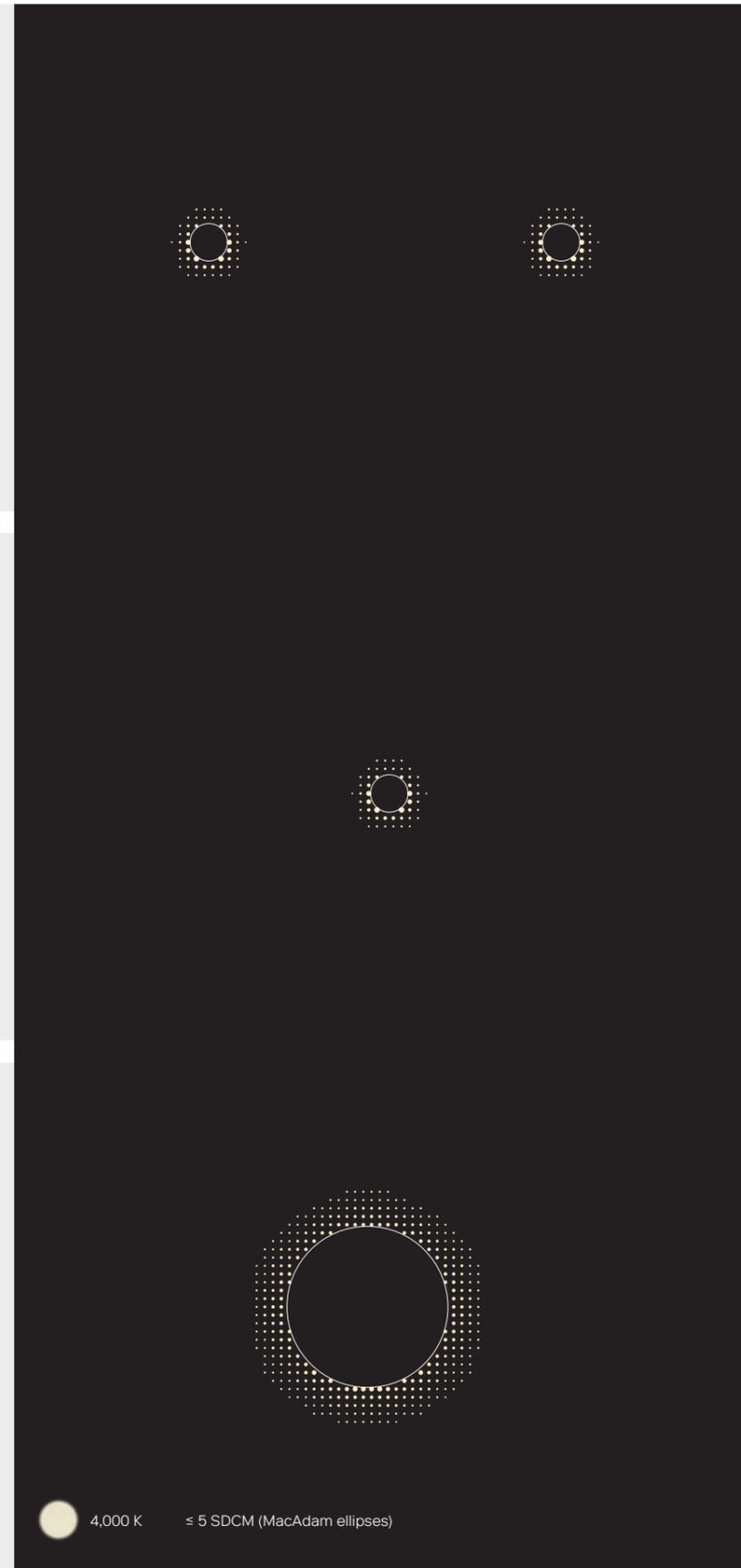


- Materials**
- Bollard: hot-dip galvanised steel
  - Buried base: hot-dip galvanised steel
  - Flange plate: hot-dip galvanised steel
  - Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

- Light source**
- 1 lighting unit with 16 high-power LEDs
  - Lighting unit in aluminum with transparent glass cover
  - Electronic control gear integrated

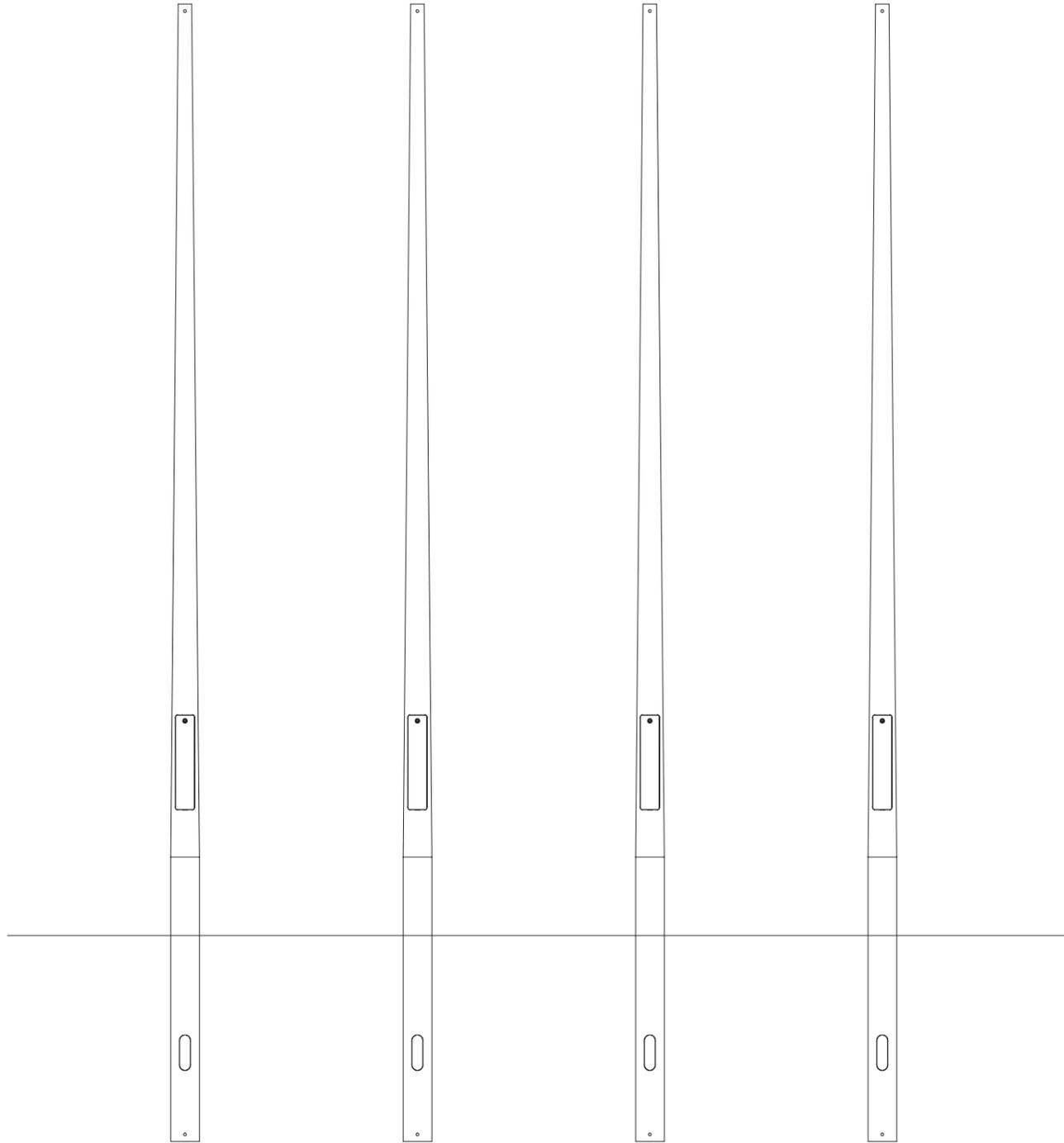
- Assembly variations**
- Flush-mounted: buried base
  - Surface-mounted: flange plate
  - Designed for feed-through wiring

System wattage	17.1 W
Current feed	350 mA
Protection class	I or II
Weight	12 kg



4,000 K  $\leq 5$  SDCM (MacAdam ellipses)

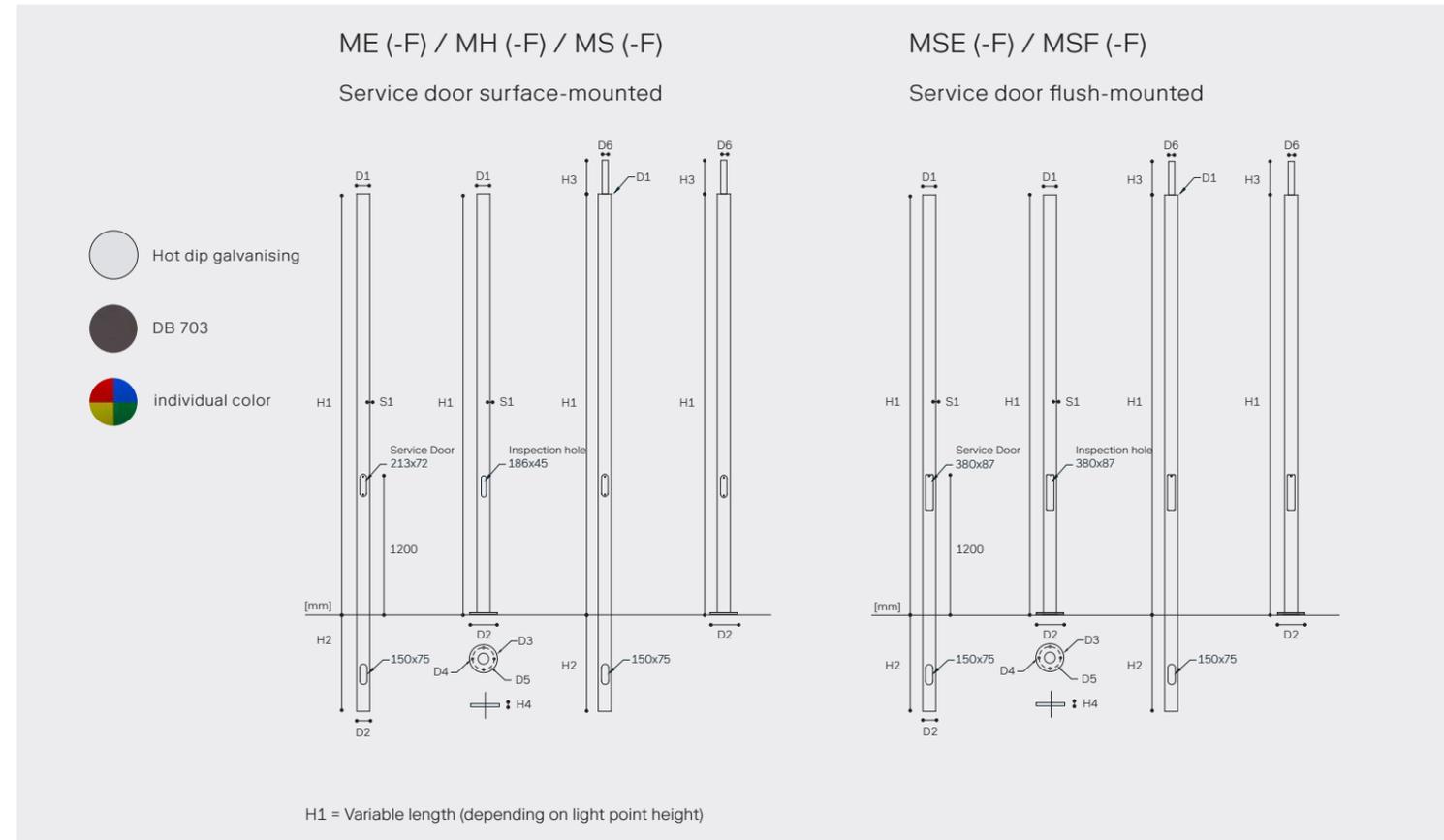
# Poles



ewo develops complete lighting solutions. These also include the production of poles. In so doing, we ensure the ideal interaction of the individual components, from the mechanical interfaces to the matching finish. Changes to the mounting heights are effortless, and with additional adaptations such as the application of revised openings or special mounting variations, we are just as flexible. Additionally, at our facilities in Kurtatsch/Cortaccia as well as our metal manufacturing plant that is still active in Sarnthein, we create custom pole constructions with a great demand upon the creative and handcrafted qualities.

All of the poles meet high standards of quality. The light poles are certified according to the European standard EN 40-5. Welding parameters as well as other requirements that are essential to the structural engineering are tested during regular independent audits.

# Cylindrical Poles



### ME (-F) / MH (-F) / MS (-F)

Pole material	steel Fe510C secondo UNI EN 10219 S355JO
Processing	without any longitudinal seam
Finish surface	Hot-dip galvanized steel/ Polyester powder coating (ewoECP.su.richiesta*)
Mounting options	Buried base or with flange

### MSE (-F) / MSF (-F)

Pole material	steel Fe510C secondo UNI EN 10219 S355JO
Processing	without any longitudinal seam
Finish surface	Hot-dip galvanized steel/ Polyester powder coating (ewoECP.su.richiesta*)
Mounting options	Buried base or with flange

\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Pole	D1	D6	H2	H3	D3	D5	D4	H4	S1	kg/m
MH1 (-F)	114,3	88,9	800 (0)	140	240	186	21	15	4	12,8
ME1 (-F)	114,3	/	800 (0)	/	240	186	21	15	4	12,8
MS (-F)	133,0	/	1,000 (0)	/	240	186	21	15	4	13,5
MH4 (-F)	114,3	76,1	800 (0)	85	240	186	21	15	4	12,8
MS2 (-F)	133,0	114,3	1,000 (0)	90	240	186	21	15	4	13,5
MS4 (-F)	133,0	/	1,200 (0)	/	240	186	21	15	4	13,5
MS6 (-F)	133,0	114,3	1,200 (0)	90	240	186	21	15	4	13,5
MS8 (-F)	133,0	76,1	1,000 (0)	85	240	186	21	15	4	13,5
MS10 (-F)	133,0	/	800 (0)	/	240	186	21	15	4	13,5
MS11 (-F)	133,0	114,3	800 (0)	90	240	186	21	15	4	13,5

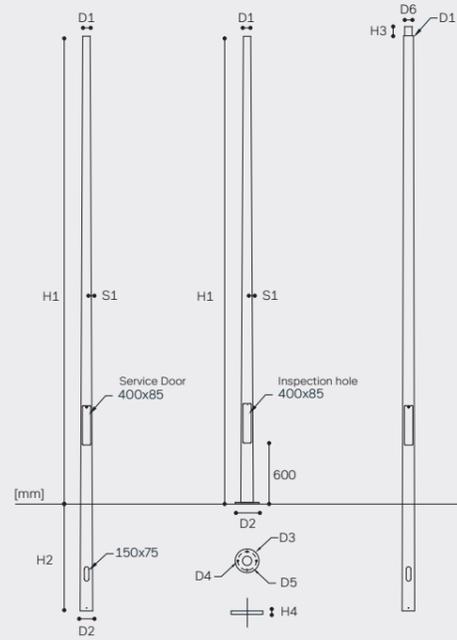
MSF (-F)	133,0	76	1,000 (0)	85	240	186	21	15	4	13,5
MSE (-F)	114,3	/	800 (0)	/	240	186	21	15	4	12,8
MSE1 (-F)	114,3	89	800 (0)	140	240	186	21	15	4	12,8
MSE2 (-F)	114,3	76	800 (0)	85	240	186	21	15	4	12,8
MSF4 (-F)	133,0	114	800 (0)	90	240	186	21	15	4	13,5
MSF8 (-F)	133,0	/	1,000 (0)	/	240	186	21	15	4	13,5
MSF9 (-F)	133,0	/	1,200 (0)	/	240	186	21	15	4	13,5
MSF10 (-F)	133,0	114	1,200 (0)	90	240	186	21	15	4	13,5
MSF11 (-F)	133,0	/	800 (0)	/	240	186	21	15	4	13,5
MSF13 (-F)	133,0	114	1,000 (0)	90	240	186	21	15	4	13,5

# Conical poles

## MKG (-F) / M-DFC

Service door flush-mounted

-  Hot dip galvanising
-  DB 703
-  individual color

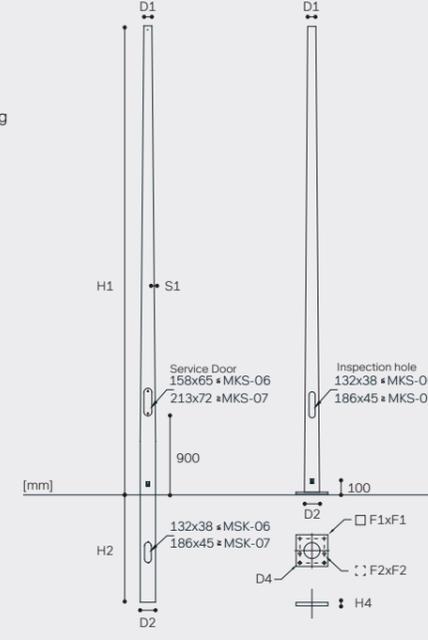


# Conical poles

## MKS (-F)

Service door surface-mounted

-  Hot dip galvanising
-  DB 703
-  individual color



### MKG (-F) / M-DFC (-F) not aimed at the Italian market

Pole material	steel HSP 275 JR UNI EN 10025
Processing	without any longitudinal seam
Finish surface	Hot-dip galvanized steel/ Polyester powder coating (ewoECP su richiesta*)
Mounting options	Buried base or with flange

\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Pole	H1	H3	D1	H2	D2	D6	D3	D5	D4	H4	S1	kg
MKG-01 (-F)	3,500	/	60	800 (0)	114.3	/	240	186	21	15	4.0	35.9 (32.8)
MKG-02 (-F)	4,000	/	60	800 (0)	121.0	/	240	186	21	15	4.0	45.6 (41.2)
MKG-03 (-F)	4,500	/	60	800 (0)	121.0	/	240	186	21	15	4.0	50.0 (45.3)
MKG-04 (-F)	5,000	/	60	800 (0)	121.0	/	240	186	21	15	4.0	54.3 (49.9)
MKG-05 (-F)	5,500	/	60	800 (0)	121.0	/	240	186	21	15	4.0	58.7 (54.2)
MKG-06 (-F)	6,000	/	60	800 (0)	121.0	/	240	186	21	15	4.0	63.1 (58.6)
MKG-07 (-F)	4,000	/	76	800 (0)	121.0	/	240	186	21	15	4.0	48.3 (43.9)
MKG-08 (-F)	5,000	/	76	800 (0)	121.0	/	240	186	21	15	4.0	57.8 (53.3)
MKG-09 (-F)	6,000	/	76	800 (0)	121.0	/	240	186	21	15	4.0	67.8 (62.8)
MKG-10 (-F)	7,000	/	76	1,000 (0)	152.4	/	325	272	21	20	4.0	99.5 (93.1)
MKG-11 (-F)	8,000	/	76	1,000 (0)	152.4	/	325	272	21	20	4.0	111.3 (104.9)
MKG-12 (-F)	9,000	/	76	1,200 (0)	168.3	/	325	272	21	20	4.0	134.9 (123.7)
MKG-13 (-F)	10,000	/	76	1,200 (0)	168.3	/	325	272	21	20	4.0	147.6 (136.4)
M-DFC-13	5,000	90	97	800	121.0	76	/	/	21		4.0	57.8
M-DFC-14	6,000	90	97	800	121.0	76	/	/	21		4.0	67.2
M-DFC-15	7,000	90	97	1,000	152.4	76	/	/	21		4.0	99.5

### MKS (-F)

Pole material	steel S235 JR UNI EN 10025
Processing	visible longitudinal weld seam
Finish surface	Hot-dip galvanized steel/ Polyester powder coating (ewoECP su richiesta**)
Mounting options	Buried base or with flange

\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Pole	H1	D1	H2	D2	F1x1	F2x2	D4	H4	S1	kg
MKS-01 (-F)	3,000	60	500 (0)	95 (90)	260 x 260	200 x 200	22	10	3	21 (23)
MKS-02 (-F)	3,500	60	500 (0)	100 (95)	260 x 260	200 x 200	22	10	3	24 (27)
MKS-03 (-F)	4,000	60	500 (0)	105 (100)	260 x 260	200 x 200	22	10	3	28 (31)
MKS-04 (-F)	4,500	60	500 (0)	110 (105)	260 x 260	200 x 200	22	10	3	32 (35)
MKS-05 (-F)	5,000	60	500 (0)	115 (110)	260 x 260	200 x 200	22	10	3	36 (39)
MKS-06 (-F)	5,500	60	500 (0)	120 (115)	260 x 260	200 x 200	22	10	3	41 (43)
MKS-07 (-F)	6,000	60	800 (0)	128 (120)	260 x 260	200 x 200	22	10	4	64 (62)
MKS-08 (-F)	7,000	60	800 (0)	138 (130)	260 x 260	200 x 200	22	10	4	77 (75)
MKS-09 (-F)	8,000	60	800 (0)	148 (140)	300 x 300	220 x 220	25	15	4	91 (95)
MKS-10 (-F)	9,000	60	800 (0)	158 (150)	300 x 300	220 x 220	25	15	4	107 (110)
MKS-11 (-F)	10,000	60	800 (0)	168 (160)	300 x 300	220 x 220	25	15	4	123 (126)

ewo

# LARGE AREA LIGHTING

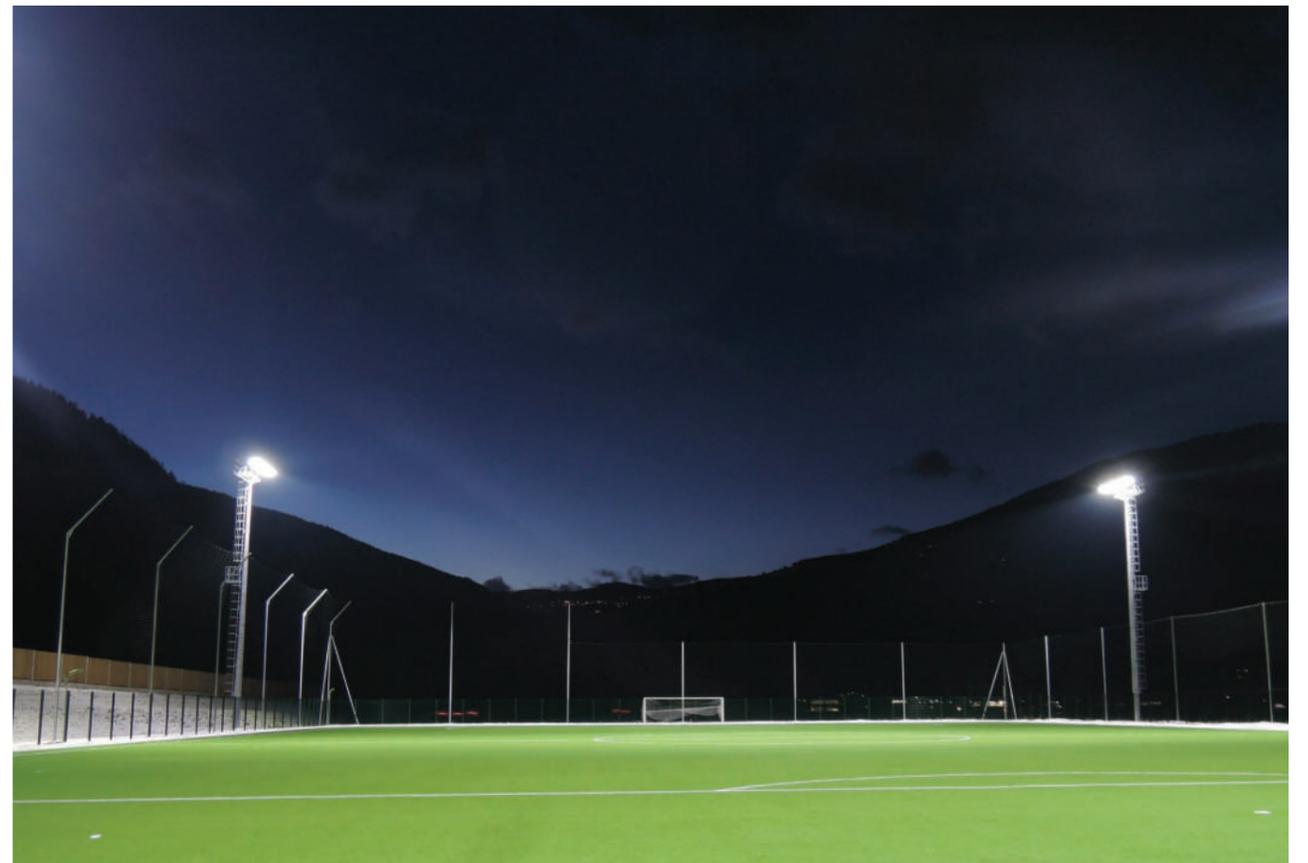


## R-System gen4

A new generation

The R1, R2 and R4 luminaires of the R-System have undergone a thorough update. Stronger current and more light now replace the 3rd generation flood-lights. Rectangular or round, with mounted or loose driver, with A-Series or E-Series lenses. Reduced stray light and optics that adapt to the market and application needs. This update has power in it!



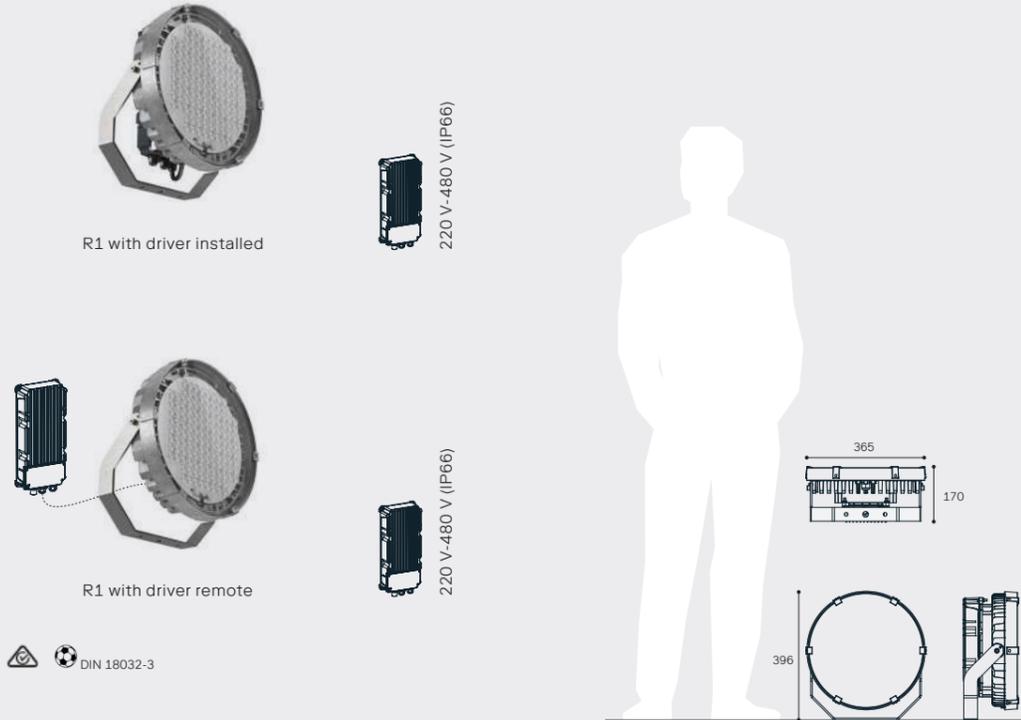


# R-System gen4

## R1 round 128 LEDs (A-Series)

Airports,  
Harbor  
Logistics centers  
Sports facilities

Without powder coating



### Configurator

CE RoHS IK08 IP66

### Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Stainless steel mounting bracket

### Measurements

Model	①	②	Weight [kg]
R1 round	0.03	0.1	8.3
R1 round + Driver	0.057	0.1	12.0

① Projected windage area [m<sup>2</sup>]  
② Lateral windage area [m<sup>2</sup>]

### Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-480, 50 / 60
Current max. [mA]	PMMA: 800 mA. PC: 1,100 mA
Power max. [W]	440

### Operating conditions

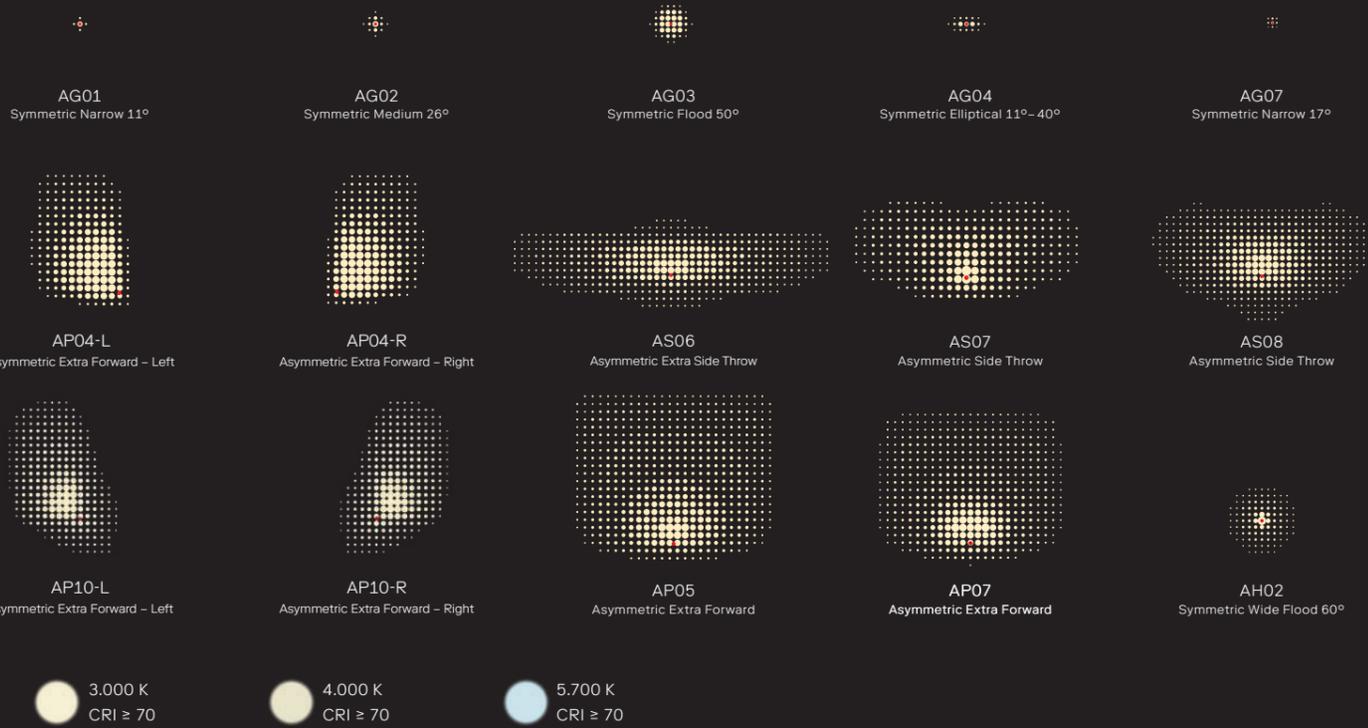
Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
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### Driver

Control Options	ON OFF DALI
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request



Precision lens optics



### Performance

Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP04-L	AP04-R	AP04-L/R	AP10-L	AP10-R	AP10-L/R
Beam angle	11°	26°	50°	11°-40°	17°	60°	-	-	-	-	-	-

Distribution	AP05	AP07	AS06	AS07	AS08
Beam angle	-	-	-	-	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	128
Lum. flux max. [lm] (4,000 K)	60,600



# R-System gen4

## A-Series



R1



R2



R4

**A SERIES** Precision lens optics

AG01 Symmetric Narrow 12°	AG02 Symmetric Medium 27°	AG03 Symmetric Flood 48°	AG04 Symmetric Elliptical 10°x40°	AG07 Symmetric Narrow 17°
AP05 Asymmetric Extra Forward	AP07 Asymmetric Extra Forward	AS07 Asymmetric Side Throw	AS08 Asymmetric Side and Forward Throw	
AP04-L Asymmetric Extra Forward – Left	AP04-R Asymmetric Extra Forward – Right	AP10-L Asymmetric Extra Forward – Left	AP10-R Asymmetric Extra Forward – Right	
AP04-L/R Asymmetric Extra Forward Left/Right	AP10-L/R Asymmetric Extra Forward Left/Right	AH02 Symmetric Wide Flood 60°	AS06 Asymmetric Extra Side Throw	
AFC01 Asymmetric Extra Forward	AFC02-L Asymmetric Extra Forward Left	AFC02-R Asymmetric Extra Forward Right	AFC02-L/R Asymmetric Extra Forward Left/Right	
AF02 Asymmetric Wide Flood				

### Control protocols

ON/OFF	
1-10 V	
DALI 2	
Zhaga Book 18	
Line Switch	
DMX-RDM	

### Programming options

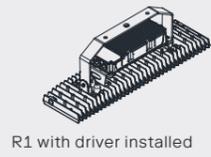
CLO	Constant Lumen Output
Stand-alone	



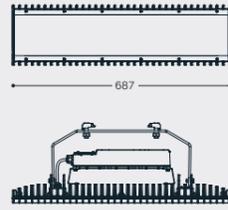
# R-System gen4

## R1 128 LED (A-Series)

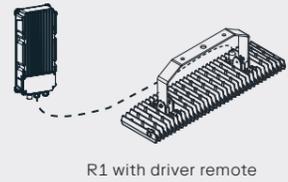
Airports,  
Harbor  
Logistics centers  
Sports facilities



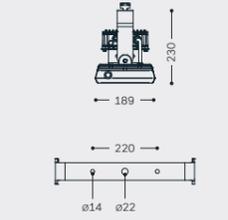
220 V-480 V (IP66)



Without powder coating



220 V-480 V (IP66)



### Configurator

CE RoHS IK08 IP66

### Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Stainless steel mounting bracket

### Measurements

Model	Tilt	①	②	Weight [kg] ③
R1 + Driver	0°	0.11	0.03	11.0
R1 + FCO	20°	0.19	0.04	12.4

① Projected windage area [m<sup>2</sup>]  
② Lateral windage area [m<sup>2</sup>]  
③ Weight with bracket and driver (driver 3.4 kg)

### Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	PMMA: 1,000 mA, PC: 1,300 mA
Power max. [W]	512

### Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

### Driver

Control Options	ON OFF DALI DMX
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request



Precision lens optics

3,000 K\* CRI ≥ 70    4,000 K\* CRI ≥ 70    5,700 K\* CRI ≥ 70

\* additional light colors and CRI on request

### Performance

Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP04-L	AP04-R	AP04-L/R	AP10-L	AP10-R	AP10-L/R
Beam angle	11°	26°	50°	10°x40°	17°	60°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	20°	20°	20°	7°	7°	7°

Distribution	AP05	AP07	AS06	AS07	AS08	AFC01	AFC02-L	AFC02-R	AFC02-L/R	AF02
Beam angle	-	-	-	-	-	-	-	-	-	-
Full Cut Off (Tilt)	7°	-	-	-	-	30°	30°	30°	30°	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	128
Lum. flux max. [lm] (5,700 K)	73,000

### Accessories



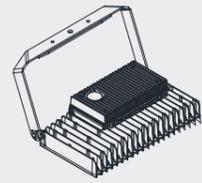
Bird Spike    Full-Cut-Off visor    Multipurpose bracket



# R-System gen4

## R2 240 LED (A-Series)

Airports,  
Harbor  
Logistics centers  
Sports facilities

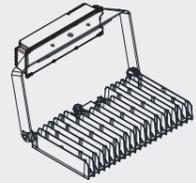


R2 with driver installed



230 V (IP20)

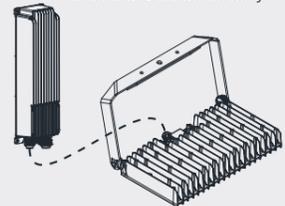
Without powder coating



R2 with driver mounted on bracket via accessory



220 V-415 V (IP66)



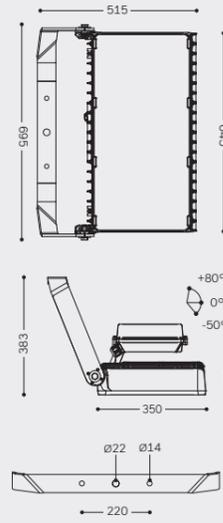
R2 with driver remote



220 V-415 V (IP66)



230 V (IP20)



### Configurator

CE RoHS IK10  
IP66 RoHS IK10

### Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Mounting bracket made of hot-dip galvanised steel

### Measurements

Model	Tilt	①	②	Weight [kg] ③
R2	0°	0.27	0.09	22.0
R2 + Driver installed	0°	0.27	0.13	28.5
R2 + Driver on bracket	0°	0.27	0.18	28.0
R2 + Driver on bracket + FCO	10°	0.34	0.19	29.5

① Projected windage area [m<sup>2</sup>]  
② Lateral windage area [m<sup>2</sup>]  
③ Weight with bracket M

### Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	1,200
Power max. [W]	870

### Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

### Driver

On request

Control Options	ON OFF DALI 1-10V DMX	Z
Programming	Stand-alone Constant Lumen Output (CLO)	
Control accessories	Further accessories on request	



Precision lens optics

3,000 K\* CRI ≥ 70      4,000 K\* CRI ≥ 70      5,700 K\* CRI ≥ 70/80/90

\* additional light colors and CRI on request

### Performance

Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP10-L	AP10-R	AP10-L/R	AS06	AS07	AS08
Beam angle	11°	26°	50°	10°x40°	17°	60°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	7°	7°	7°	-	-	-

Distribution	AP07
Beam angle	-
Full Cut Off (Tilt)	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	240
Lum. flux max. [lm] (5,700 K)	125,100

### Accessories



Bird Spike      Full-Cut-Off visor      Laser Pointer      RedDot      Slide

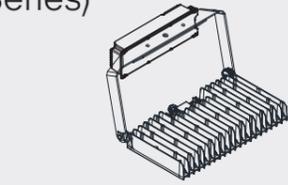


# R-System gen4

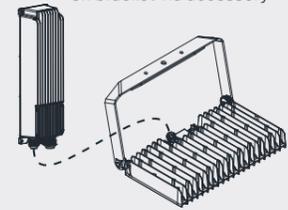
## R2 336 LED (A-Series)

Airports,  
Harbor  
Logistics centers  
Sports facilities

Without powder coating



R2 with driver mounted on bracket via accessory



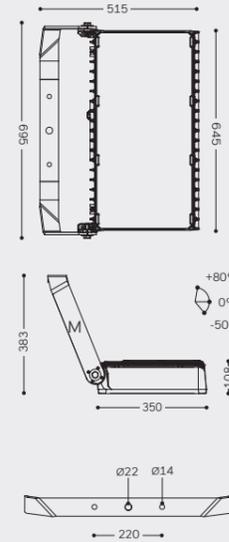
R2 with driver remote



220 V-415 V (IP66)



220 V-415 V (IP66)



### Configurator

CE RoHS IK10  
IP66 RoHS IK10

### Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Mounting bracket made of hot-dip galvanised steel

### Measurements

Model	Tilt	4 <sup>Ⓛ</sup> ①	-1 <sup>Ⓛ</sup> ②	Weight [kg] ③
R2	0°	0.27	0.09	22.0
R2 + Driver on bracket	0°	0.27	0.18	29.0
R2 + Driver on bracket + FCO	10°	0.34	0.19	30.5

① Projected windage area [m<sup>2</sup>]  
② Lateral windage area [m<sup>2</sup>]  
③ Weight with bracket M

### Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

### Electrical

	A-Series
Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	1,200
Power max. [W]	1,200

### Driver

Control Options	ON OFF DALI 1-10V DMX
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request

### On request



Precision lens optics  
\* also available in satiné version

3,000 K\* CRI ≥ 70  
4,000 K\* CRI ≥ 70  
5,700 K\* CRI ≥ 70/80/90

\* additional light colors and CRI on request

### Performance

	AG01	AG02	AG03	AG04	AG07	AH02	AP10-L	AP10-R	AP10-L/R	AS06	AS07	AS08
Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP10-L	AP10-R	AP10-L/R	AS06	AS07	AS08
Beam angle	11°	26°	50°	10°x40°	17°	60°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	7°	7°	7°	-	-	-

	AP07
Distribution	AP07
Beam angle	-
Full Cut Off (Tilt)	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	336
Lum. flux max. [lm] (5,700 K)	175,100

### Accessories



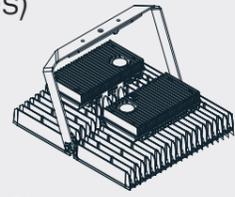
Bird Spike Full-Cut-Off visor Laser Pointer RedDot Slide



# R-System gen4

## R4 480 LED (A-Series)

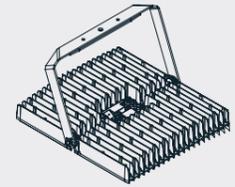
Airports,  
Harbor  
Logistics centers  
Sports facilities



R4 with driver installed



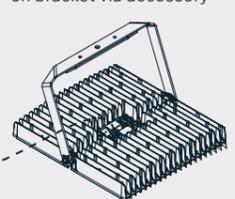
230 V (IP20)



R4 with driver mounted on bracket via accessory



220 V-415 V (IP66)



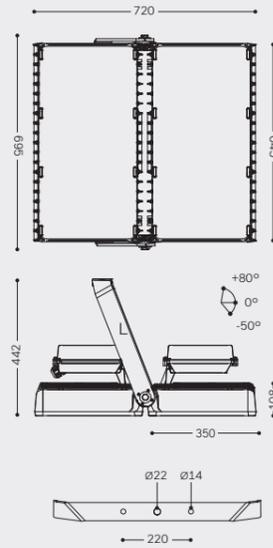
R4 with driver remote



220 V-415 V (IP66)



230 V (IP20)



Without powder coating

### Configurator

CE RoHS IK10  
IP66 RoHS IK10

### Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Mounting bracket made of hot-dip galvanised steel

### Measurements

Model	Tilt	①	②	Weight [kg] ③
R4	0°	0.54	0.09	36.5
R4 + Driver installed	0°	0.54	0.13	50.0
R4 + Driver on bracket	0°	0.54	0.18	44.5

① Projected windage area [m<sup>2</sup>]  
② Lateral windage area [m<sup>2</sup>]  
③ Weight with bracket L

### Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	1,200
Power max. [W]	1,740

### Operating conditions

Lifetime	Visit the <a href="#">configurator</a> for specific lifetime options
----------	--

### Driver

On request

Control Options	ON OFF DALI 1-10V DMX	Z
Programming	Stand-alone Constant Lumen Output (CLO)	
Control accessories	Further accessories on request	



Precision lens optics

3,000 K\* CRI ≥ 70  
4,000 K\* CRI ≥ 70  
5,700 K\* CRI ≥ 70/80/90

\* additional light colors and CRI on request

### Performance

Distribution	AG01	AG02	AG03	AG04	AH02	AG07	AS06	AS07	AS08	AP10-L	AP10-R	AP10-L/R
Beam angle	11°	26°	50°	10°x40°	60°	17°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	-	-	-	7°	7°	7°

Distribution	AP07
Beam angle	-
Full Cut Off (Tilt)	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	480
Lum. flux max. [lm] (5,700 K)	250,200

### Accessories



Bird Spike



Laser Pointer



RedDot

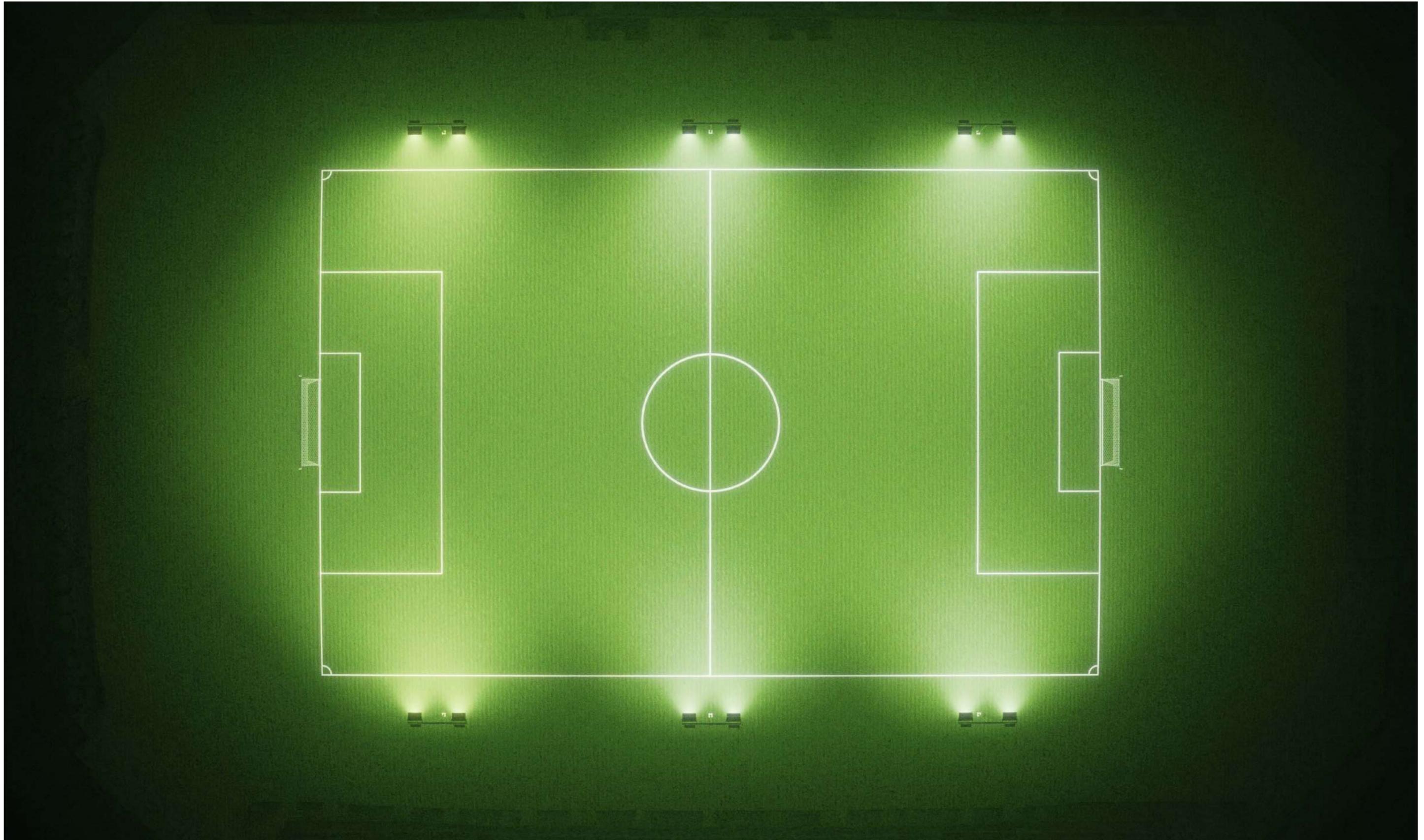


Slide

Performance table

B: on bracket  
R: remote  
I: installed

Values 5,700 K																
Model	LED	Lens	Material	I min [mA]	I max [mA]	Flux min [lm]	Flux max [lm]	Power min [W]	Power max [W]	Eff. max [l/W]	Eff. min [l/W]	Driver input voltage range	Driver IP rate	Driver mounting type		
R1	128	AP1604-L	PMMA	500	1,000	29,900	54,000	198	398	151.3	135.7	220V-480V	66	I / R		
		AP1604-R	PMMA	500	1,000	29,900	54,000	198	398	151.3	135.7	220V-480V	66	I / R		
		AP1604-L/R	PMMA	500	1,000	29,900	54,000	198	398	151.3	135.7	220V-480V	66	I / R		
		AP05	PMMA	500	1,000	29,800	53,800	198	398	150.8	135.2	220V-480V	66	I / R		
		AP07	PMMA	500	1,000	28,800	52,000	198	398	145.8	130.7	220V-480V	66	I / R		
		AH02	PMMA	500	1,000	31,000	56,100	198	398	157.0	140.8	220V-480V	66	I / R		
		AS06	PMMA	500	1,000	28,700	51,900	198	398	145.2	130.2	220V-480V	66	I / R		
		AS07	PMMA	500	1,000	30,000	54,300	198	398	152.0	136.3	220V-480V	66	I / R		
		AS08	PMMA	500	1,000	29,400	53,200	198	398	148.9	133.5	220V-480V	66	I / R		
		AG01.2	PC	500	1,300	33,100	73,000	198	519	167.1	140.7	220V-480V	66	I / R		
		AG02.2	PC	500	1,300	31,100	68,700	198	519	157.2	132.3	220V-480V	66	I / R		
		AG03.2	PC	500	1,300	28,500	62,900	198	519	144.0	121.2	220V-480V	66	I / R		
		AG04.2-H	PC	500	1,300	32,000	70,700	198	519	161.8	136.2	220V-480V	66	I / R		
		AG04.2-V	PC	500	1,300	32,000	70,700	198	519	161.8	136.2	220V-480V	66	I / R		
		AG07	PC	500	1,300	30,490	66,100	198	519	154.0	127.1	220V-480V	66	I / R		
		AP10-L	PC	500	1,300	29,600	65,400	198	519	149.8	126.1	220V-480V	66	I / R		
		AP10-R	PC	500	1,300	29,600	65,400	198	519	149.8	126.1	220V-480V	66	I / R		
		AP10-L/R	PC	500	1,300	29,600	65,400	198	519	149.8	126.1	220V-480V	66	I / R		
		AFC01 (FCO)	PC	500	1,300	27,100	57,000	198	519	137.0	115.2	220V-480V	66	I / R		
		AF02	PC	500	1,300	30,500	67,360	198	510	129.5	154.1	220V-480V	66	I / R		
		AFC02-L (FCO)	PC	500	1,300	27,700	61,170	198	510	117.6	139.9	220V-480V	66	I / R		
		AFC02-R (FCO)	PC	500	1,300	27,700	61,170	198	510	117.6	139.9	220V-480V	66	I / R		
		R2	240	AG01.2	PC	500	1,200	61,600	125,100	350	870	175.9	144.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG02.2	PC	500	1,200	57,900	117,700	350	870	165.5	135.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG03.2	PC	500	1,200	53,000	107,800	350	870	151.6	124.1	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG04.2-H	PC	500	1,200	59,600	121,100	350	870	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG04.2-V	PC	500	1,200	59,600	121,100	350	870	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG07	PC	500	1,200	65,620	113,700	350	870	128.1	152.9	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AH02	PMMA	500	800	57,800	86,300	350	570	165.3	151.6	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AP07	PMMA	500	800	47,876	70,514	350	570	130.8	120.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
AS07	PMMA			500	800	51,900	77,400	350	570	148.2	136.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AS08	PMMA			500	800	54,800	81,800	350	570	156.2	143.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AP10-L	PC			500	1,200	56,100	113,900	350	870	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AP10-R	PC			500	1,200	56,100	113,900	350	870	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AP10-L/R	PC			500	1,200	55,000	111,700	350	870	157.2	128.7	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
R2	336			AG01.2	PC	500	1,200	86,200	175,100	490	1,200	175.9	144.0	220V-415V	66	R, B
				AG02.2	PC	500	1,200	81,100	164,700	490	1,200	165.5	135.5	220V-415V	66	R, B
				AG03.2	PC	500	1,200	74,200	150,800	490	1,200	151.6	124.1	220V-415V	66	R, B
				AG04.2-H	PC	500	1,200	83,400	169,500	490	1,200	170.4	139.5	220V-415V	66	R, B
				AG04.2-V	PC	500	1,200	83,400	169,500	490	1,200	170.4	139.5	220V-415V	66	R, B
		AG07	PC	500	1,200	78,350	159,200	490	1,200	130.8	159.8	220V-415V	66	R, B		
		AH02	PMMA	500	800	80,950	120,800	490	797	165.3	165.3	220V-415V	66	R, B		
		AP07	PMMA	500	800	72,600	108,350	490	797	148.2	136.0	220V-415V	66	R, B		
		AS06	PMMA	500	800	74,573	109,835	490	797	159.8	130.8	220V-415V	66	R, B		
		AS07	PMMA	500	800	78,350	116,900	490	797	159.9	146.8	220V-415V	66	R, B		
		AS08	PMMA	500	800	76,800	114,500	490	797	156.7	143.8	220V-415V	66	R, B		
		AP10-L	PC	500	1,200	78,500	159,500	490	1,200	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
		AP10-R	PC	500	1,200	78,500	159,500	490	1,200	153.3	128.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
		AP10-L/R	PC	500	1,200	77,000	156,500	490	1,200	157.2	128.7	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
		R4	480	AG01.2	PC	500	1,200	123,100	250,200	700	1,740	175.9	144.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG02.2	PC	500	1,200	115,800	235,300	700	1,740	165.5	135.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG03.2	PC	500	1,200	106,100	215,500	700	1,740	151.6	124.1	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
				AG04.2-H	PC	500	1,200	119,200	242,200	700	1,740	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
AG04.2-V	PC			500	1,200	119,200	242,200	700	1,740	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AG07	PC			500	1,200	111,930	227,420	700	1,740	130.8	159.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AH02	PMMA			500	800	115,650	172,550	700	1,139	165.3	151.6	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AP07	PMMA			500	800	103,700	154,800	700	1,139	148.2	136.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AS07	PMMA			500	800	111,900	167,000	700	1,139	159.9	146.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AS08	PMMA			500	800	109,700	163,600	700	1,139	156.7	143.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AP10-L	PC			500	1,200	112,200	227,900	700	1,740	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AP10-R	PC			500	1,200	112,200	227,900	700	1,740	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		
AP10-L/R	PC			500	1,200	110,000	223,500	700	1,740	157.2	128.7	220V-240V / 220V-415V	20 / 66	I, R, B / R, B		

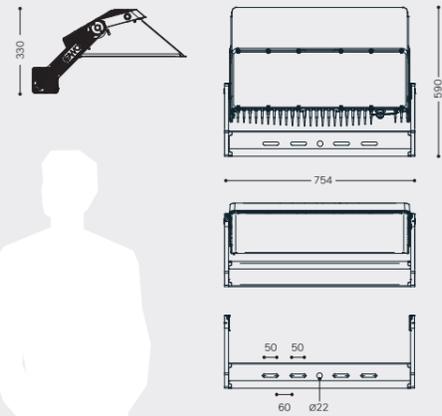
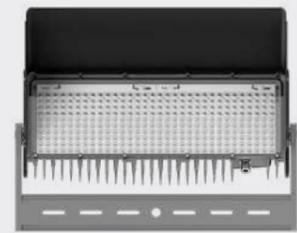


**A**  
SERIES

## RIVAL

ready to compete

RIVAL puts indoor and outdoor sports fields in the right light. The floodlight is corrosion resistant and can therefore, in its uncoated form, be used in all climatic environments. It is available in two tilt options, and a factory installed FCO shield also minimizes glare and prevents light from spilling upward. With A-Series lenses and five different light distributions, RIVAL easily outshines its competition.



without polyester powder coating

Configurator

CE RoHS IK08 IP66 DarkSky DIN 18032-3

Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating (ewoECP only with powder coating upon request*)
Finish colour	colours on request
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	with bracket

\* ewo three steps process (high quality alloy, pre-treatment, primer) to ensure extreme corrosion resistance

Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	1,200
Current min. DALI [mA]	20
LED power [W]	1,157

Measurements

Model	$I_{p}^{\circ}$ ①	$I_{l}^{\circ}$ ②	Weight [kg] ③
RIVAL (FCO 10°)	0.38	0.16	29.0
RIVAL (FCO 30°)	0.39	0.21	30.0

① Projected windage area [m²] (Tilt 0°)  
 ② Lateral windage area [m²] (Tilt 0°)  
 ③ Weight with bracket, Full-Cut-Off and driver (driver 5.02 kg)

Operating conditions

Lifetime	at 25°C
L70B10 projected	100,000 h (1,200 mA)
L80B10 projected	100,000 h (1,100 mA)
L90B10 projected	28,000 h (1,100 mA)

Driver (external)

upon request

Control Options	ON OFF DALI 1-10V DIMX-BDM	Z N
Programming		Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request	



Precision lens optics



AFC01  
Asymmetric extra forward



AF02  
Asymmetric forward throw



AP10-L  
Asymmetric Extra Forward - Left



AP10-R  
Asymmetric Extra Forward - Right



AP10-L/R  
Asymmetric Extra Forward - L/R



AFC02-L  
Asymmetric forward throw - L



AFC02-R  
Asymmetric forward throw - Right



AFC02-L/R  
Asymmetric forward throw - L/R

3,000 K\*  
CRI ≥ 70

4,000 K\*  
CRI ≥ 70

5,700 K\*  
CRI ≥ 70

\* additional light colours and CRI on request

Performance

Distribution	AFC01	AFC02-L	AFC02-R	AFC02-L/R	AF02	AP10-L	AP10-R	AP10-L/R
Beam angle	62,5°	65°	65°	65°	47,5°	67,5°	67,5°	67,5°
Full Cut Off (adjustable ±5°)	30°	30°	30°	30°	30°	10°	10°	10°
MacAdam ellipses (SDCM)	≤ 5 SDCM							
Nr. of LEDs	320							
Luminous flux [lm] (4,000 K)	146.600							
Lum. efficiency up to [lm/W]	161							

Accessories



Bird deterrent



Laser Pointer



RedDot



Assembly slide

Headquarters	Cortaccia in the Bolzano area, South Tyrol, Italy
Offices	Austria, Germany and Italy plus an extensive network of international partners
Number of Employees	> 100
CEO	Hannes Wohlgemuth

We know that special lighting projects require close interaction.  
That is why personal contact with you is the key to our corporate philosophy.

Call us today – our team of experts will be happy to advise you.

Would you like to stay up to date on what's new at our end?  
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Errors and omissions excepted. Subject to change.

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