

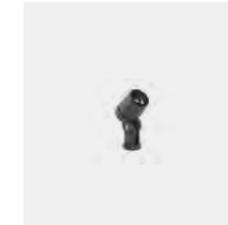
Product Families

Chameleon

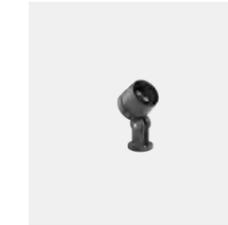
p. 16-63



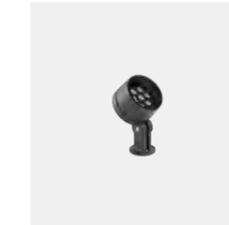
C90



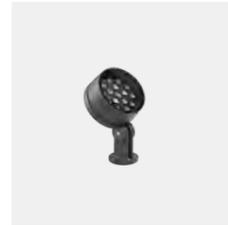
C125



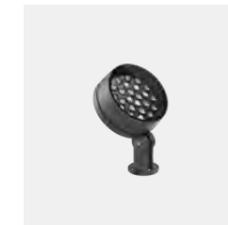
C165



C210



C260



C365



F-System

p. 64-89



F-System M



F-System S



F-System XS



F-System M-W



FO

p. 90-103



FO420



FO600



FA

p. 104-125



FA770



FA170



FA100-W



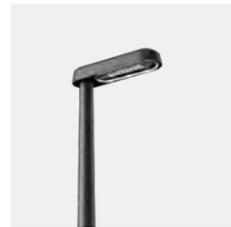
Products Families

GO

p. 126-139



GO



GO-W

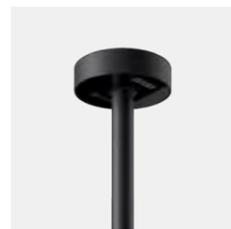


CN

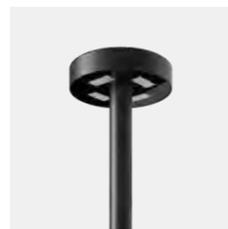
p. 140-153



CN500



CN600



IR

p. 154-173



IR



IR-W



CO

p. 174-185



CO500



CO600

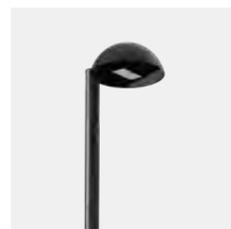


DA

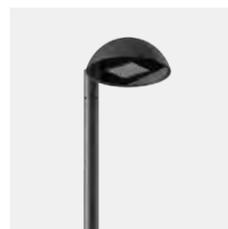
p. 186-197



DA400



DA520



FN

p. 198-209



FN1000



FN1300



if, if round

p. 210-233



if



if-W



if round



if round-WD/WU/WB



EL

p. 234-261



EL380



EL2000



EL-W



ZA

p. 262-265



ZA190



IN

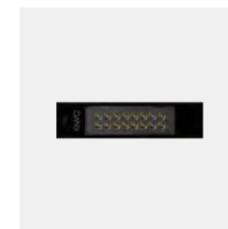
p. 266-277



IN-WALL



IN-CEILING



IN-GROUND



Products Families

RAZER

p. 278-279



RAZER



ID

p. 280-285



IDstandard

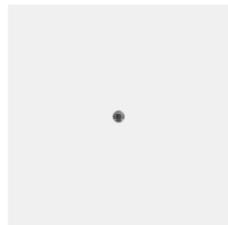


R-Series

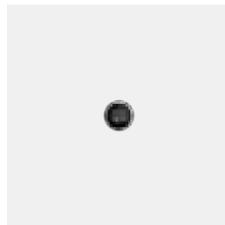
p. 286-301



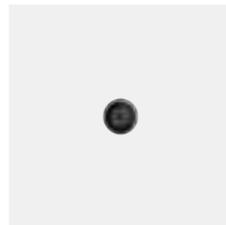
R50



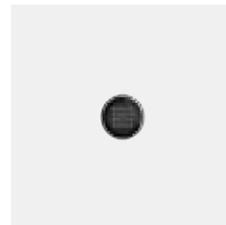
R90



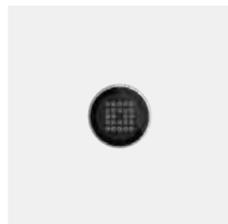
R130



R160



R200



UP-Series

p. 302-315

LB21



LB22



LB23



BD21



BD22



BD23



BR21



WR21



WR22

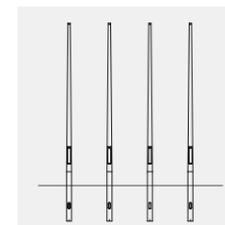


SB21



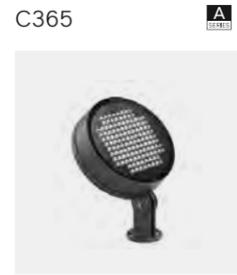
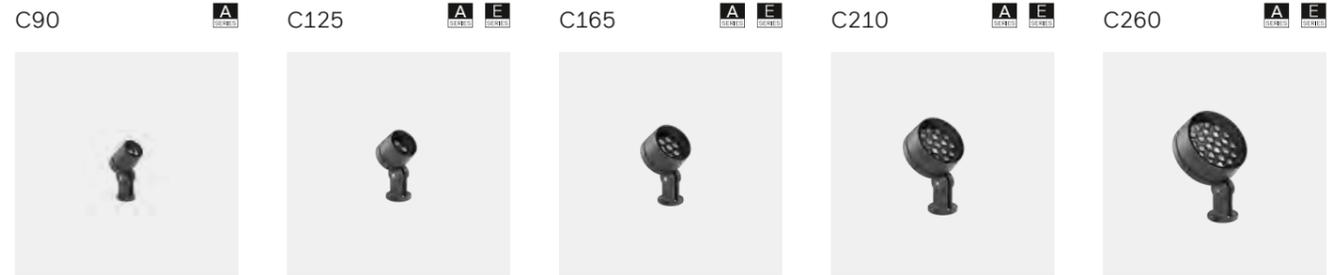
Poles

p. 316-319

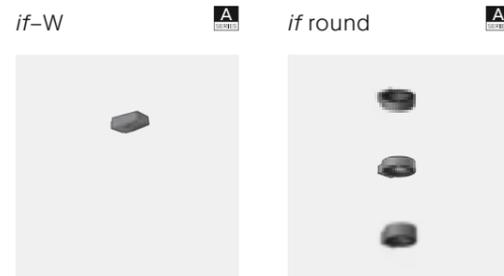


Products Categories

Projectors



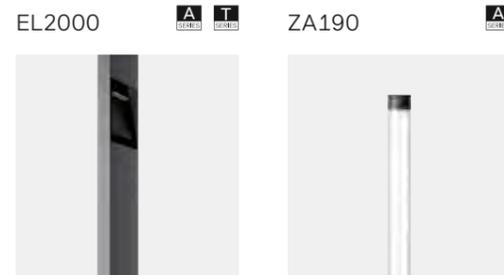
Wall/ceiling luminaires



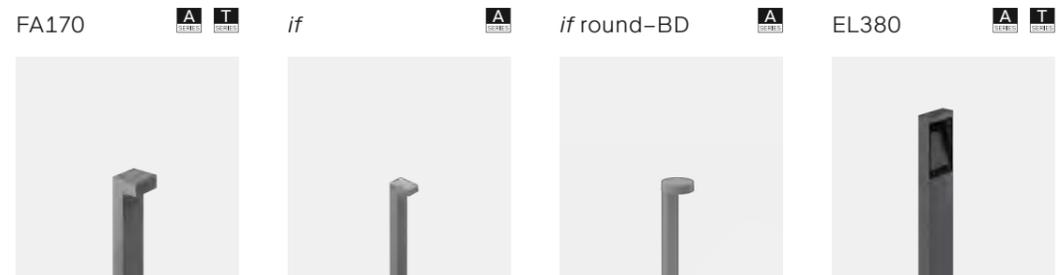
Pole-/wall-mounted systems



Light columns

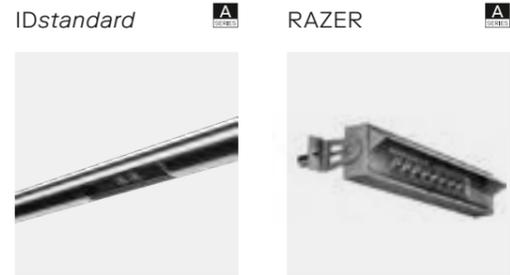


Bollards

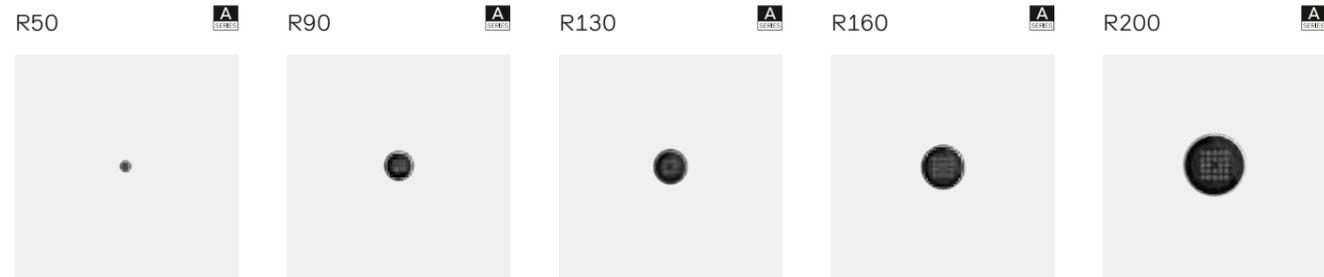


Products Categories

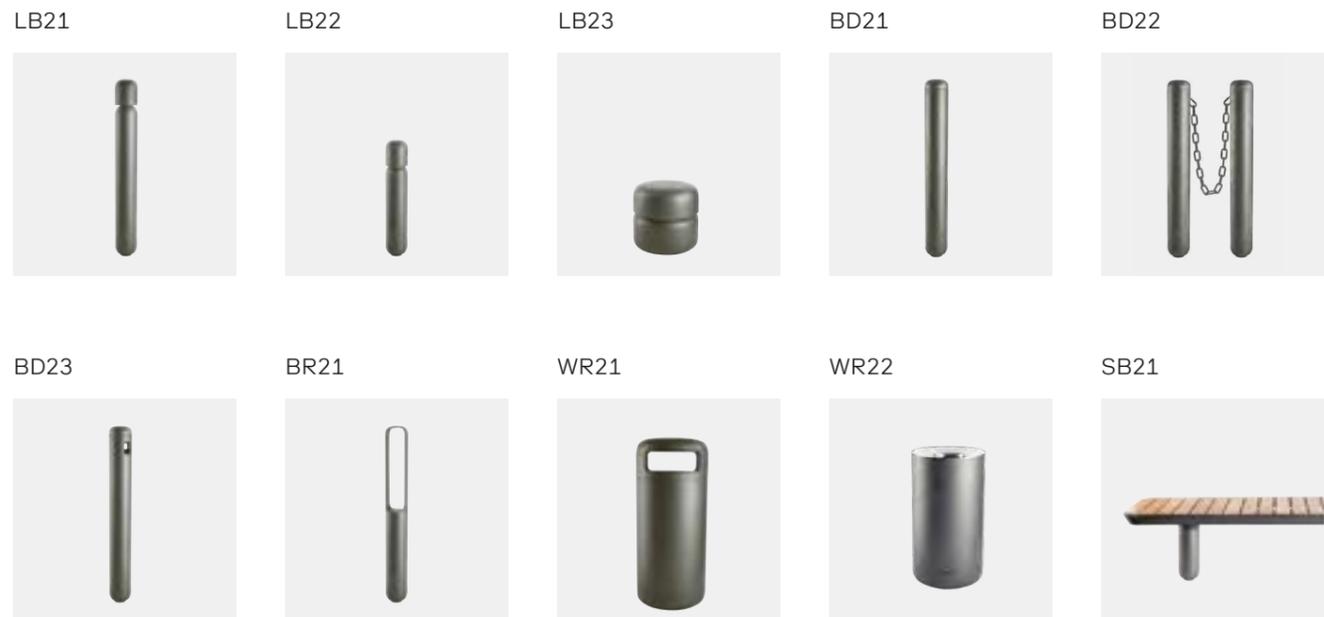
Linear systems



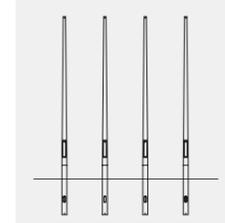
In-ground luminaires



Urban furniture



Pole



LARGE AREA LIGHTING

Products Families

R-System

p. 318-341



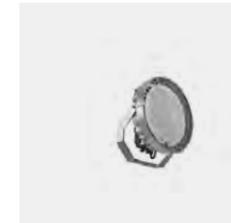
gen4 R2



gen4 R4



gen4 R1 round



gen4 R1



gen4 R2



gen4 R4



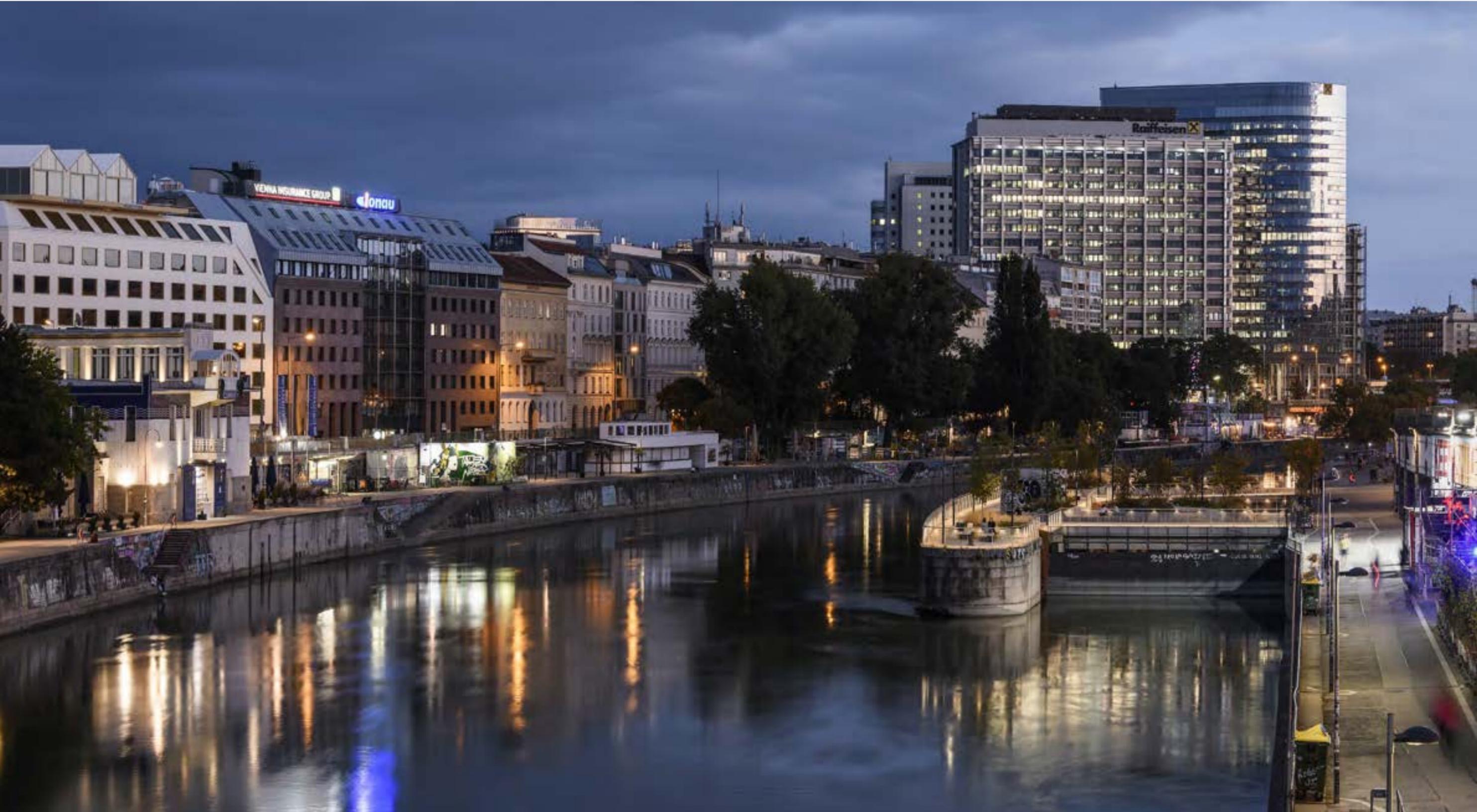
RIVAL

p. 342-347



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

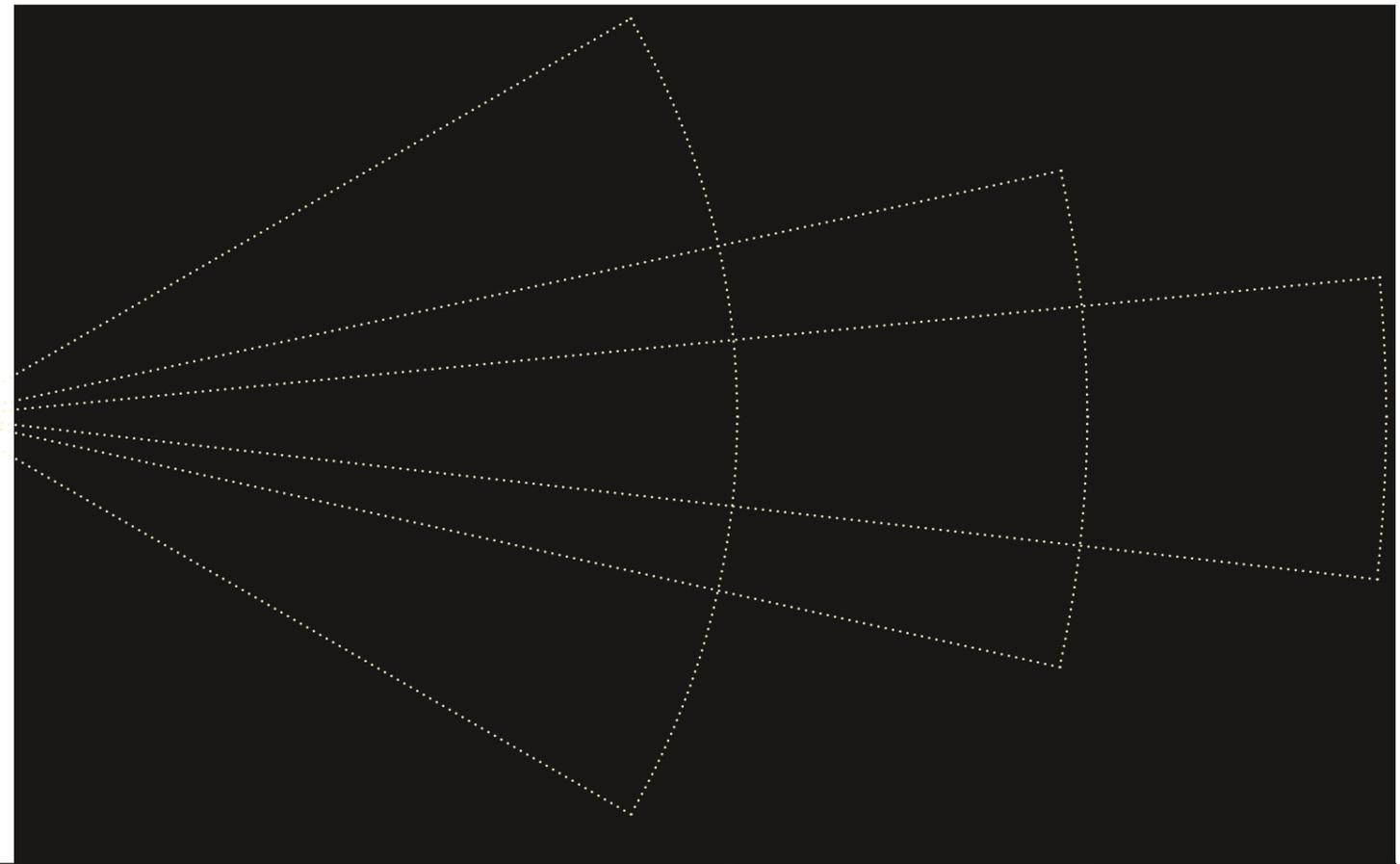
With its unrivalled modularity, Chameleon uses a vast catalogue of mounting options, ewoLightLayers, optics and finishes to adapt seamlessly to a plethora of applications including Architecture and the Arts, Public Spaces, and Roads and Traffic.





Standard distributions

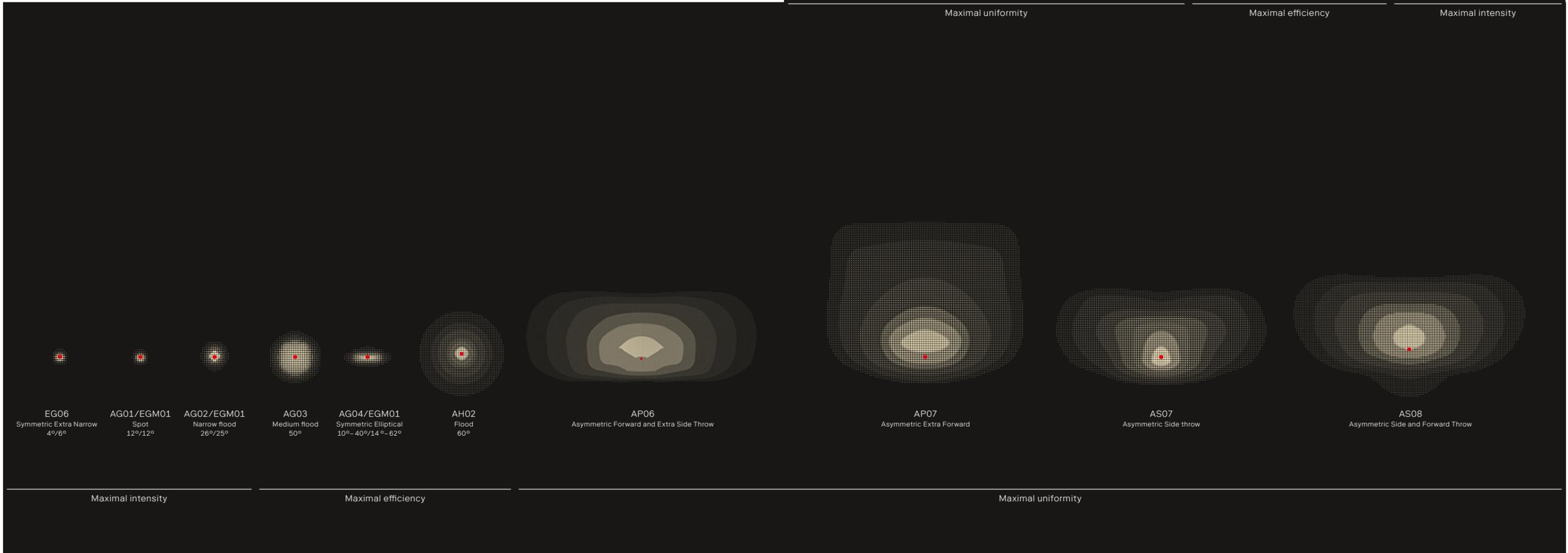
ewo's high precision lens optics have the power to transform public spaces into urban sanctuaries, improving people's wellbeing outdoors.



Maximal uniformity

Maximal efficiency

Maximal intensity





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°.





BODY OF LIGHT



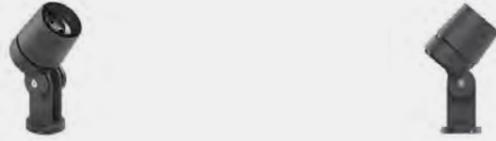
SHAPE OF LIGHT



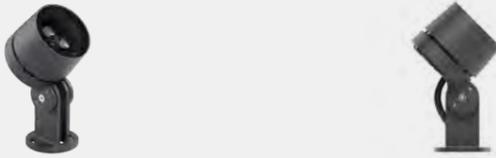
INTELLIGENCE OF LIGHT



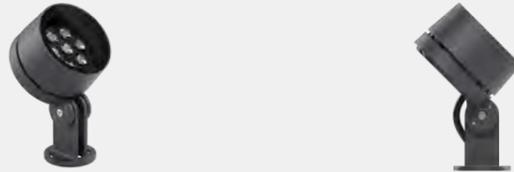
C90
Slice



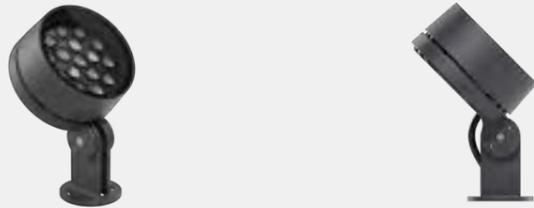
C125
Slice



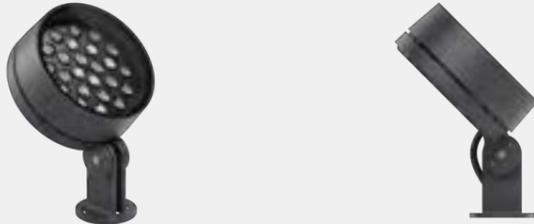
C165
Slice



C210
Slice



C260
Slice



C365
Slice



A
SERIES



AG01
Symmetric Narrow 12°



AG02
Symmetric Medium 27°



AG03
Symmetric Flood 48°

E
SERIES



EG06
Symmetric Ultra Narrow 4°



AG04
Symmetric Elliptical 10°x40°



AH02
Symmetric Wide Flood



AP06
Asymmetric Forward and Extra Side Throw



EG06
Symmetric Extra Narrow 6°



AP07
Asymmetric Extra Forward



AS07
Asymmetric Side Throw



AS08
Asymmetric Side and Forward Throw



AS09
Asymmetric Extra Side Throw



AV01
Asymmetric Extra Forward Grazing

E
SERIES



EGM01
Symmetric Narrow 12°



EGM01
Symmetric Medium 25°



EGM01
Symmetric Elliptical 14°x62°



EGX01
Symmetric Narrow 15°



EGX01
Symmetric Medium 27°



EGX01
Symmetric Elliptical 17°x62°

Monochrome

Control protocols

| | |
|-------------|--|
| ON/OFF | |
| DALI 2 | |
| ewo connexx | |
| Line Switch | |

Programming options

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

Tunable White Internal/Discrete

Control protocols

| | |
|-------------|--|
| DALI 2 T8 | |
| ewo connexx | |

RGBW Internal/Discrete

Control protocols

| | |
|-------------|--|
| DALI 2 | |
| ewo connexx | |
| DMX-RDM | |

Chameleon

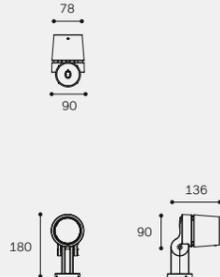
C90 Slice

Projector
Wall luminaire
Pole-mounted system



DB 703
Anthracite

ewo
color



Configurator

CE IP66 RoHS IK08

Housing

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

Measurements

| | | | |
|-------|-------------------------------|----------------|-----------------------|
| Model | ⊕ [⊙] | ⊖ [⊙] | Weight [kg] |
| C90 | 0.013* | 0.015* | 1.2* |
| | ⊙ 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 | | | |
|-------------------|------------|----------|---------------|----------|----------|----------|----------|----------|----------|----------|
| | | | 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. | 4 | 1 | - | - | - | 4 | - | - | - | 4 |
| Current max. [mA] | 1,000 | 1,000* | - | - | - | 260 | - | - | - | 400 |
| LED power [W] | 11.7 | 2.9 | - | - | - | 1.5 | - | - | - | 4.7 |

* 700 for EG06 - 4°

Driver (external)

| | Monochrome | RGBW | Tunable White |
|------------------------|---|--------------|---------------|
| Control Options | ON OFF DALI X X LYS | 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 | | |

A SERIES Precision lens optics

AG01 Symmetric Narrow 12°

AG02 Symmetric Medium 27°

AG03 Symmetric Flood 48°

AG04 Symmetric Elliptical 10°x40°

AH02 Symmetric Wide Flood

AP06 Asymmetric Forward and Extra Side Throw

AP07 Asymmetric Extra Forward

AS07 Asymmetric Side Throw

AS08 Asymmetric Side and Forward Throw

AS09 Asymmetric Extra Side Throw

E SERIES

EG06 Symmetric Narrow 6°

EGM01 Symmetric Narrow 12°

EGM01 Symmetric Medium 25°

EGM01 Symmetric Elliptical 14°x62°

Monochrome

2.200 K CRI ≥ 80*

2.700 K CRI ≥ 80*

3.000 K CRI ≥ 80*

4.000 K CRI ≥ 80*

Tunable White CRI ≥ 80

RGBW

* additional light color on request

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS08 | AS09 | EG06 | EGM01 | EGM01 | EGM01 |
|------------------------|------|------|------|---------|------|------|------|------|------|-------|-------|-------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | 4° 6° | 12° | 25° | 14°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | • | • |
| Tunable White Discrete | | | | | | | | | | | | • | • |
| RGBW Internal | | | | | | | | | | | | • | • |
| RGBW Discrete | | | | | | | | | | | | • | • |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|-----------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | EGM01 12° |
| MacAdam ellipses | ≤ 3 SDCM | | |
| Luminous flux [lm] | 1,356 | 364 | 196 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|-------------------------------------|---|
| Full Snoot Half Snoot | Honeycomb Louvre Circular Louvre | Ground Spike Connection Box Retrofit pole bracket |

* field installable but not field changeable
** factory installed



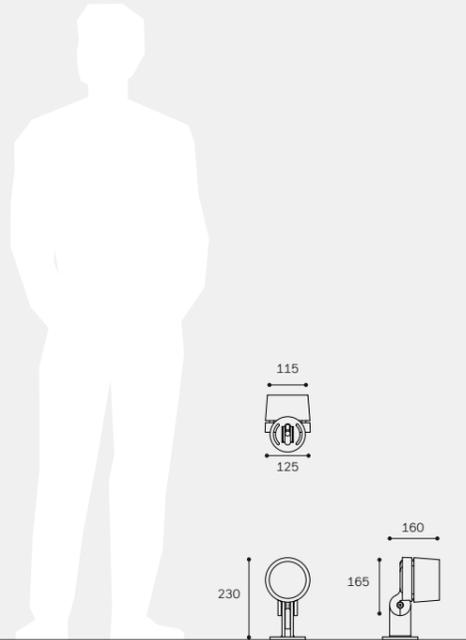
C125 Slice

Projector
Wall luminaire
Pole-mounted system



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

Housing

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

Measurements

| | | | |
|-------|--|-------------------|-----------------------|
| Model | I [Ⓢ] Ⓢ | -I [Ⓢ] Ⓢ | Weight [kg] |
| C125 | 0.018* | 0.025* | 2.3* |
| | Ⓢ projected windage area [m ²] | | * without accessories |
| | Ⓢ lateral windage area [m ²] | | |

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 | |
| Voltage [V], [Hz] | 6 | | 3 | | 12 | | - | | 12 | |
| LED nr. | 1,000 | 1,000* | - | - | - | 12 | - | - | - | 12 |
| Current max. [mA] | 17.5 | 8.8 | - | - | - | 315 | - | - | - | 400 |
| LED power [W] | 17.5 | 8.8 | - | - | - | 5.5 | - | - | - | 14.0 |

* 700 for EG06 - 4°

Driver (external)

| | Monochrome | RGBW | Tunable White |
|------------------------|---|----------|---------------|
| Control Options | ON OFF DALI LYS | 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 | | |

A SERIES Precision lens optics

| | | |
|--------------------------------------|-------------------------------|---|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw |
| | | AV01 Asymmetric Extra Forward Grazing |

E SERIES

| | | |
|-----------------------------|---------------------------------------|---------------------------------------|
| EG06 Symmetric Narrow 6° | EGM01 Symmetric Narrow 12° | EGX01 Symmetric Narrow 15° |
| EG06 Symmetric Narrow 4° | EGM01 Symmetric Medium 25° | EGX01 Symmetric Medium 27° |
| | EGM01 Symmetric Elliptical 14°x62° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

| | | | |
|----------------------|----------------------|----------------------|----------------------|
| 2.200 K CRI ≥ 80* | 2.700 K CRI ≥ 80* | 3.000 K CRI ≥ 80* | 4.000 K CRI ≥ 80* |
|----------------------|----------------------|----------------------|----------------------|

* additional light color on request

Tunable White
CRI ≥ 80

RGBW

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 |
|------------------------|------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° 6° | 12° 25° | 14°x62° | 15° 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | • | • | • | • |
| Tunable White Discrete | | | | | | | | | | | | • | • | • | • |
| RGBW Internal | | | | | | | | | | | | • | • | • | • |
| RGBW Discrete | | | | | | | | | | | | • | • | • | • |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|-----------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | EGX01 15° |
| MacAdam ellipses | ≤ 3 SDCM | | ≤ 3 SDCM |
| Luminous flux [lm] | 2,200 | 1,090 | 700 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|-------------------------------------|---|
| Full Snoot Half Snoot | Honeycomb Louvre Circular Louvre | Ground Spike Connection Box Retrofit pole bracket |

* field installable but not field changeable
** factory installed



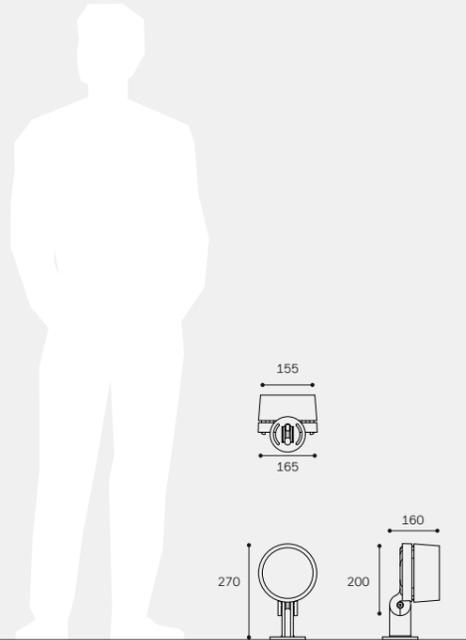
C165 Slice

Projector
Wall luminaire
Pole-mounted system



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

Housing

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

Measurements

| | | | |
|-------|--|-------------------|-----------------------|
| Model | I ⁰ ⊕ | -I ⁰ ⊕ | Weight [kg] |
| C165 | 0.020* | 0.027* | 3.3* |
| | ⊕ projected windage area [m ²] | | * without accessories |
| | ⊙ lateral windage area [m ²] | | |

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 | 1,000* | 900 | - | - | 500 | 900 | - | - | 500 |
| LED power [W] | 31.4 | 21.3 | 14.3 | - | - | 22.3 | 33.6 | - | - | 41.1 |

* 700 for EG06 - 4°

Driver (external) Monochrome

| | Monochrome | RGBW | Tunable White |
|------------------------|---|----------|---------------|
| Control Options | ON OFF DALI LYS | 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 | | |

A SERIES Precision lens optics

| | | |
|--------------------------------------|-------------------------------|---|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw |
| | | AV01 Asymmetric Extra Forward Grazing |

E SERIES

| | | |
|-----------------------------|---------------------------------------|---------------------------------------|
| EG06 Symmetric Narrow 6° | EGM01 Symmetric Narrow 12° | EGX01 Symmetric Narrow 15° |
| EG06 Symmetric Narrow 4° | EGM01 Symmetric Medium 25° | EGX01 Symmetric Medium 27° |
| | EGM01 Symmetric Elliptical 14°x62° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

| | | | |
|----------------------|----------------------|----------------------|----------------------|
| 2,200 K CRI ≥ 80* | 2,700 K CRI ≥ 80* | 3,000 K CRI ≥ 80* | 4,000 K CRI ≥ 80* |
|----------------------|----------------------|----------------------|----------------------|

* additional light color on request

Tunable White CRI ≥ 80 RGBW

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 |
|------------------------|------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° 6° | 12° 25° | 14°x62° | 15° 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | | | | |
| Tunable White Discrete | | | | | | | | | | | | | | | |
| RGBW Internal | | | | | | | | | | | | | | | |
| RGBW Discrete | | | | | | | | | | | | | | | |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|----------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | AV01 |
| MacAdam ellipses | ≤ 3 SDCM | | ≤ 3 SDCM |
| Luminous flux [lm] | 4,080 | 2,550 | 1,500 |
| | | | 2,300 |
| | | | 1,140 |
| | | | 2,650 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|-------------------------------------|---|
| Full Snoot Half Snoot | Honeycomb Louvre Circular Louvre | Ground Spike Connection Box Retrofit pole bracket |

* field installable but not field changeable
** factory installed



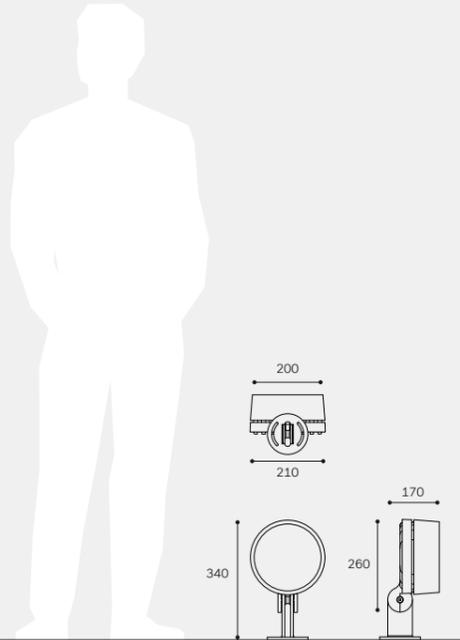
C210 Slice

Projector
Wall luminaire
Pole-mounted system



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

Housing

| | |
|-----------------------|--|
| Housing material | Aluminum die-cast |
| Housing finish | Polyester powder coating (ewoECP upon request**) |
| Finish standard color | RAL 9007* |
| Glass | Safety glass (ESG) |
| Mounting options | Pole, wall, surface * other color 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] |
| C210 | 0.025* | 0.03* | 4.9* |
| | ① projected windage area [m²] | | * without accessories |
| | ② lateral windage area [m²] | | |

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 | - | - | 500 | 900 | - | - | 500 |
| LED power [W] | 63.1 | 46.8 | 35.6 | - | - | 46.7 | 95.7 | - | - | 94.0 |

* 700 for EG06 - 4°

Driver (external)

| | Monochrome | RGBW | Tunable White |
|------------------------|---|----------|---------------|
| Control Options | ON OFF DALI LYS | 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 | | |

A SERIES Precision lens optics

| | | |
|--------------------------------------|-------------------------------|---|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw |
| | | AV01 Asymmetric Extra Forward Grazing |

E SERIES

| | | |
|-----------------------------|---------------------------------------|---------------------------------------|
| EG06 Symmetric Narrow 6° | EGM01 Symmetric Narrow 12° | EGX01 Symmetric Narrow 15° |
| EG06 Symmetric Narrow 4° | EGM01 Symmetric Medium 25° | EGX01 Symmetric Narrow 27° |
| | EGM01 Symmetric Elliptical 14°x62° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

| | | | |
|----------------------|----------------------|----------------------|----------------------|
| 2,200 K CRI ≥ 80* | 2,700 K CRI ≥ 80* | 3,000 K CRI ≥ 80* | 4,000 K CRI ≥ 80* |
|----------------------|----------------------|----------------------|----------------------|

* additional light color on request

Tunable White CRI ≥ 80 RGBW

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 |
|------------------------|------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° 6° | 12° 25° | 14°x62° | 15° 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | | | | |
| Tunable White Discrete | | | | | | | | | | | | | | | |
| RGBW Internal | | | | | | | | | | | | | | | |
| RGBW Discrete | | | | | | | | | | | | | | | |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|----------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | AV01 |
| MacAdam ellipses | ≤ 3 SDCM | | ≤ 3 SDCM |
| Luminous flux [lm] | 8,160 | 5,830 | 3,500 |
| | | | 5,300 |
| | | | 3,410 |
| | | | 6,050 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|-------------------------------------|---|
| Full Snoot Half Snoot | Honeycomb Louvre Circular Louvre | Ground Spike Connection Box Retrofit pole bracket |

* field installable but not field changeable
** factory installed



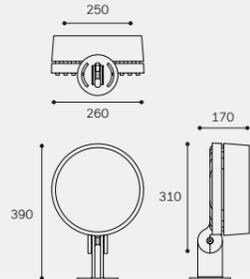
C260 Slice

Projector
Wall luminaire
Pole-mounted system



DB 703
Anthracite

ewo
color



Configurator

CE IP66 RoHS IK08

Housing

| | |
|-----------------------|--|
| Housing material | Aluminum die-cast |
| Housing finish | Polyester powder coating (ewoECP upon request**) |
| Finish standard color | RAL 9007* |
| Glass | Safety glass (ESG) |
| Mounting options | Pole, wall, surface * other color 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] |
|-------|-------------------------------|-----------------|-----------------------|
| C260 | 0.030* | 0.044* | 6.7* |
| | ⊙ 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 | | | |
|-------------------|---------------------|----------|---------------|----------|----------|----------|----------|----------|----------|----------|
| | | | 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* | 1,050 | - | - | 500 | 900 | - | - | 500 |
| LED power [W] | 105.0 | 70.5 | 87.0 | - | - | 70.8 | 97.7 | - | - | 140.9 |
| | * 700 per EG06 - 4° | | | | | | | | | |

Driver (external)

| | Monochrome | RGBW | Tunable White |
|------------------------|---|----------|---------------|
| Control Options | ON OFF DALI LYS | 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 | | |

A SERIES Precision lens optics

| | | |
|--------------------------------------|-------------------------------|---|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw |
| | | AV01 Asymmetric Extra Forward Grazing |

E SERIES

| | | |
|-----------------------------|---------------------------------------|---------------------------------------|
| EG06 Symmetric Narrow 6° | EGM01 Symmetric Narrow 12° | EGX01 Symmetric Narrow 15° |
| EG06 Symmetric Narrow 4° | EGM01 Symmetric Medium 25° | EGX01 Symmetric Narrow 27° |
| | EGM01 Symmetric Elliptical 14°x62° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

| | | | |
|----------------------|----------------------|----------------------|----------------------|
| 2,200 K CRI ≥ 80* | 2,700 K CRI ≥ 80* | 3,000 K CRI ≥ 80* | 4,000 K CRI ≥ 80* |
|----------------------|----------------------|----------------------|----------------------|

* additional light color on request

Tunable White CRI ≥ 80 RGBW

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 |
|------------------------|------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° 6° | 12° 25° | 14°x62° | 15° 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | | | | |
| Tunable White Discrete | | | | | | | | | | | | | | | |
| RGBW Internal | | | | | | | | | | | | | | | |
| RGBW Discrete | | | | | | | | | | | | | | | |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|----------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | AV01 |
| MacAdam ellipses | ≤ 3 SDCM | | ≤ 3 SDCM |
| Luminous flux [lm] | 13,270 | 8,750 | 5,300 |
| | | | 8,000 |
| | | | 3,410 |
| | | | 9,080 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|-------------------------------------|---|
| Full Snoot Half Snoot | Honeycomb Louvre Circular Louvre | Ground Spike Connection Box Retrofit pole bracket |

* field installable but not field changeable
** factory installed

Chameleon

C365 Slice

Projector
Wall luminaire
Pole-mounted system



DB 703
Anthracite

ewo
color



Configurator

CE IP66 RoHS IK08

Housing

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

Measurements

| | | |
|-------|-------------------------------|-------------|
| Model | ⊕ [Ⓢ] ⊖ [Ⓢ] | Weight [kg] |
| C365 | 0.045* 0.055* | 11.2* |
| | Ⓢ Projected windage area [m²] | |
| | Ⓢ Lateral windage area [m²] | |
| | * without accessories | |

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 | 1,000 | 1,000 | - | - | - | 500 | - | - | - |
| LED power [W] | 369.2 | 176.6 | 184.5 | - | - | - | 180.0 | - | - | - |

Driver (external) Monochrome

| | Monochrome | RGBW | Tunable White |
|------------------------|---|----------|---------------|
| Control Options | ON OFF DALI LYS | 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 | | |

A SERIES

Precision lens optics

Monochrome

2,200 K CRI ≥ 80* 2,700 K CRI ≥ 80* 3,000 K CRI ≥ 80* 4,000 K CRI ≥ 80* * additional light color on request

Tunable White CRI ≥ 80 RGBW

Performance

| | | | | | | | | | |
|------------------------|------|------|------|---------|------|------|------|------|------|
| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS08 | EG06 |
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | 6° |
| Monochrome | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | |
| Tunable White Discrete | • | • | • | • | • | | | | |
| RGBW Internal | | | | | | | | | |
| RGBW Discrete | • | • | • | • | • | | | | |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------------------|---------------|--------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | AG01 |
| MacAdam ellipses | ≤ 3 SDCM | | |
| Luminous flux [lm] | 43,100 | 21,870 | 22,800 |
| | | | 11,100 |
| | * other CRI on request | | |

Accessories

External ewoLightLayers* Mounting accessories

Full Snoot Half Snoot Ground Spike Connection Box Retrofit pole bracket



BODY OF LIGHT



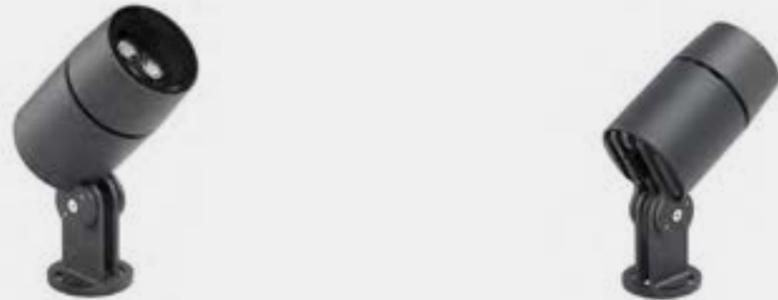
SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



C125
Integral



C165
Integral



C210
Integral



C260
Integral



A
SERIES

| | | | |
|---|---|--|--|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° | EG06 Symmetric Ultra Narrow 4° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw | EG06 Symmetric Extra Narrow 6° |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw | |
| AS09 Asymmetric Extra Side Throw | AV01 Asymmetric Extra Forward Grazing | | |

E
SERIES

| | | |
|--|--|--|
| EGM01 Symmetric Narrow 12° | EGM01 Symmetric Medium 25° | EGM01 Symmetric Elliptical 14°x62° |
| EGX01 Symmetric Narrow 15° | EGX01 Symmetric Medium 27° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

Control protocols

| | |
|-------------|--|
| ON/OFF | |
| DALI 2 | |
| ewo connexx | |
| Line Switch | |

Programming options

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

Tunable White Internal/Discrete

Control protocols

| | |
|-------------|--|
| DALI 2 T8 | |
| ewo connexx | |

RGBW Internal/Discrete

Control protocols

| | |
|-------------|--|
| DALI 2 | |
| ewo connexx | |
| DMX-RDM | |



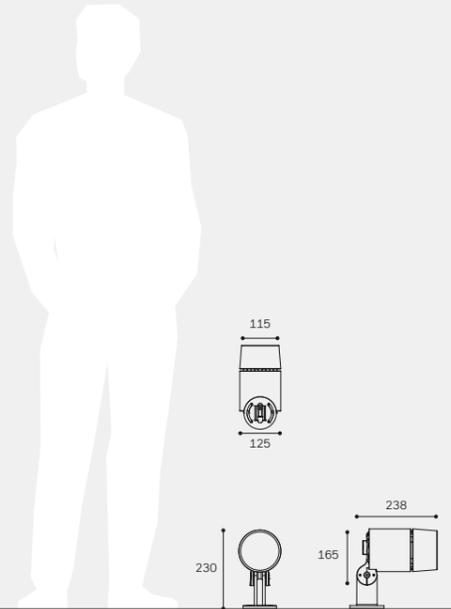
C125 Integral

Projector
Wall luminaire
Pole mounted system



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

Housing

| | |
|-----------------------|---|
| Housing material | Aluminum die-cast |
| Housing finish | Polyester powder coating (ewoECP upon request**) |
| Finish standard color | 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 [Ⓢ] Ⓢ | I [Ⓢ] Ⓢ | Weight [kg] |
| C125 | 0.018* | 0.025* | 2.8* |
| | Ⓢ Projected windage area [m ²] | | |
| | Ⓢ Lateral windage area [m ²] | | |
| | * without accessories | | |

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* | - | - | - | 210 | - | - | - | 250 |
| Power max. [W] | 21.1 | 11.3 | - | - | - | 4.4 | - | - | - | 11.7 |

* 700 for EG06 - 4°

Driver (external) Monochrome

| | Monochrome | RGBW | Tunable White |
|------------------------|---|--------------|---------------|
| Control Options | ON OFF DALI X X LYS | 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 | | |

A SERIES Precision lens optics

| | | |
|--------------------------------------|-------------------------------|---|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw |
| | | AV01 Asymmetric Extra Forward Grazing |

E SERIES

| | | |
|-----------------------------|---------------------------------------|---------------------------------------|
| EG06 Symmetric Narrow 6° | EGM01 Symmetric Narrow 12° | EGX01 Symmetric Narrow 15° |
| EG06 Symmetric Narrow 4° | EGM01 Symmetric Medium 25° | EGX01 Symmetric Narrow 27° |
| | EGM01 Symmetric Elliptical 14°x62° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

| | | | | |
|----------------------|----------------------|----------------------|----------------------|-------------------------------------|
| 2,200 K CRI ≥ 80* | 2,700 K CRI ≥ 80* | 3,000 K CRI ≥ 80* | 4,000 K CRI ≥ 80* | * additional light color on request |
|----------------------|----------------------|----------------------|----------------------|-------------------------------------|

Tunable White CRI ≥ 80 RGBW

Performance

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|---------|------|------|------|------|------|------|------|-------|-------|-------|---------|-----|-----|---------|
| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 | | | |
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° | 6° | 12° | 25° | 14°x62° | 15° | 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | | | | | | | |
| Tunable White Discrete | | | | | | | | | | | | | | | | | | |
| RGBW Internal | | | | | | | | | | | | | | | | | | |
| RGBW Discrete | | | | | | | | | | | | | | | | | | |

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

* other CRI on request

Accessories

| | | |
|--------------------------|---------------------------|----------------------|
| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
| | | |
| | | |
| | | |



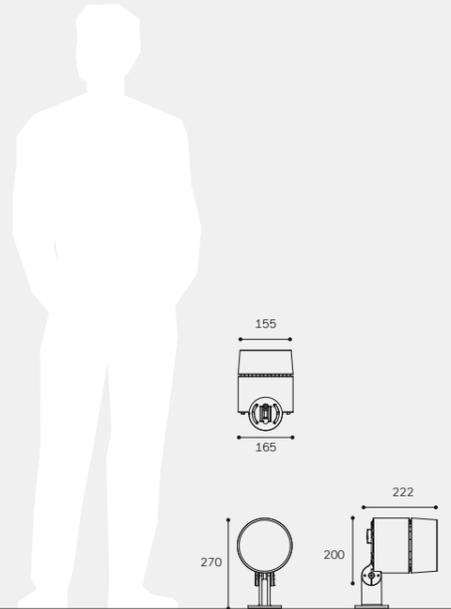
C165 Integral

Projector
Wall luminaire
Pole mounted system



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

Housing

| | |
|-----------------------|---|
| Housing material | Aluminum die-cast |
| Housing finish | Polyester powder coating (ewoECP upon request**) |
| Finish standard color | 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 | ⊕ ¹ | ⊖ ² | Weight [kg] |
|-------|--|----------------|-------------|
| C165 | 0.020* | 0.027* | 3.9* |
| | ⊕ Projected windage area [m ²] | | |
| | ⊖ Lateral windage area [m ²] | | |
| | * without accessories | | |

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 | - | - | 240 | 250 | - | - | 250 |
| Power max. [W] | 31.1 | 22.9 | 11.7 | - | - | 11.7 | 11.2 | - | - | 23.1 |

* 700 for EG06 - 4°

Driver (external)

| | Monochrome | RGBW | Tunable White |
|------------------------|---|----------|---------------|
| Control Options | ON OFF DALI LYS | 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 | | |

A SERIES Precision

AG01 Symmetric Narrow 12°

AG02 Symmetric Medium 27°

AG03 Symmetric Flood 48°

AG04 Symmetric Elliptical 10°x40°

AH02 Symmetric Wide Flood

AP06 Asymmetric Forward and Extra Side Throw

AP07 Asymmetric Extra Forward

AS07 Asymmetric Side Throw

AS08 Asymmetric Side and Forward Throw

AV01 Asymmetric Extra Forward Grazing

E SERIES

EG06 Symmetric Narrow 6°

EGM01 Symmetric Narrow 12°

EGX01 Symmetric Narrow 15°

EG06 Symmetric Narrow 4°

EGM01 Symmetric Medium 25°

EGX01 Symmetric Medium 27°

EGM01 Symmetric Elliptical 14°x62°

EGX01 Symmetric Elliptical 17°x62°

Monochrome

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

* additional light color on request

Tunable White CRI ≥ 80 RGBW

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 |
|------------------------|------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° 6° | 12° 25° | 14°x62° | 15° 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | | | | |
| Tunable White Discrete | | | | | | | | | | | | | | | |
| RGBW Internal | | | | | | | | | | | | | | | |
| RGBW Discrete | | | | | | | | | | | | | | | |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|----------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | AS08 |
| MacAdam ellipses | ≤ 3 SDCM | | ≤ 3 SDCM |
| Luminous flux [lm] | 3,730 | 2,650 | 1,100 |
| | | | 1,300 |
| | | | 460 |
| | | | 1,580 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|-------------------------------------|---|
| Full Snoot Half Snoot | Honeycomb Louvre Circular Louvre | Ground Spike Connection Box Retrofit pole bracket |

* field installable but not field changeable
** factory installed



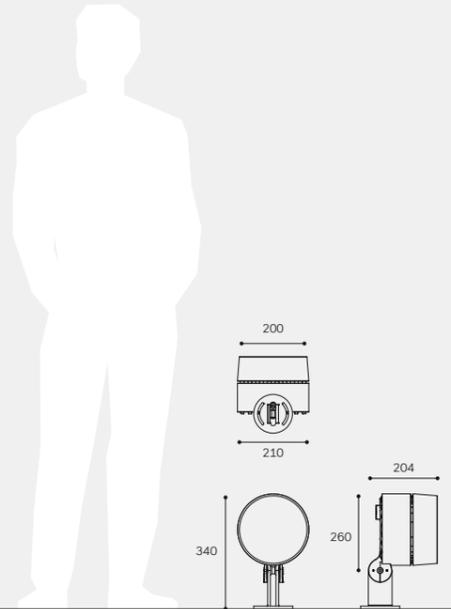
C210 Integral

Projector
Wall luminaire
Pole mounted system



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

Housing

| | |
|-----------------------|---|
| Housing material | Aluminum die-cast |
| Housing finish | Polyester powder coating (ewoECP upon request**) |
| Finish standard color | 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 | ⊕ ¹ | ⊖ ² | Weight [kg] |
|-------|--|----------------|-------------|
| C210 | 0.025* | 0.03* | 5.9* |
| | ⊕ Projected windage area [m ²] | | |
| | ⊖ Lateral windage area [m ²] | | |
| | * without accessories | | |

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 | - | - | 500 | 850 | - | - | 500 |
| Power max. [W] | 56.9 | 51.7 | 43.4 | - | - | 57.0 | 73.4 | - | - | 109.0 |

* 700 for EG06 - 4°

Driver (external)

| | Monochrome | RGBW | Tunable White |
|------------------------|---|--------------|---------------|
| Control Options | ON OFF DALI X X LYS | 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 | | |

A SERIES Precision lens optics

| | | |
|--------------------------------------|-------------------------------|---|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw |
| | | AV01 Asymmetric Extra Forward Grazing |

E SERIES

| | | |
|-----------------------------|---------------------------------------|---------------------------------------|
| EG06 Symmetric Narrow 6° | EGM01 Symmetric Narrow 12° | EGX01 Symmetric Narrow 15° |
| EG06 Symmetric Narrow 4° | EGM01 Symmetric Medium 25° | EGX01 Symmetric Narrow 27° |
| | EGM01 Symmetric Elliptical 14°x62° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

| | | | |
|----------------------|----------------------|----------------------|----------------------|
| 2,200 K CRI ≥ 80* | 2,700 K CRI ≥ 80* | 3,000 K CRI ≥ 80* | 4,000 K CRI ≥ 80* |
|----------------------|----------------------|----------------------|----------------------|

* additional light color on request

Tunable White CRI ≥ 80 RGBW

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 |
|------------------------|------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° 6° | 12° 25° | 14°x62° | 15° 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | | | | |
| Tunable White Discrete | | | | | | • | • | | • | • | | | | | |
| RGBW Internal | | | | | | | | | | | | | | | |
| RGBW Discrete | | | | | | • | • | | • | • | | | | | |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|----------|
| Light color (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | ≥ 80 | ≥ 80 |
| Distribution | AG01 | EG06 6° | AV01 |
| MacAdam ellipses | ≤ 3 SDCM | | ≤ 3 SDCM |
| Luminous flux [lm] | 7,100 | 5,830 | 3,500 |
| | | | 5,300 |
| | | | 2,200 |
| | | | 6,050 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|-------------------------------------|---|
| Full Snoot Half Snoot | Honeycomb Louvre Circular Louvre | Ground Spike Connection Box Retrofit pole bracket |



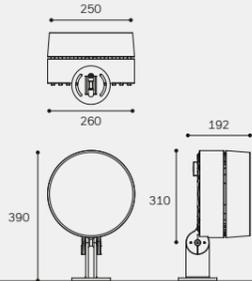
C260 Integral

Projector
Wall luminaire
Pole mounted system



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

Housing

| | |
|-----------------------|---|
| Housing material | Aluminum die-cast |
| Housing finish | Polyester powder coating (ewoECP upon request**) |
| Finish standard color | 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 ⁰ @ -I ⁰ @ | Weight [kg] |
| C260 | 0.030* 0.044* | 7,6* |
| | ① Projected windage area [m ²] ② Lateral windage area [m ²] * without accessories | |

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 | - | - | 500 | 250 | - | - | 250 |
| Power max. [W] | 80.5 | 69.8 | 43.2 | - | - | 86.4 | 30.8 | - | - | 83.2 |

* 700 for EG06 - 4°

Driver (external)

| | Monochrome | RGBW | Tunable White |
|------------------------|---|--------------|---------------|
| Control Options | ON OFF DALI X X LYS | 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 | | |

A SERIES Precision lens optics

| | | |
|--------------------------------------|-------------------------------|---|
| AG01 Symmetric Narrow 12° | AG02 Symmetric Medium 27° | AG03 Symmetric Flood 48° |
| AG04 Symmetric Elliptical 10°x40° | AH02 Symmetric Wide Flood | AP06 Asymmetric Forward and Extra Side Throw |
| AP07 Asymmetric Extra Forward | AS07 Asymmetric Side Throw | AS08 Asymmetric Side and Forward Throw |
| | | AV01 Asymmetric Extra Forward Grazing |

E SERIES

| | | |
|-----------------------------|---------------------------------------|---------------------------------------|
| EG06 Symmetric Narrow 6° | EGM01 Symmetric Narrow 12° | EGX01 Symmetric Narrow 15° |
| EG06 Symmetric Narrow 4° | EGM01 Symmetric Medium 25° | EGX01 Symmetric Narrow 27° |
| | EGM01 Symmetric Elliptical 14°x62° | EGX01 Symmetric Elliptical 17°x62° |

Monochrome

| | | | |
|----------------------|----------------------|----------------------|----------------------|
| 2,200 K CRI ≥ 80* | 2,700 K CRI ≥ 80* | 3,000 K CRI ≥ 80* | 4,000 K CRI ≥ 80* |
|----------------------|----------------------|----------------------|----------------------|

* additional light color on request

Tunable White CRI ≥ 80 RGBW

Performance

| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP06 | AP07 | AS07 | AS08 | AV01 | EG06 | EGM01 | EGM01 | EGX01 | EGX01 |
|------------------------|------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | 4° 6° | 12° 25° | 14°x62° | 15° 27° | 17°x62° |
| Monochrome | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Tunable White Internal | | | | | | | | | | | | | | | |
| Tunable White Discrete | | | | | | | | | | | | | | | |
| RGBW Internal | | | | | | | | | | | | | | | |
| RGBW Discrete | | | | | | | | | | | | | | | |

| | Monochrome | Tunable White | RGBW |
|--------------------|------------|---------------|-------------------------|
| Light color* (K) | 4,000 | 5,000 | 4,000 |
| CRI* | ≥ 80 | | ≥ 80 |
| Distribution | AG01 | EG06 6° | AV01 EGX01 15° |
| MacAdam ellipses | ≤ 3 SDCM | | ≤ 3 SDCM |
| Luminous flux [lm] | 10,100 | 8,060 | 3,900 8,000 1,390 5,420 |

* other CRI on request

Accessories

| External ewoLightLayers* | Internal ewoLightLayers** | Mounting accessories |
|--------------------------|---------------------------|----------------------|
| | | |
| | | |
| | | |

Special options

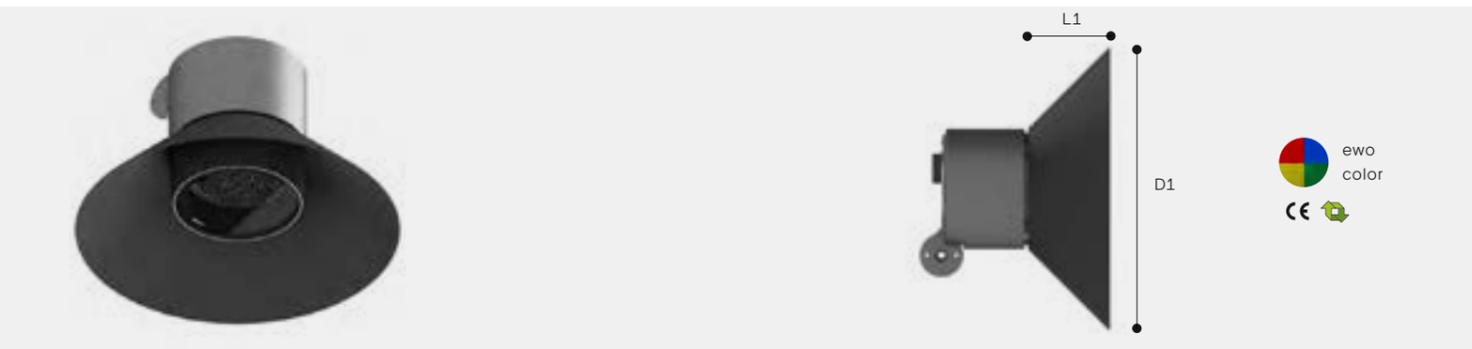
Shadow Sail



Shadow Sail

| Model Slice/Integral | Article | L1 [mm] | D1 [mm] | Note |
|----------------------|---------|---------|---------|--|
| C125 | 1062093 | 56 | 331 | Parts are Polyester powder coating as the luminaire. The accessories can be mounted subsequently by the customer |
| C165 | 1062094 | 50 | 375 | |
| C210 | 1062095 | 45 | 420 | |
| C260 | 1062096 | 40 | 465 | |

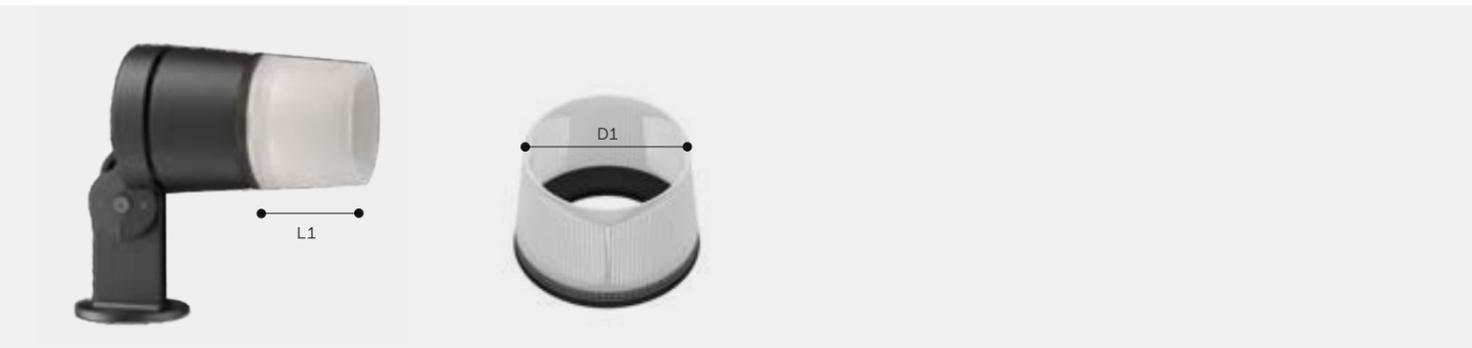
Heritage Sail



Heritage Sail

| Model Slice/Integral | Article | L1 [mm] | D1 [mm] | Note |
|----------------------|---------|---------|---------|--|
| C125 | 1062089 | 56 | 331 | Parts are Polyester powder coating as the luminaire. The accessories cannot be mounted after installation. |
| C165 | 1062090 | 50 | 375 | |
| C210 | 1062091 | 45 | 420 | |
| C260 | 1062092 | 42 | 470 | |

Snoot transparent



Snoot transparent

| Model Slice/Integral | Article | L1 [mm] | D1 [mm] | Note |
|----------------------|---------|---------|---------|--|
| C125 | 1062266 | | | Polycarbonate snoots. The accessories can be assembled on site but cannot be dismantled. |
| C165 | 1062246 | 108 | 135 | |
| C210 | 1062267 | | | |

Support for scenic filters



Support for scenic filters

| Model Slice/Integral | Article | L1 [mm] | D1 [mm] | Note |
|----------------------|---------|---------|---------|---|
| C90 | 1062xxx | - | - | Support for scenic filters, can be installed on site by the user. Filter unit mounting via clip on projector. |
| C125 | 1062xxx | 114 | 16 | |
| C165 | 1062244 | 154 | 16 | |
| C210 | 1062xxx | 199 | 16 | |
| C260 | 1062xxx | 248 | 16 | |

Special options

V-Notch



V-Notch

| Model Slice/Integral | Article | L1 [mm] | D1 [mm] | Note |
|----------------------|---------|---------|---------|---|
| C90 /C125 / C165 | 1062098 | 258 | 133 | The accessory cost is related to the pole modification only and must be added to the standard price of the chosen pole. |
| C210 / C265 | 1062099 | 258 | 133 | |

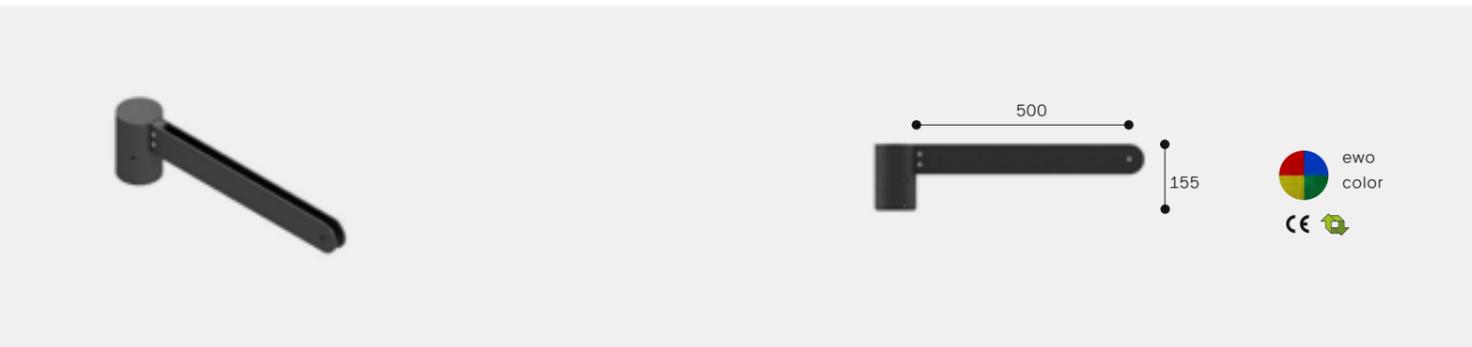
Catenary



Catenary

| Model Slice | Article | L1 [mm] | D1 [mm] | Note |
|-------------|---------|---------|---------|--|
| C125 / C165 | 1021721 | 172 | 60 | Fixation for Slice models: for integral ones on request. Element powder-coated, same colour as the projector. Compatible rope diameters: Ø6 mm - Ø14 mm, 360° rotatable. |
| C210 / C260 | 1021722 | 172 | 70 | |

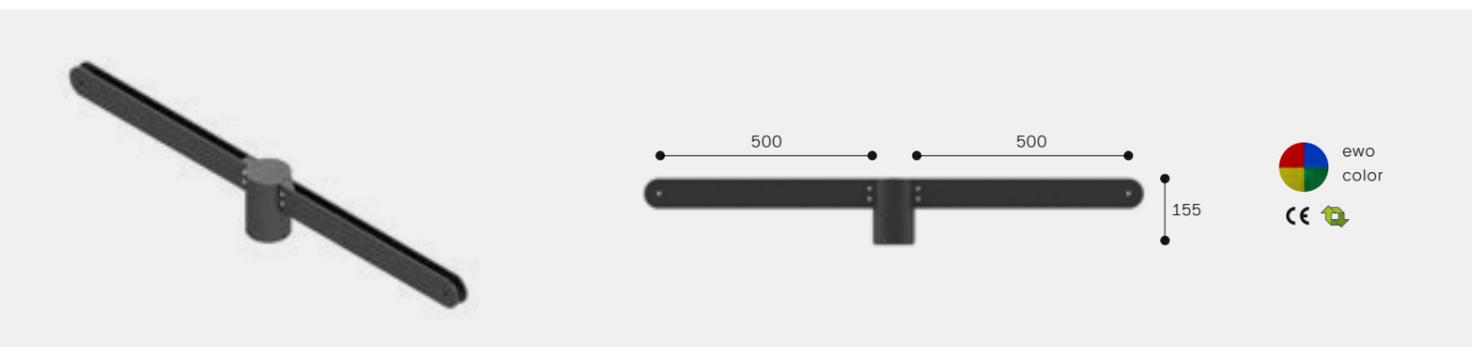
Single pole adapter



Single pole adapter

| Model Slice/Integral | Article | Ø pole | Ø | Note |
|----------------------|---------|--------|----|---|
| C125 - C165 | 1062247 | 76 | 60 | Pole bracket for Chameleon installation, 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 | |

Duple pole adapter



Duple pole adapter

| Model Slice/Integral | Article | Ø pole | Ø | Note |
|----------------------|---------|--------|----|---|
| C125 - C165 | 1062248 | 76 | 60 | Pole bracket for Chameleon installation, 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 | |



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.





ASCOT PARK
Brisbane, Australia, 2020

F-System

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

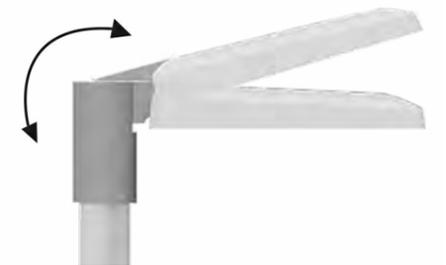




Designer Jörg Boner



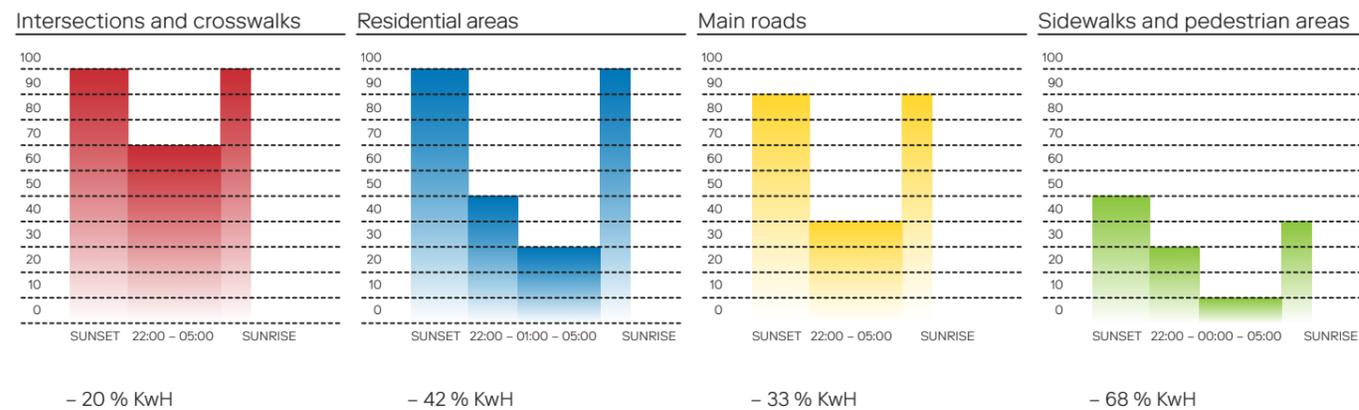
The pole mounted variants are compatible with many pole diameters and can also be adjusted in 5° increments from 0–90°, for pole-tops with a diameter of $\varnothing 76$ mm or $\varnothing 60$ mm.



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.



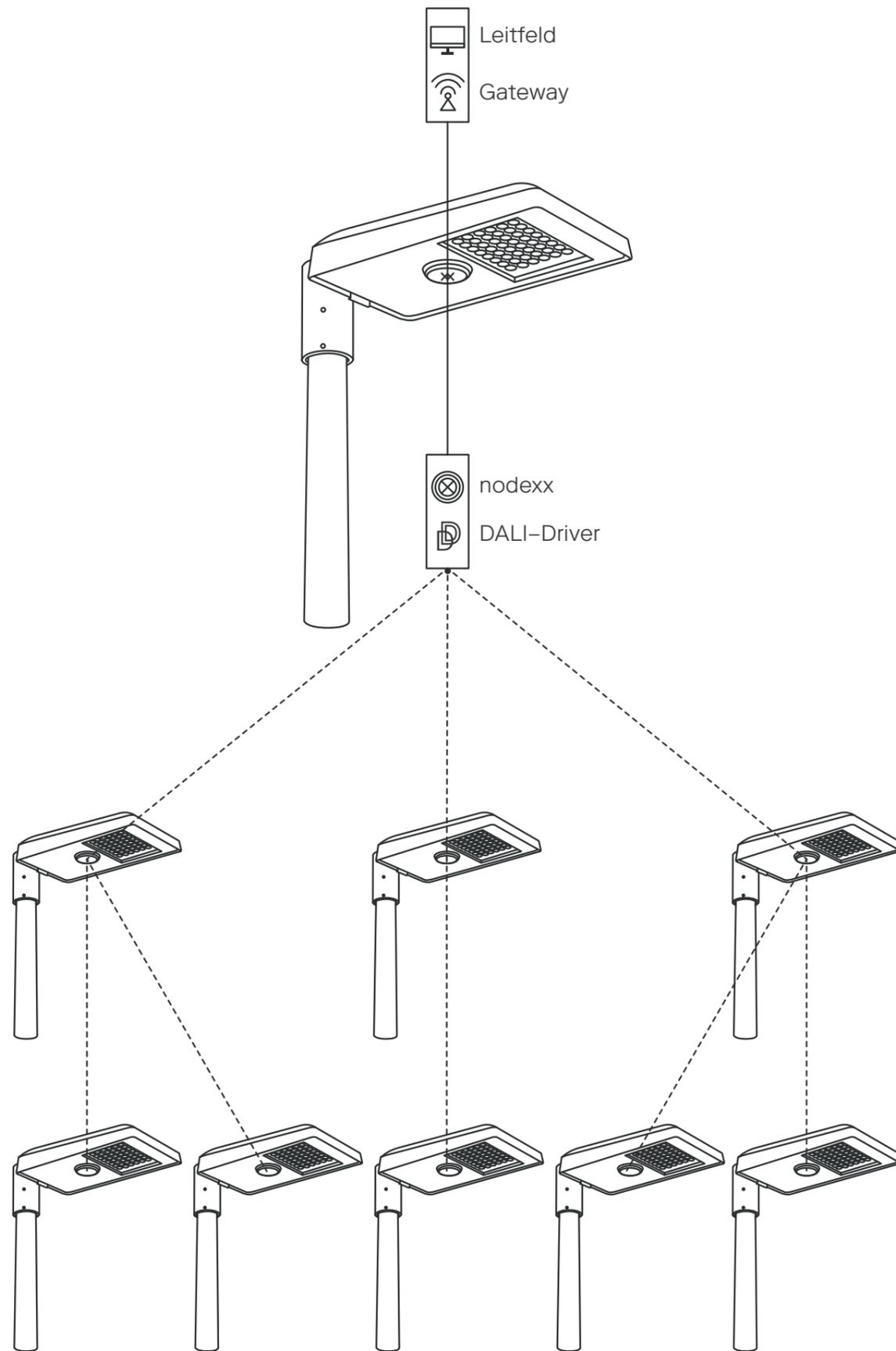
City light zoning

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.

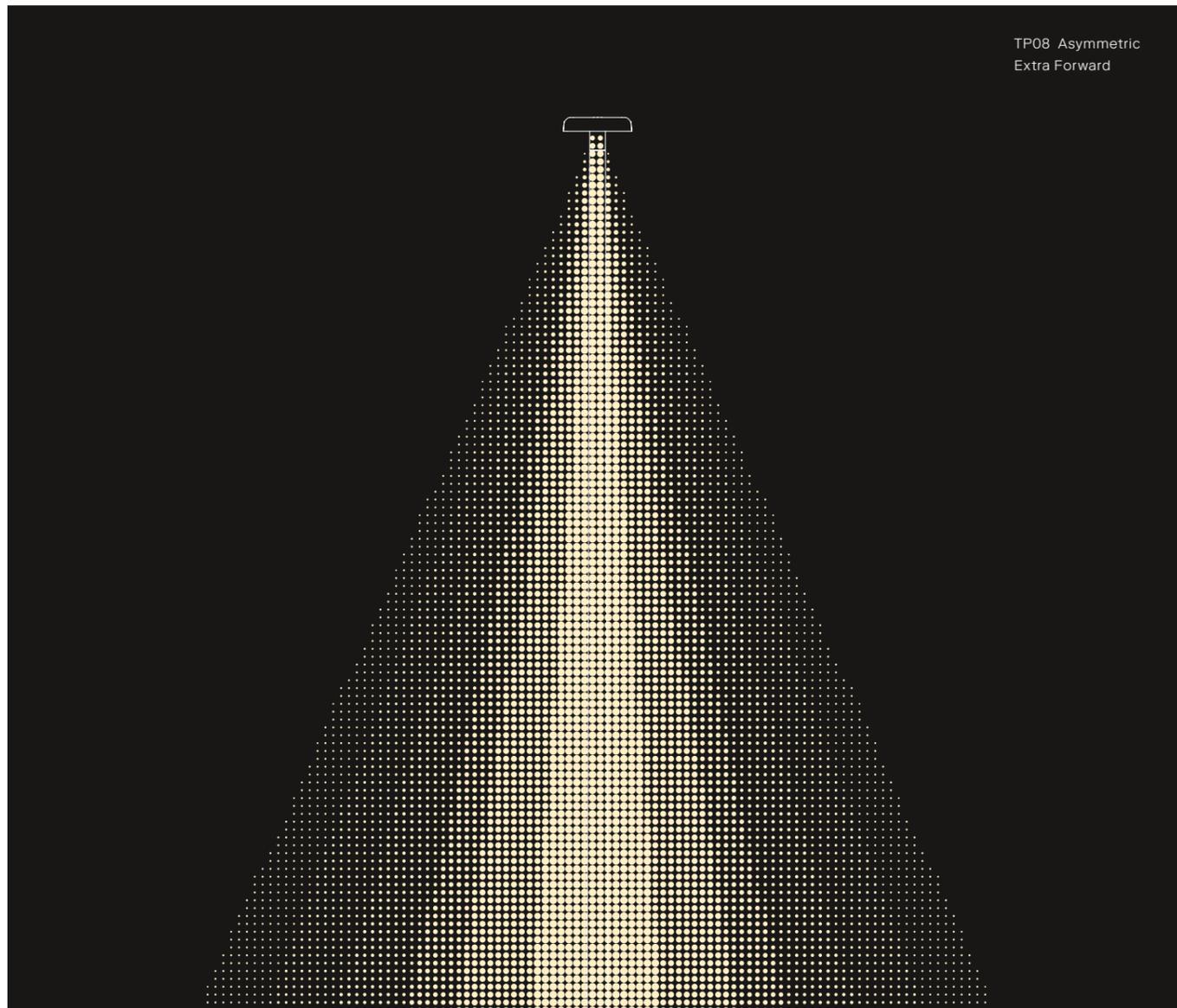




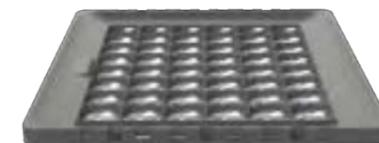
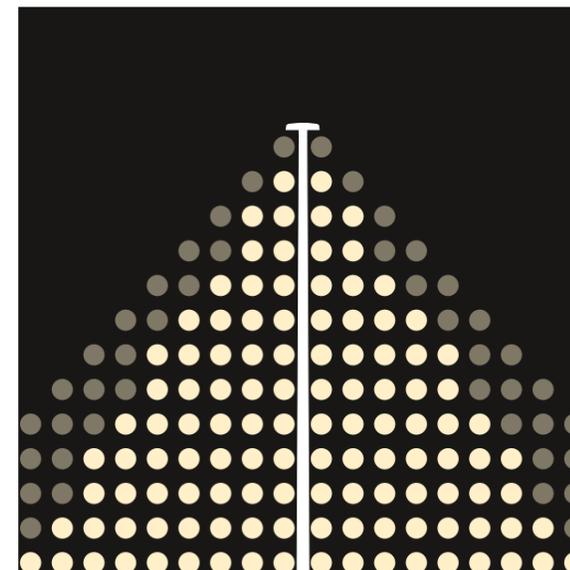
The F-System is compatible with ewo's A-Series precision lens optics or ewoLightTile, low glare light guiding panels. Fitted with A-Series optics, the T-Series becomes an ideal luminaire for streetlighting and pathway applications. The homogenous yet precise ewoLightTile optics on the other hand, brings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

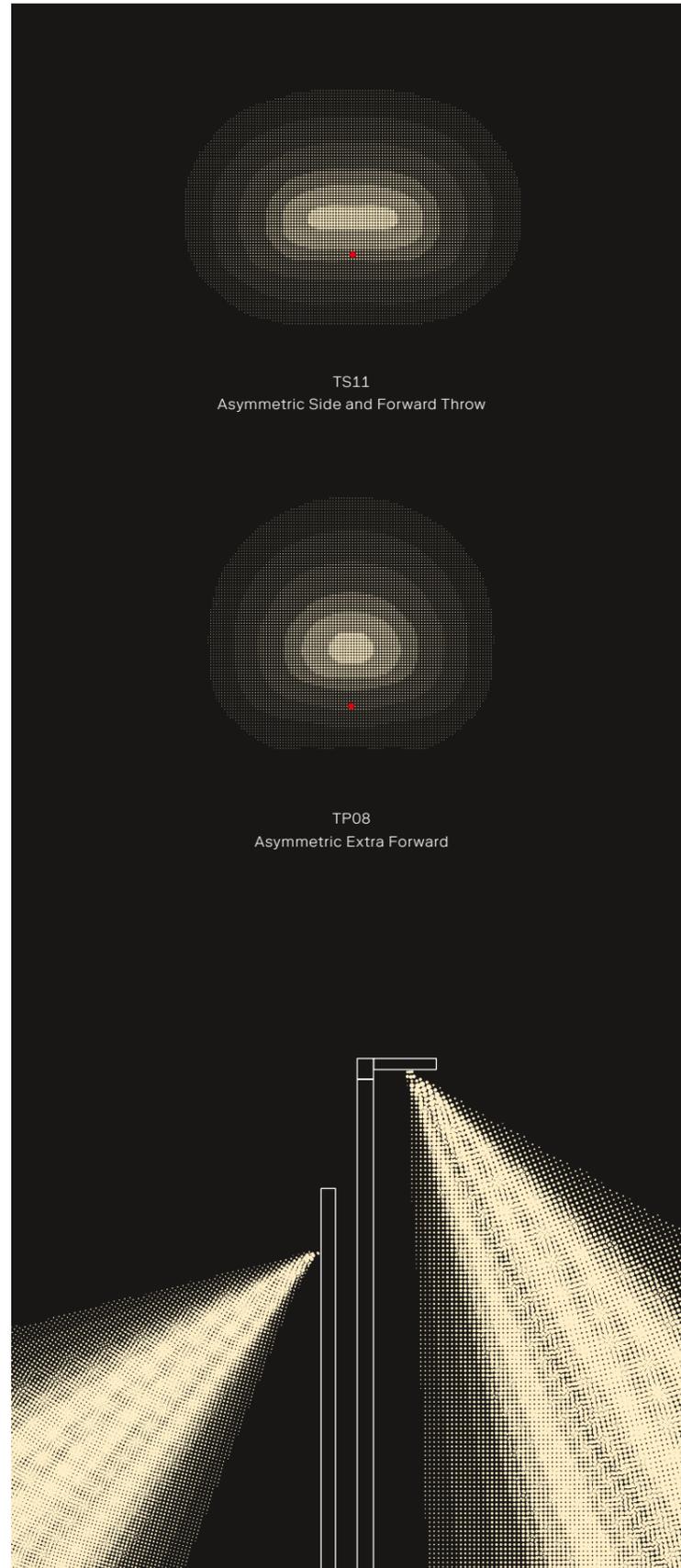
ewoLightTile

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



horizontal array

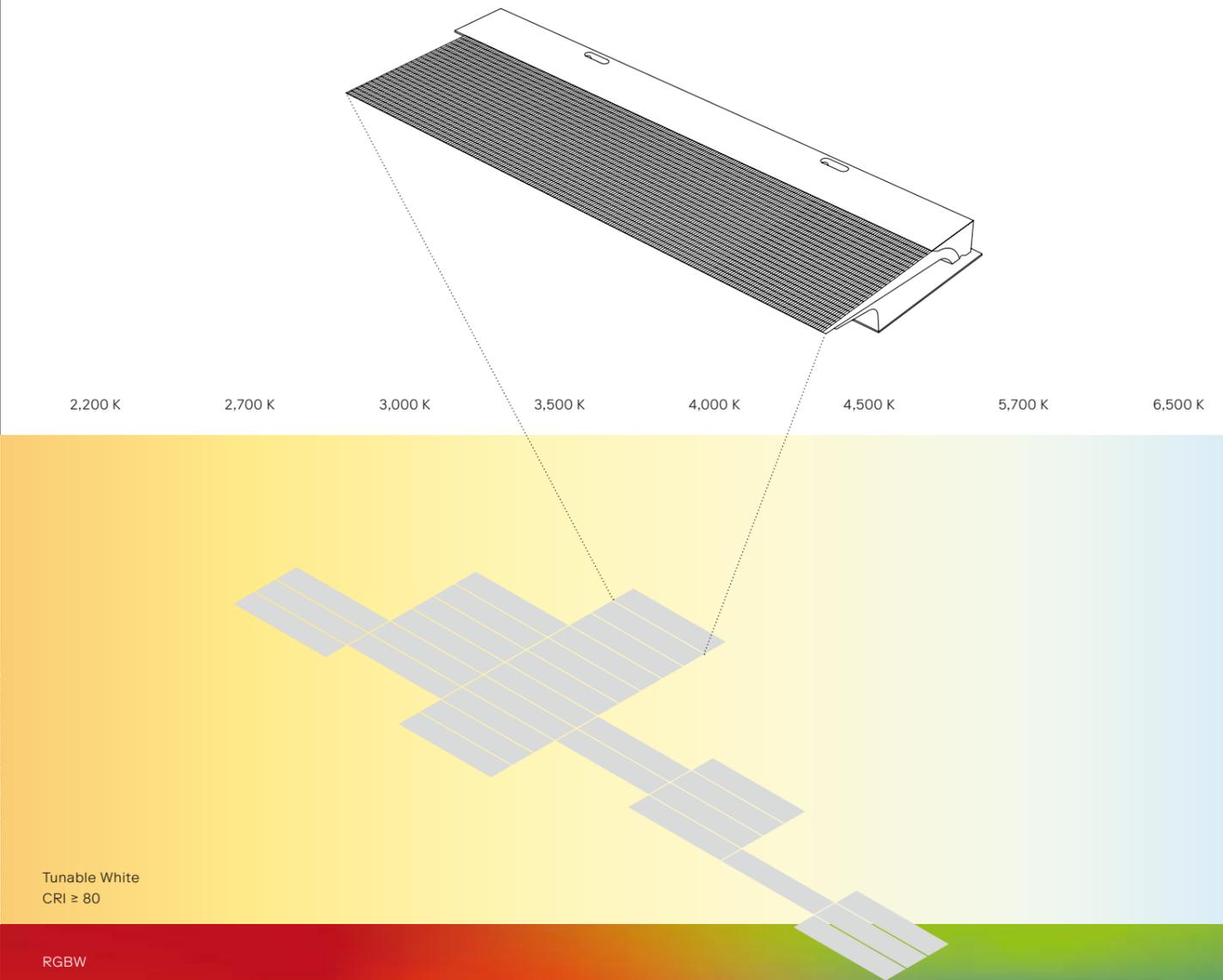
vertical array
luminous range: 3xLPH

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.

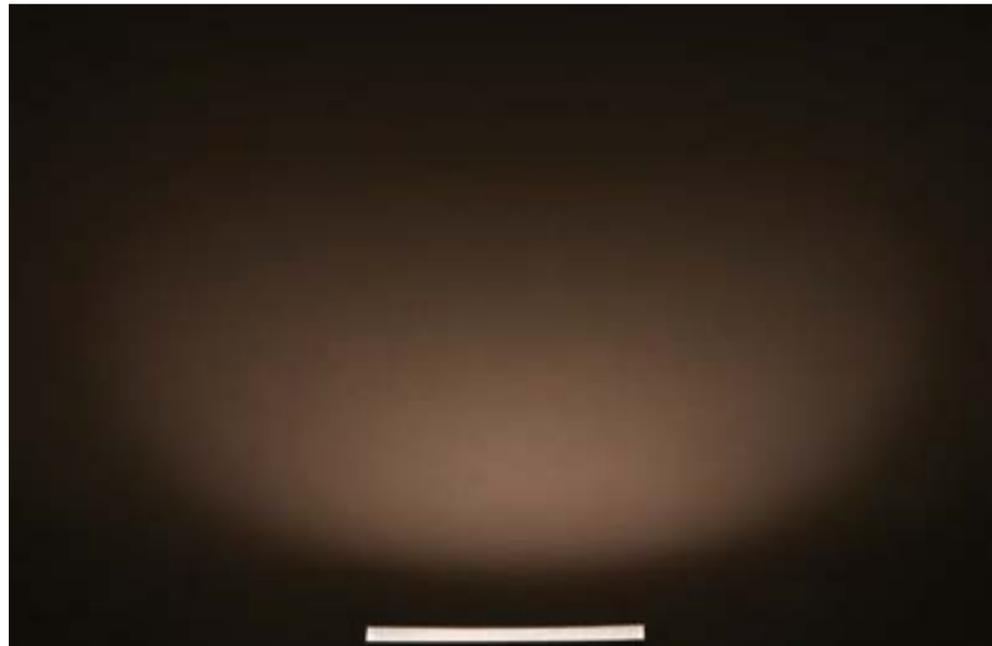


Tunable White
CRI ≥ 80

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.

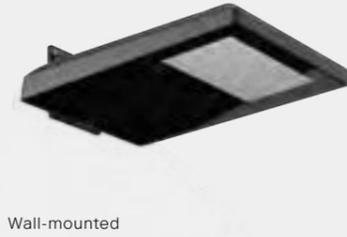


ewoLightTile

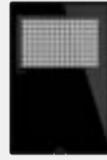


F-System

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



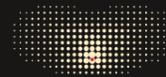
AH02*
Symmetric Wide Flood



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



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

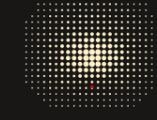
CRI ≥ 80
on request

T
SERIES

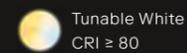
ewoLighTile: low glare light-guiding panels



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 |
|-----------|------------|

Programming options

| | |
|---------------|--|
| Night dimming | |
|---------------|--|

F-System M

F6, F8, F10

Roads and traffic
Airports and logistics



DB 703
Anthracite

ewo
color



Configurator

CE IP66 RoHS IK08

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 | ↑ [⊙] | → [⊙] | 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

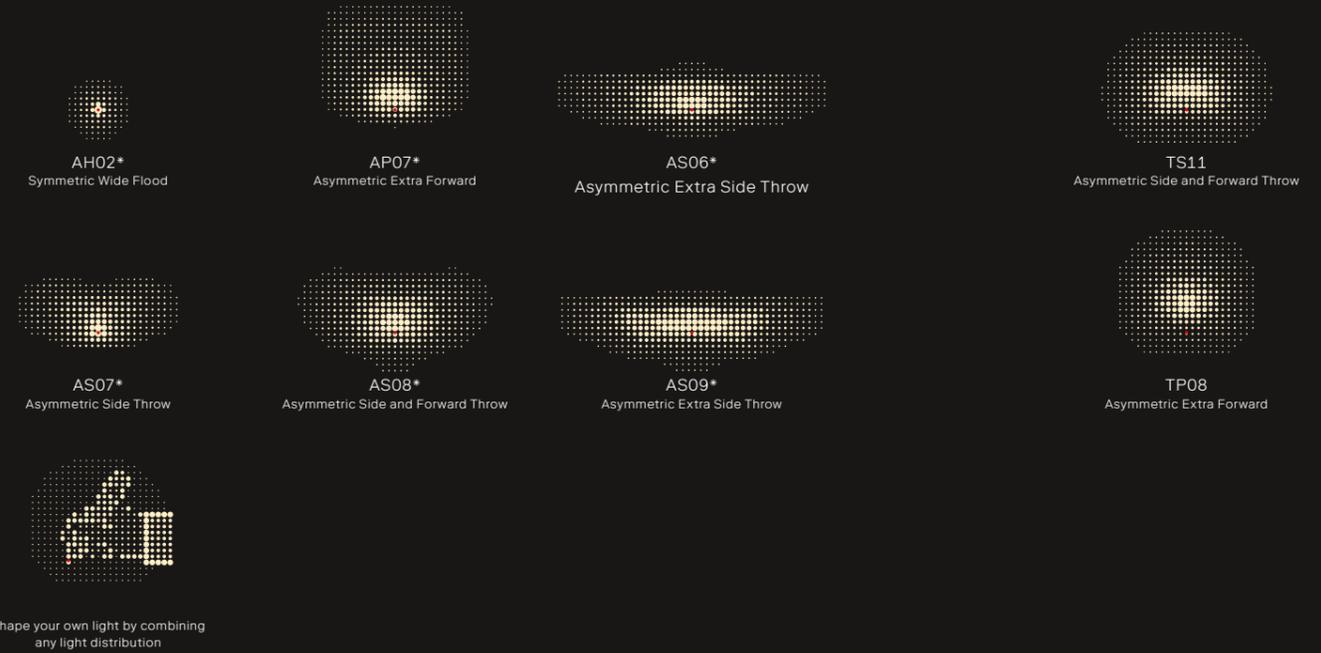
| | A-Series | T-Series |
|------------------------|---|----------|
| Control options | ON/OFF, DALI, 1-10V, Z, Lys | T8, DALI |
| Programming [optional] | Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone | |
| Control accessories | Further accessories on request | |
| Software | 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



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

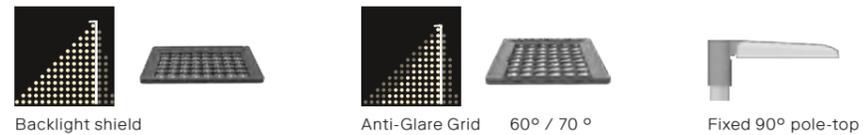
| Optics | AH02 | AP07 | AS06 | AS07 | AS08 | AS09 | TS11 | TP08 |
|-------------------------|------|------|----------|------|------|------|----------|------|
| MacAdam ellipses (SDCM) | | | ≤ 5 SDCM | | | | ≤ 5 SDCM | |

| 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

ewoLightLayers (optical accessories)

Pole bracket variants



Available designs



Glass cover



F-System S

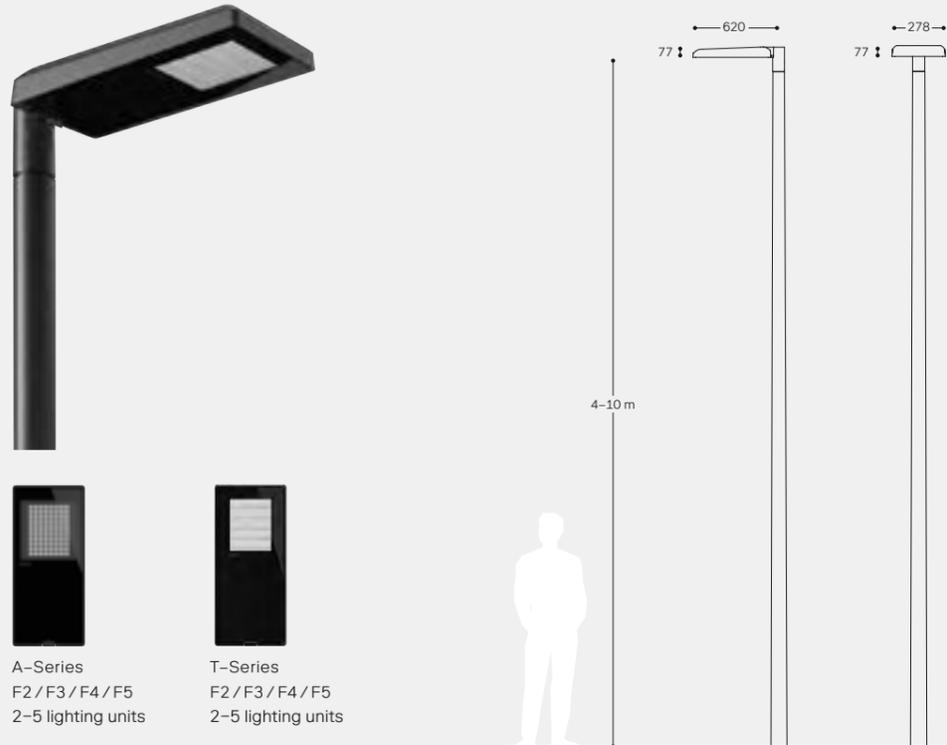
F2, F3, F4, F5

Roads and traffic



DB 703
Anthracite

ewo
color



Configurator

CE IP66 RoHS IK08

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) |

* 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] | 700* | 225 |
| LED power [W] | 147 | 60 |

* F5 max. 600 mA

Measurements

| Model | LPH [m] ① | l _p ② | -l _p 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

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

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 RGB

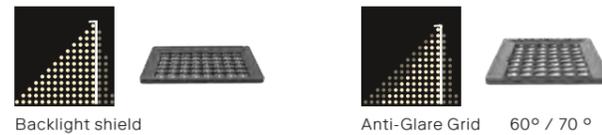
Performance

| 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

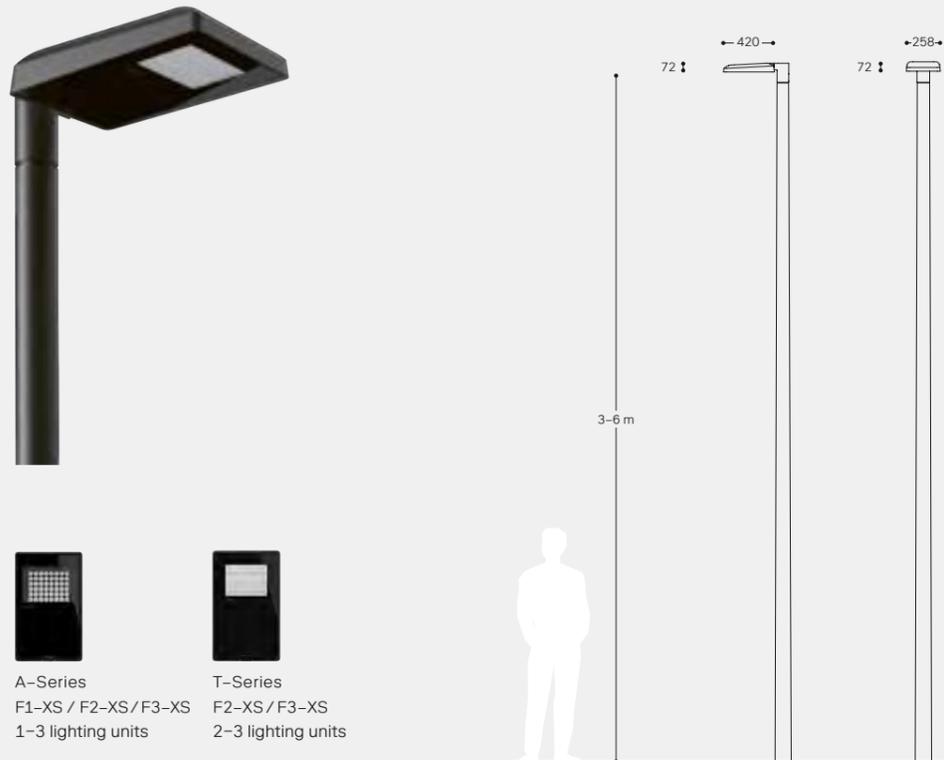
F1-XS, F2-XS, F3-XS

Large area and street lighting



DB 703 Anthracite

ewo color



Configurator

CE IP66 RoHS IK08

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 | ↑ [⊙] | -↑ [⊙] | 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 [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] | 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 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 | 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



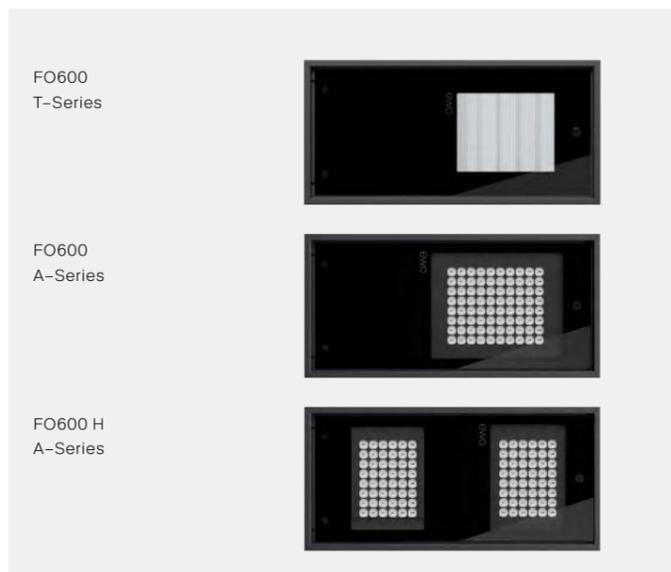
FO

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

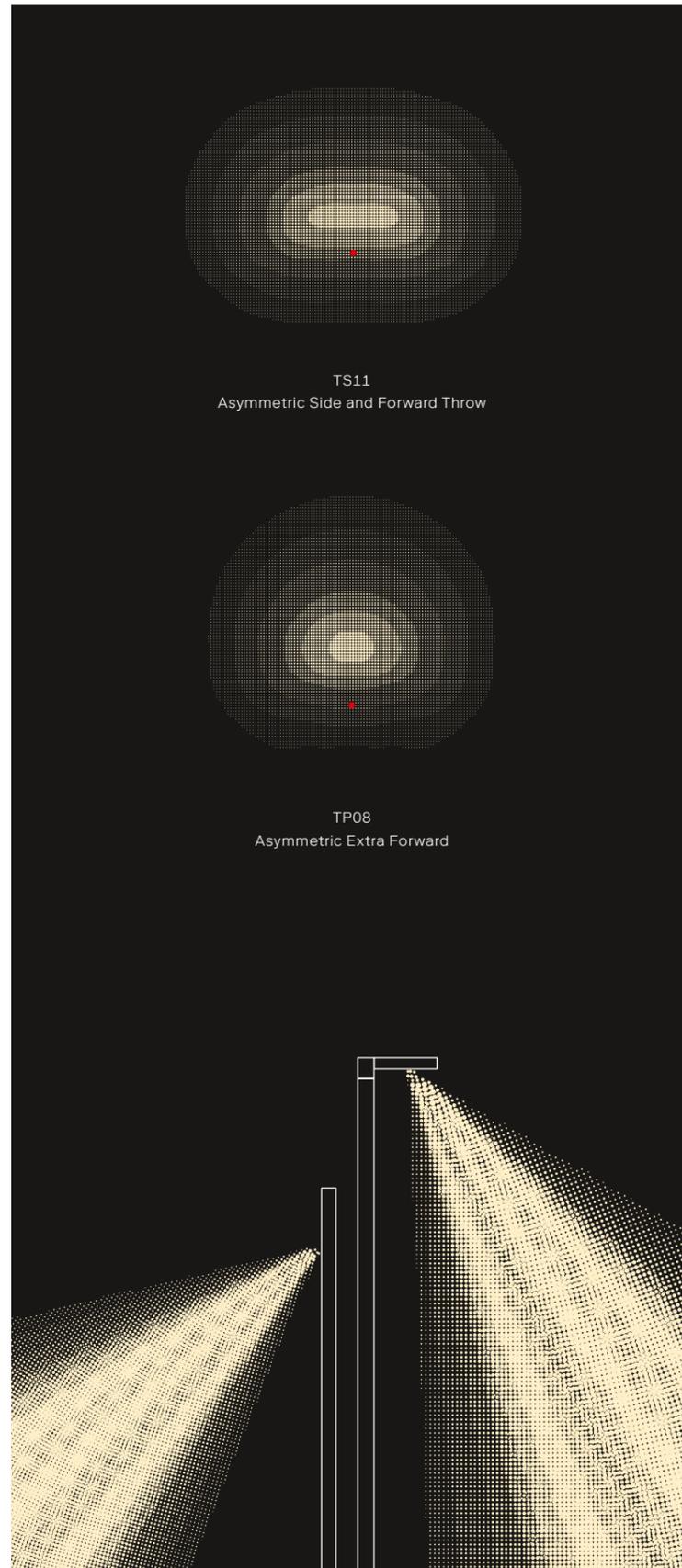
ewoLightTile

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

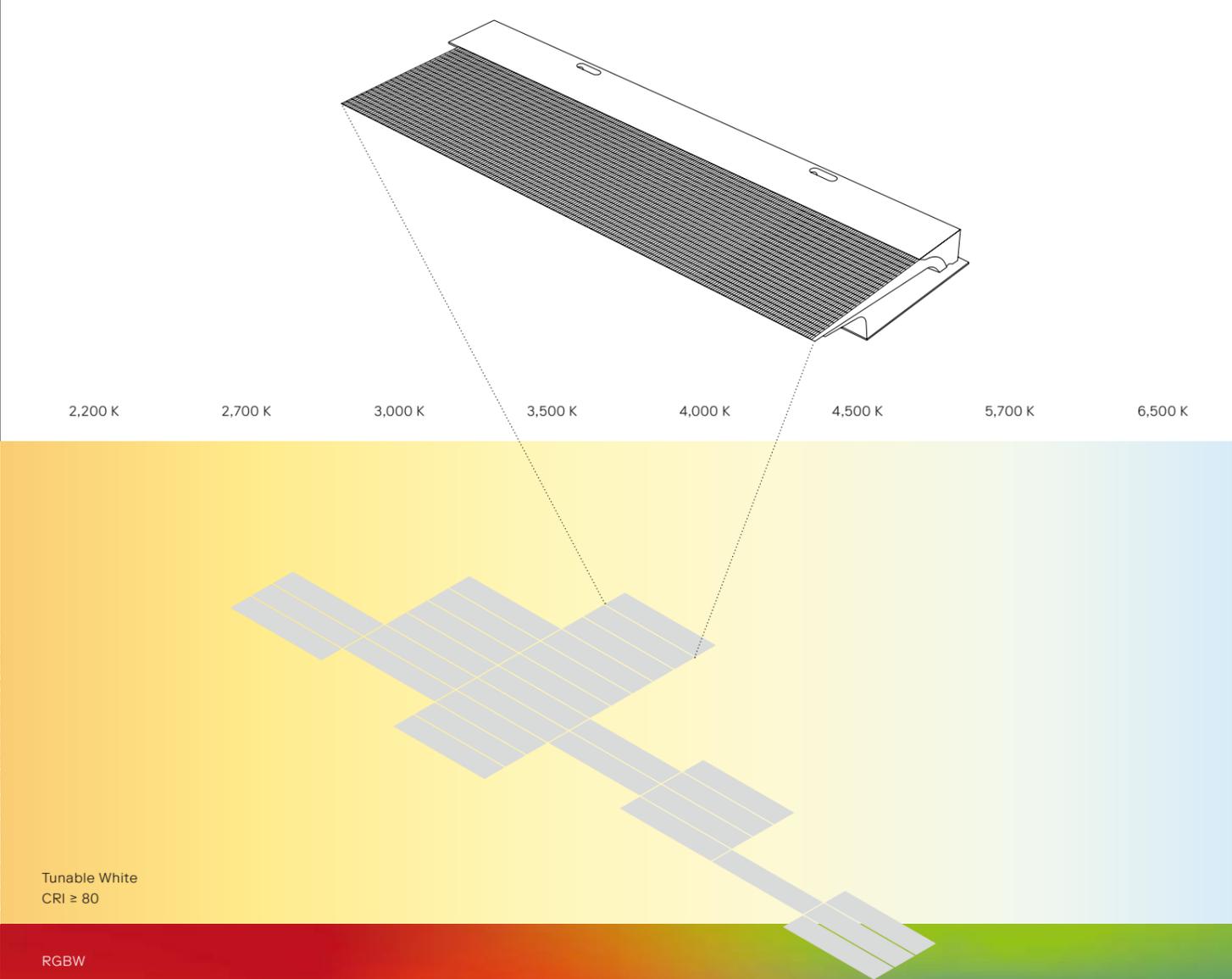
vertical array
luminous range: 3 x LPH

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.

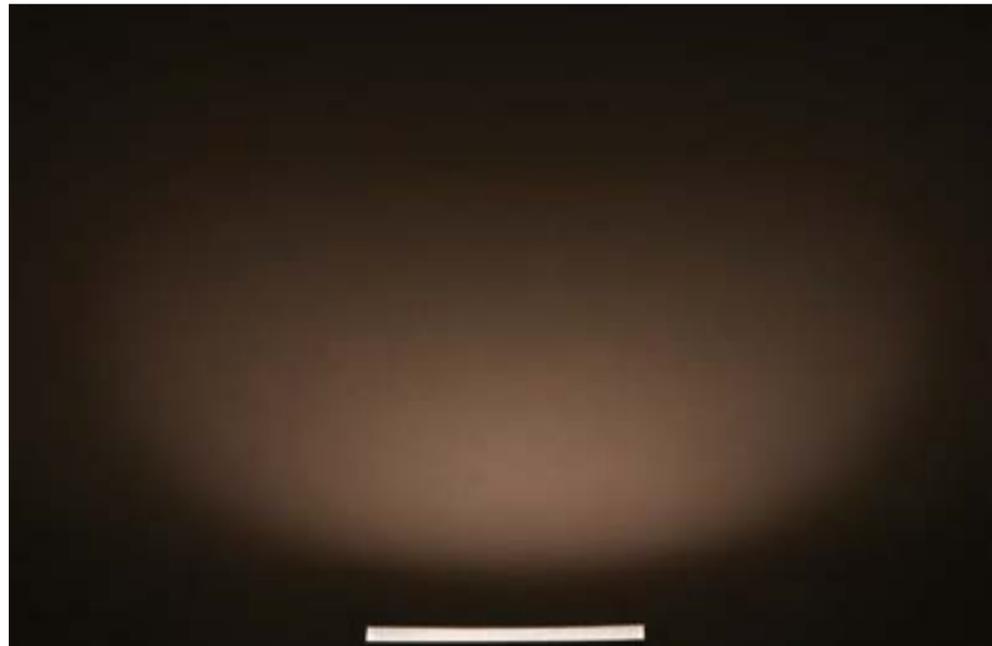


Tunable White
CRI ≥ 80

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



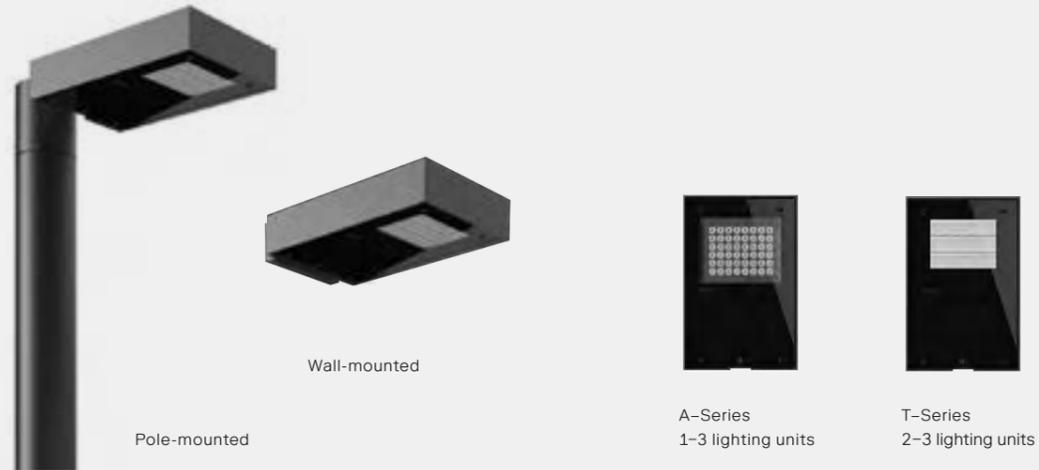
SHAPE OF LIGHT



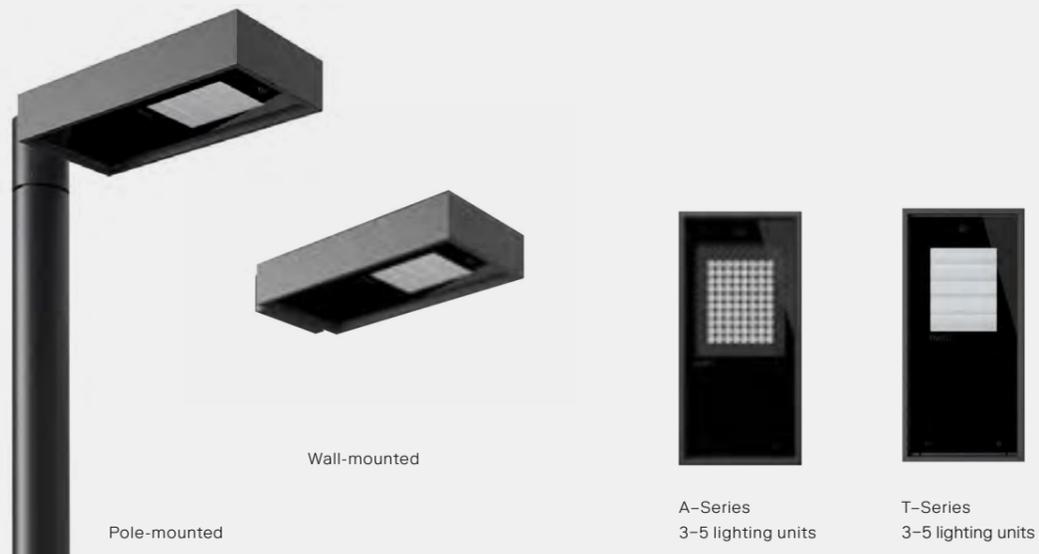
INTELLIGENCE OF LIGHT



FO420
FO420-W

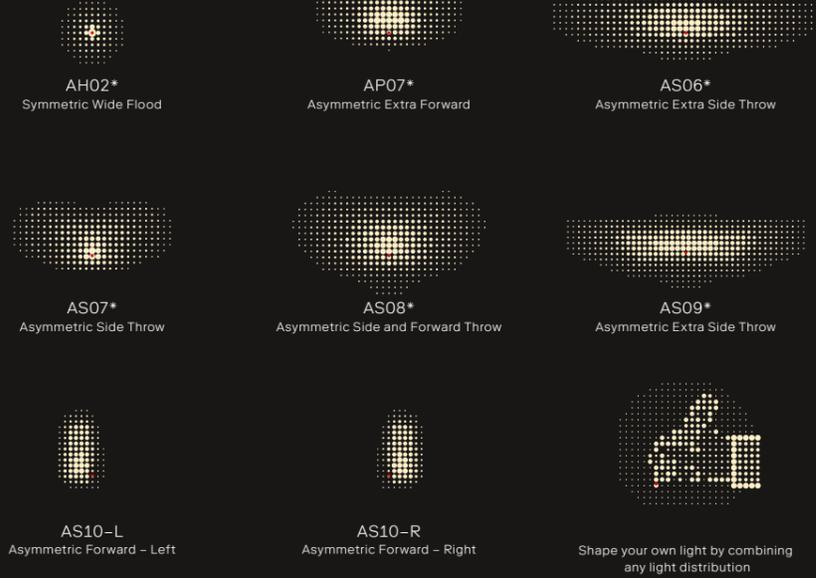


FO600
FO600-W



A
SERIES

Precision lens optics
* also available in satiné version



T
SERIES

ewoLighTile: low glare light-guiding panels



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

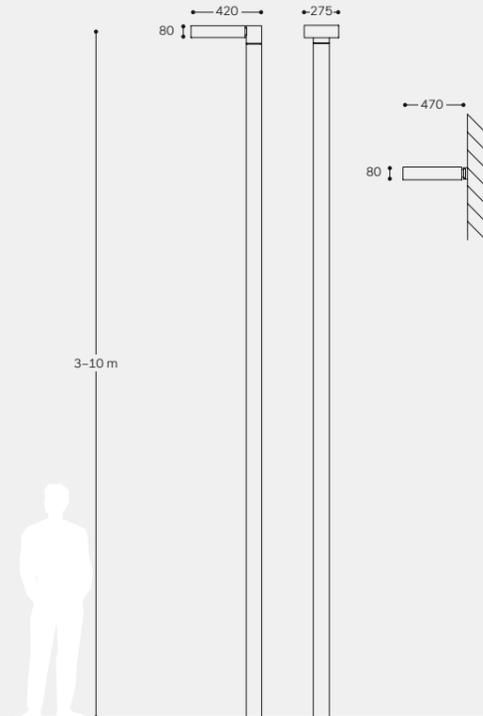
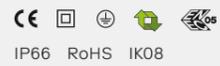


A-Series
1-3 lighting units



T-Series
2-3 lighting units

Configurator



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 ^p ② | -l ^s 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 [m²] ③ lateral windage area [m²]

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator 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



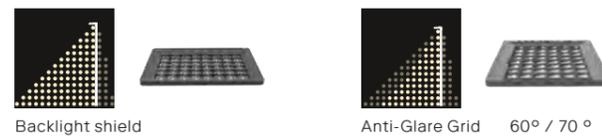
Performance

| 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)



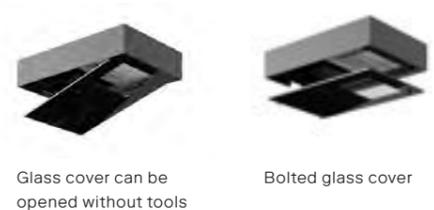
Pole bracket variants



Available designs



Glass cover



FO600

FO600
FO600-W

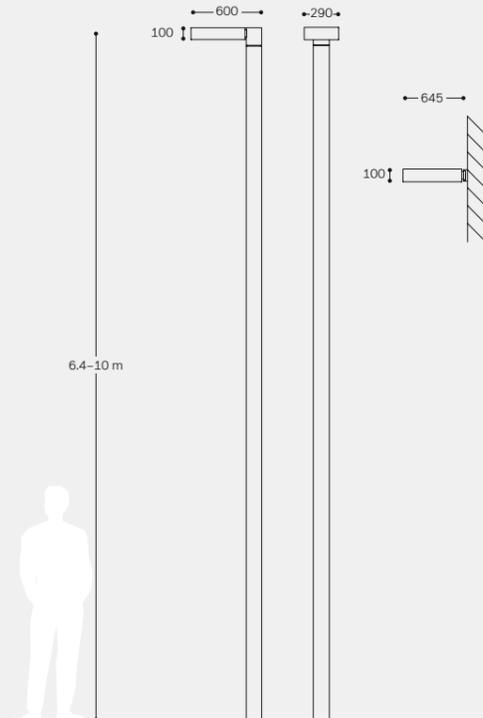
Public space
Roads and traffic



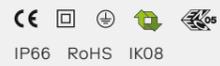
A-Series
3-5 lighting units



T-Series
3-5 lighting units



[Configurator](#)



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 _p ② | -l _p 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 [m²] ③ lateral windage area [m²]

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 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 | 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)



Backlight shield



Anti-Glare Grid 60° / 70°

Pole bracket variants



Fixed 90° pole-top

Available designs



Single



Double



Wall-mounted

Glass cover



Glass cover with bayonet lock

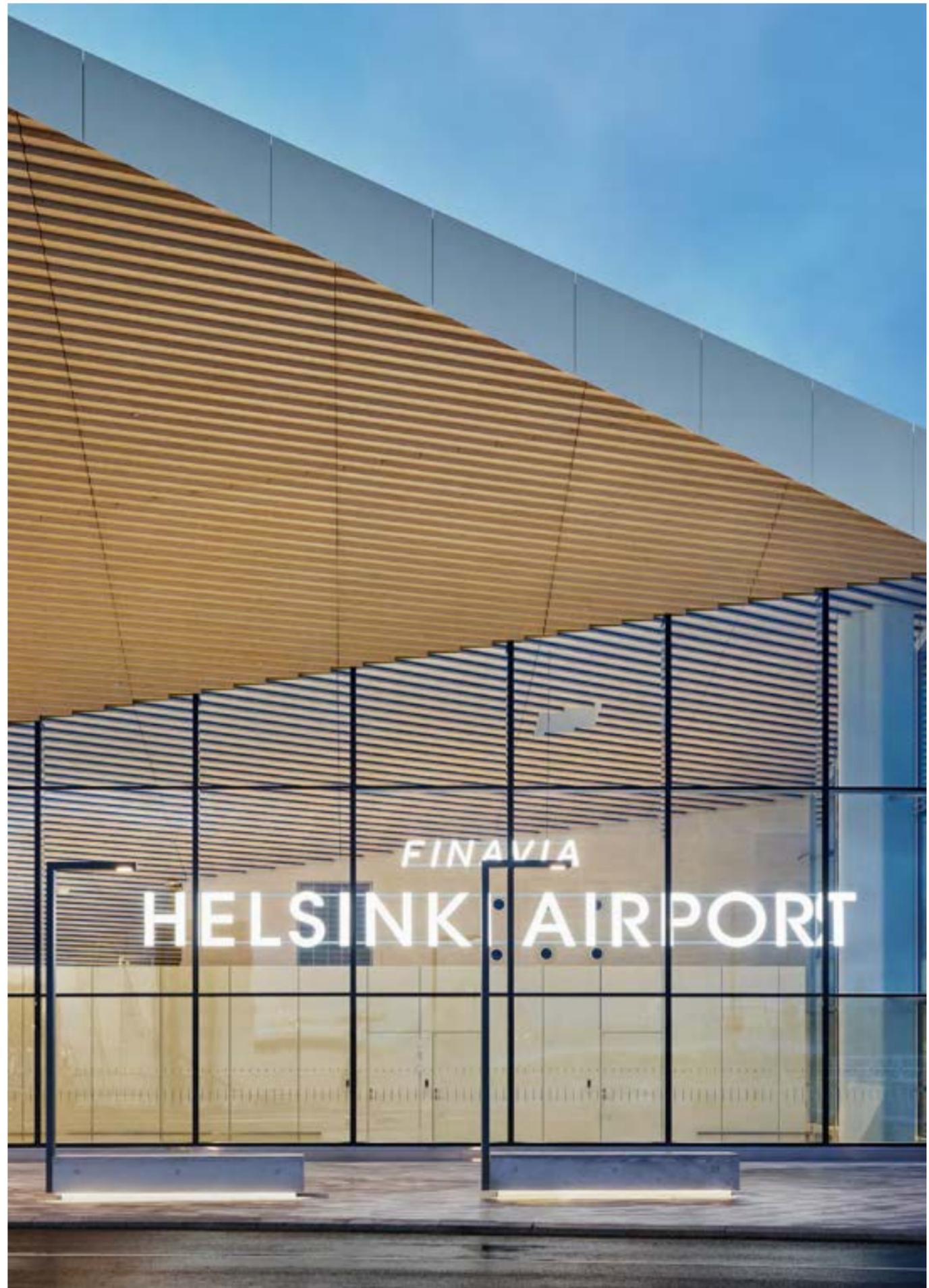


PUBLIC SPACE
ROADS AND TRAFFIC

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.





HELSINKI AIRPORT
Helsinki, Finland, 2021

ALA Architects
FA

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



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





Skins + protection

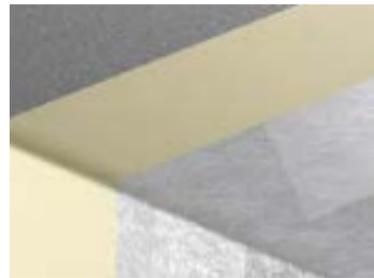
With different finishes and materials FA is prepared to match modern architecture and urban landscapes.



COR-TEN



RAW STEEL

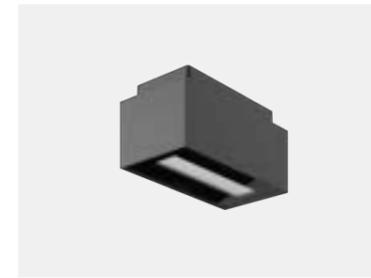


ewoECP

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

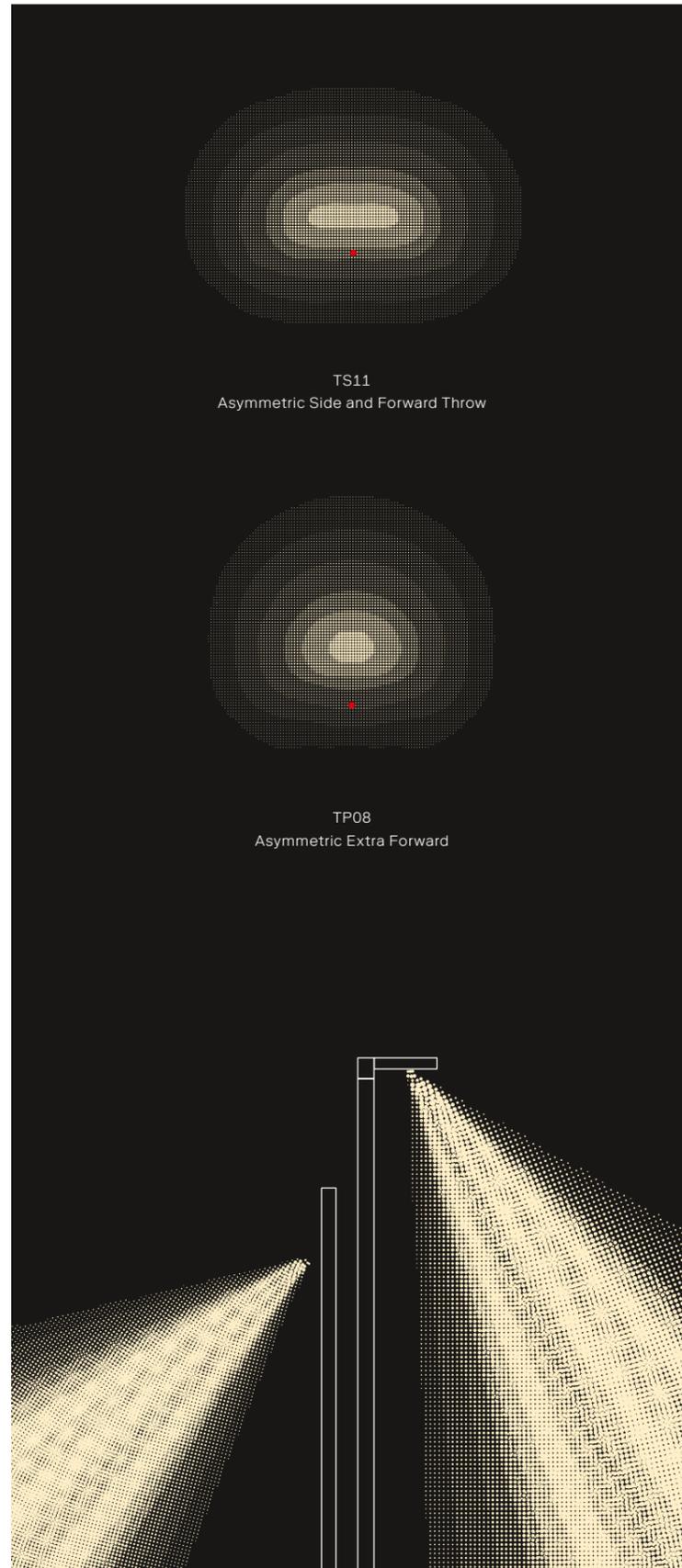
ewoLightTile

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

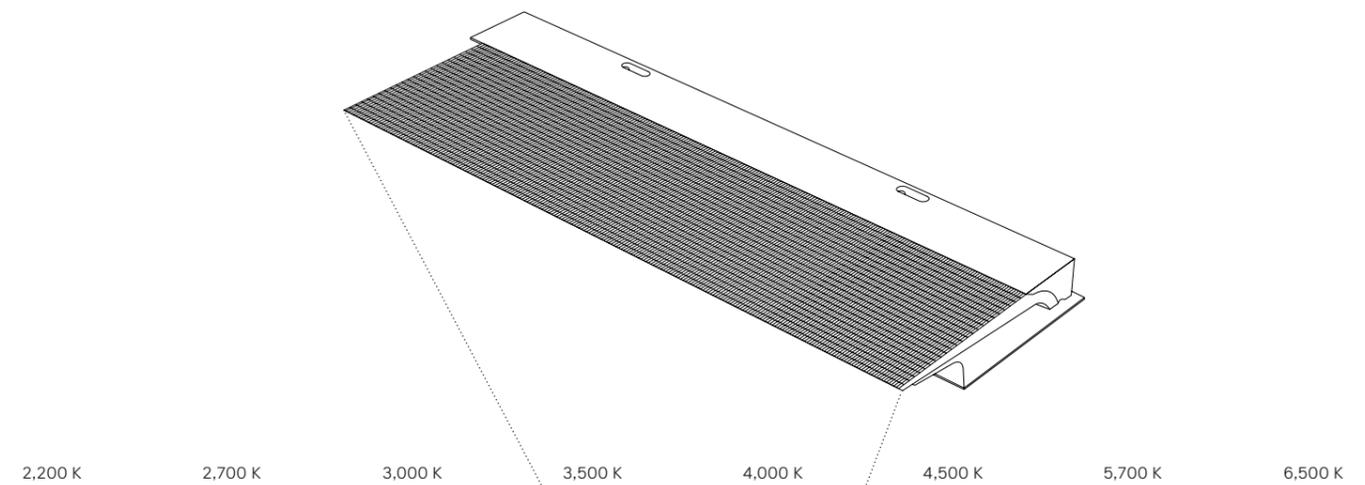
vertical array
luminous range: 3 x LPH

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.

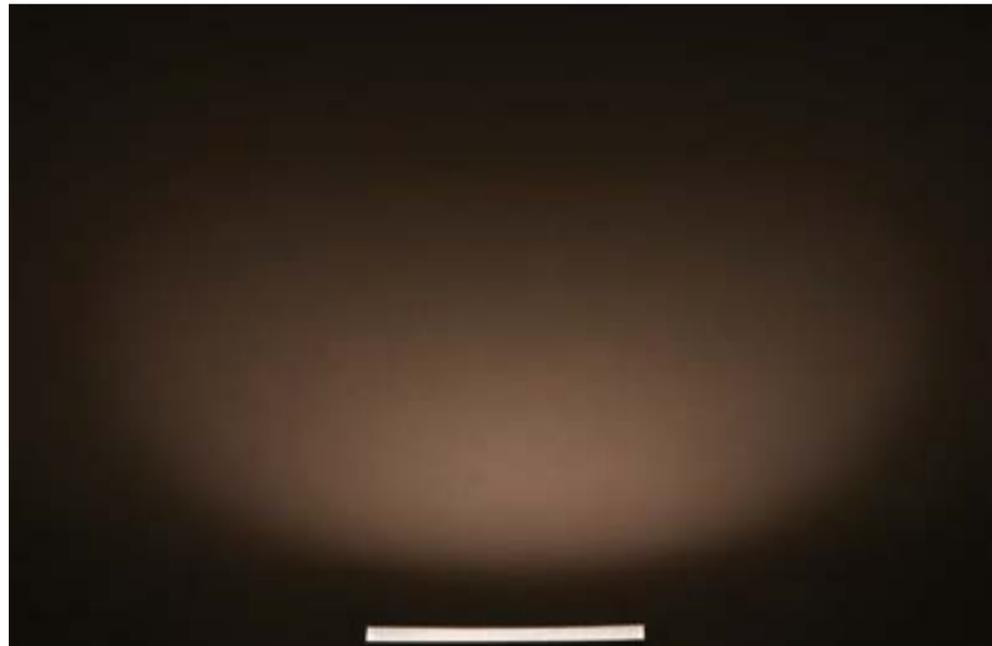


Tunable White
CRI ≥ 80

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



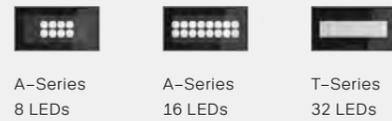
INTELLIGENCE OF LIGHT



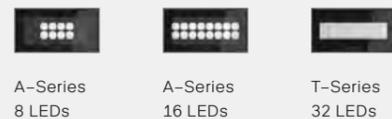
FA770
FA770-W
FA1070



FA170

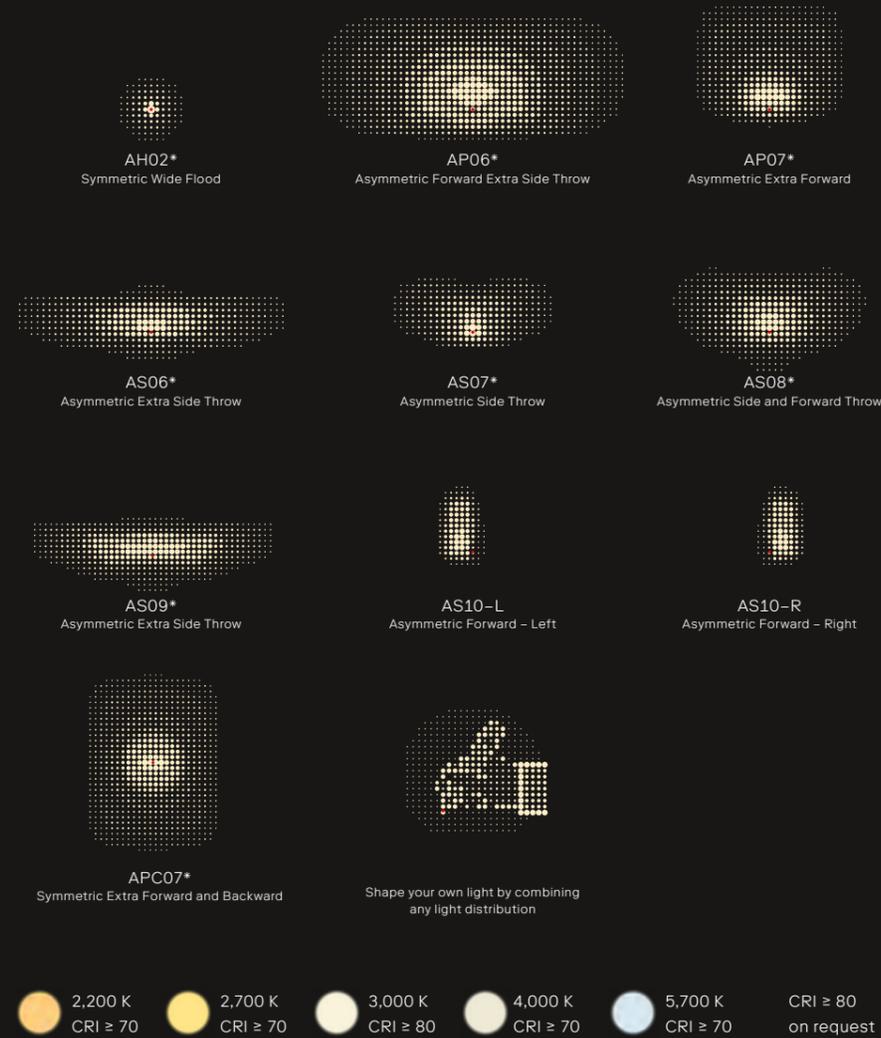


FA100-C,
FA100-WD,
FA100-U



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 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 |
|-----------|------------|

Programming options

| |
|---------------|
| Night dimming |
|---------------|

FA770
FA770-W
FA1070

Public space
Roads and traffic
Pedestrian path
Accent lighting



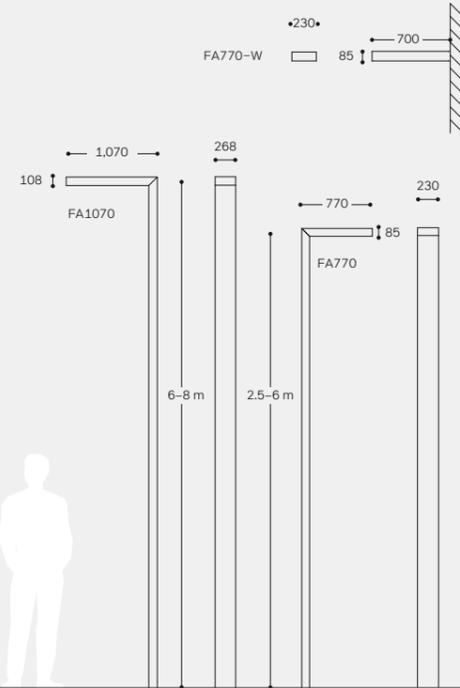
- DB 703 Anthracite
- ewo color



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

Configurator

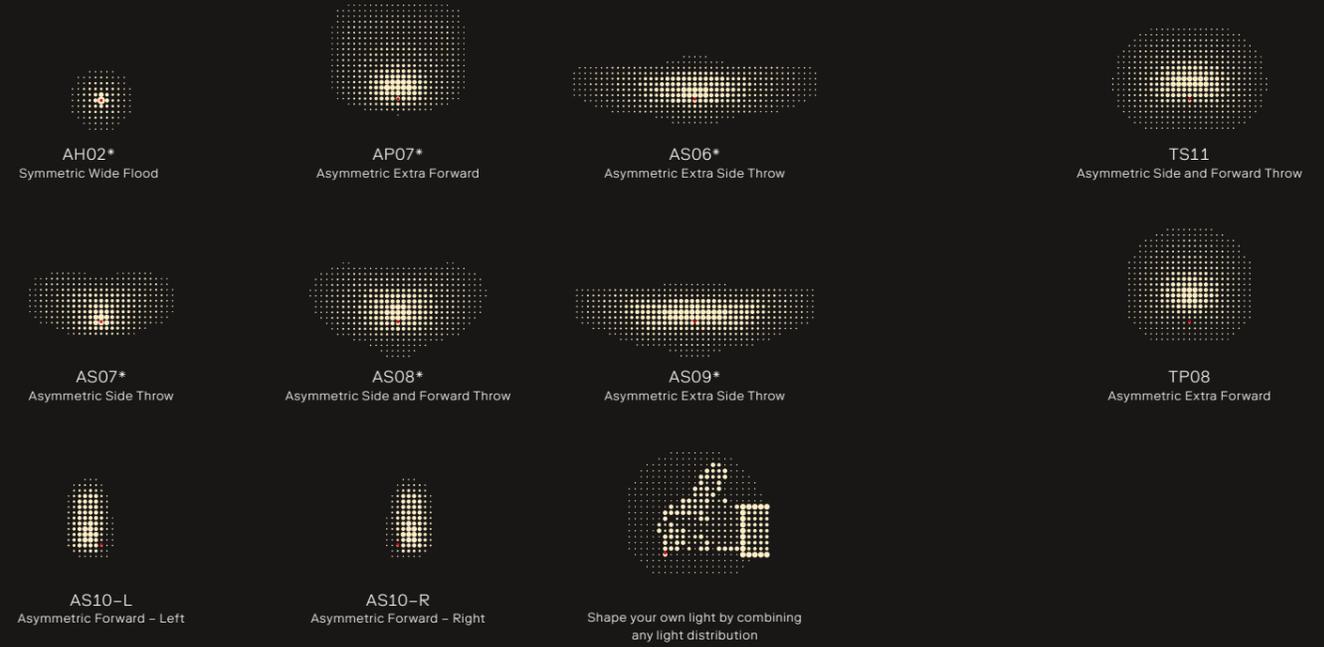
IP66 RoHS IK08



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 _p ② | -l _s 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 [m²] ③ max. weight
④ lateral windage area [m²] 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 | |

| 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

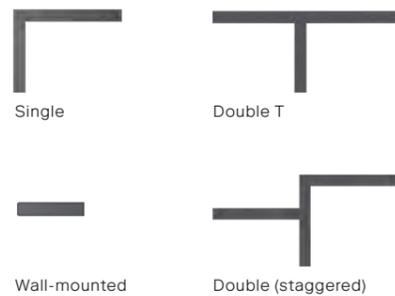
Operating conditions

| | |
|----------|--|
| Lifetime | Visit the 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 | |

Available designs (also available as pendant)



Product variations



BOLLARDS
FA170

Pedestrian path
Accent lighting



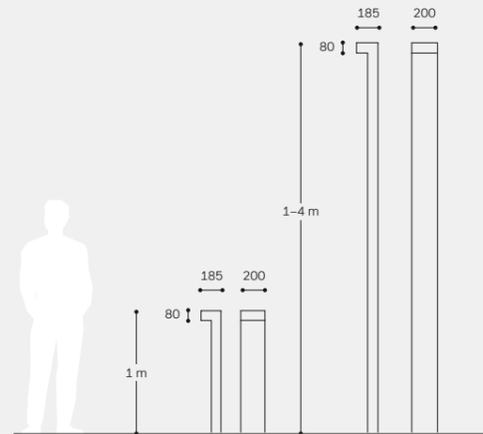
A-Series
FA170
8 LEDs



A-Series
FA170
16 LEDs



T-Series
FA170
32 LEDs



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 _p ② | -l _p 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 [m²] ③ max. weight
④ lateral windage area [m²] 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 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 | |



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)



Backlight shield



Anti-Glare Grid 60° / 70°

Available designs



Single



Double

Surface



Pole luminaire / bollard:
polyester powder coated

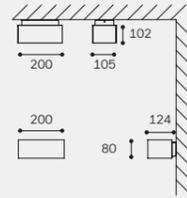
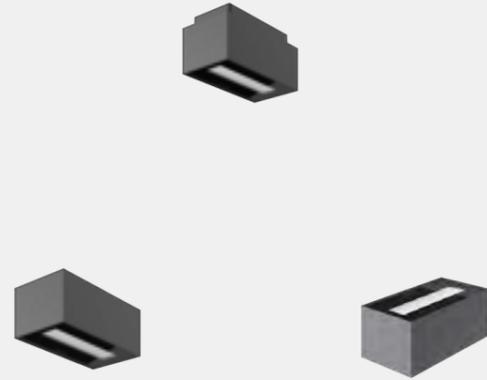


Pole luminaire / bollard:
COR-TEN steel

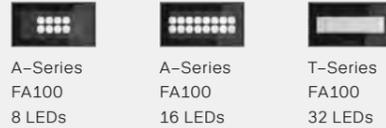
FA

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 | l _p ② | -l _p 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 |

① projected windage area [m²] ④ max. weight
② lateral windage area [m²]

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 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 | |



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 RGB

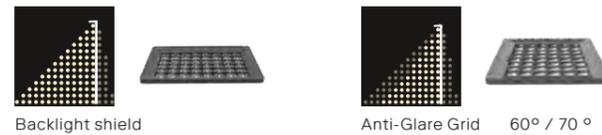
Performance

| 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.

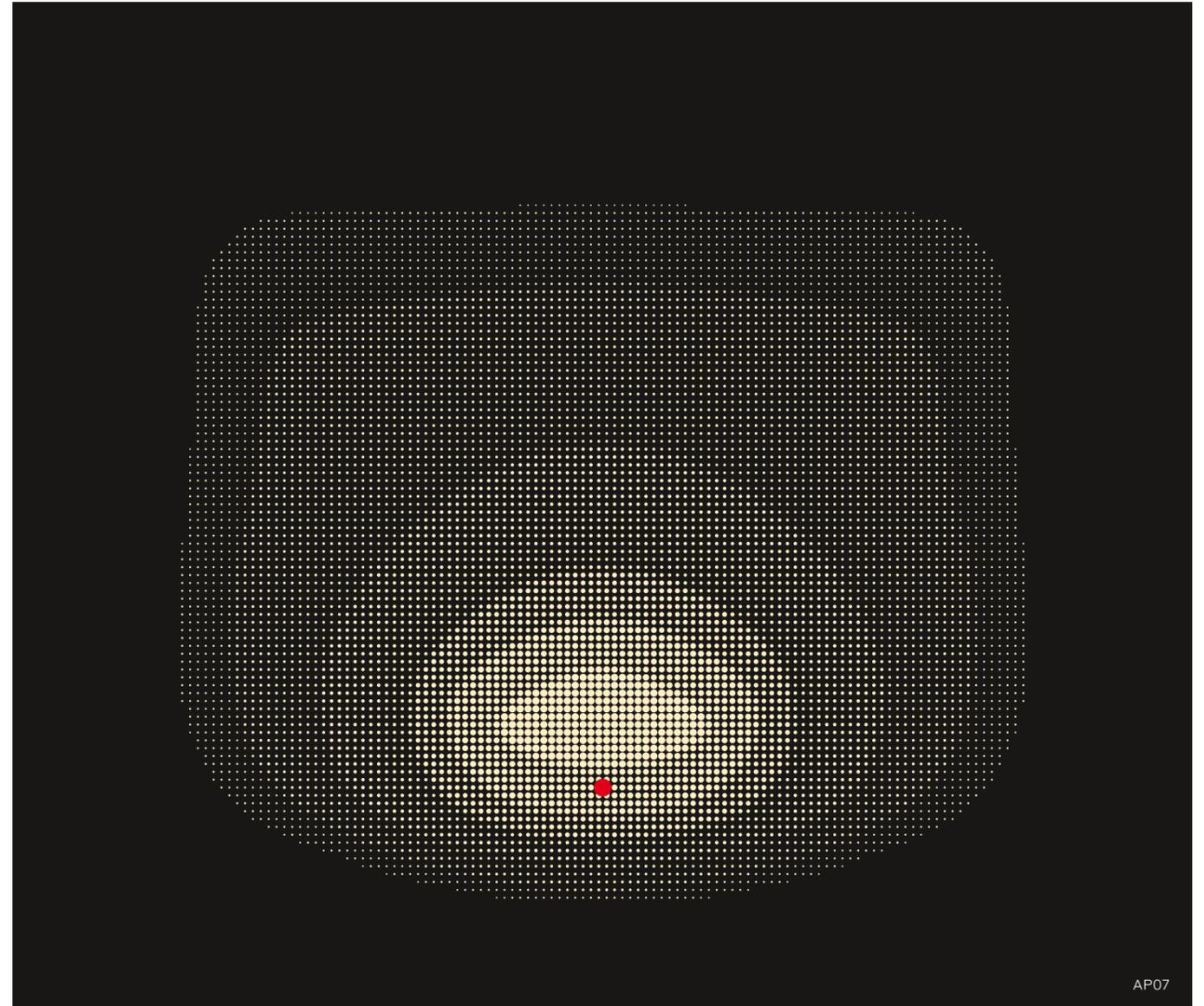


Jörg Boner working on the GO





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



Curved cover



Single-pane safety
glass



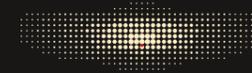
GO
1 lighting unit



Precision lens optics
* also available in satiné version



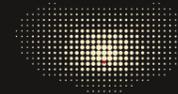
AP07*
Asymmetric Extra Forward



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 | |

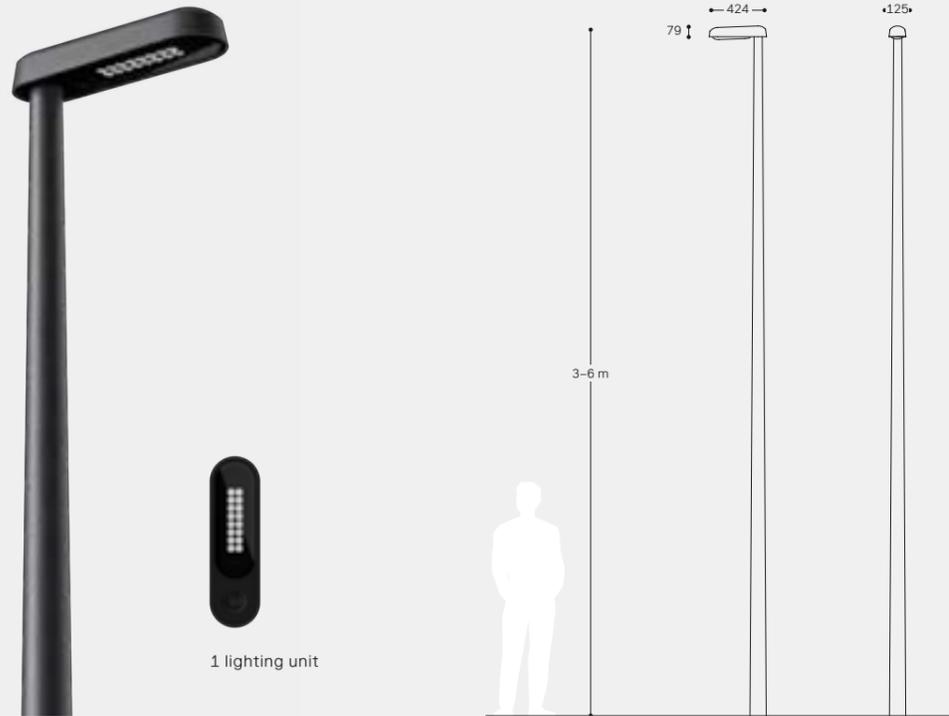
POLE

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 |

Measurements

| Model | LPH [m] ① | ↑ [Ⓜ] ② | -↑ [Ⓜ] 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 [m²] ③ lateral windage area [m²]

Electrical

A-Series

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

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

Driver

A-Series

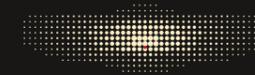
| | |
|------------------------|--|
| Control options | ON OFF DALI 1-10V L/S |
| Programming [optional] | Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone |
| Control accessories | Further accessories on request |
| Software | connex light management software for remote management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



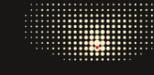
Precision lens optics
* also available in satiné version



AS07*
Asymmetric Side Throw



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



Curved cover



Single-pane safety glass

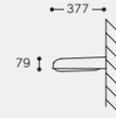
WALL
GO-W

Area, street and
walkway lighting



DB 703
Anthracite

ewo
color



GO
1 lighting unit

Configurator

CE RoHS IK08



Precision lens optics
* also available in satiné version



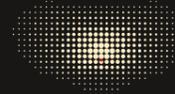
AP07*
Asymmetric Extra Forward



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

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 | ∅ 60mm, optional adapter for ∅ 76mm * other color on request |

Measurements

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

¹ projected windage area [m²]
² lateral windage area [m²]

Performance

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

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

Electrical

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

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

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 |

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



Curved cover



Safety glass (ESG)



WAYS
ACCENTS
BUILDINGS

CN

This circular pole top luminaire is ideal for urban lighting applications including area, street, walkway lighting and lighting of pedestrian crossings. Either two or four lighting units are symmetrically arranged in the luminaire head with the pole position at the centre. Optically, the CN can be configured with either A-Series high precision lens optics or T-Series low glare ewoLighTile for tunable white applications bringing humancentric lighting to urban spaces.

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



GEMEINDEKULTURZENTRUM ST. NIKOLAUS
Ischgl, Austria, 2015
CN





PUBLIC SPACE
AREAS
RESIDENTIAL AREAS
WALKWAYS

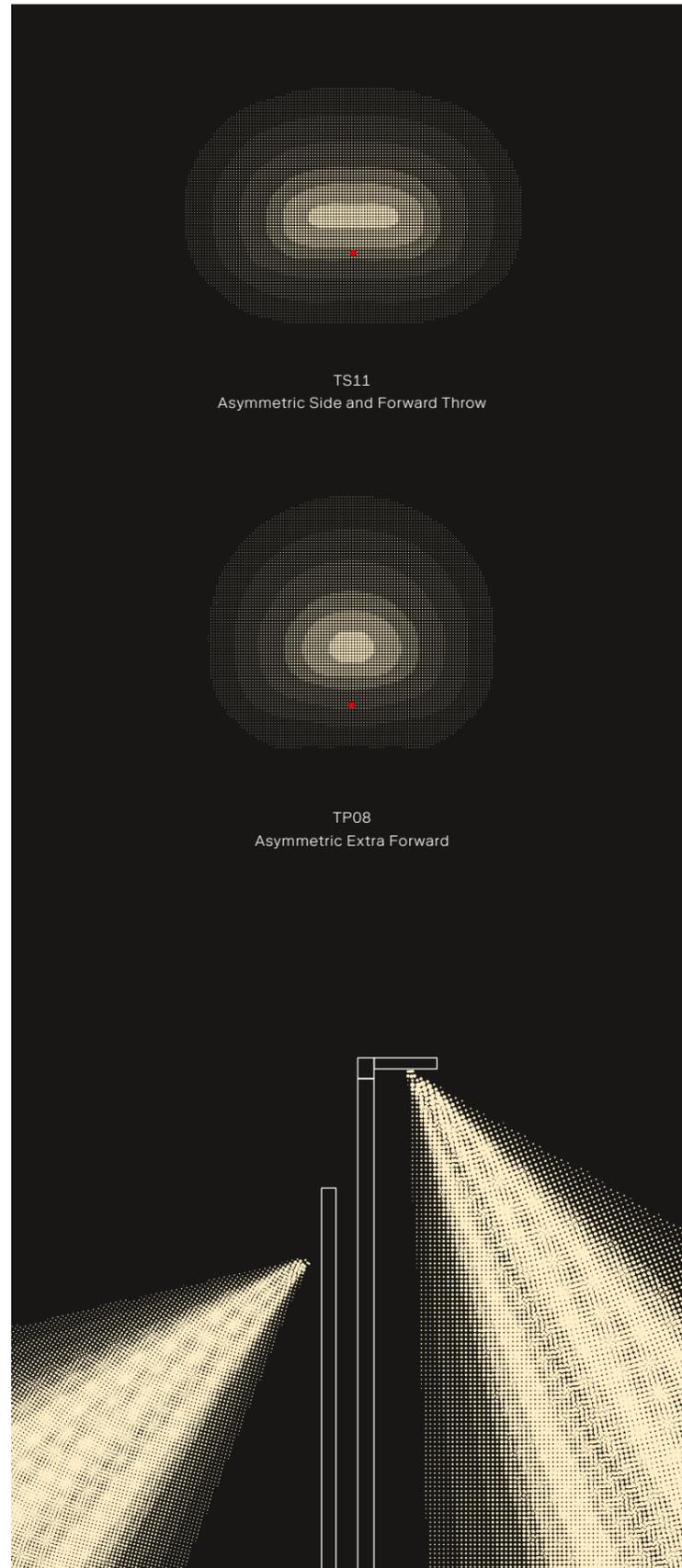
ewoLightTile

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

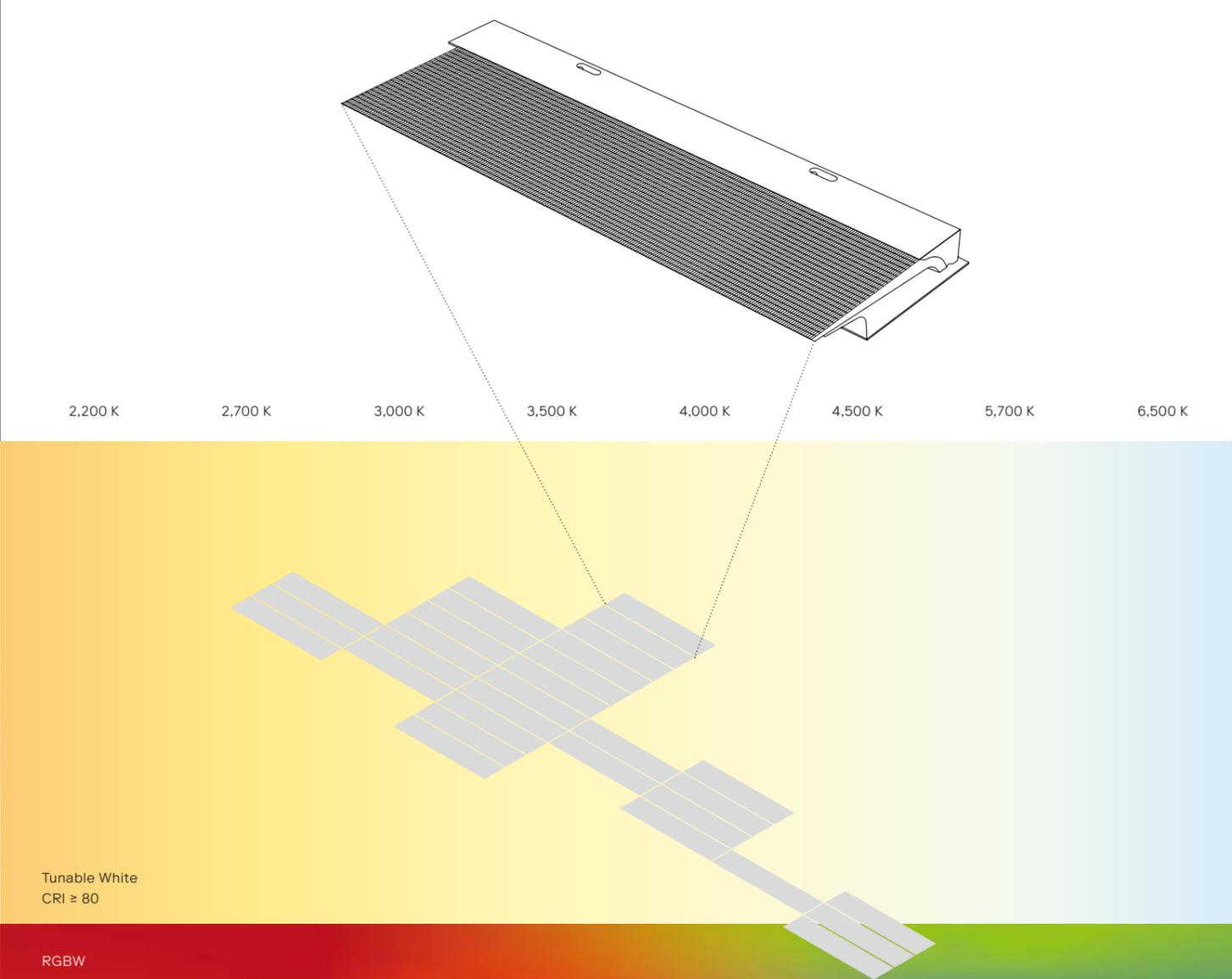
vertical array
luminous range: 3 x LPH

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.

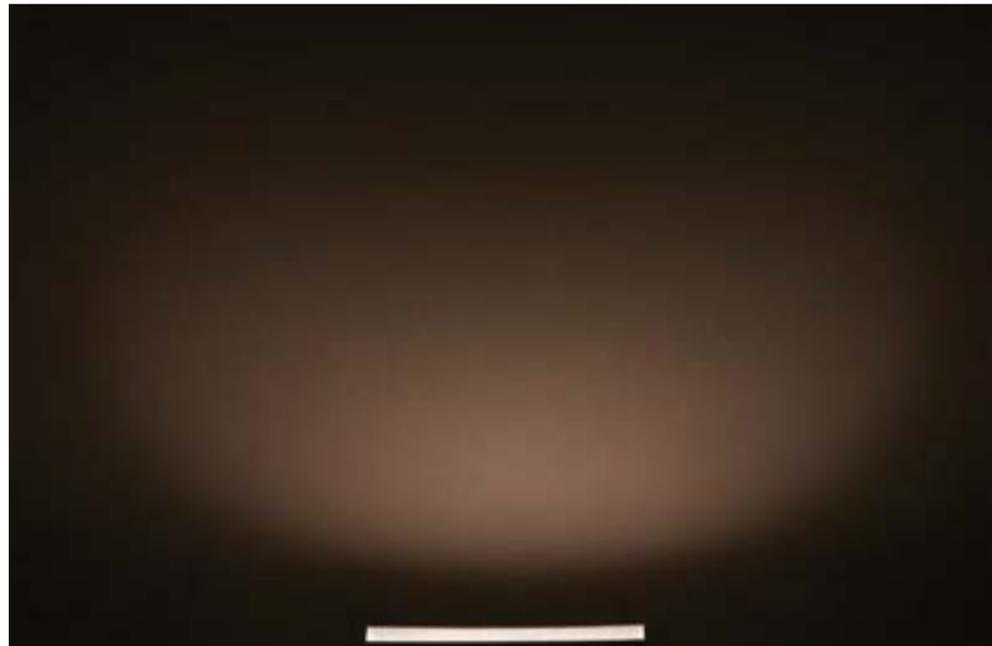


Tunable White
CRI ≥ 80

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



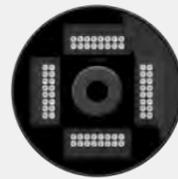
SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



CN500

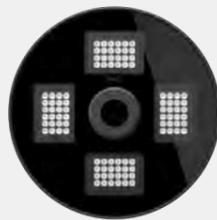


A-Series
1-4 lighting units

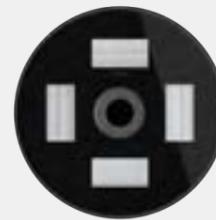


T-Series
1-4 lighting units

CN600



A-Series
1-8 lighting units



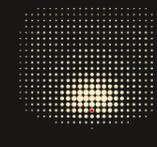
T-Series
1-8 lighting units

A
SERIES

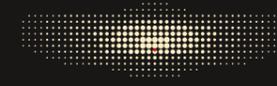
Precision lens optics
* also available in satiné version



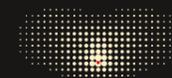
AH02*
Symmetric Wide Flood



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

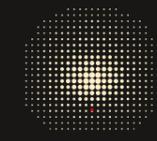
CRI ≥ 80
on request

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 | 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

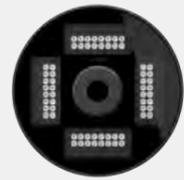
| | |
|---------------|--|
| Night dimming | |
|---------------|--|

CN 500

Public space
Roads and traffic



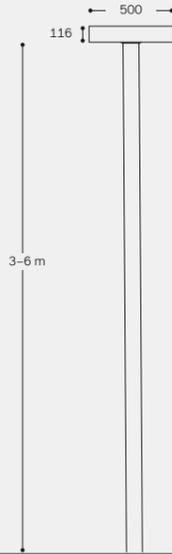
- DB 703 Anthracite
- ewo color



A-Series
1-4 lighting units



T-Series
1-4 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 _p ② | -l _p ③ | Weight [kg] ④ |
|-------|------------------|--|--|------------------|
| CN500 | 3-6 | 0.20 | 0.06 | 15.0 |
| | ① in 0.1 m steps | ② projected windage area [m ²] | ③ lateral windage area [m ²] | ④ max. weight |
| | | | | ⑤ excluding pole |



Precision lens optics
* also available in satiné version



ewoLightTile: low glare
light-guiding panels

AH02* Symmetric Wide Flood

AP07* Asymmetric Extra Forward

AS06* Asymmetric Extra Side Throw

TS11 Asymmetric Side and Forward Throw

AS07* Asymmetric Side Throw

AS08* Asymmetric Side and Forward Throw

AS09* Asymmetric Extra Side Throw

TP08 Asymmetric Extra Forward

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
- 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 | CN500 | CN500 |
|--------------------|--------------|-------|
| Light units | 1-4 | 1-4 |
| Luminous flux [lm] | 1,000-11,200 | 3,600 |

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] | 500 | 225 |
| LED power max. [W] | 95 | 48 |

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 | |

Available designs (also available as pendant)

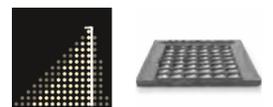


Pole luminaire

Accessories ewoLightLayers (optical accessories)



Backlight shield



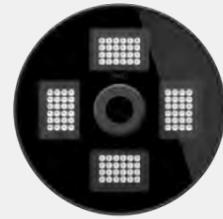
Anti -Glare Grid 60° / 70°

CN 600

Public space
Roads and traffic



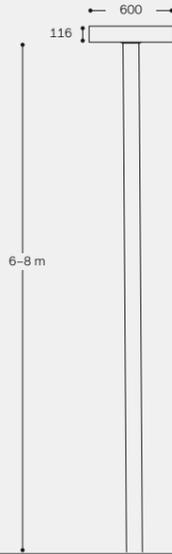
DB 703
Anthracite



A-Series
CN600
1-8 lighting units



T-Series
CN600
1-8 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 | ⊥ ② | -⊥ ③ | Weight [kg] ④ |
|-------|------------------|-------------------------------|-----------------------------|--------------------|
| CN600 | 6-8 | 0.28 | 0.07 | 20.0 |
| | ① in 0.1 m steps | ② projected windage area [m²] | ③ lateral windage area [m²] | ④ max. weight |
| | | | | ⑤⑥⑦ 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] | 500 | 225 |
| LED power max. [W] | 170 | 95 |

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 | |



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 RGB

Performance

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

| Model | CN500 | CN500 |
|--------------------|--------------|-------|
| Light units | 1-8 | 1-8 |
| Luminous flux [lm] | 1,000-19,700 | 7,300 |

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.

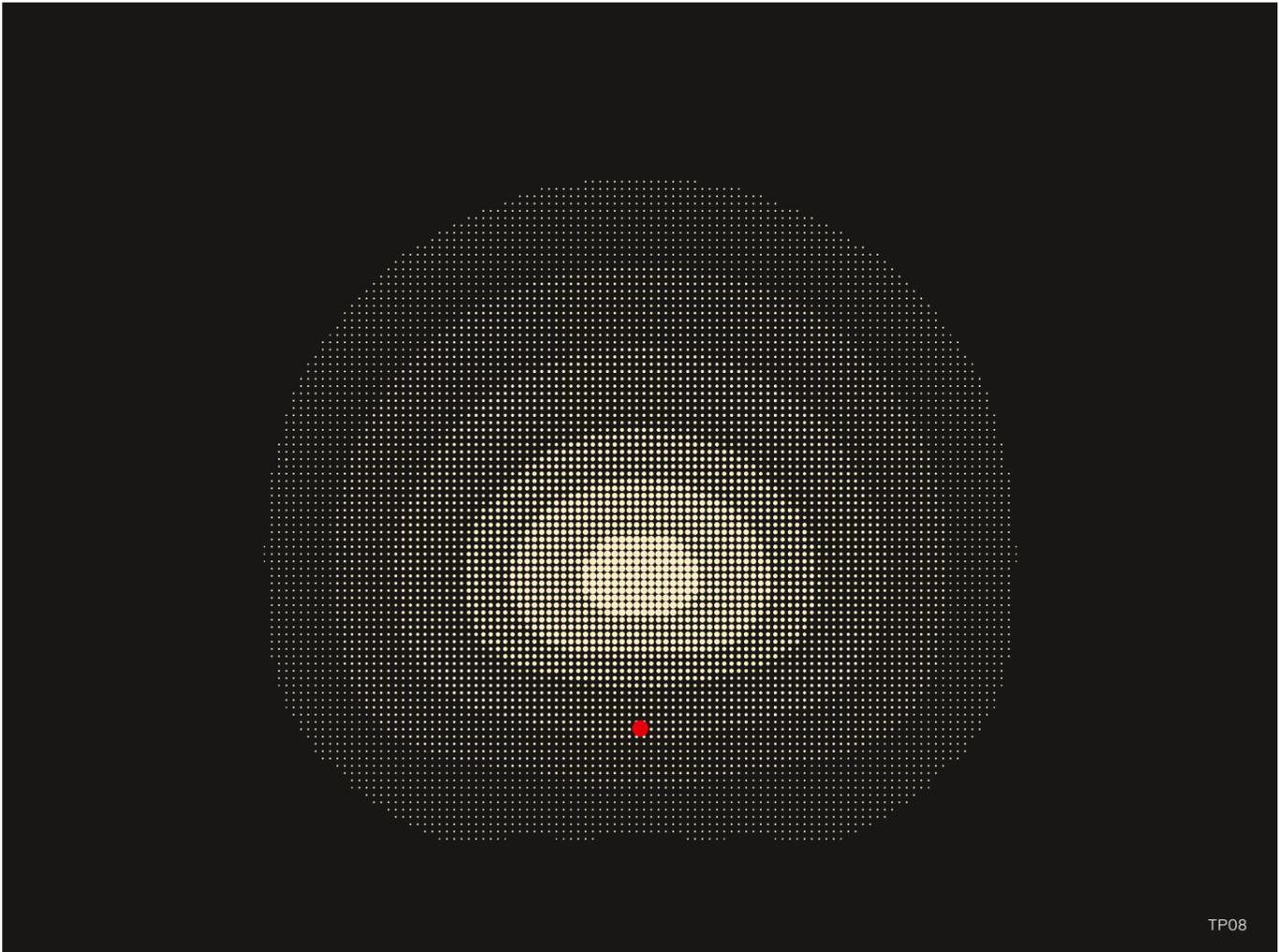




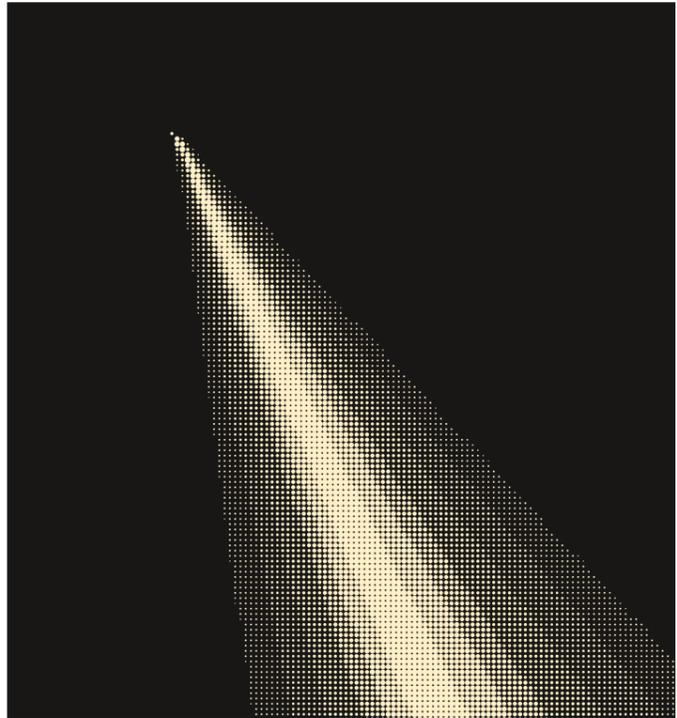
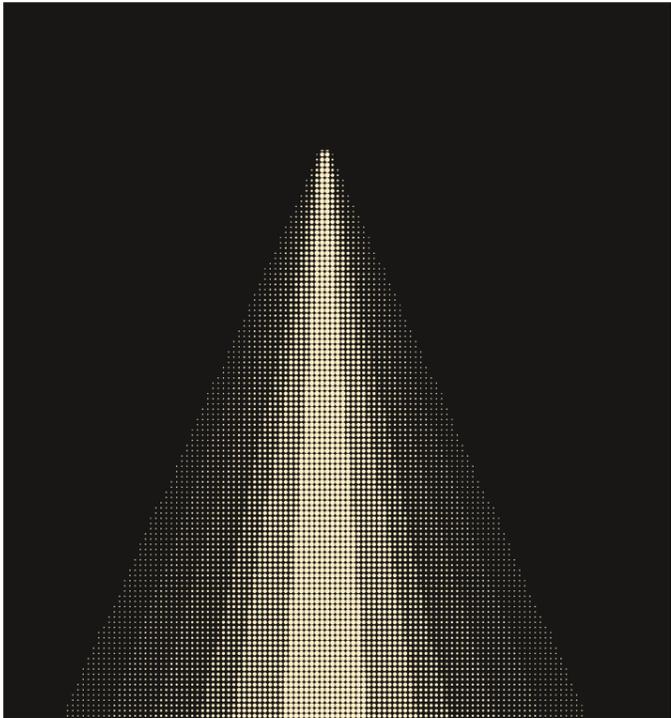
Shape of Light



T
SERIES



TP08





PUBLIC SPACE
AREAS
RESIDENTIAL AREAS
WALKWAYS

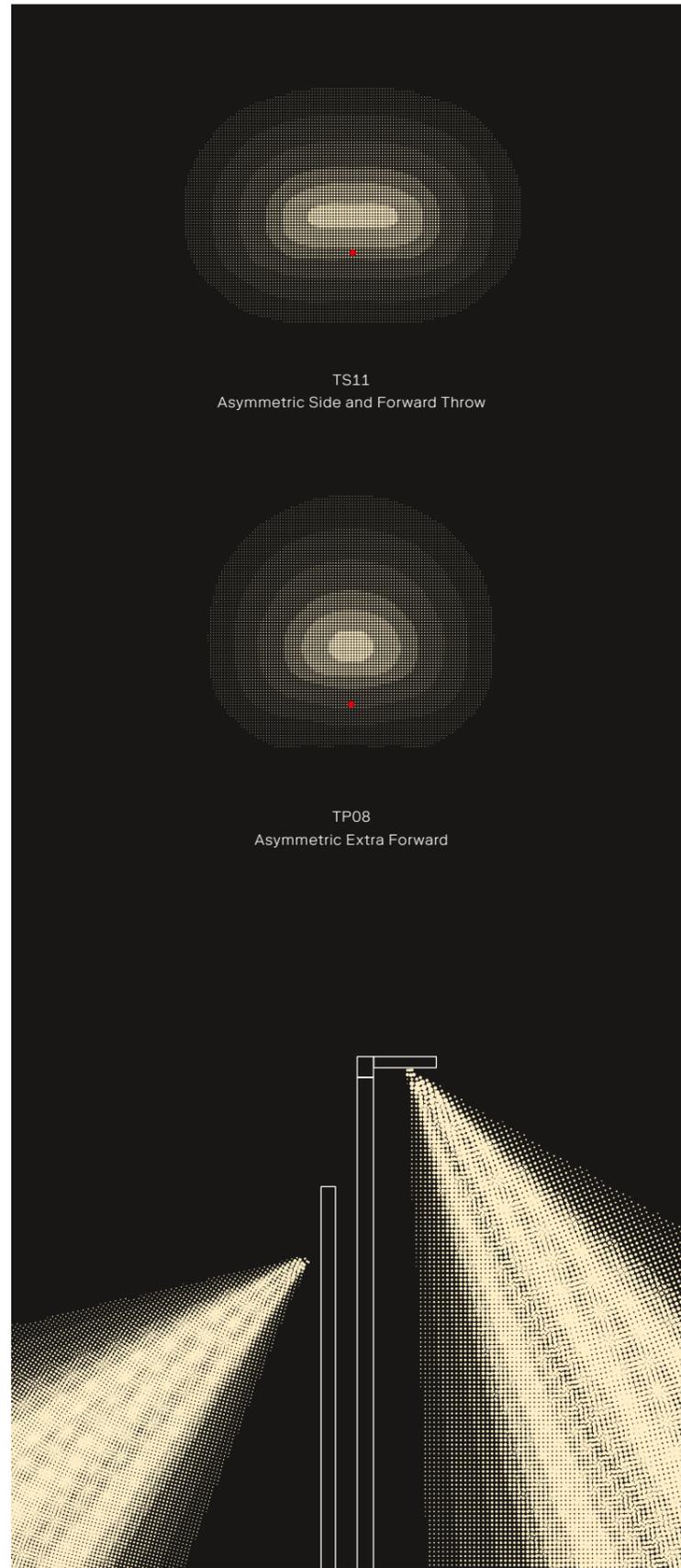
ewoLightTile

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

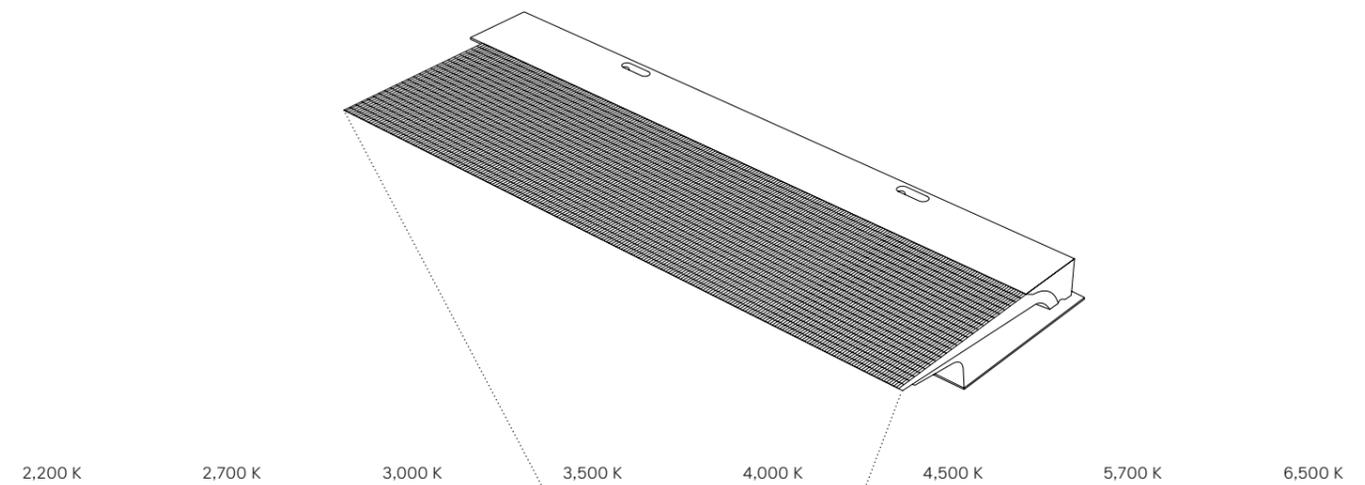
vertical array
luminous range: 3xLPH

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.

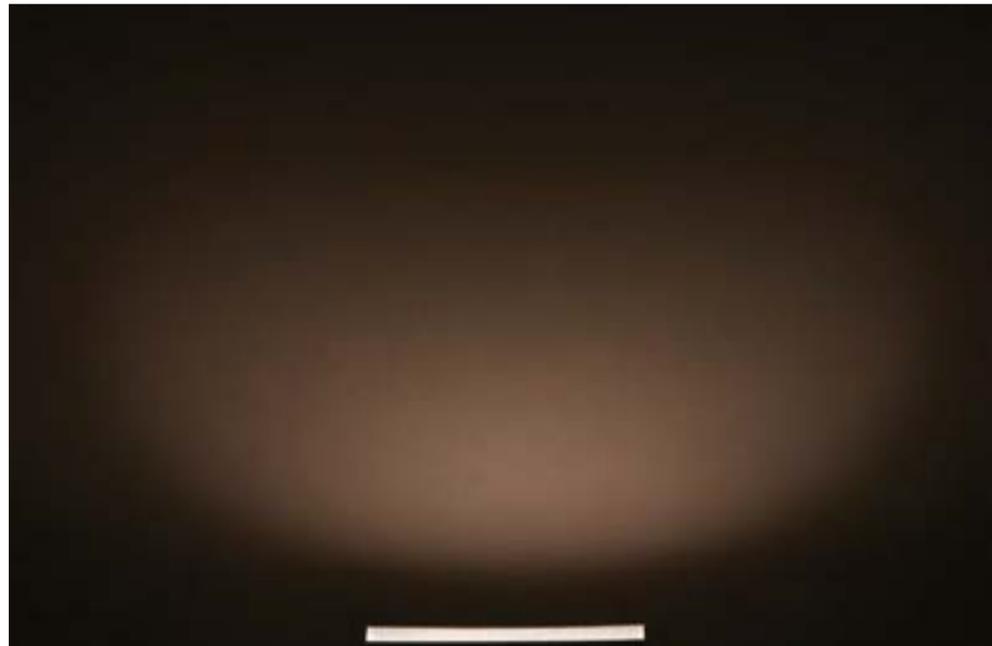


Tunable White
CRI ≥ 80

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

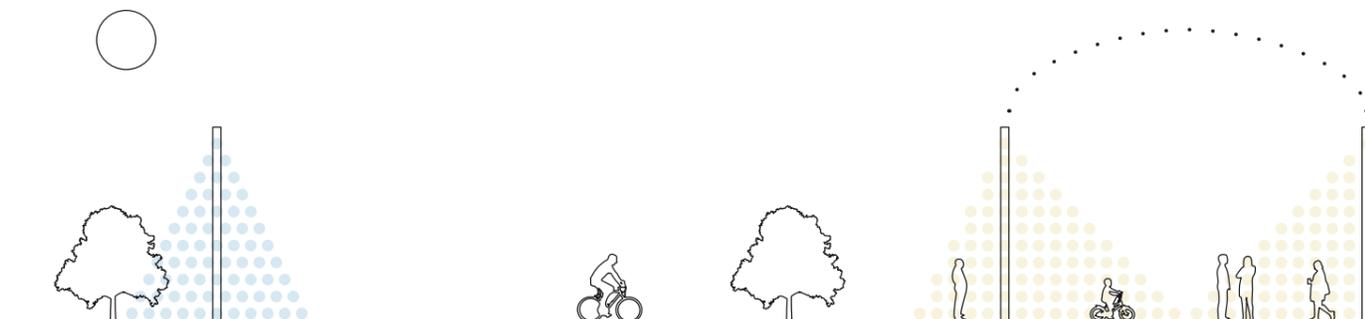


Designed by Zurich based product designer Joerg Boner, the IR is a family of pole mounted luminaires with either a single or a twin head. The luminaire itself makes for an elegant appearance with its integrated luminaire and pole connection.



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.

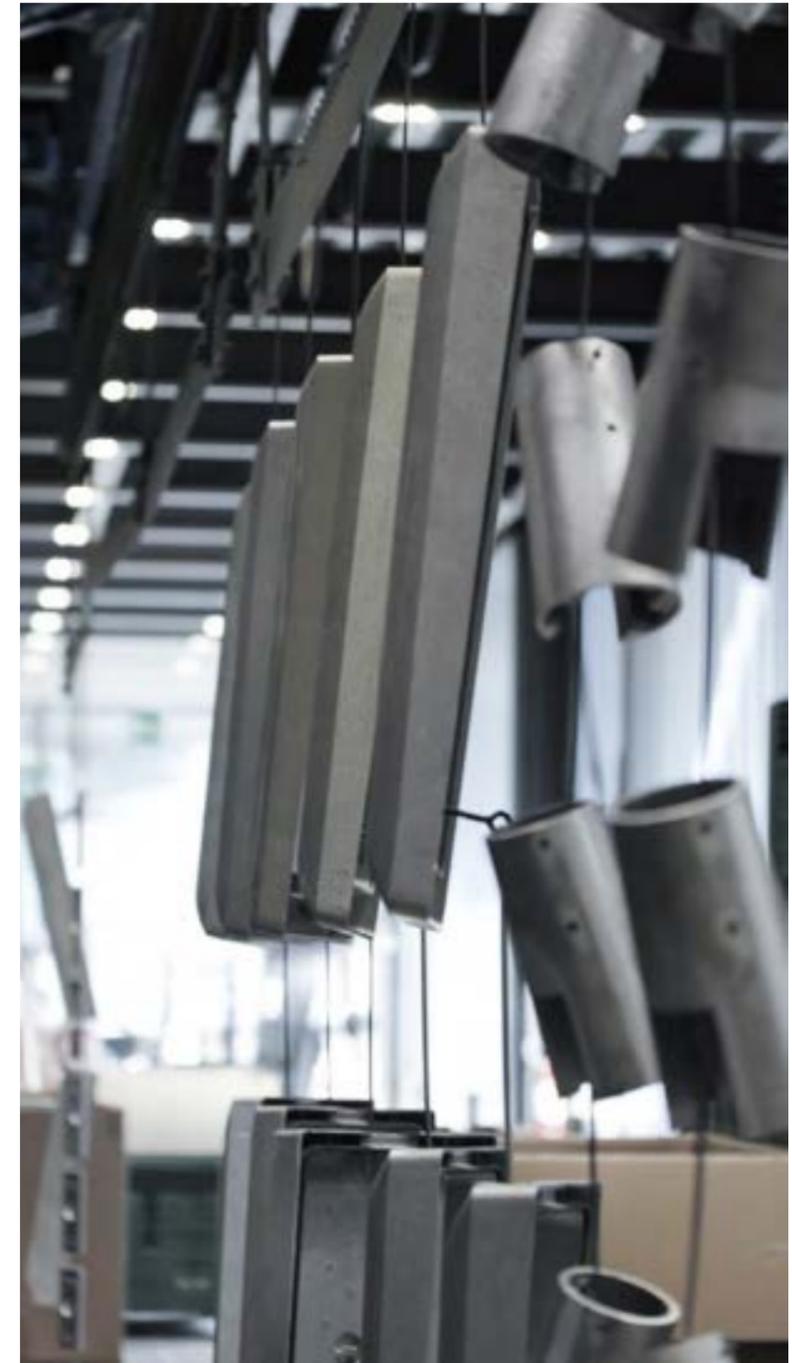
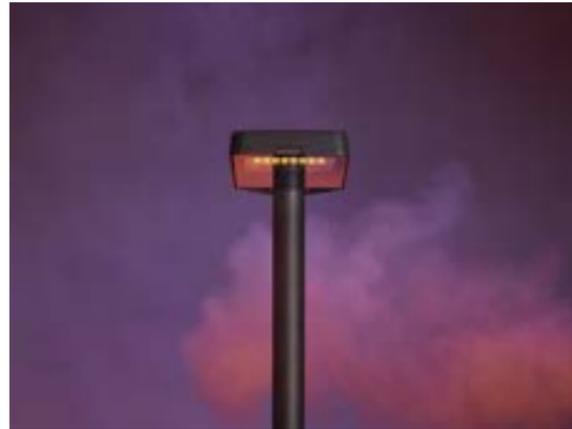
4) High-quality powder coating
A high-quality coating performed in-house with thermosetting powders delivers customer desired colours with the serenity of a superior performance against corrosion.



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 |
|-----------|------------|

Programming options

| | |
|---------------|--|
| Night dimming | |
|---------------|--|

POLE
IR1, IR2, IR3

Area, street and walkway lighting



- DB 703 Anthracite
- ewo color



Configurator

- IP66 RoHS IK08

- 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 | 6.5 |
| IR2 | 3-6 | 0.12 | 0.03 | 6.5 |
| IR3 | 3-6 | 0.12 | 0.03 | 6.5 |

① in 0.5 m steps ② projected windage area [m²] ③ max. weight
④ lateral windage area [m²] 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 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 | AS10-L | AS10-R | TS11 | TP08 |
|-------------------------|------|------|------|------|----------|------|--------|--------|------|----------|
| MacAdam ellipses (SDCM) | | | | | ≤ 5 SDCM | | | | | ≤ 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

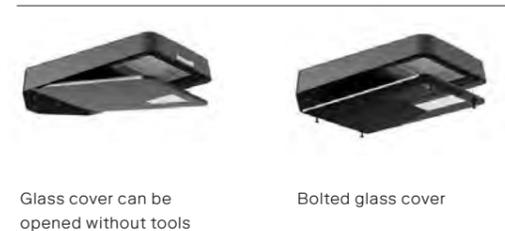
ewoLightLayers (optical accessories)



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] | ⊕ ¹ | ⊖ ² | Weight [kg] ⊕ |
|-------|---------|----------------|----------------|---------------|
| IR1-W | / | 0.12 | 0.04 | 10.0 |
| IR2-W | / | 0.12 | 0.04 | 10.0 |
| IR3-W | / | 0.12 | 0.04 | 10.0 |

⊕ projected windage area [m²] ⊕ max. weight
⊖ lateral windage area [m²]

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 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 | |

A
SERIES

Precision lens optics
* also available in satiné version

T
SERIES

ewoLighTile: 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 |

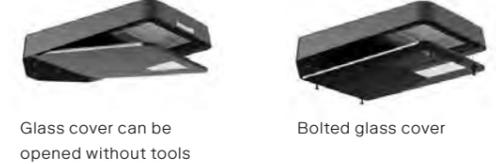
| Model | IR1-W | IR2-W | IR3-W | IR2-W | IR3-W |
|--------------------|-------------|-------------|--------------|-------|-------|
| Light units | 1 | 2 | 3 | 2 | 3 |
| Luminous flux [lm] | 1,000-3,800 | 1,900-7,700 | 2,900-10,900 | 1,800 | 2,700 |

Accessories

ewoLightLayers (optical accessories)



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

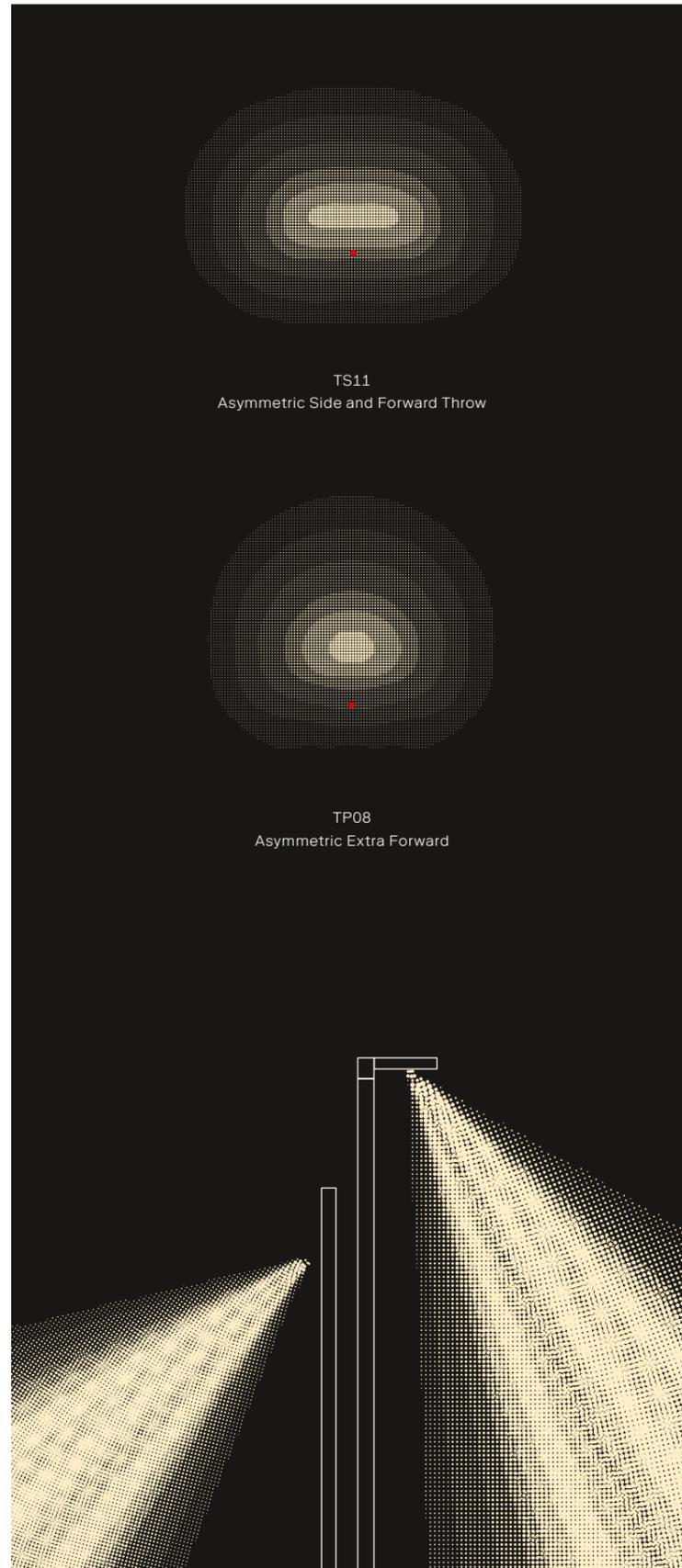
ewoLightTile

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

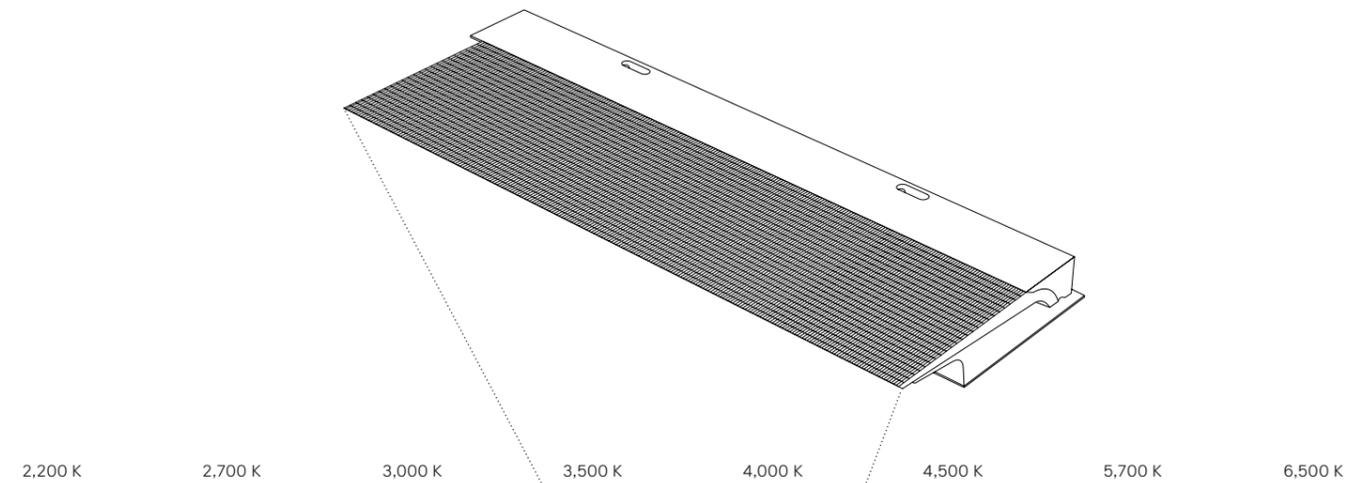
vertical array
luminous range: 3 x LPH

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.

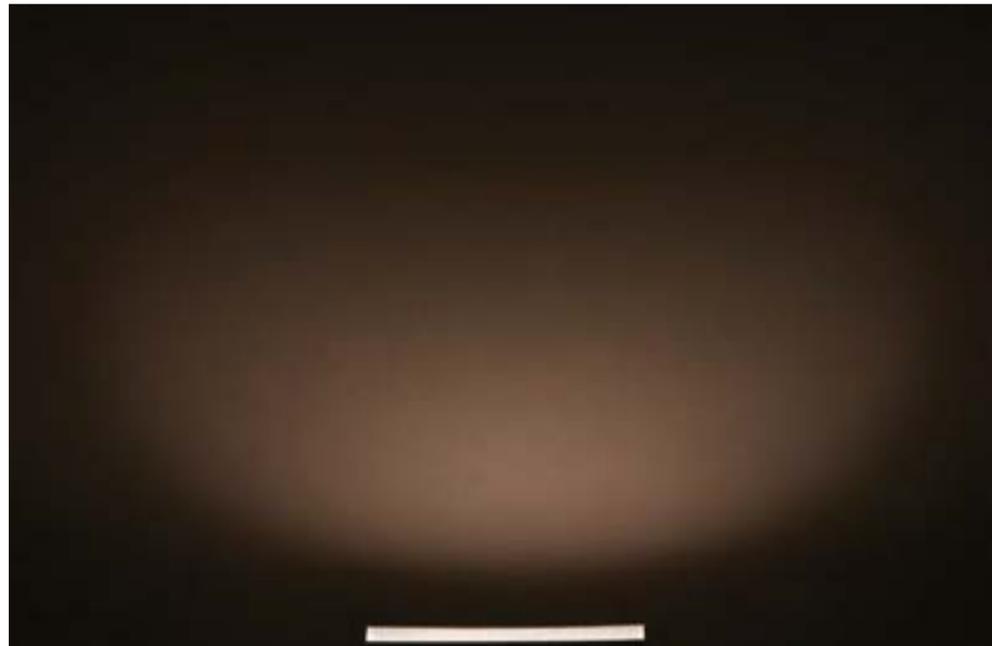


Tunable White
CRI ≥ 80

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



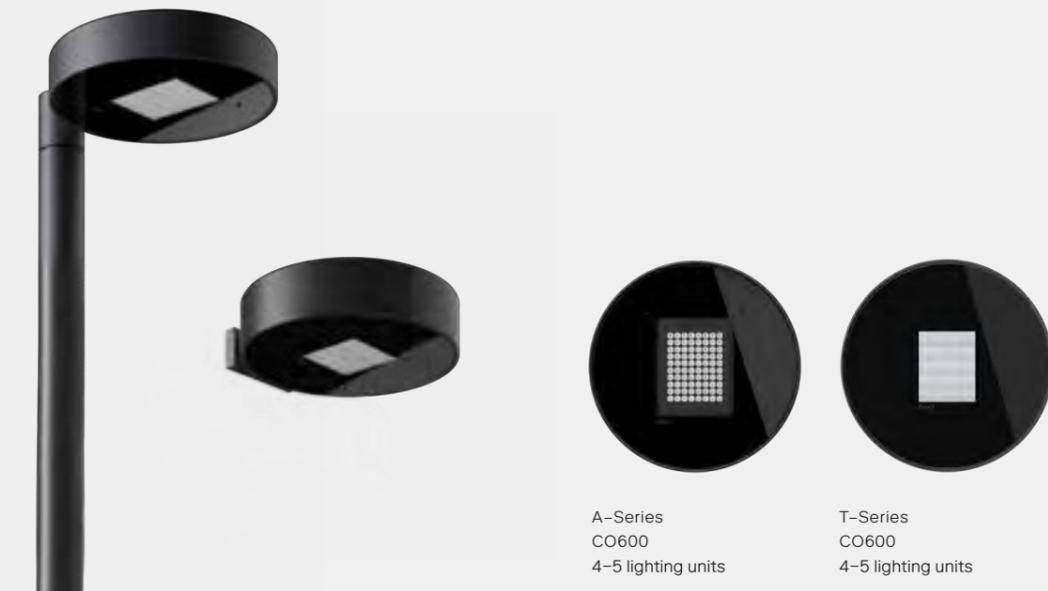
POLE / WALL
CO500
CO500-W



A-Series
CO500
1-4 lighting units

T-Series
CO500
2-4 lighting units

POLE / WALL
CO600
CO600-W



A-Series
CO600
4-5 lighting units

T-Series
CO600
4-5 lighting units

SHAPE OF LIGHT



A
SERIES

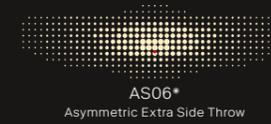
Precision lens optics
* also available in satiné version



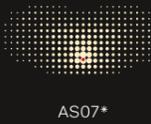
AH02*
Symmetric Wide Flood



AP07*
Asymmetric Extra Forward



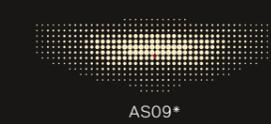
AS06*
Asymmetric Extra Side Throw



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

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 | 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 |
|---------------|

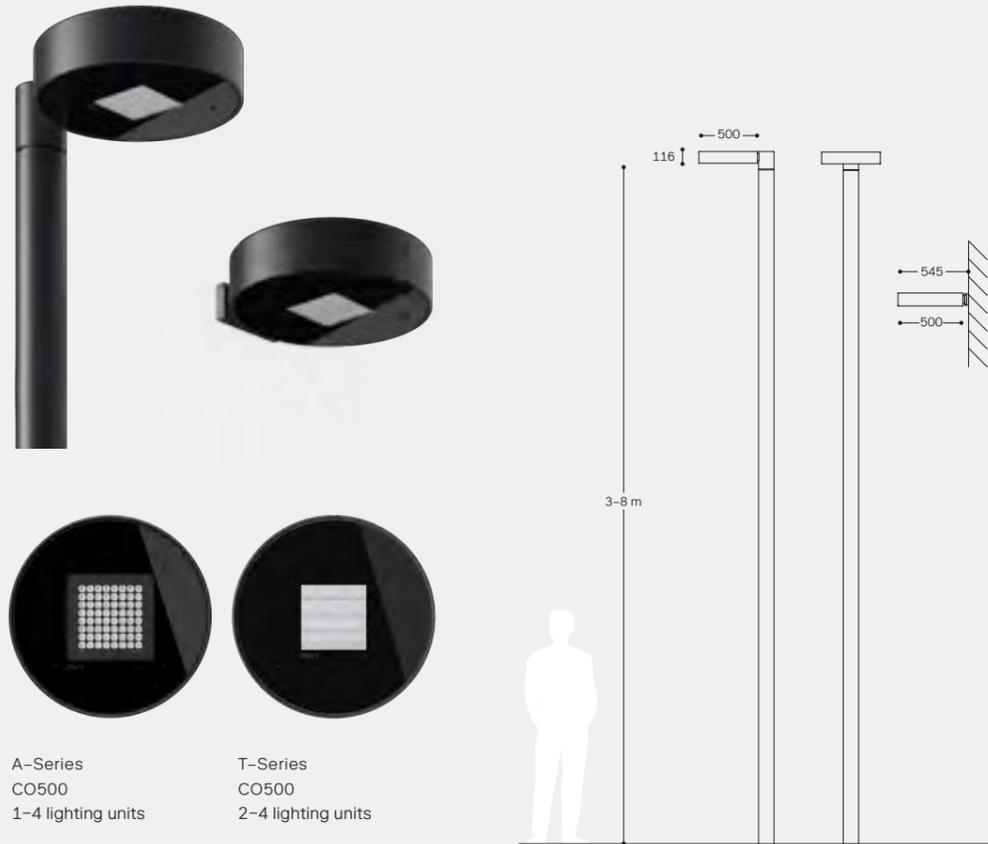
CO500
CO500-W

Public space
Roads and traffic



DB 703
Anthracite

ewo
color



Configurator

CE RoHS IK08

A-Series
CO500
1-4 lighting units

T-Series
CO500
2-4 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 | Aluminum, 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 _p ② | -l _w ③ | Weight [kg] ④ |
|---------|-----------|------------------|-------------------|---------------|
| CO500 | 3-8 | 0.21 | 0.08 | 14 |
| CO500-W | / | 0.20 | 0.06 | 15 |

① in 0.1 m steps ② projected windage area [m²] ③ max. weight ④ 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] | 95 | 48 |

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

Driver

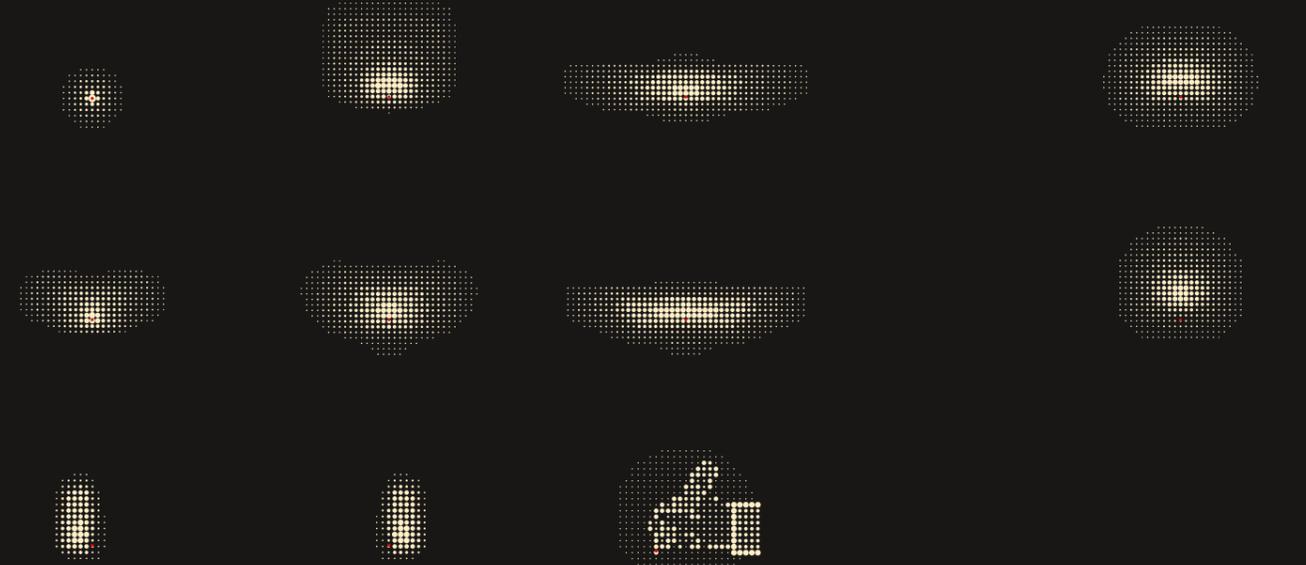
| | A-Series | T-Series |
|------------------------|---|----------|
| Control options | ON/OFF, DALI, 1-10V, L/S | T8, DALI |
| Programming [optional] | Constant Lumen Output (CLO), Emergency power supply (AC/DC), Stand-alone | |
| Control accessories | Further accessories on request | |
| Software |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

A
SERIES

Precision lens optics
* also available in satiné version

T
SERIES

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 | CO500/-W | CO500/-W |
|--------------------|--------------|----------|
| Light units | 1-4 | 2-4 |
| Luminous flux [lm] | 1,000-11,800 | 3,600 |

Available designs (also available as pendant)



Accessories ewoLightLayers (optical accessories)

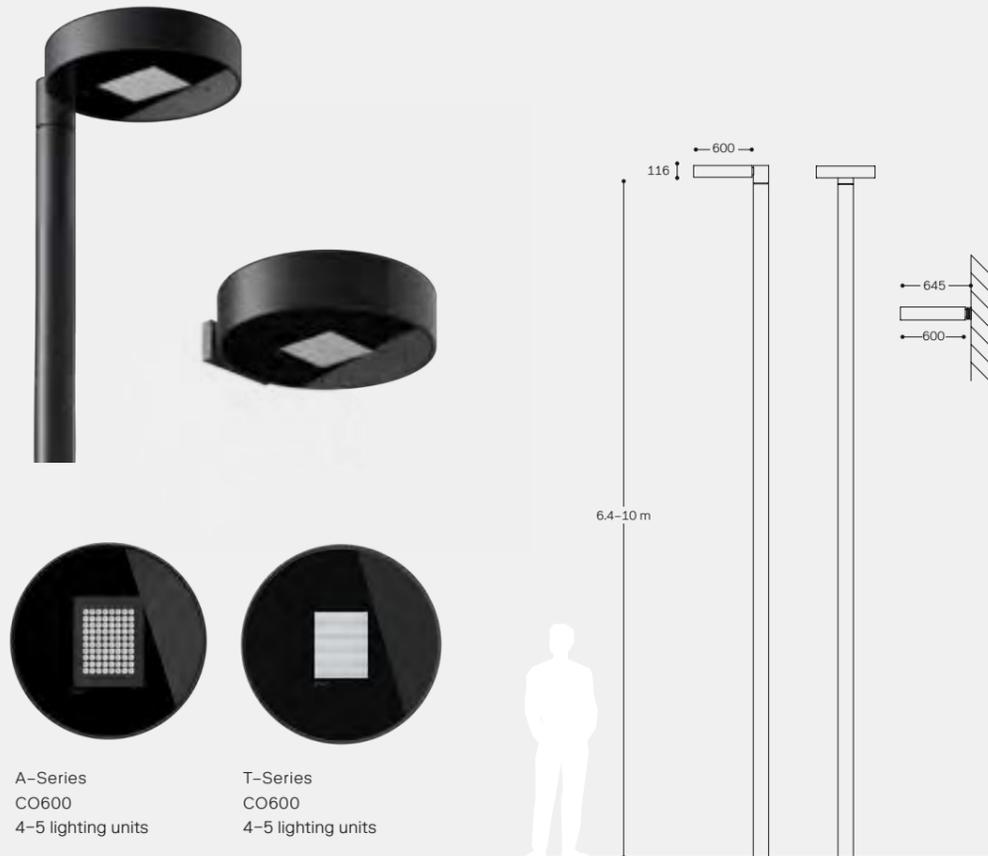


CO600
CO600-W

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 | Aluminum, 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 _p ② | -l _p 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 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 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 | |



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 5,700K 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

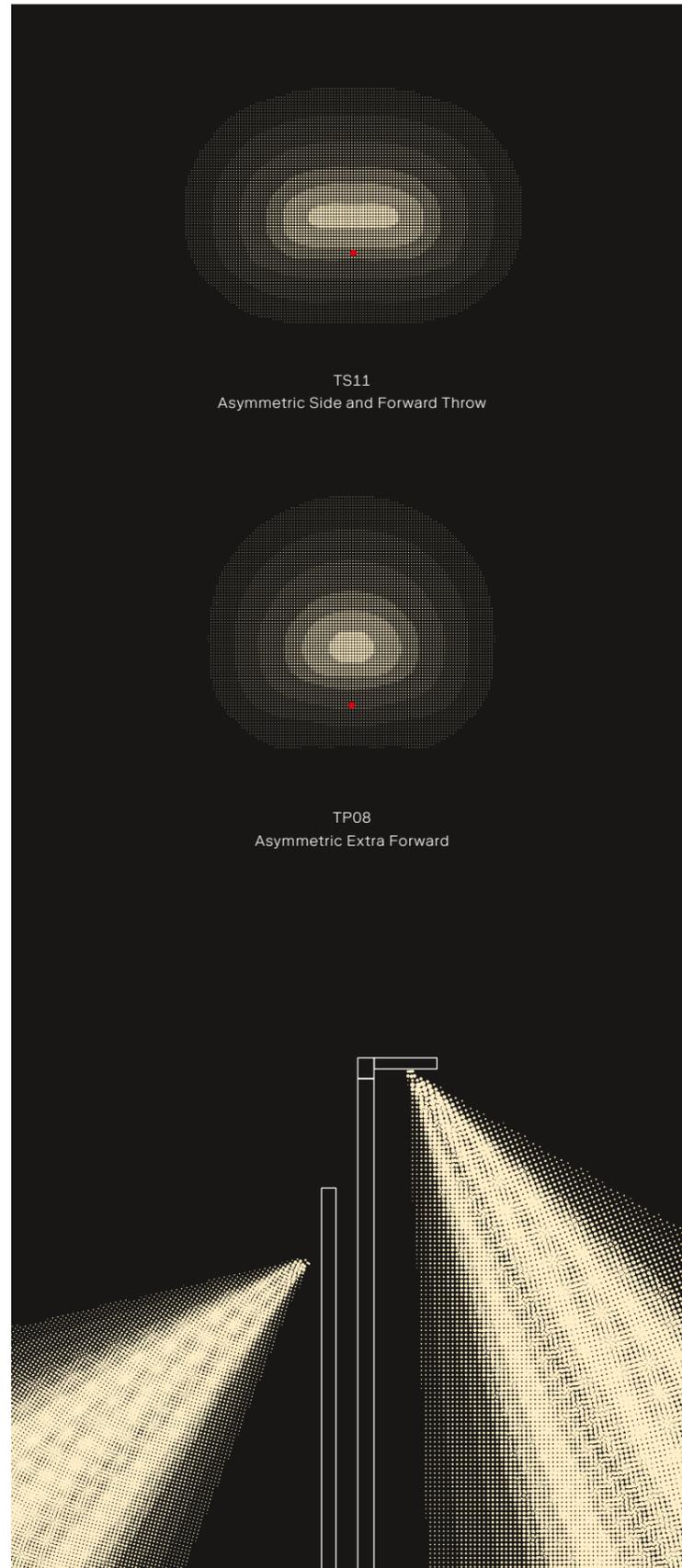
ewoLightTile

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

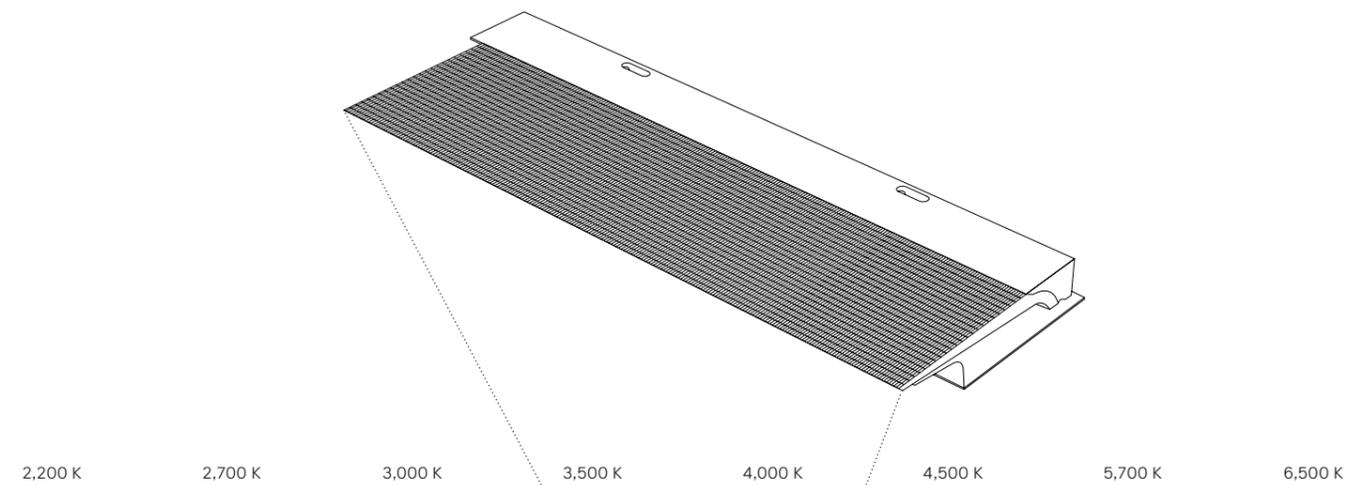
vertical array
luminous range: 3xLPH

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.

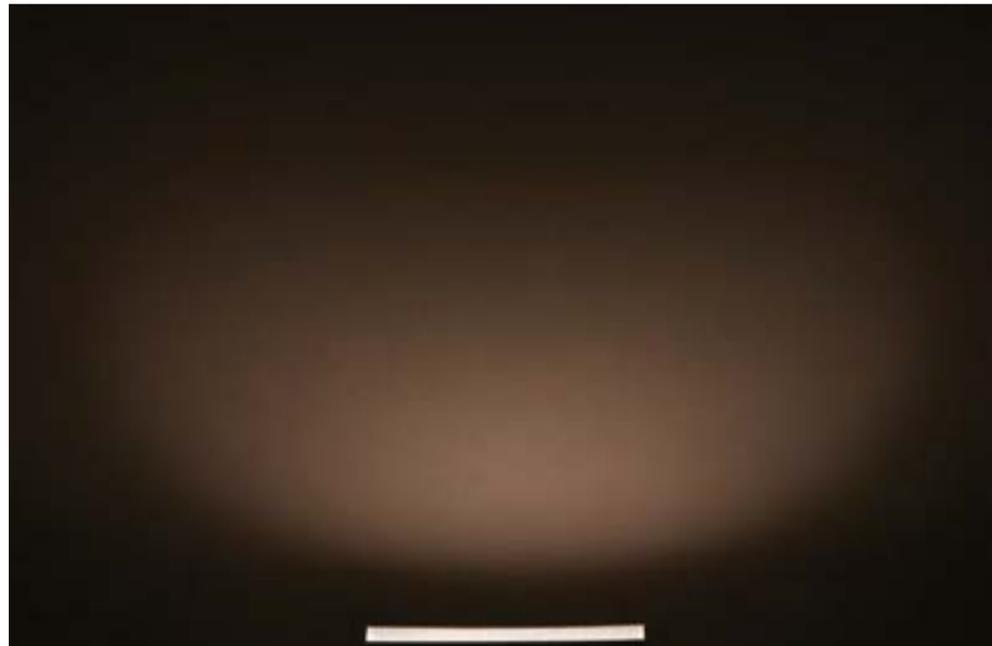


Tunable White
CRI ≥ 80

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



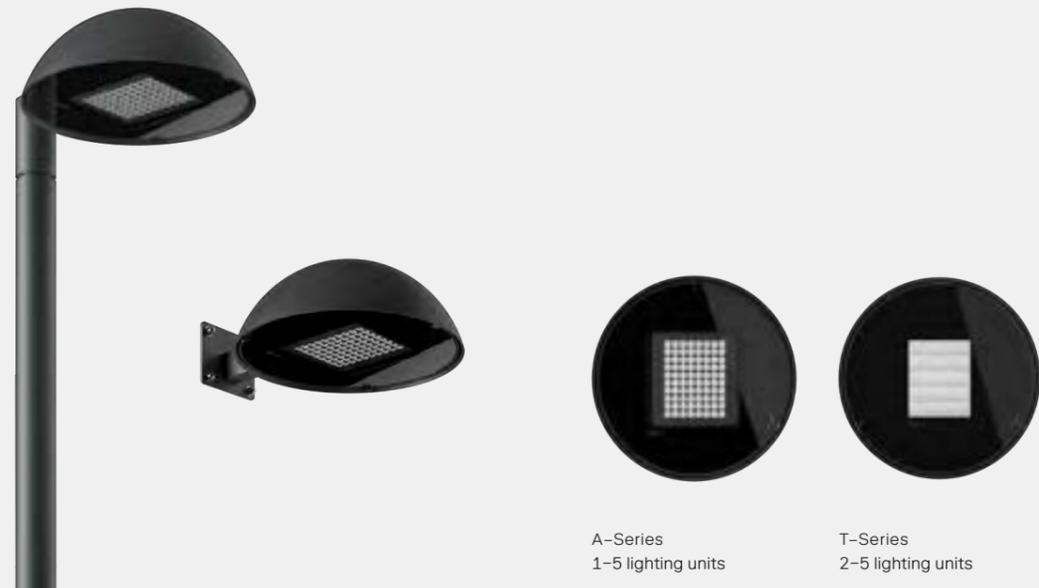
POLE / WALL
DA400
DA400-W



A-Series
1-2 lighting units

T-Series
2 lighting units

POLE / WALL
DA520
DA520-W



A-Series
1-5 lighting units

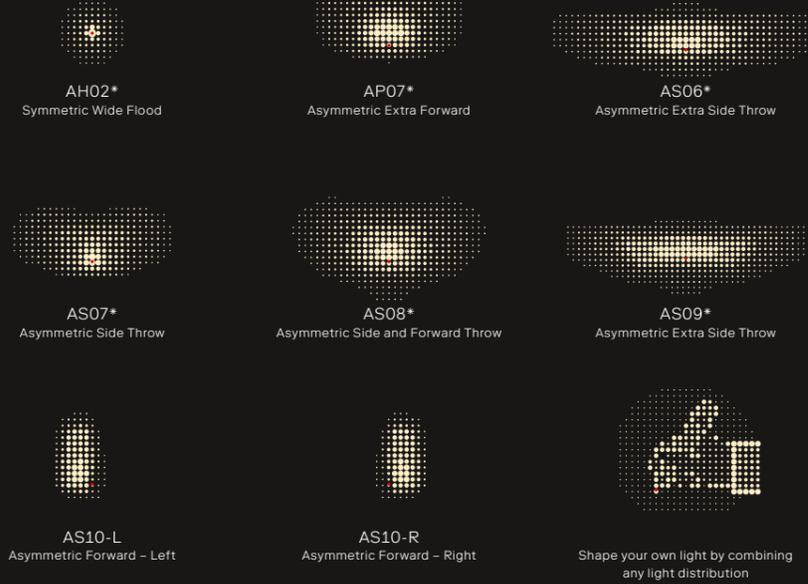
T-Series
2-5 lighting units

SHAPE 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

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

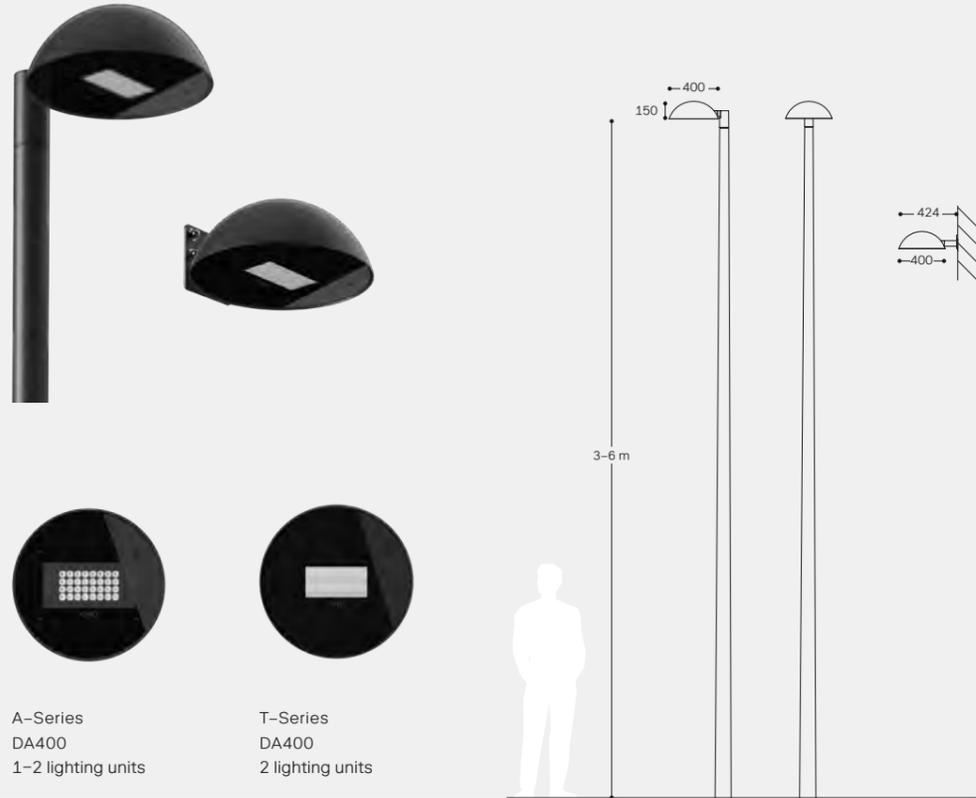
| | |
|-----------|------------|
| DALI 2 T8 | T8 DALI |
|-----------|------------|

Programming options

| |
|---------------|
| Night dimming |
|---------------|

DA400
DA400-W

Public space
Roads and traffic



Configurator



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 _p ② | -l _p 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 configurator for specific lifetime options |
|----------|--|



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 | 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)

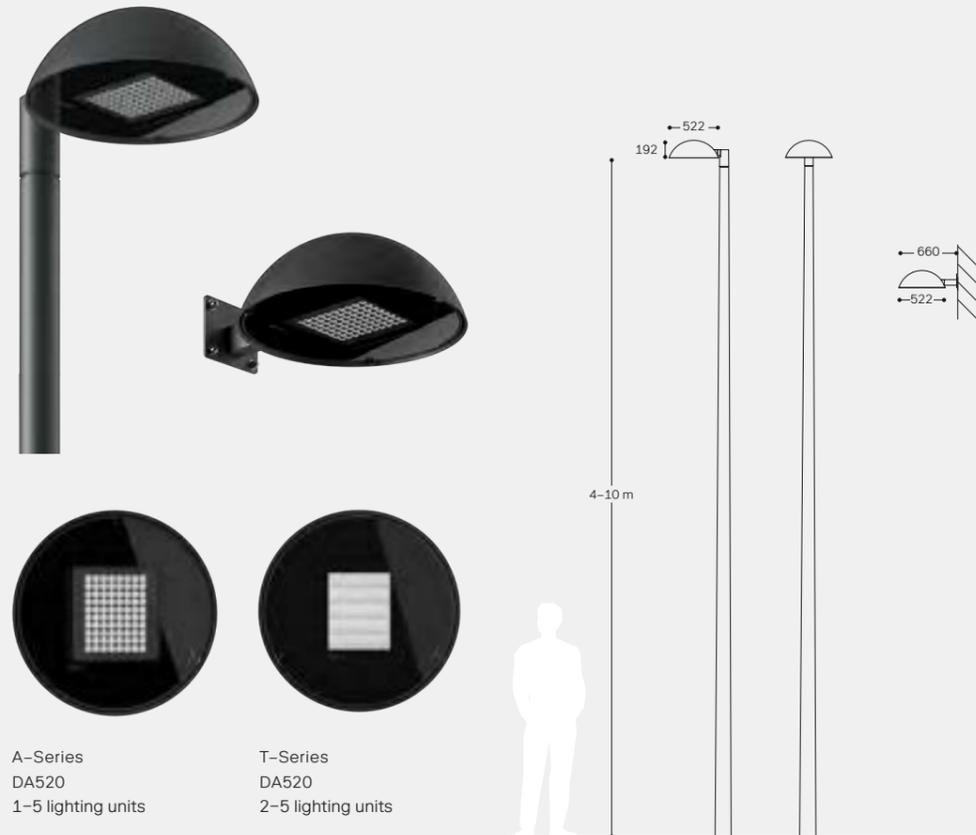


DA520
DA520-W

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 configurator 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

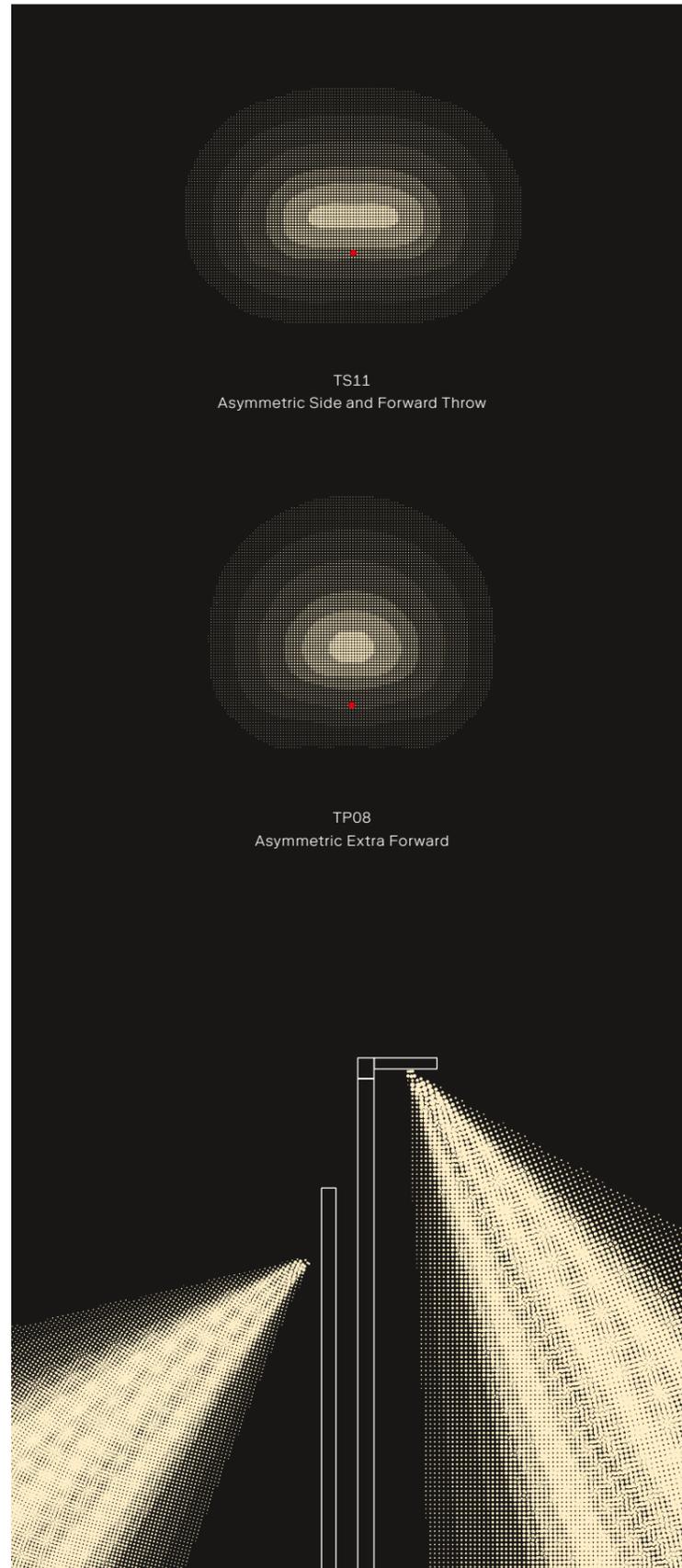
ewoLightTile

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

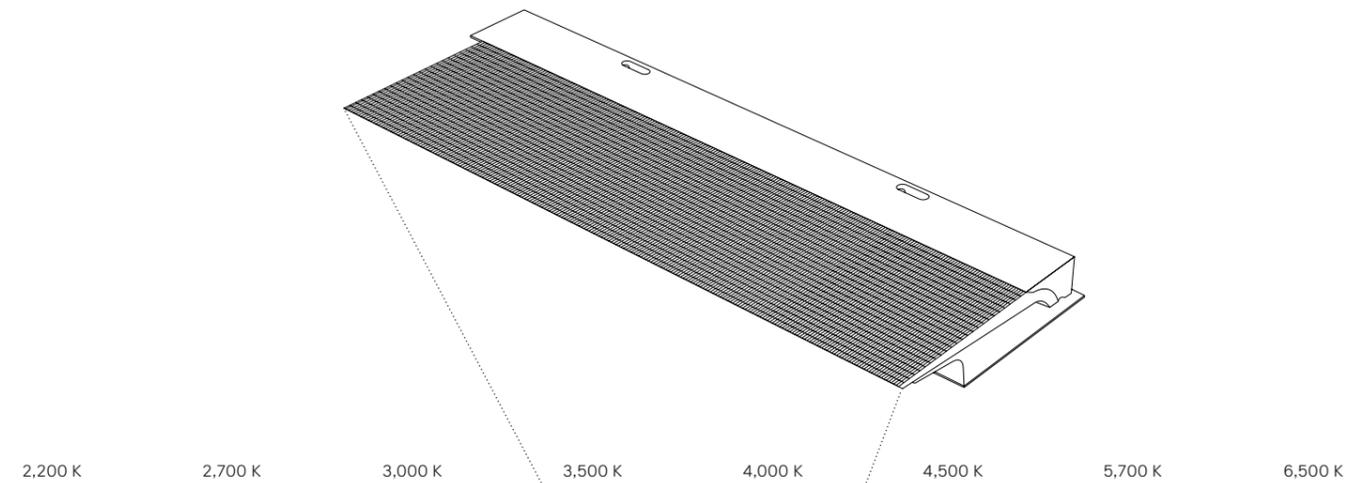
vertical array
luminous range: 3xLPH

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.

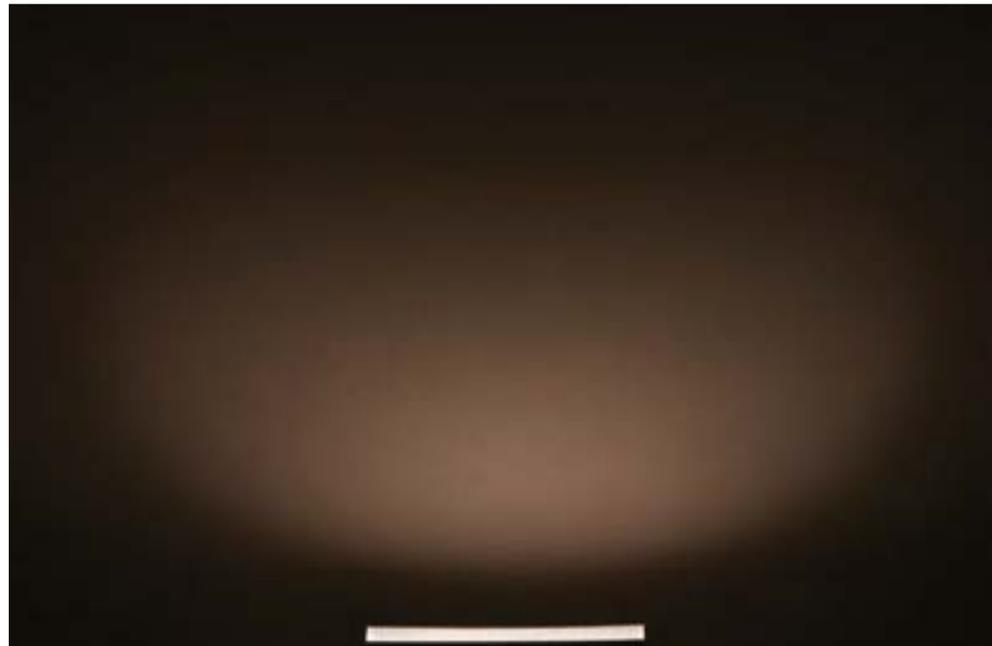


Tunable White
CRI ≥ 80

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.

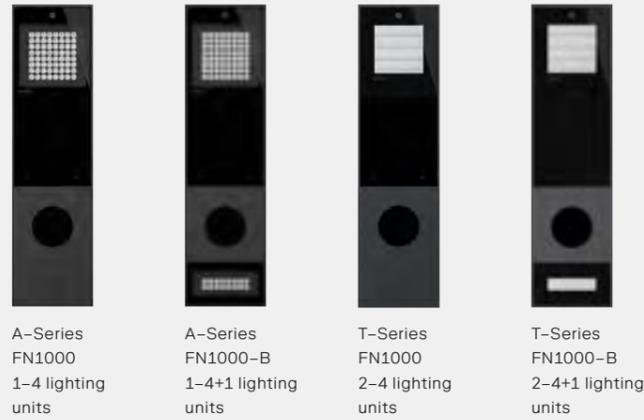


ewoLightTile

BODY OF LIGHT



POLE
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 |
|-----------|---------|

Programming options

| |
|---------------|
| Night dimming |
|---------------|

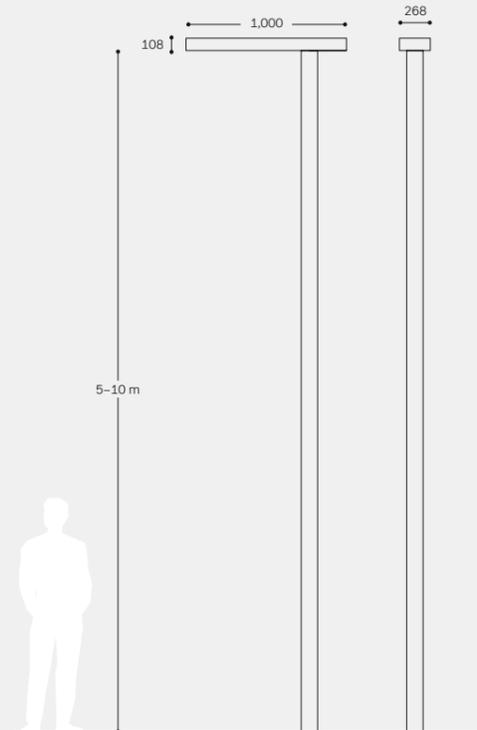
POLE
FN1000
FN1000-B

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 * 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 _p ② | -l _p 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 [m²] ③ lateral windage area [m²] ④ max. weight 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] | 700 | 225 |
| LED power max. [W] | 174 | 60 |

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

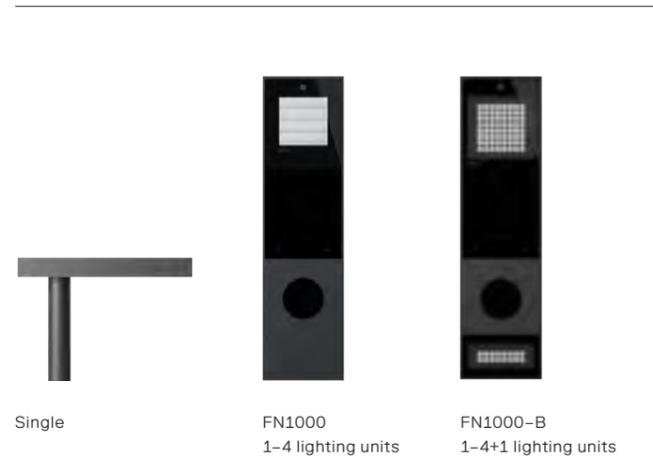
2,200 K CRI ≥ 70 2,700 K CRI ≥ 70 3,000 K CRI ≥ 80 4,000 K CRI ≥ 70 5,700 K CRI ≥ 70 CRI ≥ 80 on request Tunable White CRI ≥ 80 RGB

Performance

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

Available designs



Accessories

ewoLightLayers (optical accessoires)



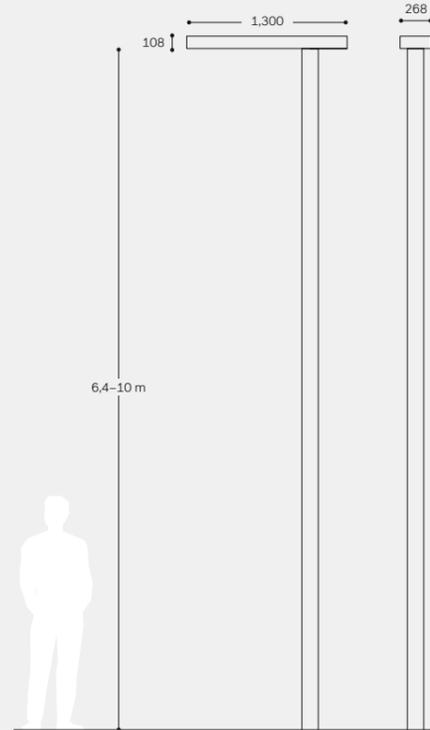
POLE
FN1300
FN1300-B

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 ^p ② | -l ^s 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 [m²] 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 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

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 RGB

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 |
| Lumious flux [lm] | 4,700-19,100 | 5,700-22,300 | 5,500 | 6,400 |

Available designs



Accessories

ewoLightLayers (optical accessoires)



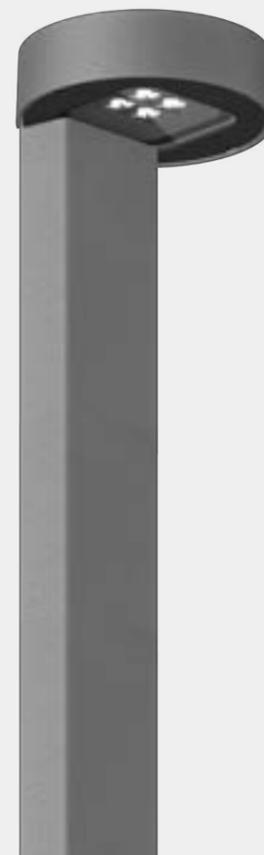


ARCHITECTURE AND THE ARTS
PUBLIC SPACE

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.

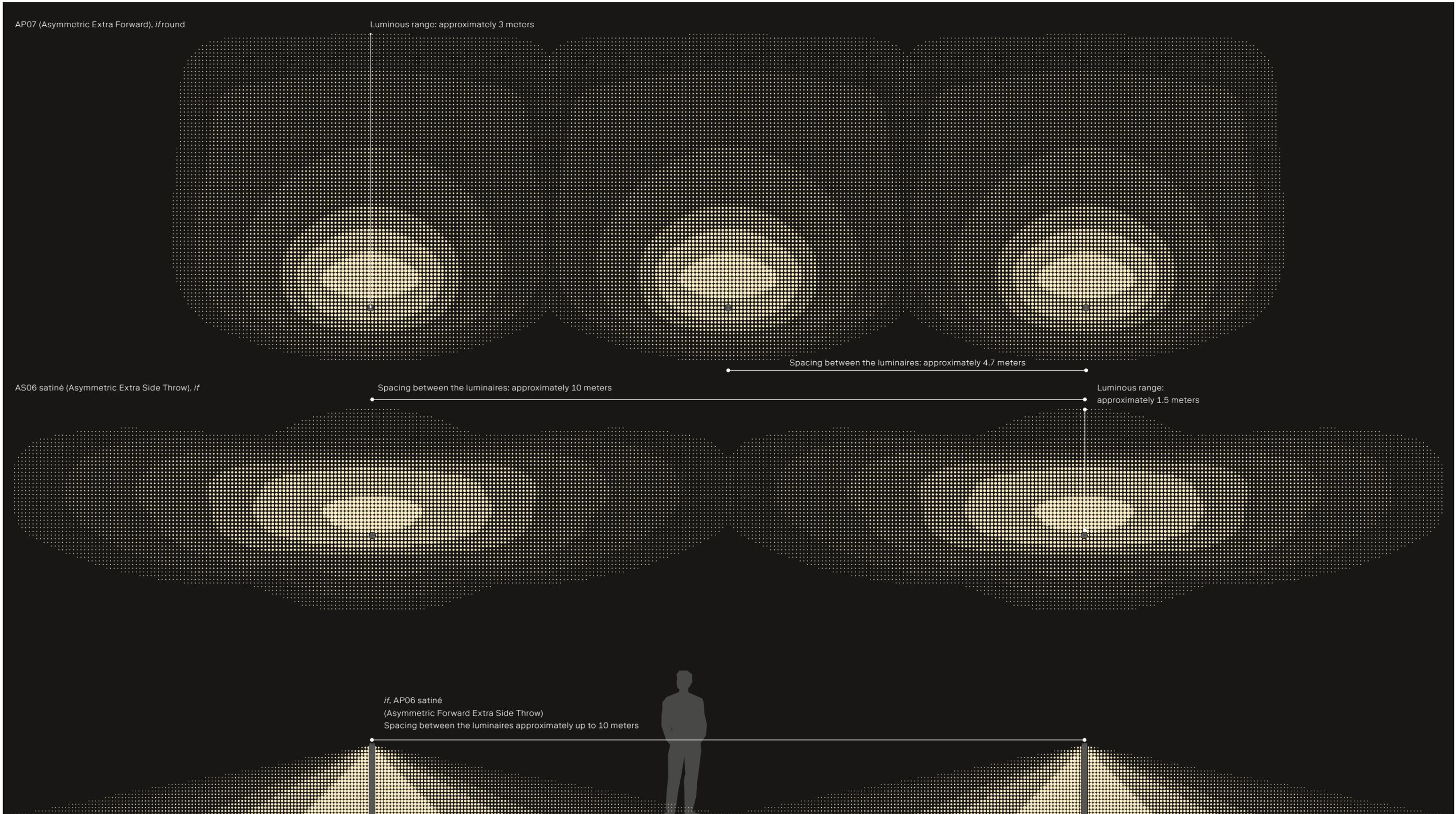




Luminous range – unrivalled efficiency

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

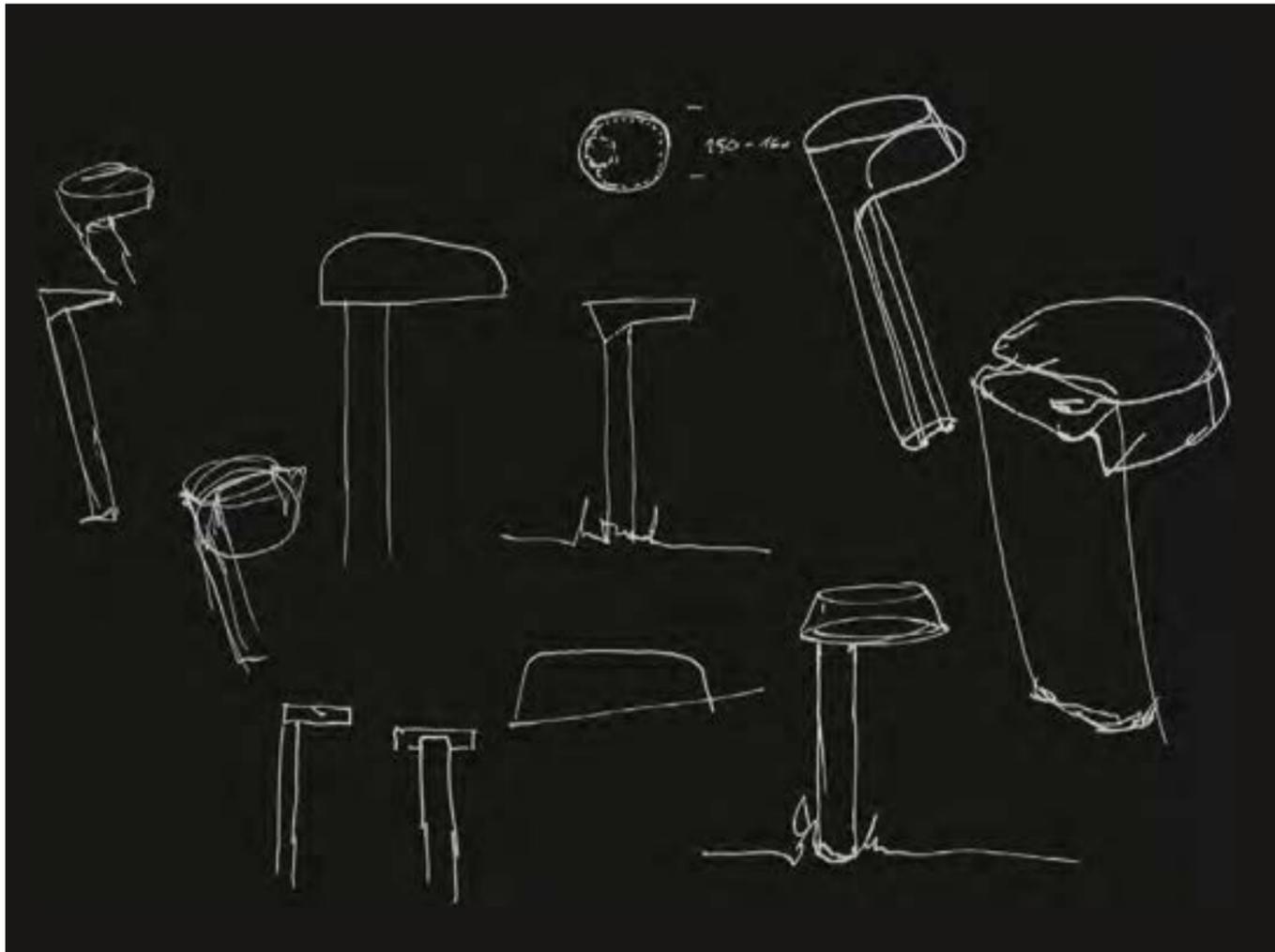


“Our motivation was to develop a simple bollard luminaire that, thanks to its sleek elegance, can discreetly be integrated into any environment. The design links opposites in complete harmony: soft spheres on the vertical plane and clear cuts at the horizontal level.”

— Moritz Kessler, product designer



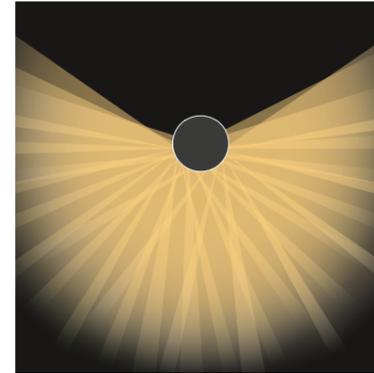
“In the housing, the shaft and the head are linked by a joint – a smooth connecting detail with a decidedly natural look. If is uncompromising in its shape and construction.”



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



BODY OF LIGHT



SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



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

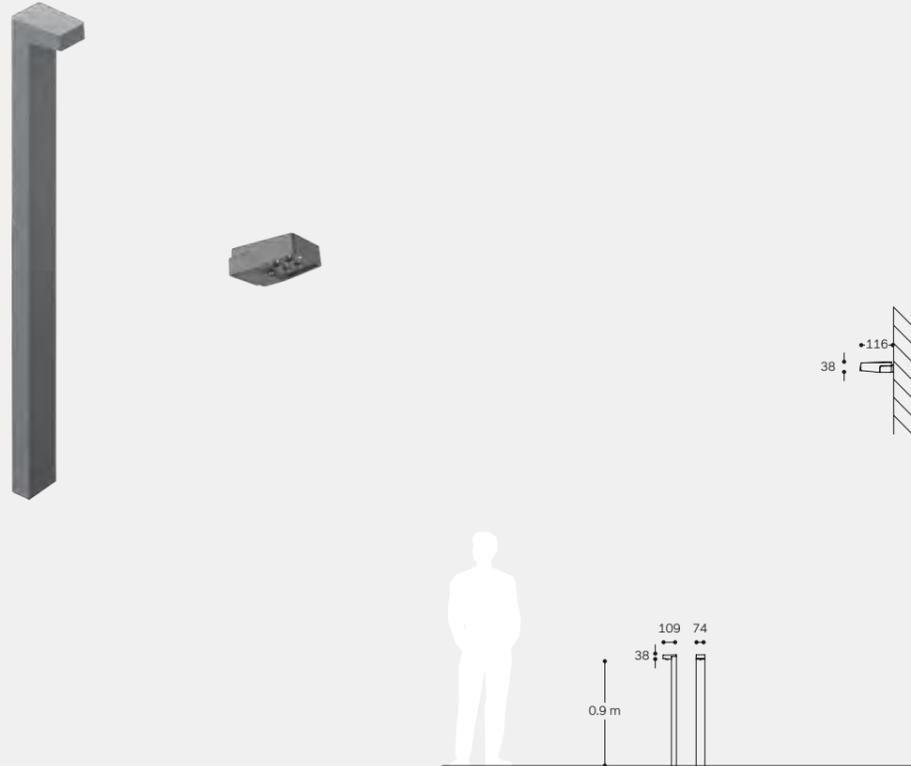


Control protocols

ON/OFF



Architecture and the arts
Public space



Configurator

CE RoHS 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 ^p ② | -l ^w 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 [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] | 250 |
| LED power max. [W] | 5 |

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

Driver

A-Series

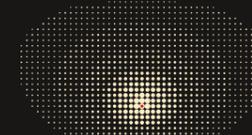
| | |
|---------------------|--|
| Control options | ON/OFF |
| Control accessories | Further accessories on request |
| Software | connex light management software for remote management of intelligent luminaire clusters |



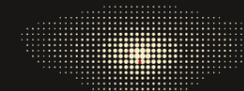
Precision lens optics



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

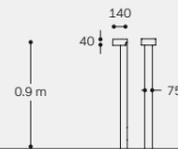
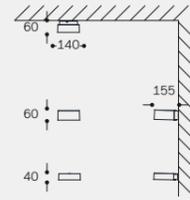


Ground spike

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

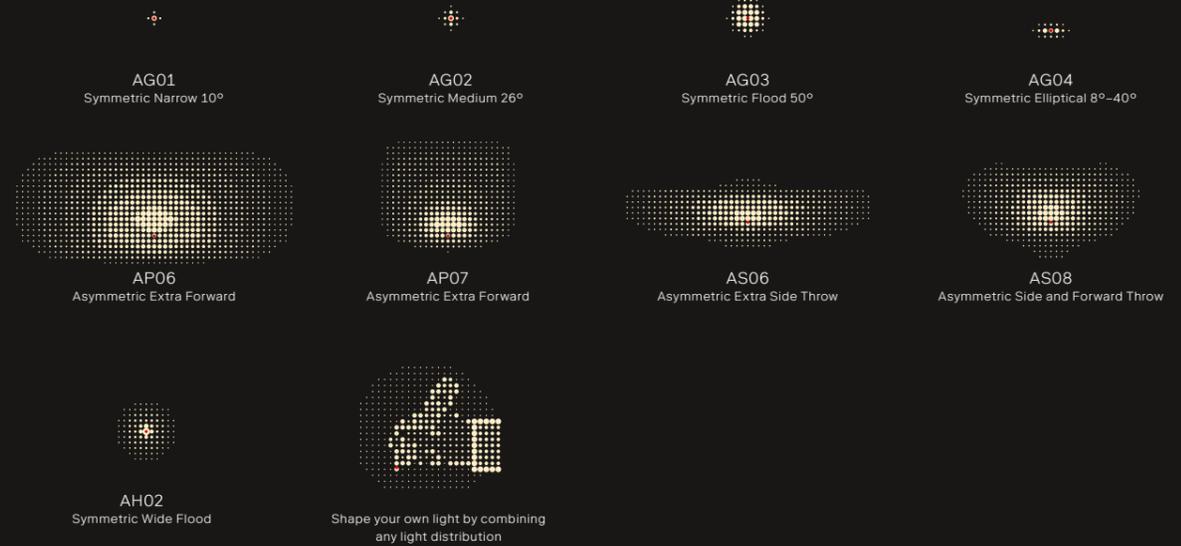
| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

Driver

| A-Series | |
|---------------------|--|
| Control options | <input type="checkbox"/> ON <input type="checkbox"/> 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



Accessories





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



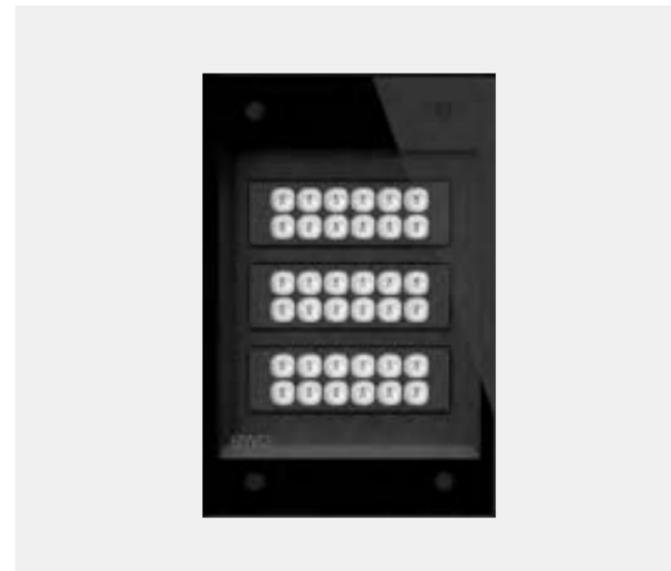
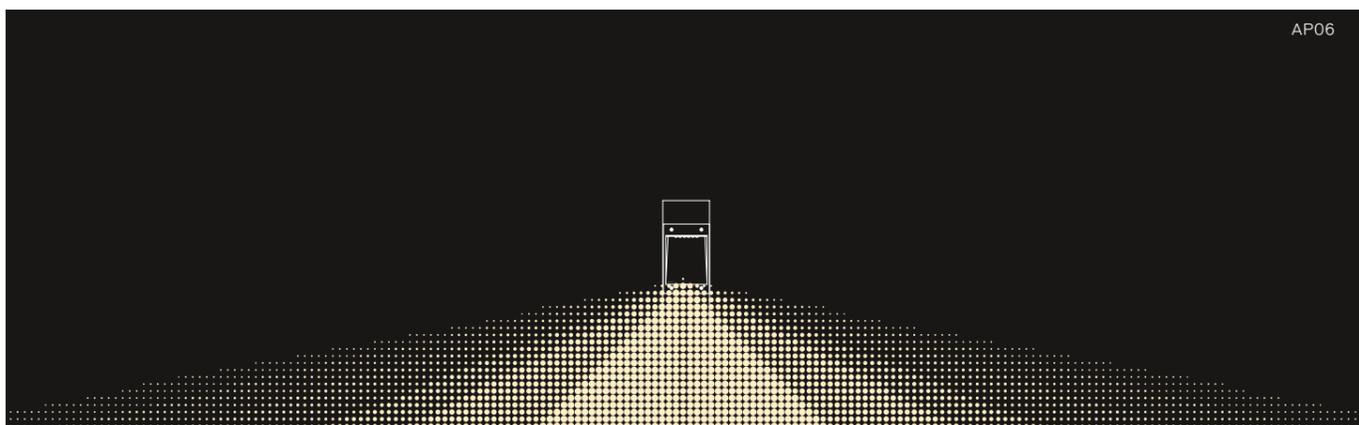
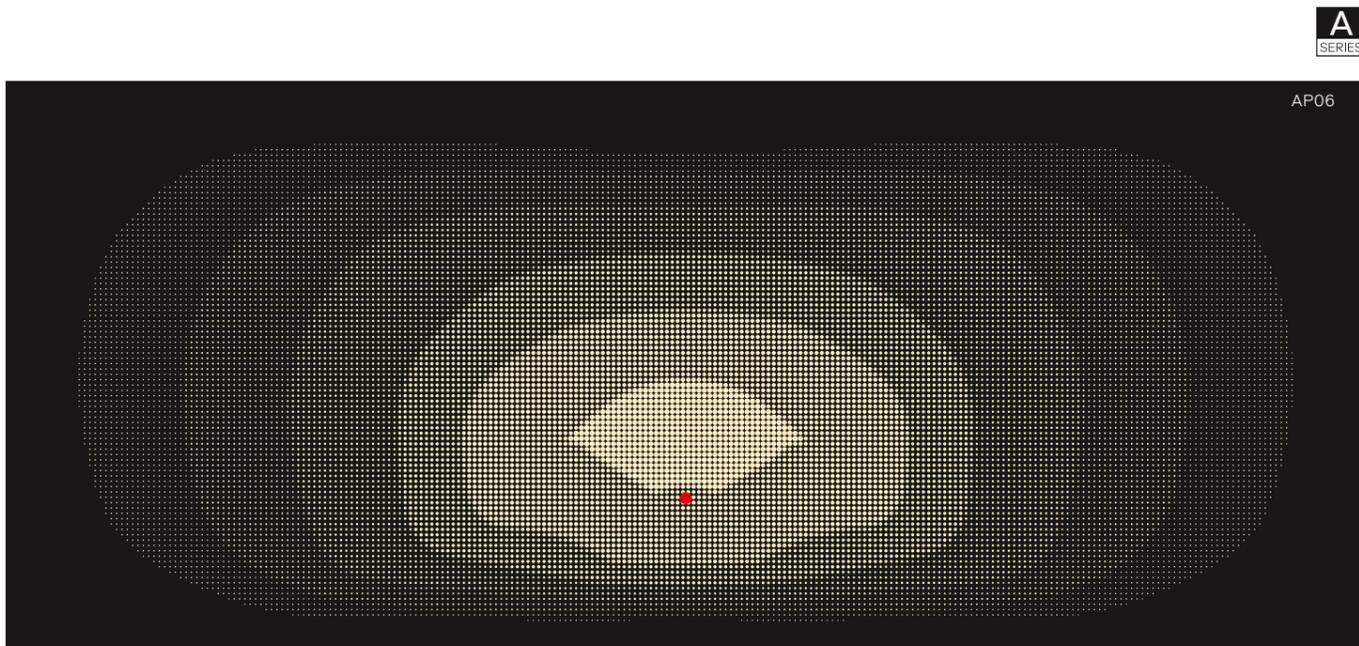
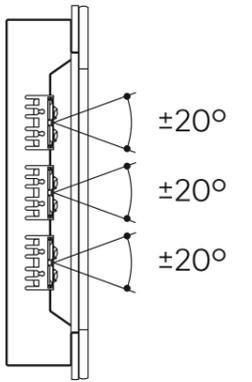
XAL COMPETENCE CENTER
Graz, Austria, 2011–2013
XAL
FA, EL

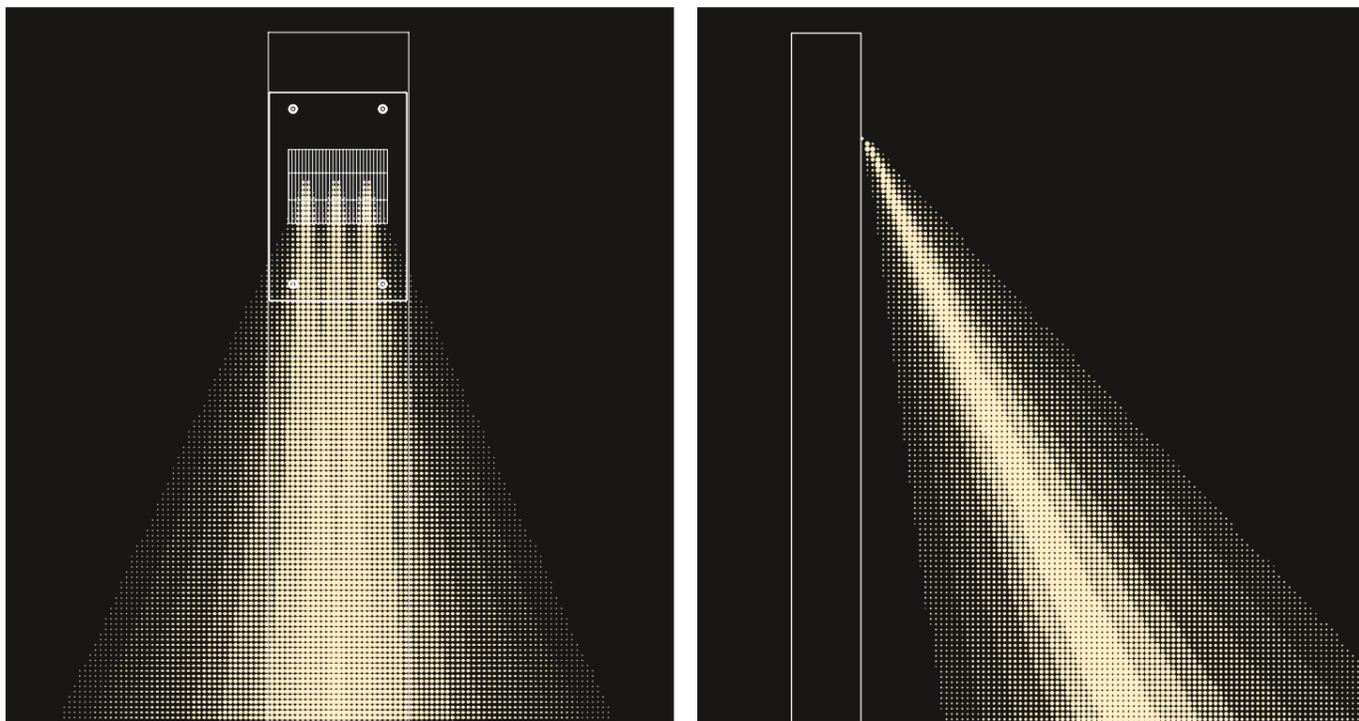
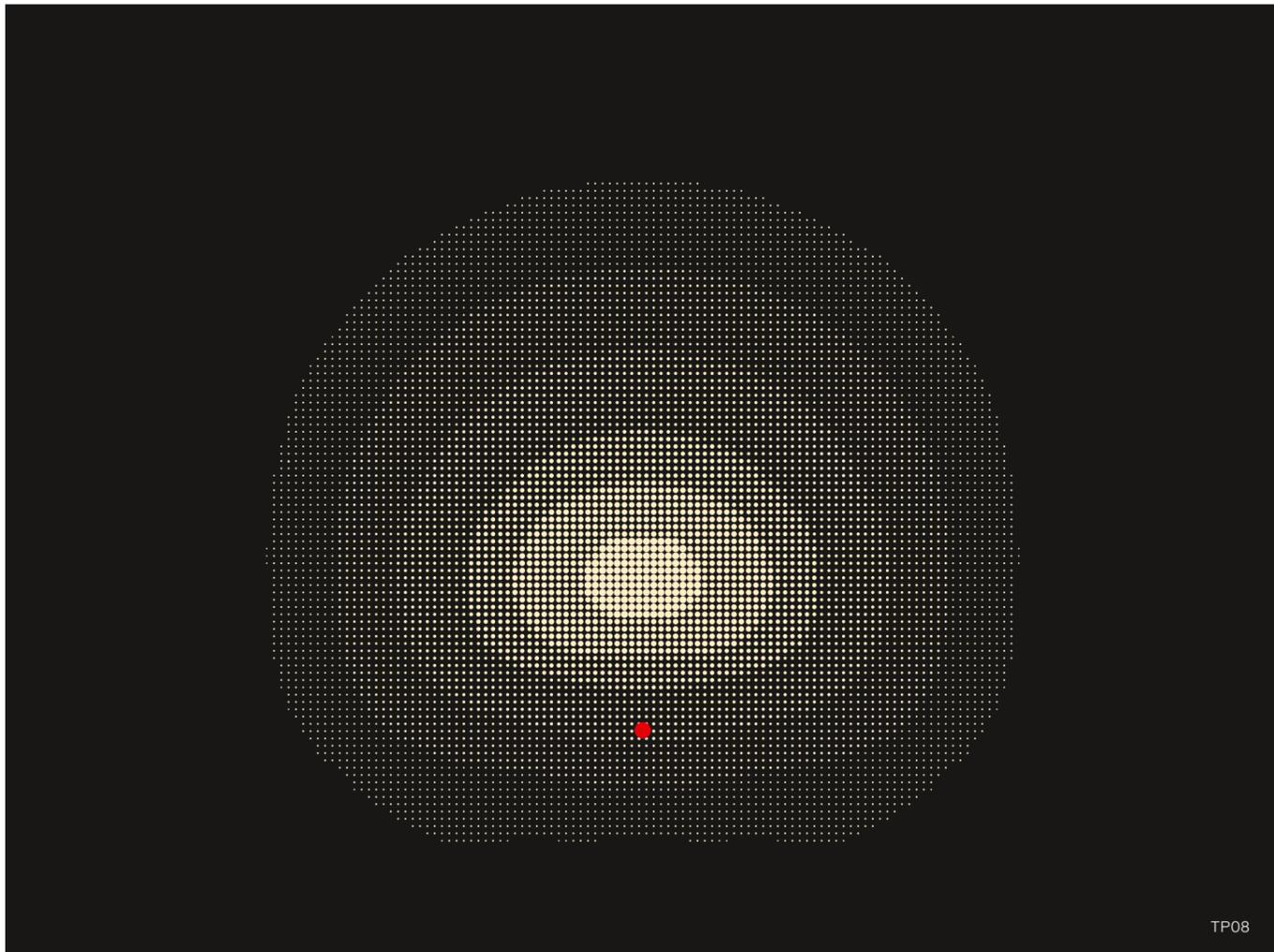




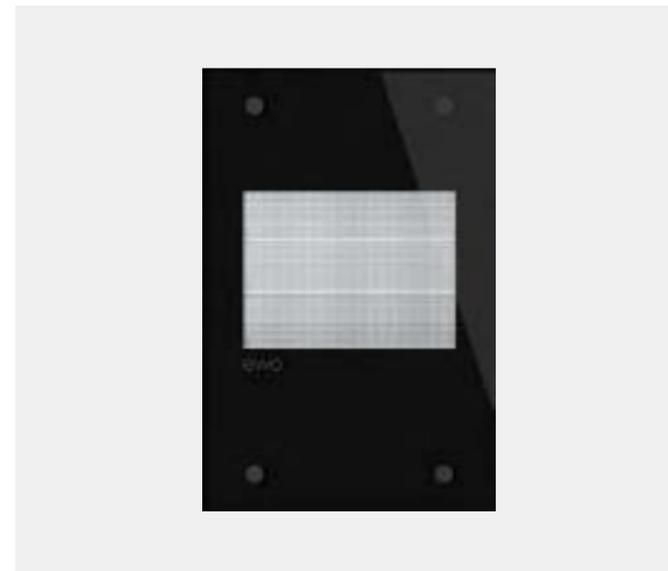
The EL family is compatible with ewo's A-Series precision lens optic or ewoLightTile, low glare light guiding panels. Fitted with A-Series optics, the EL becomes an ideal luminaire for street-lighting and pathway applications. The homogenous yet precise ewoLightTile optics on the other hand, brings dynamic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





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

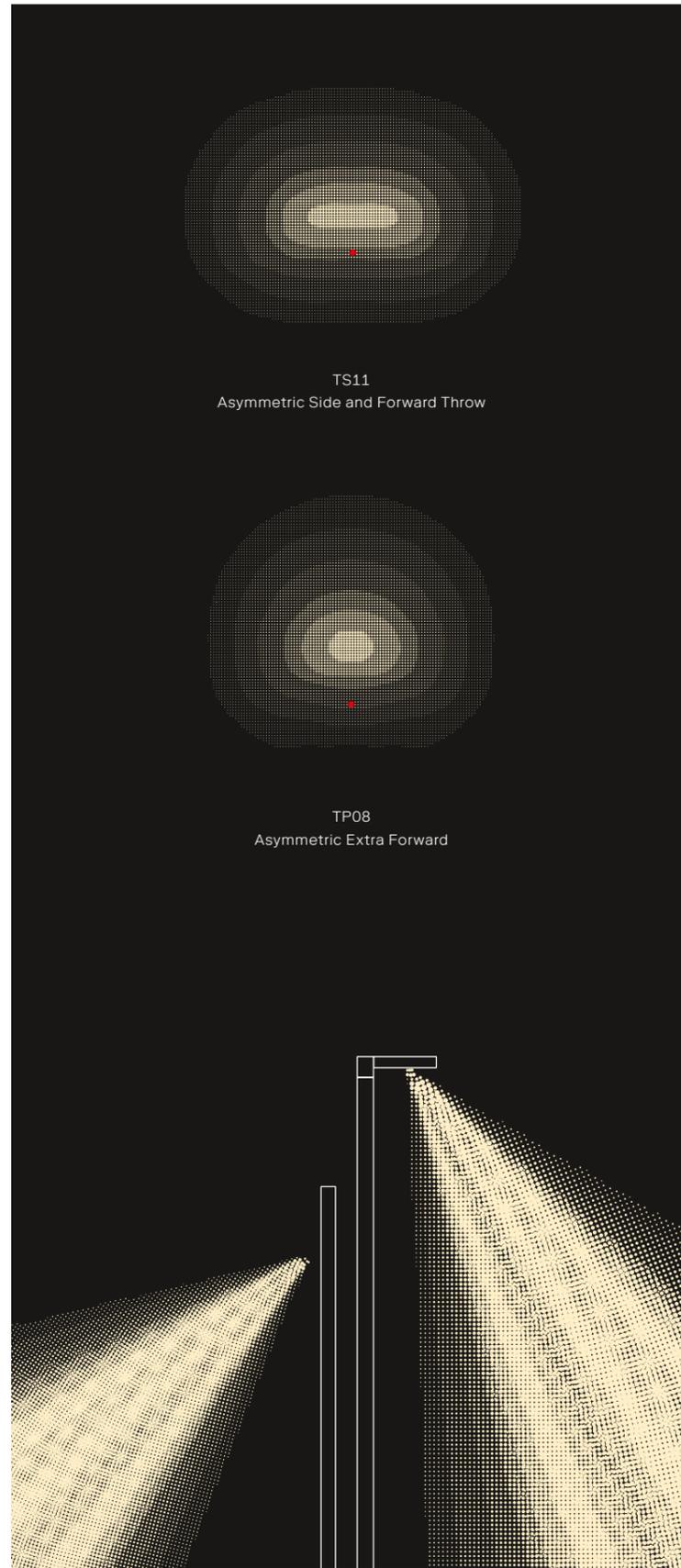
ewoLightTile

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

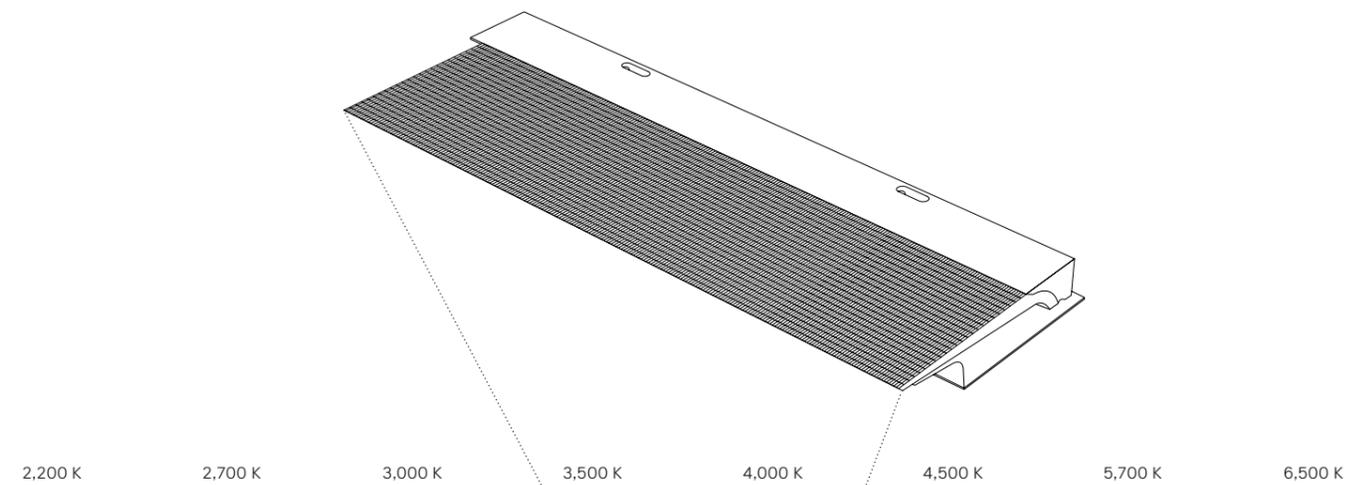
vertical array
luminous range: 3 x LPH

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.

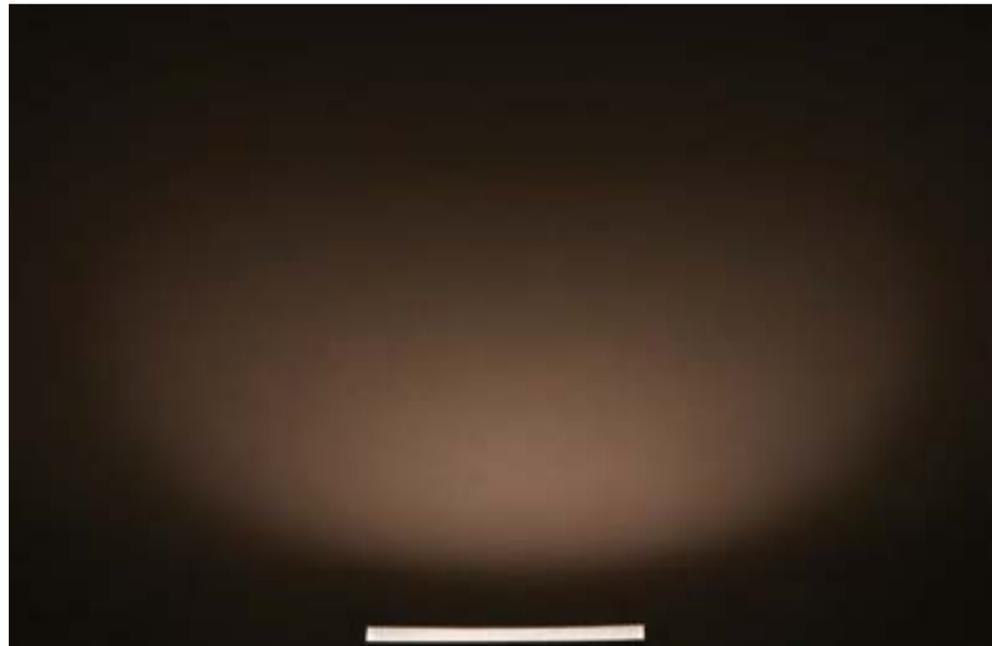


Tunable White
CRI ≥ 80

RGBW



TP08

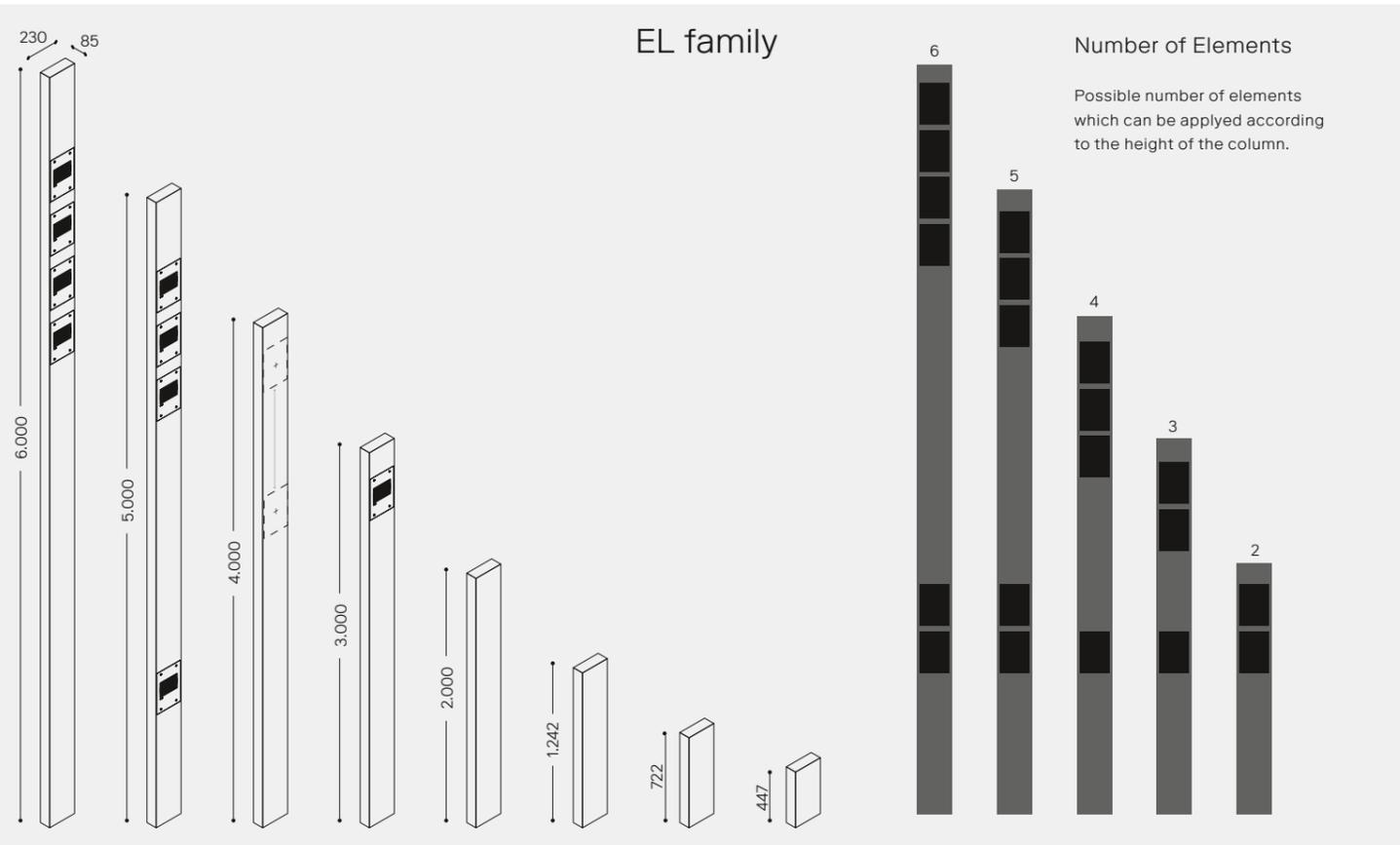


TS11

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



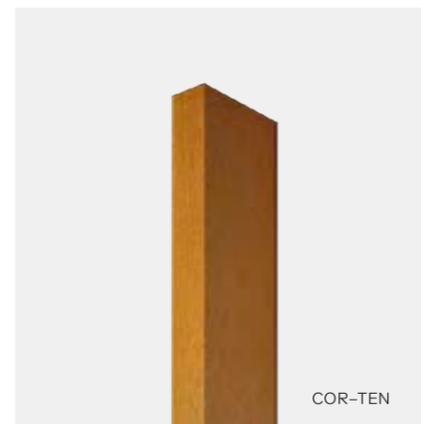
Function

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.



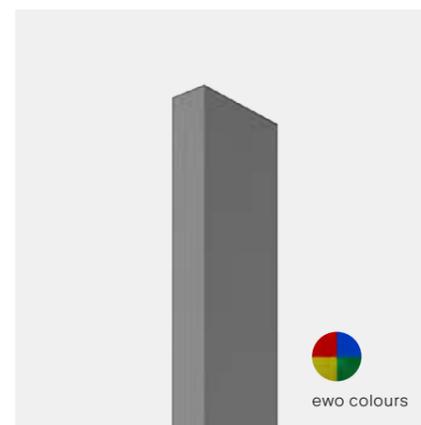
Form

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.



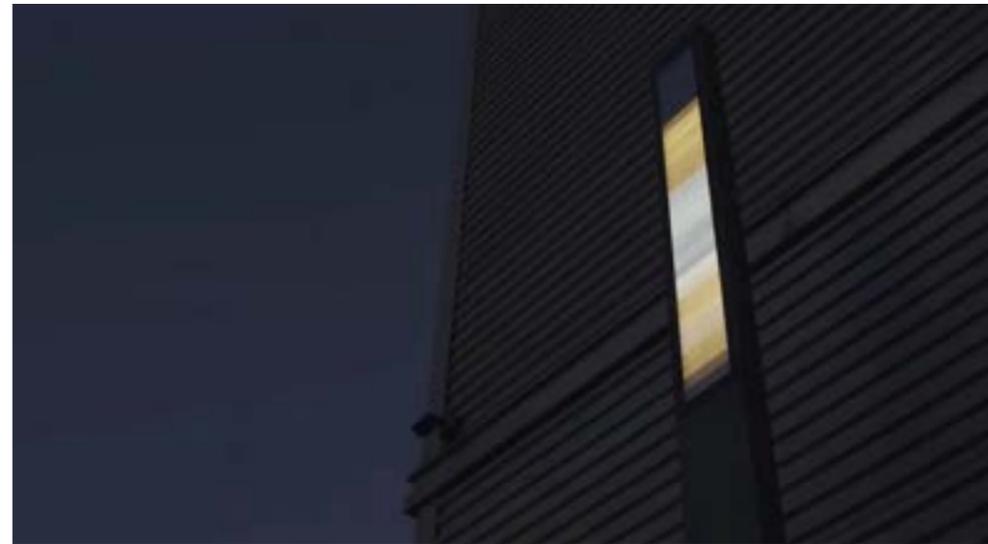
Finish

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.

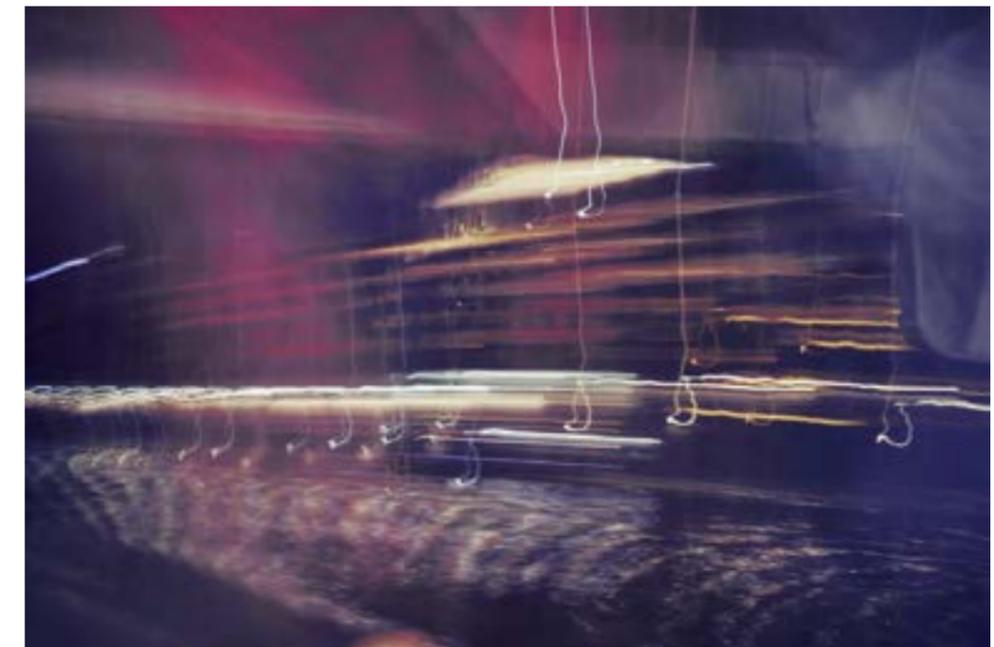


Play with colour

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



SHAPE OF LIGHT



INTELLIGENCE 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

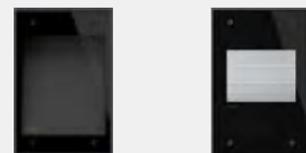


A-Series
1 recessed
lighting unit

A-Series
1-3 lighting
units

T-Series
2-3 lighting
units

WALL
EL-W

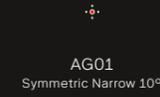


A-Series
1 recessed
lighting unit

T-Series
2-3 lighting
units

A
SERIES

Precision lens optics
* also available in satiné version



AG01
Symmetric Narrow 10°



AG02
Symmetric Medium 26°



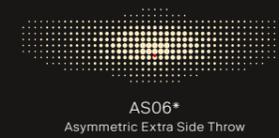
AG03
Symmetric Flood 50°



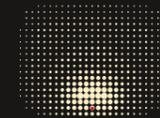
AG04
Symmetric Elliptical 8°-40°



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

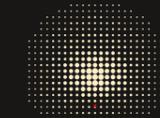


T
SERIES

ewoLighTile: low glare light-guiding panels



TS11
Asymmetric Side and Forward Throw



TP08
Asymmetric Extra Forward



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 | |

T
SERIES

Control protocols

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

Programming options

| |
|---------------|
| Night dimming |
|---------------|

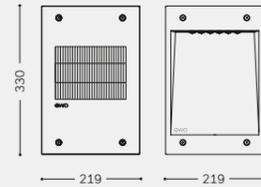
EL Bollard

EL380
EL710
EL1250

Architecture and the arts
Public space



- DB 703 Anthracite
- ewo color



[Configurator](#)

CE RoHS IP66 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] | ⊕ ¹ | ⊖ ² | Weight [kg] |
|--------|---------|----------------|----------------|-------------|
| EL380 | / | 0.02 | 0.10 | 13.5* |
| EL710 | / | 0.02 | 0.17 | 17.0* |
| EL1250 | / | 0.02 | 0.29 | 27.0* |

¹ projected windage area [m²] * buried base included
² lateral windage area [m²]

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 configurator 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 | |



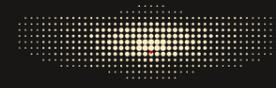
Precision lens optics



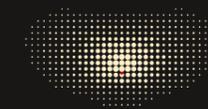
ewoLightTile: low glare light-guiding panels



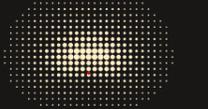
AP07 satiné
Asymmetric Extra Forward



AS06 satiné
Asymmetric Extra Side Throw



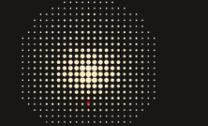
AS08 satiné
Asymmetric Side and Forward Throw



TS11
Asymmetric Side and Forward Throw



Shape your own light by combining any light distribution



TP08
Asymmetric Extra Forward

- 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

| 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

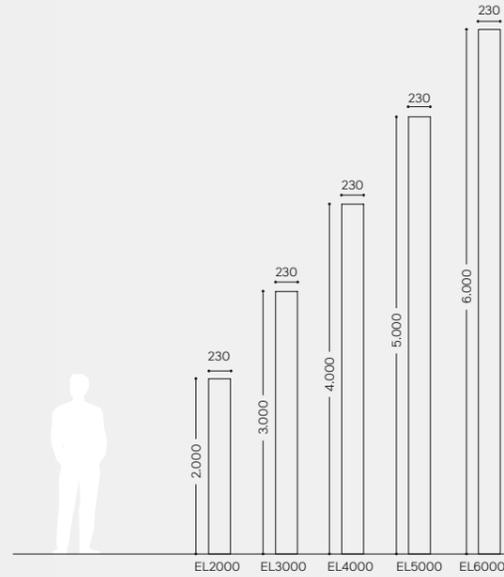
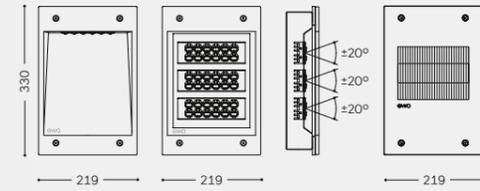
Architecture and the arts
Public space



- DB 703 Anthracite
- ewo color

Configurator

CE IP66 RoHS IK10



Precision lens optics
* also available in satiné version



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 _p ① | -l _p 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 [m²]
② lateral windage area [m²]
* telescopic element included with anchor cage

Performance

| Optics | AG01 | AG02 | AG03 | AG04 | AH02 | AS06 | AP07 | AS07 | AS08 | TS11 | TP08 |
|-------------------------|----------|------|------|------|------|------|------|------|------|------|------|
| MacAdam ellipses (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 configurator 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

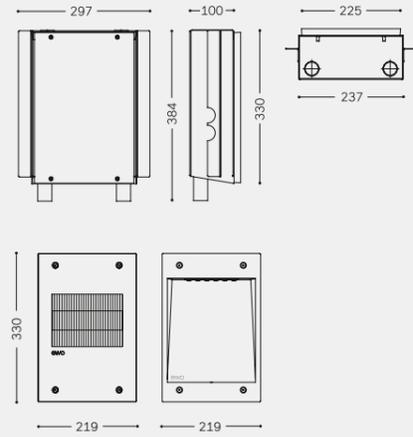
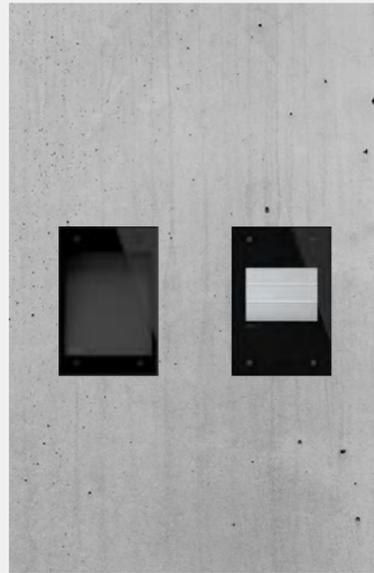
COR-TEN steel

Combinations with FA

EL Wall

EL-W

Recessed walkway lighting



[Configurator](#)

CE IP66 RoHS IK10



Precision lens optics



ewoLightTile: low glare light-guiding panels



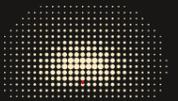
AP07 satiné
Asymmetric Extra Forward



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

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 RGB

Housing

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

Measurements

| Model | LPH [m] | ↑ _P | ↓ _P | Weight [kg] |
|-------|---------|----------------|----------------|-------------|
| EL-W | / | / | / | 6.0 |

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 |

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 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 | |

Models/equipment variations



A-Series
Pedestrian path
Accent lighting element
1 lighting unit



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



ARCHITECTURE AND THE ARTS
PUBLIC SPACE

ZA

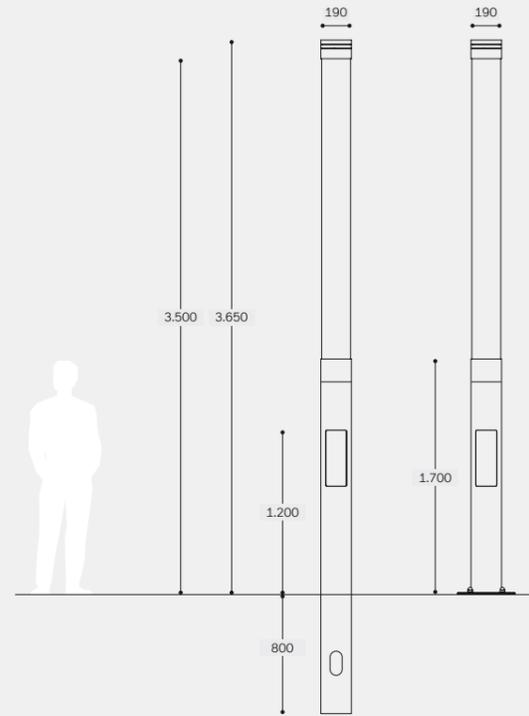
Urban light column

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

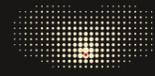


Configurator

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



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

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 _p ① | -l _p ② | Weight [kg] ③ |
|-------|---------|------------------|-------------------|---------------|
| ZA190 | 3.5 | 0.03 | 0.69 | 45.0 |

① projected windage area [m²] ③ max. weight
② lateral windage area [m²] 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 configurator 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 |

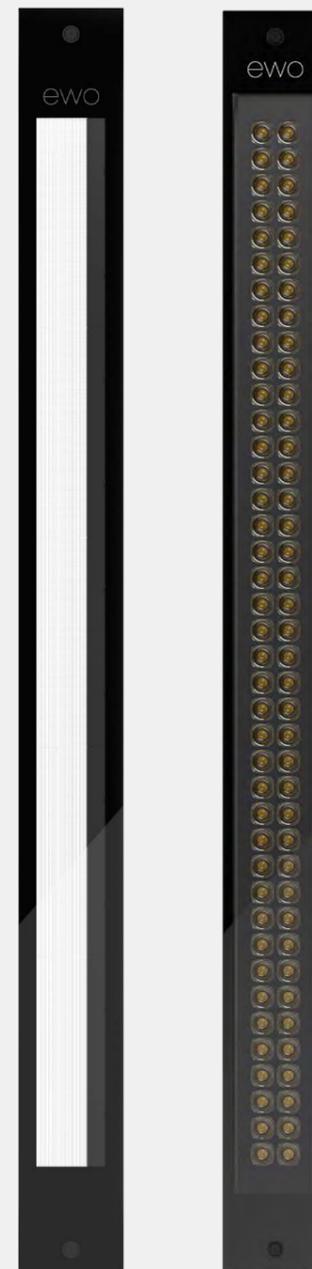


RECESSED WALL LUMINAIRES
CEILING MOUNT
INGROUND LUMINAIRES

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

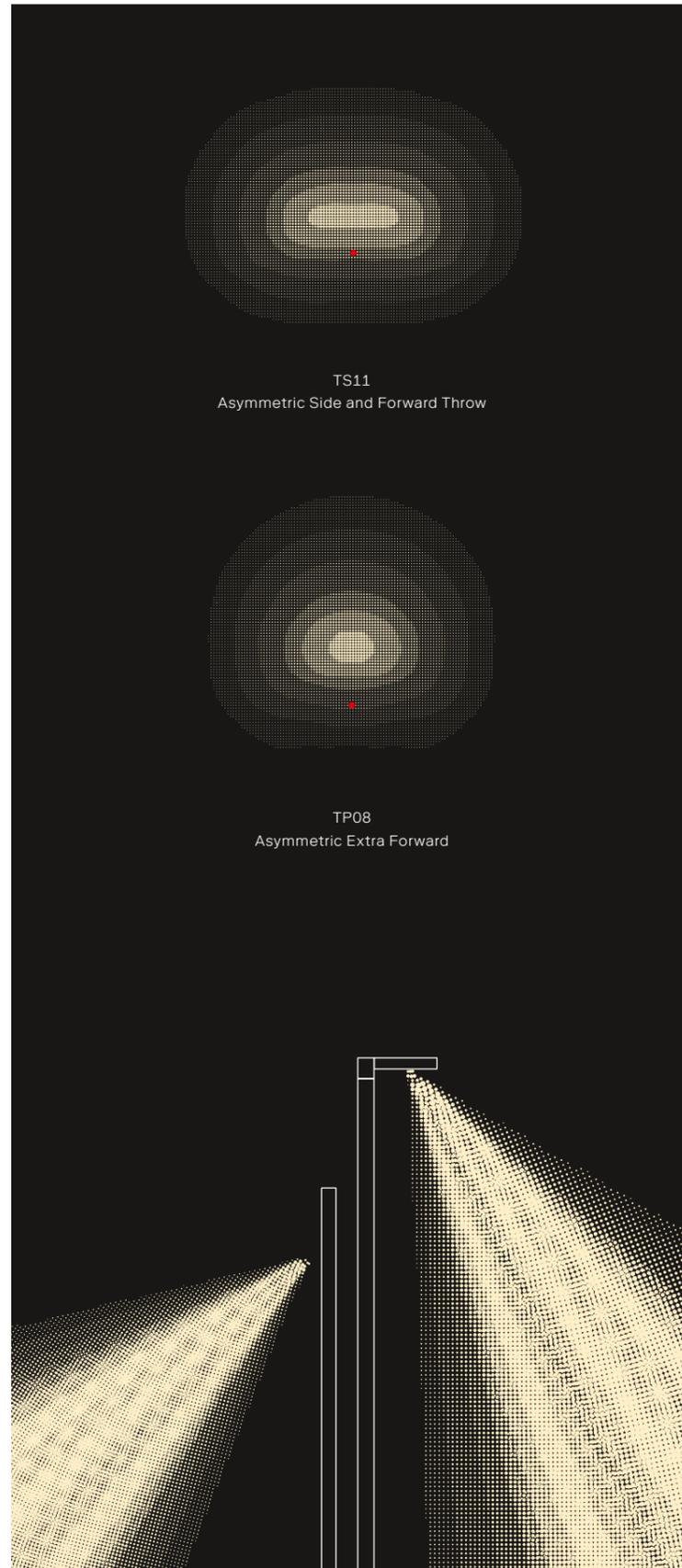
ewoLightTile

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

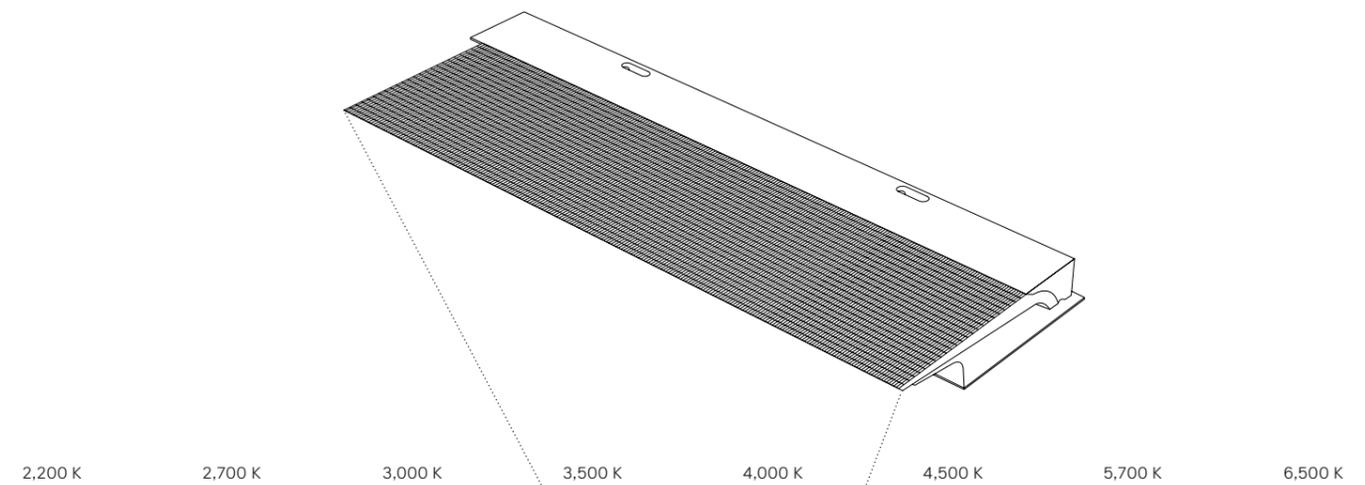
vertical array
luminous range: 3 x LPH

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.

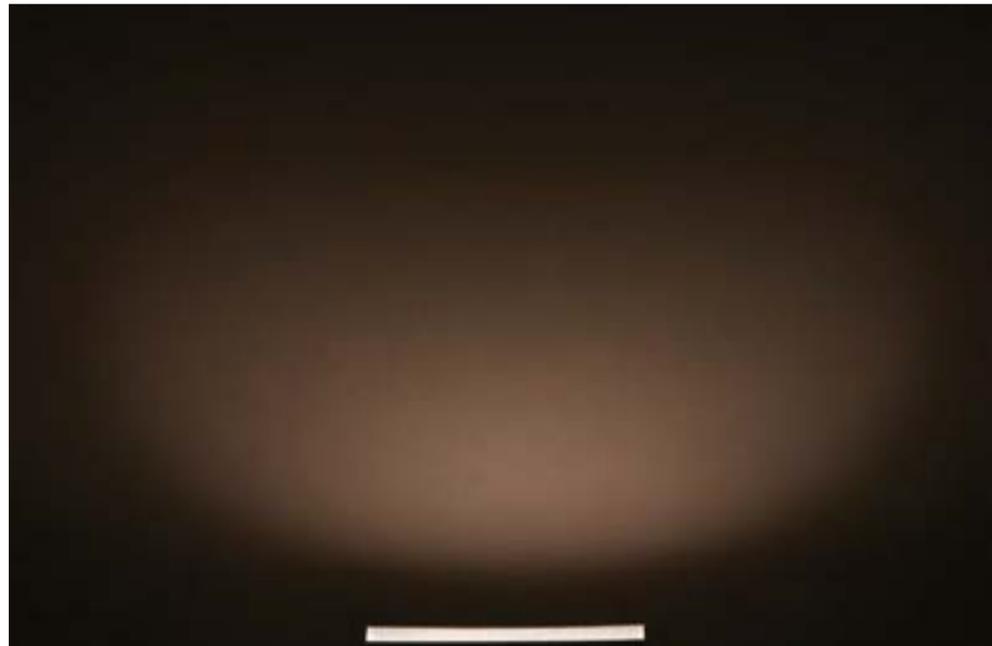


Tunable White
CRI ≥ 80

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



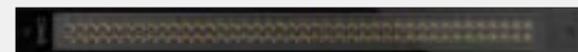
A-Series (single 90° LED row) - V04



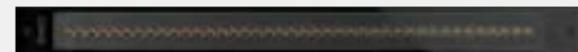
T-Series, 1-3 lighting units

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, saggerd LED row) -V03



T-Series, 1-5 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



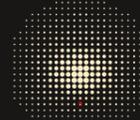
3,000 K
CRI ≥ 80



4,000 K
CRI ≥ 80



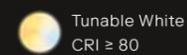
ewoLighTile: low glare light-guiding panels



TS11
Asymmetric Side and Forward Throw



TP08
Asymmetric Extra Forward



Tunable White
CRI ≥ 80



RGBW



Control protocols

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

Programming options

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



Control protocols

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

Programming options

| |
|---------------|
| Night dimming |
|---------------|

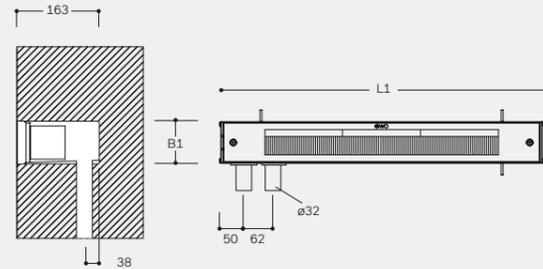
WALL
IN 1
IN 2
IN 3

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 RGBW

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

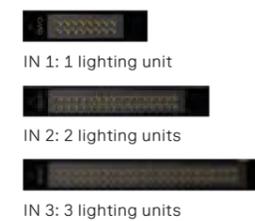
| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

Driver

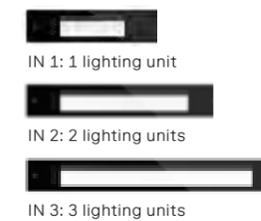
| | A-Series | T-Series |
|------------------------|---|----------|
| Control options | ON OFF DALI 1-10V L/S | T8 DALI |
| Programming [optional] | Constant Lumen Output (CLO) Emergency power supply (AC/DC) Stand-alone | |
| Control accessories | Further accessories on request | |
| Software | connexx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

Equipment variations

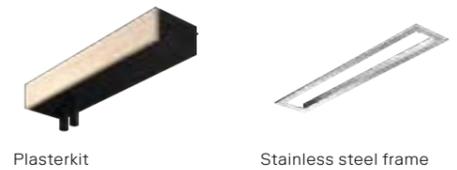
A-Series



T-Series



Accessories

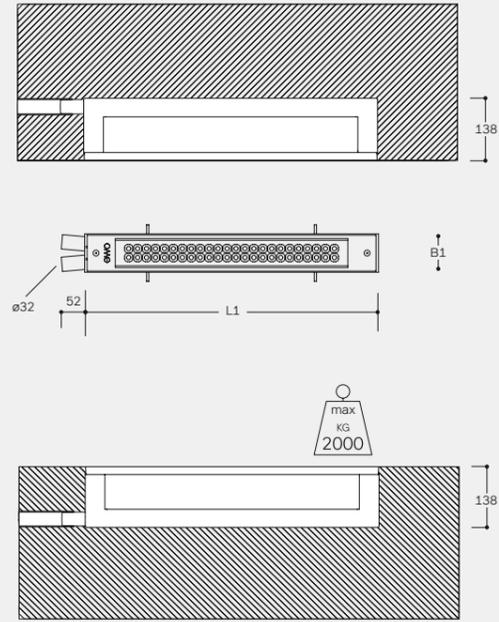


CEILING, GROUND
IN 1
IN 2
IN 3
IN 4
IN 5

For area, walkway
or indoor lighting

Configurator

CE IP66/IP67 RoHS IK10



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

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 | |



Precision lens optics
* also available in satiné version



ewoLightTile: low glare
light-guiding panels

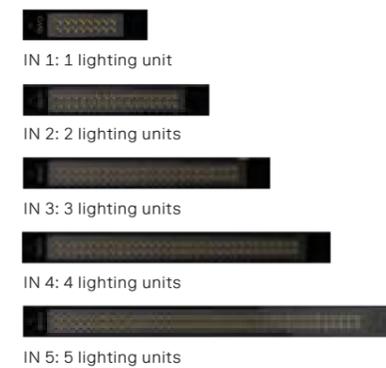
Performance

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

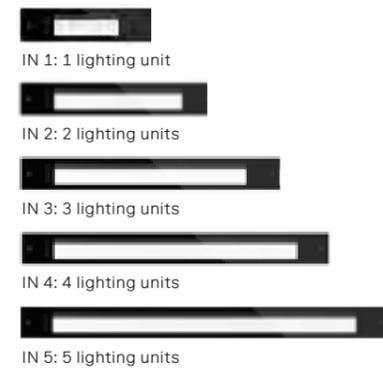
| Model | IN 1 | IN 2 | IN 3 | IN 4 | IN 5 | IN 1 | IN 2 | IN 3 | IN 4 | IN 5 |
|--------------------|-----------|-----------|-------------|-------------|-------------|------|-------|-------|-------|-------|
| Light units | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| Luminous flux [lm] | 340-2,100 | 670-3,500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

Equipment variations

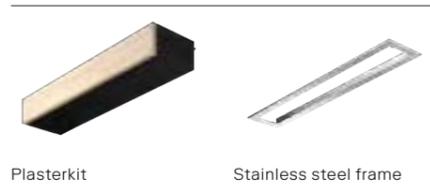
A-Series



T-Series



Accessories



Illuminazione per strade da altezze di montaggio molto basse p.es. ponti

 RAL 9005

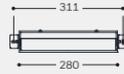
 ewo colo



RAZER with schermo



A-Series
1 LED-unit

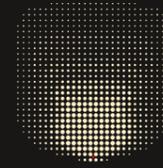


[Configurator](#)

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

Measurements

| Model | I_p ① | $-I_p$ 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.





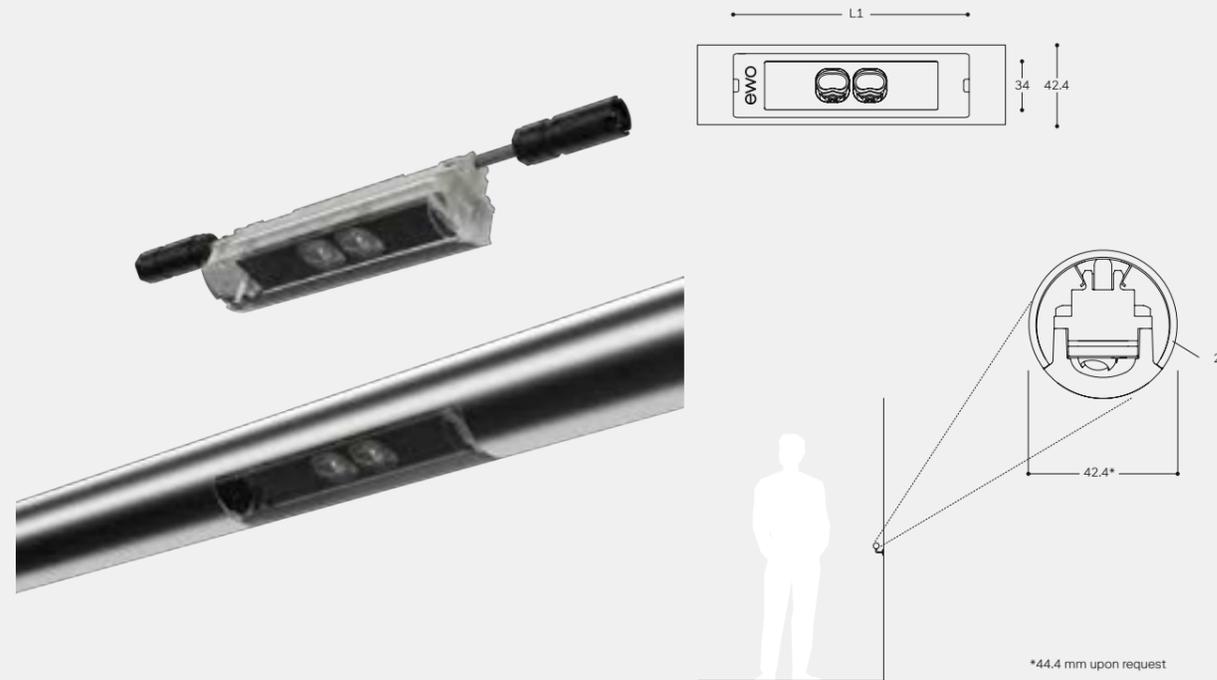
↳ ID1, ID2, ID4



↳ 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 | 166 | 0.23 |

Ⓞ max. weight without tube

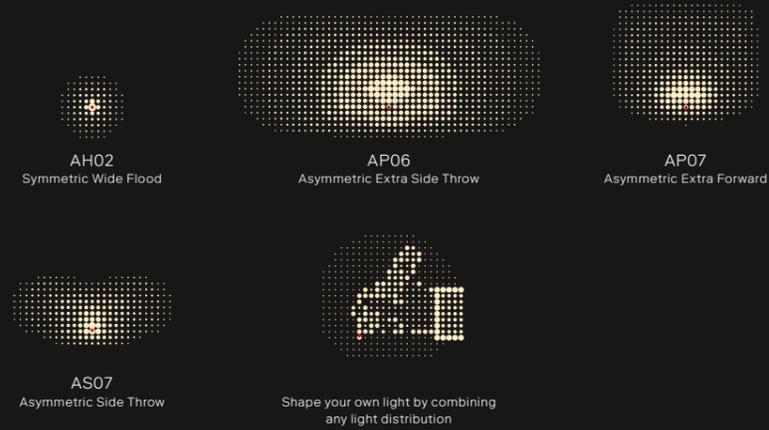
| Electrical | |
|------------------------|--------|
| A-Series | |
| Protection class | II/III |
| Voltage [V], [Hz] | - |
| Current feed max. [mA] | 500 |
| LED power max. [W] | 6.0 |

| Operating conditions | |
|----------------------|--|
| Lifetime | Visit the configurator 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 | AH02 | AP06 | AP07 | AS07 |
| 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



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

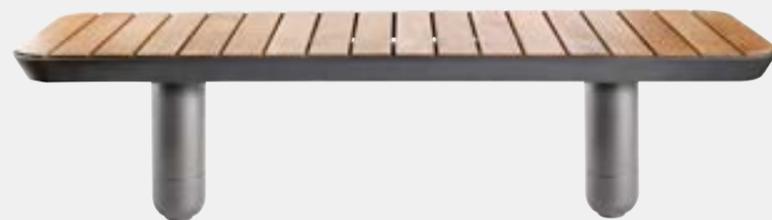


BD23



SEATING AREA

SB21



LB23



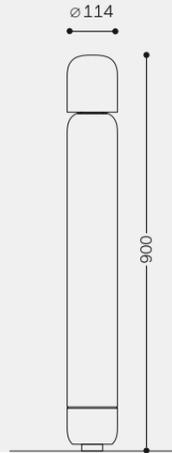
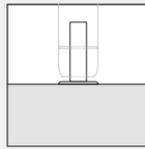
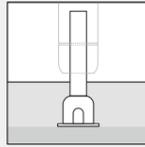
BR21



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

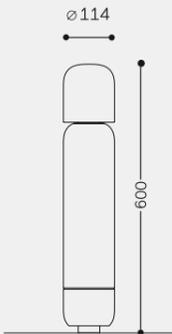
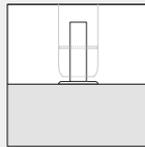
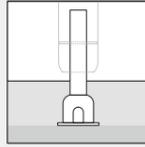
Mounting options

- 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

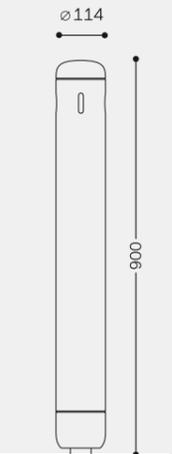
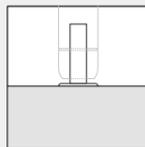
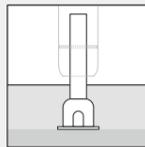
Assembly variations

- 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

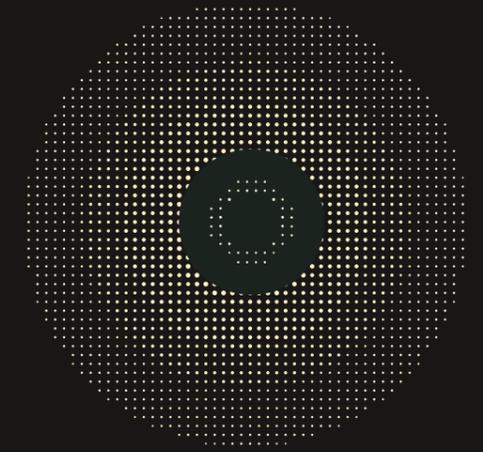
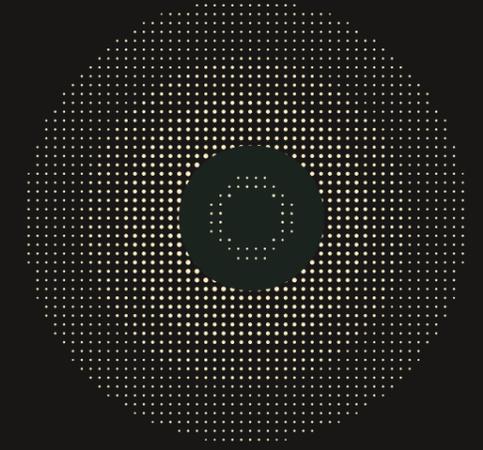
Light source

- 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 |

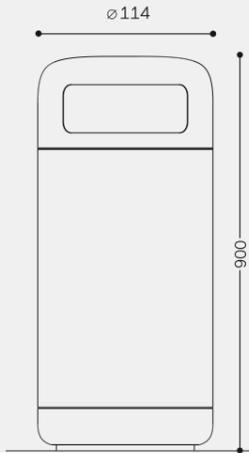
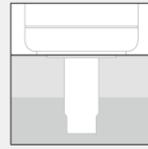


4,000 K ≤ 5 SDCM (MacAdam ellipses)

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

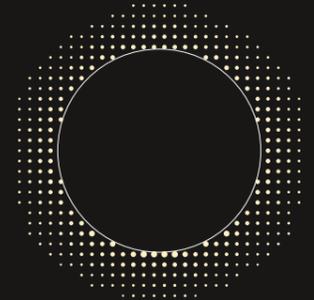
Light source

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

Assembly variations

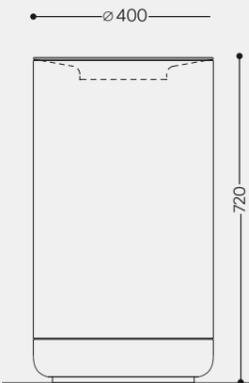
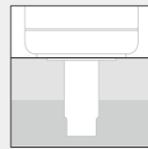
- Flush-mounted: buried base
- Surface-mounted: flange plate
- Designed for feed-through wiring

| | |
|------------------|---------|
| 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

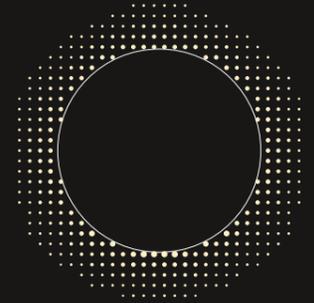
Light source

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

Assembly variations

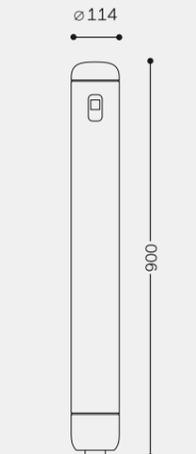
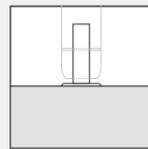
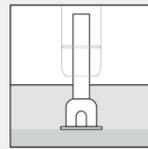
- Flush-mounted: buried base
- Surface-mounted: flange plate
- Designed for feed-through wiring

| | |
|------------------|---------|
| 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 |

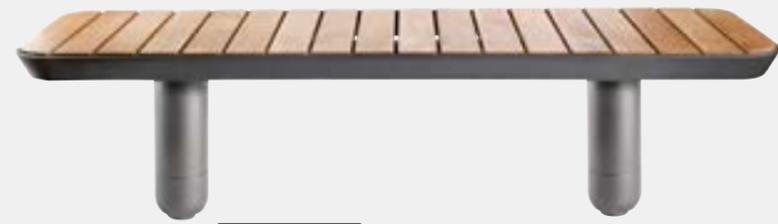


4,000 K ≤ 5 SDCM (MacAdam ellipses)

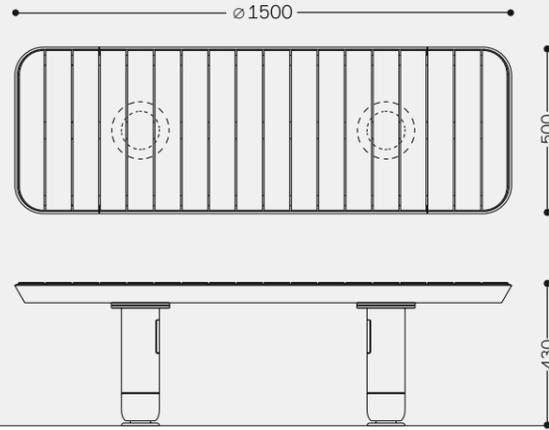
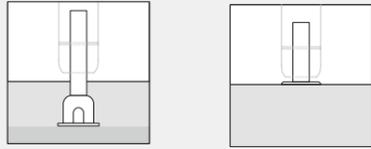
Seating area

SB21

Bench with additional accent lighting at ground level



CE RoHS IP65 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

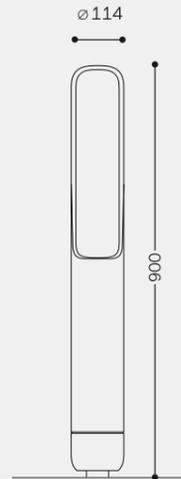
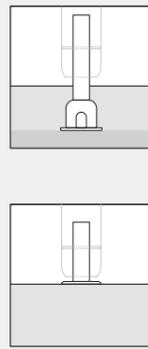
- Assembly variations**
- Flush-mounted: buried base
 - Surface-mounted: flange plate
 - Designed for feed-through wiring

| | |
|------------------|---------|
| 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 IP65 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

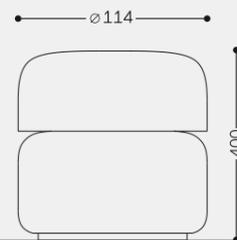
- Assembly variations**
- Flush-mounted: buried base
 - Surface-mounted: flange plate
 - Designed for feed-through wiring

| | |
|------------------|---------|
| 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 IP65 IK010

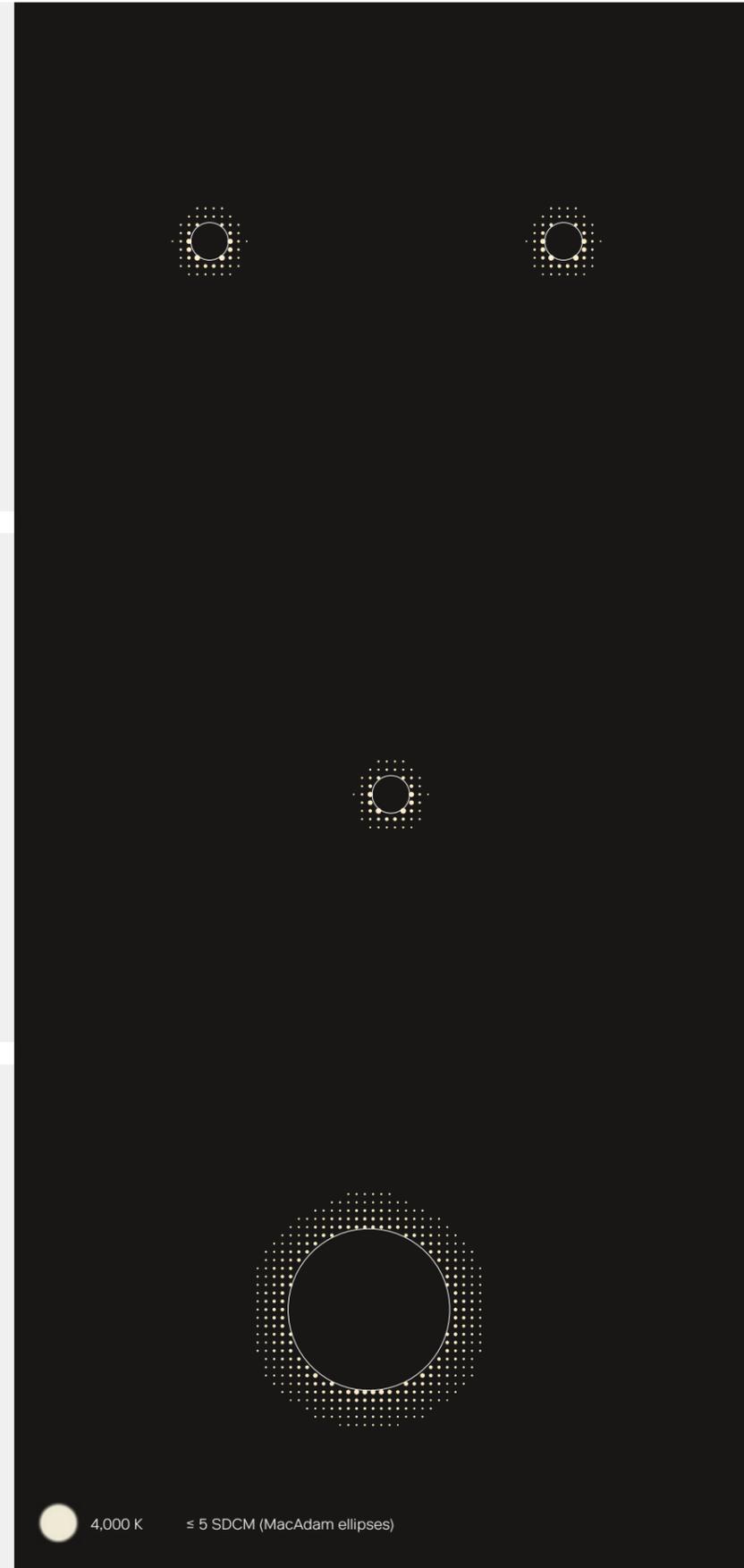


- Materials**
- Bollard: hot-dip galvanised steel
 - Buried base: hot-dip galvanised steel
 - Flange plate: hot-dip galvanised steel
 - Finish: polyester powder coating in anthracite finish (DB 703), other colours available upon request

- 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 ≤ 5 SDCM (MacAdam ellipses)

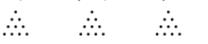
BODY OF LIGHT



SHAPE OF LIGHT



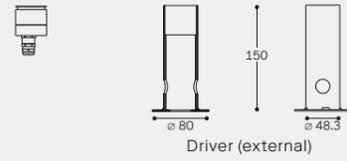
INTELLIGENCE OF LIGHT



R50



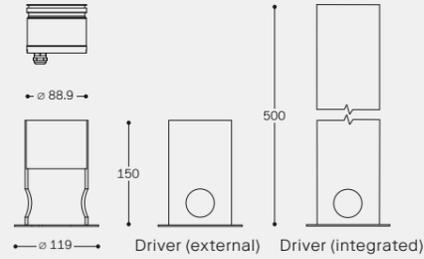
1 high-power LED



R90



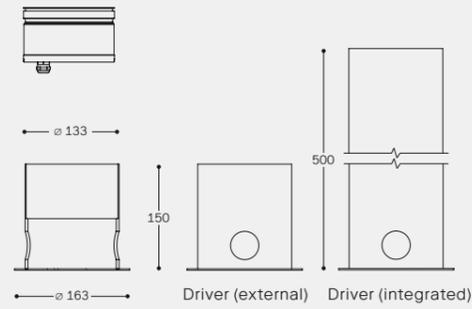
4 high-power LEDs



R130



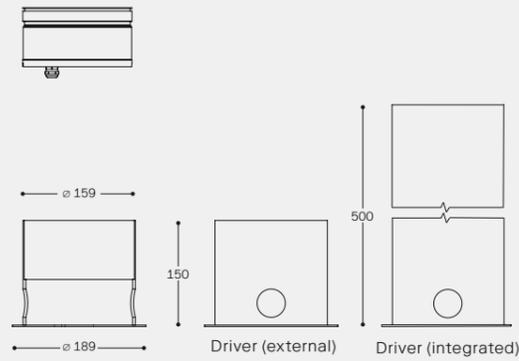
8 high-power LEDs



R160



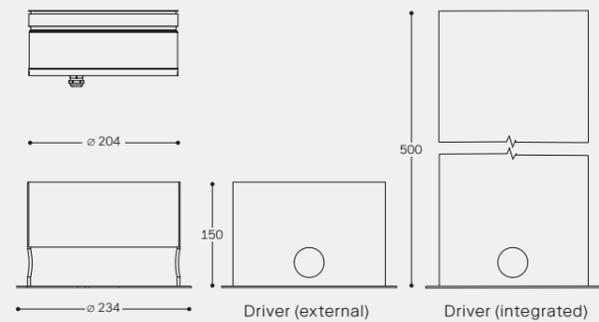
16 high-power LEDs



R200



24 high-power LEDs



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 |

AG01 Symetric Narrow 10°

AG02 Symetric Medium 26°

AG03 Symmetric Flood 50°

AG04 Symmetric Elliptical 8°-40°

AH02 Symmetric Wide Flood

AP07 Asymmetric Extra Forward

AS07 Asymmetric Side throw

AP06 Asymmetric Forward Extra Side Throw

Shape your own light by combining any light distributions

2,200 K CRI ≥ 80

2,700 K CRI ≥ 80

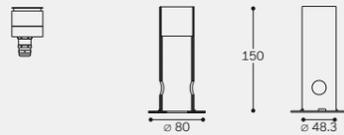
3,000 K CRI ≥ 80

4,000 K CRI ≥ 80

RGBW

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

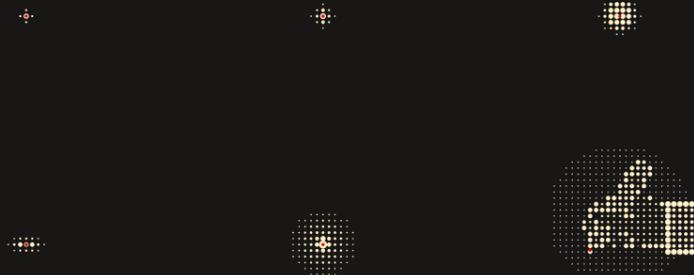
| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

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 | | | | |

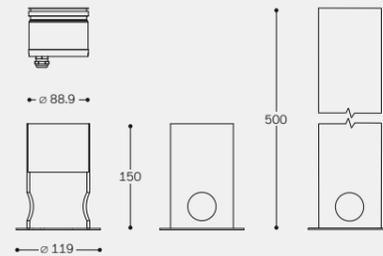
Equipment variations



R50 without internal driver

R90

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



Configurator



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]Ⓞ |
|-------|----------------------|--------------|
| R90 | without driver | 2.0 |
| R90 | complete with driver | 5.5 |

Ⓞ 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] | 6.1 | 6.1 |

* with integrated driver

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator 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 | |



Precision lens optics



AG01
Symetric Narrow 10°



AG02
Symmetric Medium 26°



AG03
Symmetric Flood 50°



AG04
Symmetric Elliptical 8°-40°



AH02
Symmetric Wide Flood 60°



Shape your own light by combining any light distributions



2,200 K
CRI ≥ 80



2,700 K
CRI ≥ 80



3,000 K
CRI ≥ 80



4,000 K
CRI ≥ 80



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 | | | | |

Equipment variations



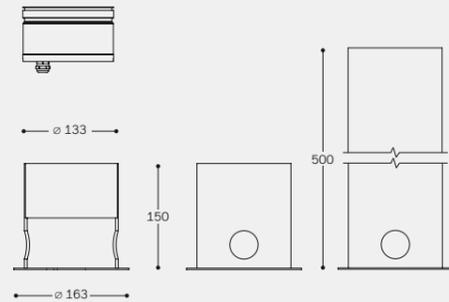
R90 without internal driver



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

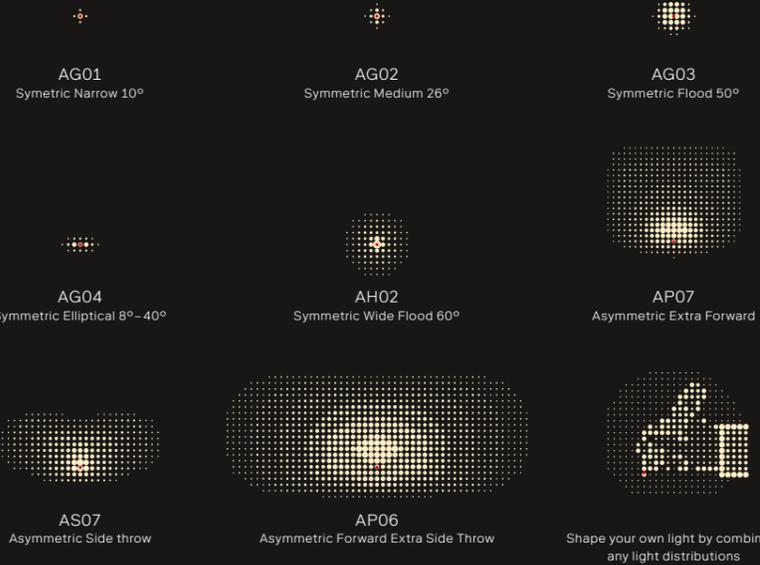
| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

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

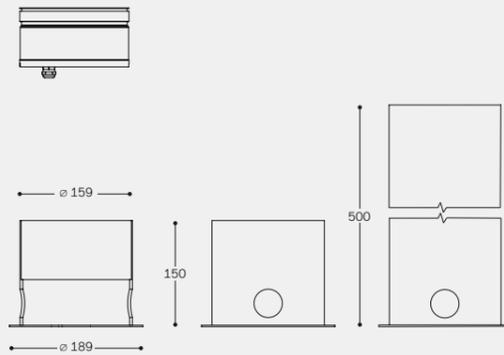


R130 without internal driver

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 configurator 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



AG01
Symetric Narrow 10°



AG02
Symmetric Medium 26°



AG03
Symmetric Flood 50°



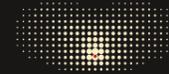
AG04
Symmetric Elliptical 8°-40°



AH02
Symmetric Wide Flood 60°



AP07
Asymmetric Extra Forward



AS07
Asymmetric Side throw



AP06
Asymmetric Forward Extra Side Throw



Shape your own light by combining any light distributions



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

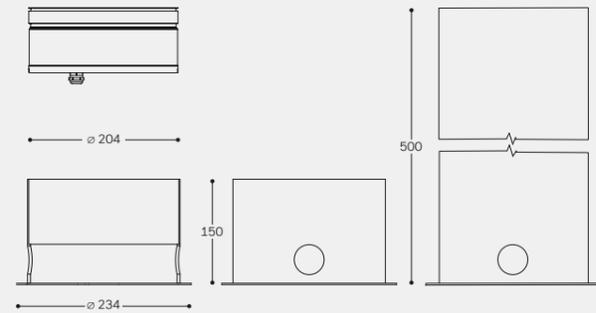
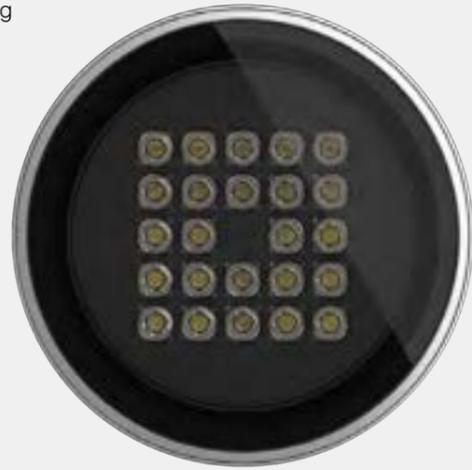


R160 without internal driver

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



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

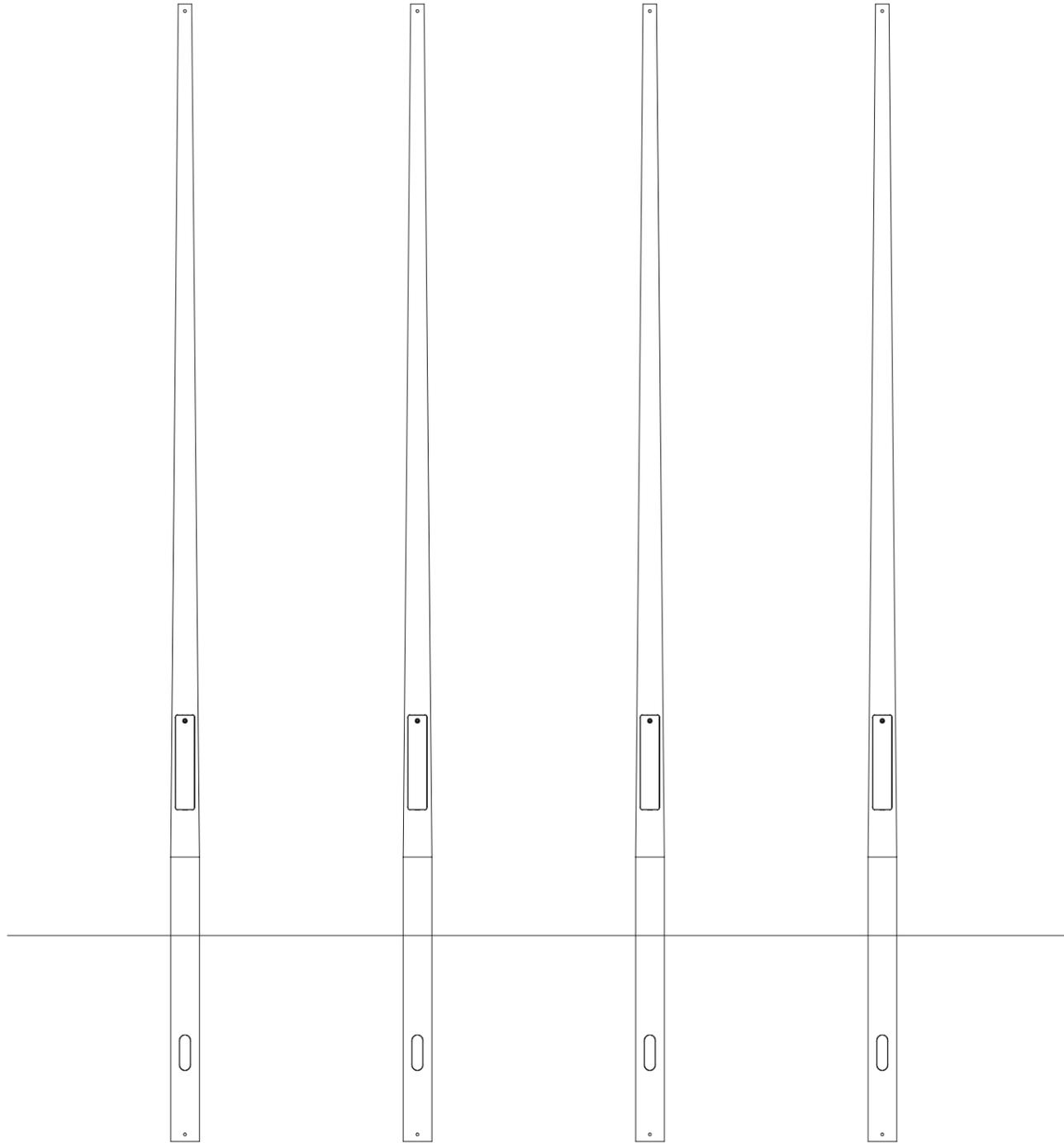
Equipment variations



R200 without internal driver

R200 with internal driver

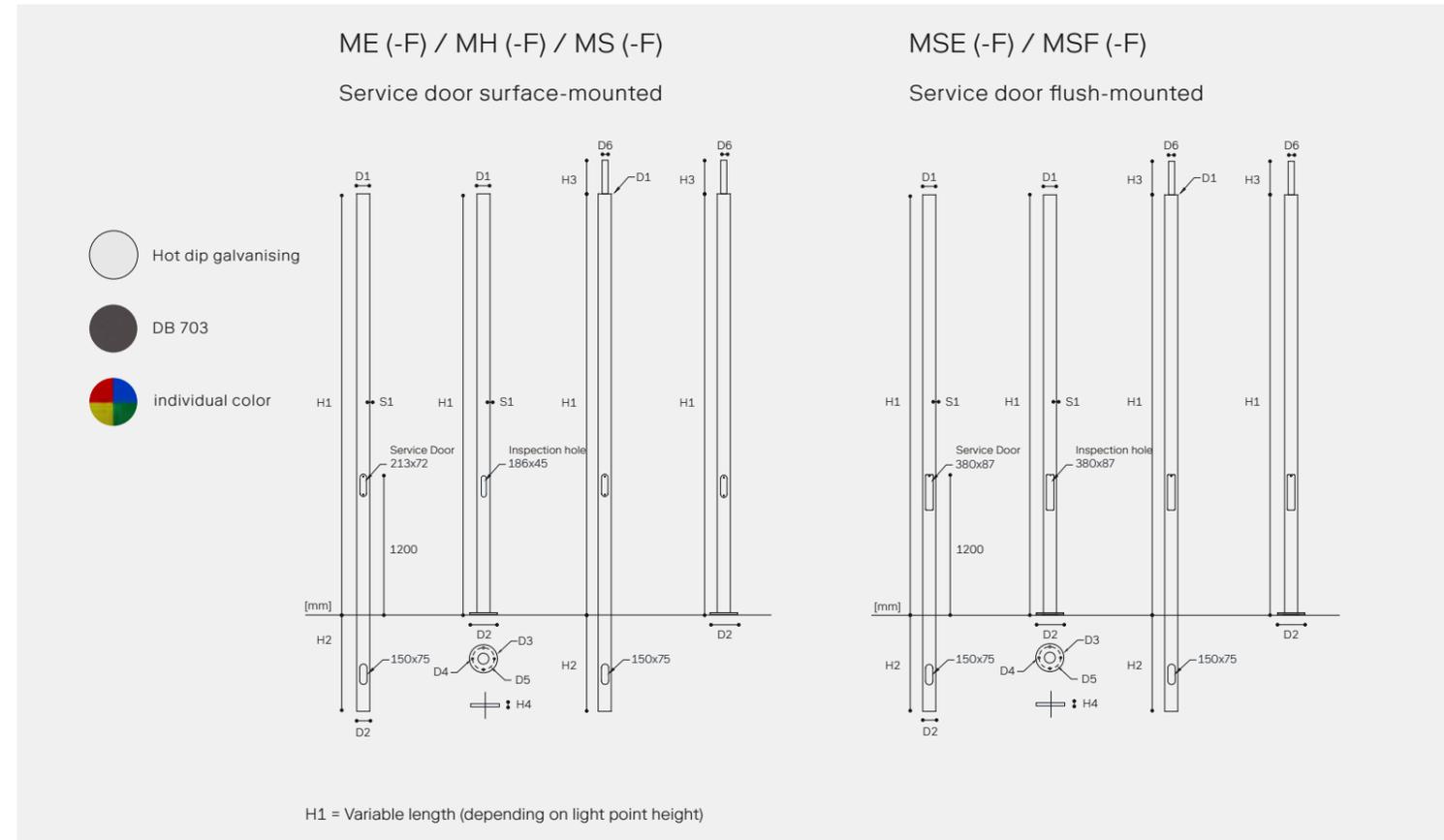
Poles



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 |

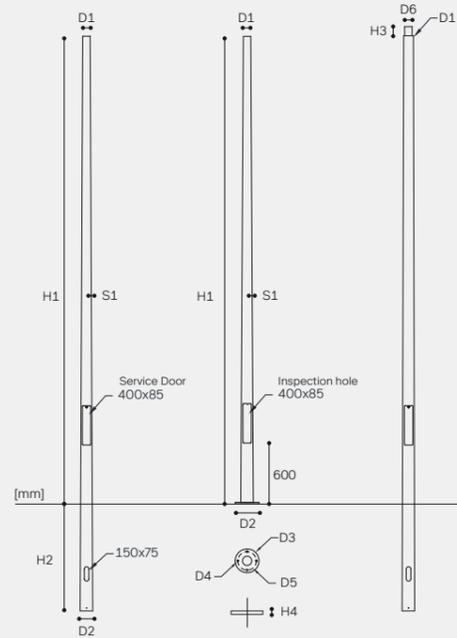
| | | | | | | | | | | |
|------------|-------|-----|-----------|-----|-----|-----|----|----|---|------|
| MSF (-F) | 133,0 | 76 | 1,000 (0) | 85 | 240 | 186 | 21 | 15 | 4 | 13,5 |
| MSE (-F) | 114,3 | / | 800 (0) | / | 240 | 186 | 21 | 15 | 4 | 12,8 |
| MSE1 (-F) | 114,3 | 89 | 800 (0) | 140 | 240 | 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

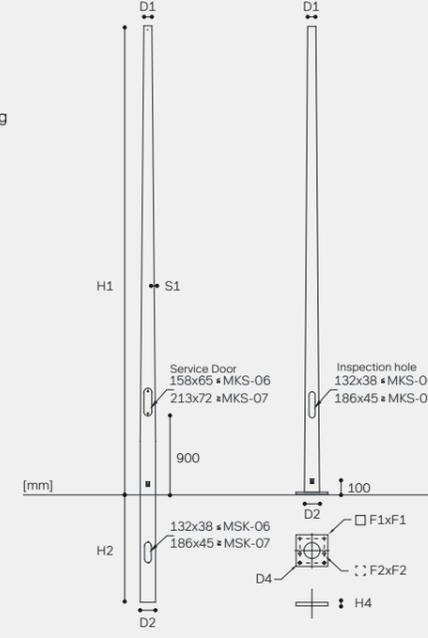


Conical poles

MKS (-F)

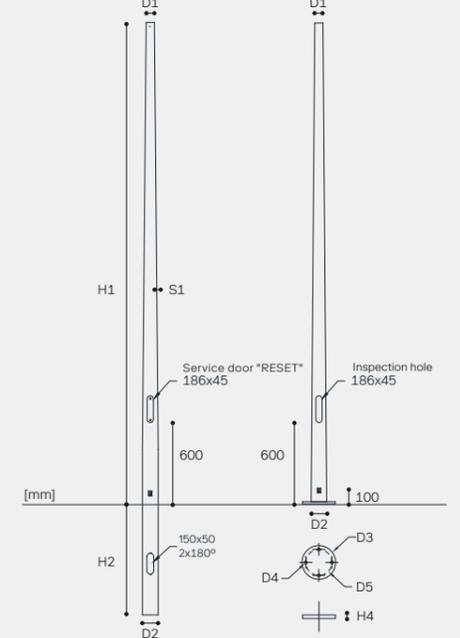
Service door surface-mounted

-  Hot dip galvanising
-  DB 703
-  individual color



MKI (-F)

Service door "RESET"



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 | Hot-dip galvanized steel/ Polyester powder surface 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 | 3.4 | 35.9 (32.8) |
| MKG-02 (-F) | 4,000 | / | 60 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 45.6 (41.2) |
| MKG-03 (-F) | 4,500 | / | 60 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 50.0 (45.3) |
| MKG-04 (-F) | 5,000 | / | 60 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 54.3 (49.9) |
| MKG-05 (-F) | 5,500 | / | 60 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 58.7 (54.2) |
| MKG-06 (-F) | 6,000 | / | 60 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 63.1 (58.6) |
| MKG-07 (-F) | 4,000 | / | 76 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 48.3 (43.9) |
| MKG-08 (-F) | 5,000 | / | 76 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 57.8 (53.3) |
| MKG-09 (-F) | 6,000 | / | 76 | 800 (0) | 127.0 | / | 240 | 186 | 21 | 15 | 3.6 | 67.8 (62.8) |
| MKG-10 (-F) | 7,000 | / | 76 | 1,000 (0) | 152.4 | / | 325 | 272 | 21 | 15 | 4.0 | 99.5 (93.1) |
| MKG-11 (-F) | 8,000 | / | 76 | 1,000 (0) | 152.4 | / | 325 | 272 | 21 | | 4.0 | 111.3 (104.9) |
| MKG-12 (-F) | 9,000 | / | 76 | 1,200 (0) | 168.3 | / | 325 | 272 | 21 | | 4.0 | 134.9 (123.7) |
| MKG-13 (-F) | 10,000 | / | 76 | 1,200 (0) | 168.3 | / | 325 | 272 | 21 | | 4.0 | 147.6 (136.4) |
| M-DFC-13 | 5,000 | 90 | 97 | 800 | 127.0 | 76 | / | / | 21 | | 3.6 | 57.8 |
| M-DFC-14 | 6,000 | 90 | 97 | 800 | 127.0 | 76 | / | / | 21 | | 3.6 | 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 | Hot-dip galvanized steel/ Polyester powder surface 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 | F1×F1 | F2×F2 | D4 | H4 | S1 | kg |
|-------------|--------|----|---------|-----------|-----------|-----------|----|----|----|-----------|
| MKS-01 (-F) | 3,000 | 60 | 500 (0) | 95 (90) | 260 × 260 | 200 × 200 | 22 | 10 | 3 | 21 (23) |
| MKS-02 (-F) | 3,500 | 60 | 500 (0) | 100 (95) | 260 × 260 | 200 × 200 | 22 | 10 | 3 | 24 (27) |
| MKS-03 (-F) | 4,000 | 60 | 500 (0) | 105 (100) | 260 × 260 | 200 × 200 | 22 | 10 | 3 | 28 (31) |
| MKS-04 (-F) | 4,500 | 60 | 500 (0) | 110 (105) | 260 × 260 | 200 × 200 | 22 | 10 | 3 | 32 (35) |
| MKS-05 (-F) | 5,000 | 60 | 500 (0) | 115 (110) | 260 × 260 | 200 × 200 | 22 | 10 | 3 | 36 (39) |
| MKS-06 (-F) | 5,500 | 60 | 500 (0) | 120 (115) | 260 × 260 | 200 × 200 | 22 | 10 | 3 | 41 (43) |
| MKS-07 (-F) | 6,000 | 60 | 800 (0) | 128 (120) | 260 × 260 | 200 × 200 | 22 | 10 | 4 | 64 (62) |
| MKS-08 (-F) | 7,000 | 60 | 800 (0) | 138 (130) | 260 × 260 | 200 × 200 | 22 | 10 | 4 | 77 (75) |
| MKS-09 (-F) | 8,000 | 60 | 800 (0) | 148 (140) | 300 × 300 | 220 × 220 | 25 | 15 | 4 | 91 (95) |
| MKS-10 (-F) | 9,000 | 60 | 800 (0) | 158 (150) | 300 × 300 | 220 × 220 | 25 | 15 | 4 | 107 (110) |
| MKS-11 (-F) | 10,000 | 60 | 800 (0) | 168 (160) | 300 × 300 | 220 × 220 | 25 | 15 | 4 | 123 (126) |

| Pole | H1 | D1 | H2 | D2 | F1×F1 | F2×F2 | D4 | H4 | S1 | kg |
|-------------|--------|----|-----------|-----------|-------|-------|----|----|-----|---------------|
| MKI-01 (-F) | 3,500 | 60 | 800 (0) | 114.3 (=) | 240 | 186 | 21 | 15 | 3,4 | 35.9 (32.8) |
| MKI-02 (-F) | 4,000 | 60 | 800 (0) | 114.3 (=) | 240 | 186 | 21 | 15 | 3,6 | 42.1 (41.2) |
| MKI-03 (-F) | 4,500 | 60 | 800 (0) | 114.3 (=) | 240 | 186 | 21 | 15 | 3,6 | 46.1 (45.5) |
| MKI-04 (-F) | 5,000 | 60 | 800 (0) | 114.3 (=) | 240 | 186 | 21 | 15 | 3,6 | 50.2 (49.9) |
| MKI-05 (-F) | 5,500 | 60 | 800 (0) | 114.3 (=) | 240 | 186 | 21 | 15 | 3,6 | 54.3 (54.2) |
| MKI-06 (-F) | 6,000 | 60 | 800 (0) | 114.3 (=) | 240 | 186 | 21 | 15 | 3,6 | 58.3 (58.6) |
| MKI-07 (-F) | 7,000 | 76 | 1,000 (0) | 152.4 (=) | 325 | 272 | 21 | 15 | 4,0 | 99.5 (93.1) |
| MKI-08 (-F) | 8,000 | 76 | 1,000 (0) | 152.4 (=) | 325 | 272 | 21 | 15 | 4,0 | 111 (104.9) |
| MKI-09 (-F) | 9,000 | 76 | 1,200 (0) | 168.3 (=) | 325 | 272 | 21 | 15 | 4,0 | 135 (123.7) |
| MKI-10 (-F) | 10,000 | 76 | 1,200 (0) | 168.3 (=) | 325 | 272 | 21 | 15 | 4,0 | 147.5 (136.4) |

MKI (-F) dedicated to the Italian market

| | |
|------------------|---|
| Pole material | steel S275JR UNI EN 10025 |
| Processing | without any longitudinal seam |
| Finish | Hot-dip galvanized steel/ Polyester powder surface 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

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

E-Series



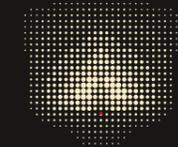
Precision lens optics



EP09-L
Asymmetric Extra Forward
Left



EP09-R
Asymmetric Extra Forward
Right



EP09-L/R
Asymmetric Extra Forward
Left/Right



Control protocols

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

Programming options

| |
|------------------------------|
| Stand-alone |
| CLO Constant Lumen Output |

A-Series



Precision lens optics



AG01
Symmetric Narrow 12°



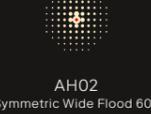
AG02
Symmetric Medium 27°



AG03
Symmetric Flood 48°



AG04
Symmetric Elliptical 10°x40°



AH02
Symmetric Wide Flood 60°



AP05
Asymmetric Extra Forward



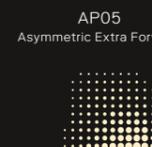
AP07
Asymmetric Extra Forward



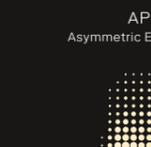
AS07
Asymmetric Side Throw



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-LR
Asymmetric Extra Forward – Right



AP10-L/R
Asymmetric Extra Forward – Right



AS06
Asymmetric Extra Side Throw



Control protocols

| | |
|---------------|--|
| ON/OFF | |
| 1-10 V | |
| DALI 2 | |
| Zhaga Book 18 | |
| Line Switch | |
| DMX-RDM | |

Programming options

| |
|------------------------------|
| Stand-alone |
| CLO Constant Lumen Output |

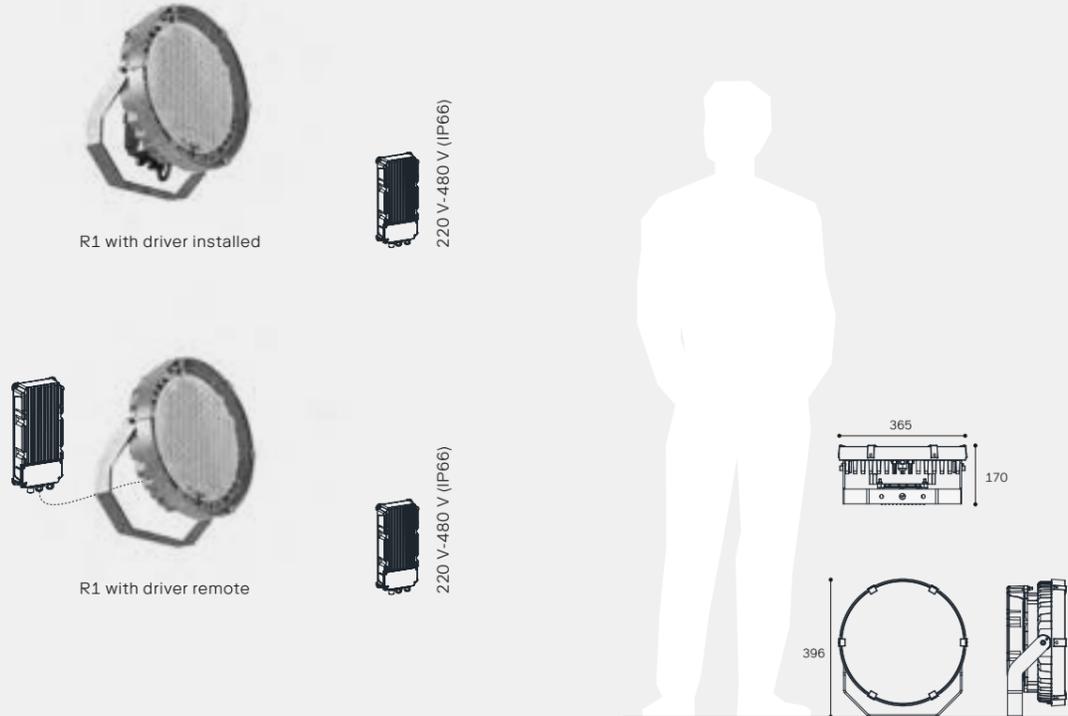
R-System gen4



R1 round (A-Series)

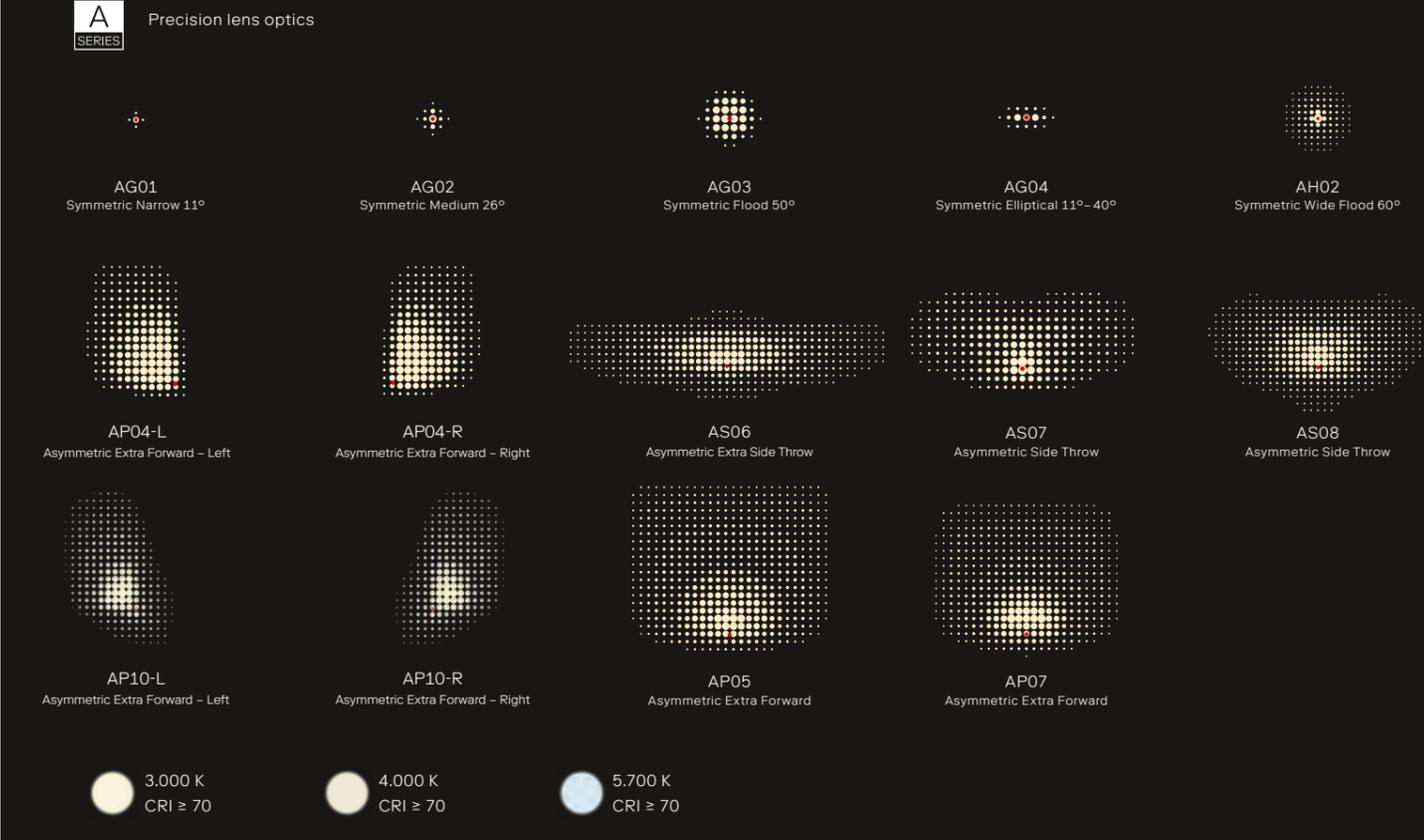
Airports,
Harbor
Logistics centers
Sports facilities

Without powder coating



Configurator

CE IP66 RoHS IK08



| 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 [m²]
② Lateral windage area [m²]

| Performance | | | | | | | | | | | | |
|--------------|------|------|------|---------|------|--------|--------|----------|--------|--------|----------|--|
| Distribution | AG01 | AG02 | AG03 | AG04 | AH02 | AP04-L | AP04-R | AP04-L/R | AP10-L | AP10-R | AP10-L/R | |
| Beam angle | 11° | 26° | 50° | 11°-40° | 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 |

| 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 configurator for specific lifetime options |

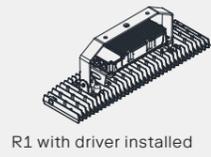
| Driver | |
|---------------------|--|
| Control Options | ON OFF DALI |
| Programming | Stand-alone Constant Lumen Output (CLO) |
| Control accessories | Further accessories on request |



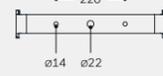
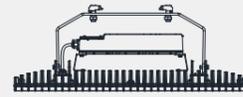
R-System gen4

R1 128 LED (A-Series)

Airports,
Harbor
Logistics centers
Sports facilities



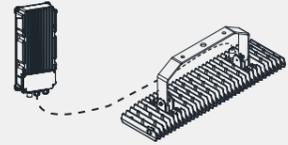
220 V-480 V (IP66)



R1 with driver installed

R1 with driver remote

Without powder coating



220 V-480 V (IP66)



Configurator

CE RoHS IP66 IK08

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 [m²]
② Lateral windage area [m²]
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

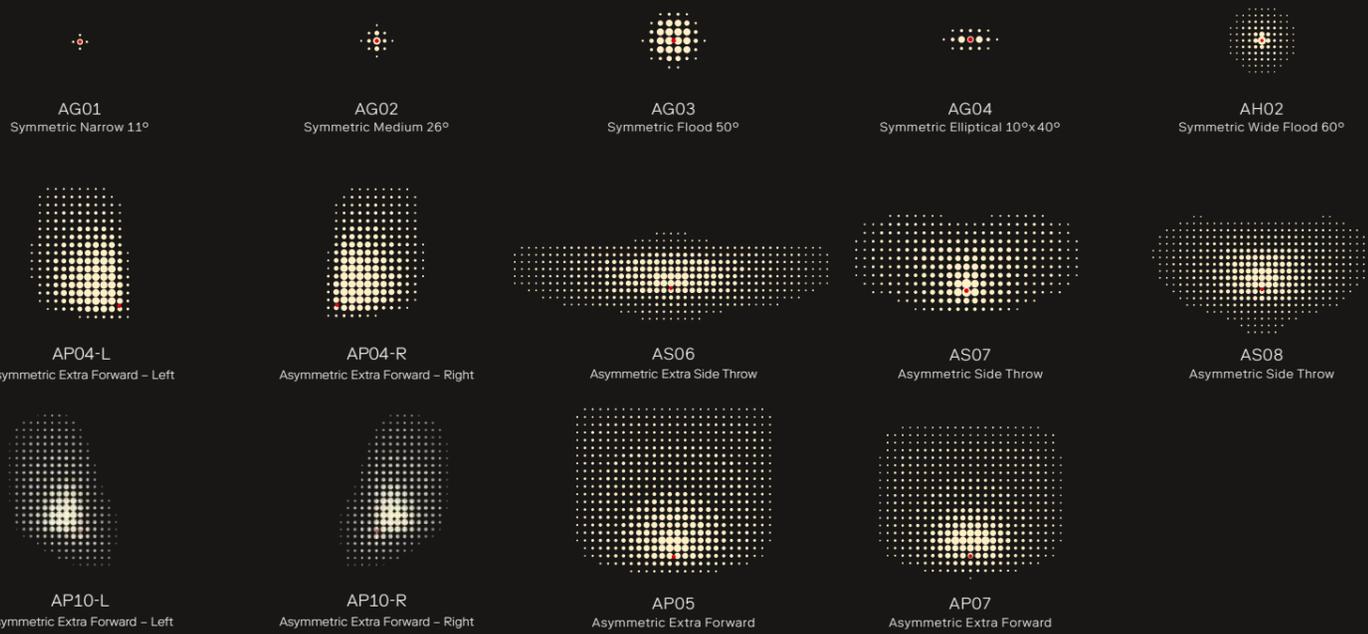
| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

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 | AH02 | AP04-L | AP04-R | AP04-L/R | AP10-L | AP10-R | AP10-L/R |
|---------------------|------|------|------|---------|------|--------|--------|----------|--------|--------|----------|
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - | - | - | - | - |
| Full Cut Off (Tilt) | - | - | - | - | - | 20° | 20° | 20° | 7° | 7° | 7° |

| Distribution | AP05 | AP07 | AS06 | AS07 | AS08 |
|---------------------|------|------|------|------|------|
| Beam angle | - | - | - | - | - |
| Full Cut Off (Tilt) | 7° | - | - | - | - |

| | |
|-------------------------------|--------|
| 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

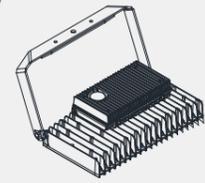


R-System gen4

R2 144 LED (E-Series)

Airports,
Harbor
Logistics centers
Sports facilities

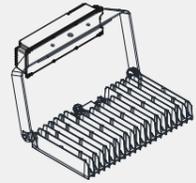
Without powder coating



R2 with driver installed



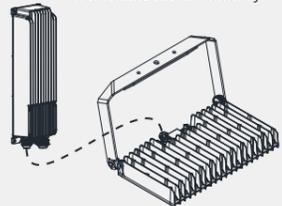
230 V (IP20)



R2 with driver mounted on bracket via accessory



220 V-415 V (IP66)



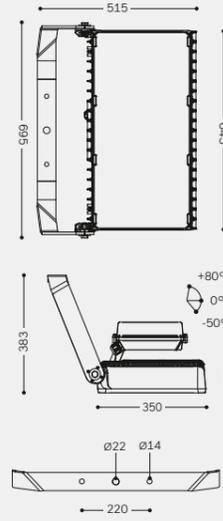
R2 with driver remote



220 V-415 V (IP66)



230 V (IP20)



Configurator

CE 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 | 30.0 |
| R2 + Driver on bracket + FCO | 6° | 0.34 | 0.18 | 31.5 |

① Projected windage area [m²]
② Lateral windage area [m²]
③ Weight with bracket M

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator for specific lifetime options |
|----------|--|

Electrical

E-Series

| | |
|-------------------|----------------|
| Protection class | I |
| Voltage [V], [Hz] | 220-415, 50/60 |
| Current max. [mA] | 1,850 |
| Power max. [W] | 790 |

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 | |

E SERIES Precision lens optics



EP09-L
Asymmetric Extra Forward
Left



EP09-R
Asymmetric Extra Forward
Right



EP09-L/R
Asymmetric Extra Forward
Left/Right

3,000 K*
CRI ≥ 70

4,000 K*
CRI ≥ 70

5,700 K*
CRI ≥ 70

* additional light colors and CRI on request

Performance

| | EP09-L | EP09-R | EP09-L/R |
|-------------------------------|--------|--------|----------|
| Distribution | | | |
| Beam angle | - | - | - |
| Full Cut Off (Tilt) | 6° | 6° | 6° |
| MacAdam ellipses (SDCM) | ≤ 5 | | |
| Nr. of LEDs | 144 | | |
| Lum. flux max. [lm] (5,700 K) | 99,500 | | |

Accessories



Bird Spike Full-Cut-Off visor Backlight shield Laser Pointer RedDot Slide



R-System gen4

R2 240 LED (A-Series)

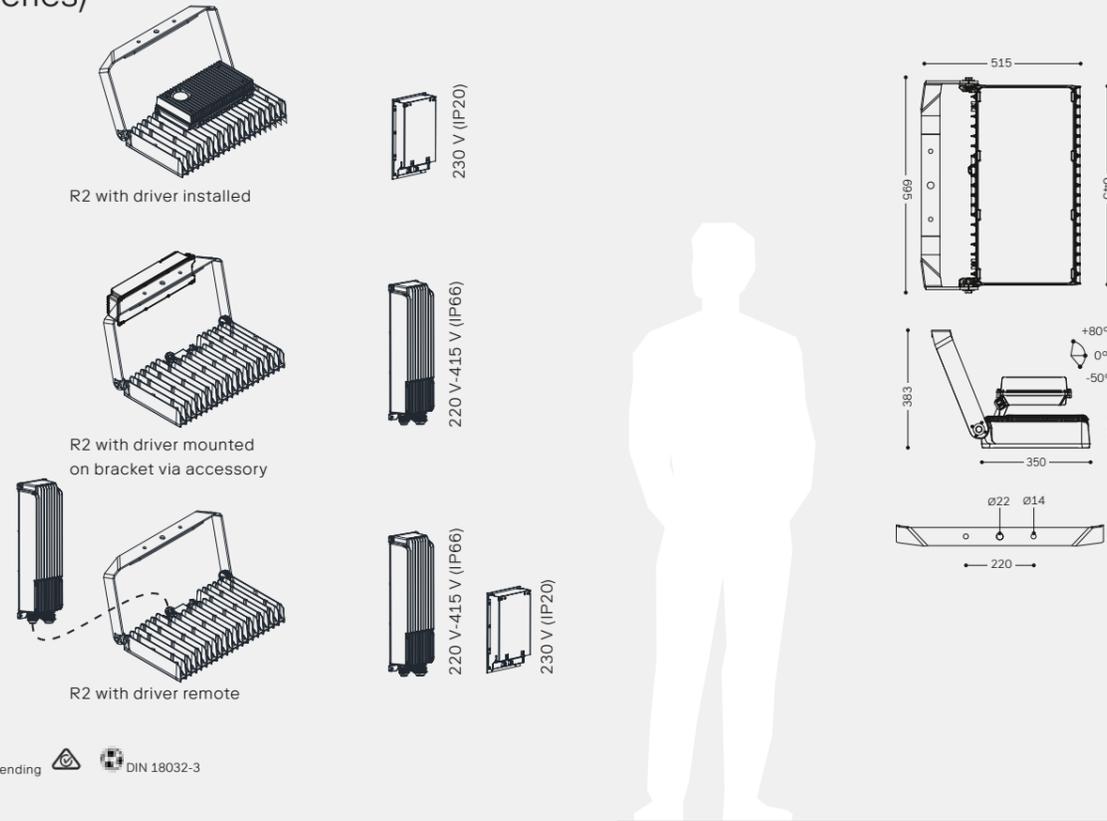
Airports,
Harbor
Logistics centers
Sports facilities

Without powder coating

Configurator

CE IP66 RoHS IK10

 pending pending
 DIN 18032-3



| 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 | 30.0 |
| R2 + Driver on bracket + FCO | 10° | 0.34 | 0.19 | 31.5 |

① Projected windage area [m²]
 ② Lateral windage area [m²]
 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 configurator for specific lifetime options |

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

A SERIES Precision lens optics
 * also available in satiné version

AG01.2
Symmetric Narrow 11°

AG02.2
Symmetric Medium 27°

AG03.2
Symmetric Flood 48°

AG04.2
Symmetric Elliptical 10°x40°

AP10-L
Asymmetric Extra Forward - Left

AP10-R
Asymmetric Extra Forward - Right

AP10-L/R
Asymmetric Extra Forward - Right

3,000 K*
CRI ≥ 70

4,000 K*
CRI ≥ 70

5,700 K*
CRI ≥ 70/80/90

* additional light colors and CRI on request



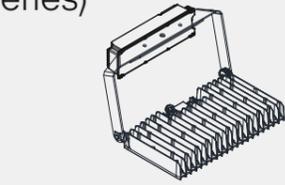


R-System gen4

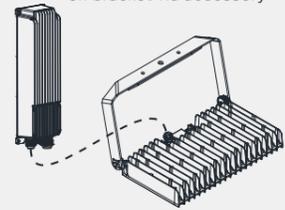
R2 336 LED (A-Series)

Airports,
Harbor
Logistics centers
Sports facilities

Without powder coating



R2 with driver mounted on bracket via accessory



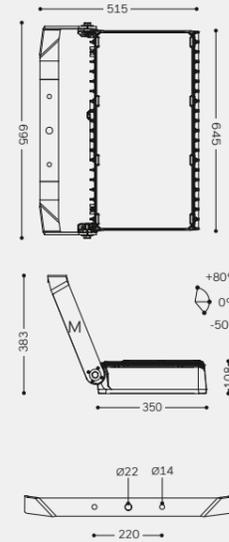
R2 with driver remote



220 V-415 V (IP66)



220 V-415 V (IP66)



Configurator

CE RoHS IP66 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 | Ⓐ | Ⓑ | Weight [kg] Ⓒ |
|------------------------------|------|------|------|---------------|
| R2 | 0° | 0.27 | 0.09 | 22.0 |
| R2 + Driver on bracket | 0° | 0.27 | 0.18 | 30.0 |
| R2 + Driver on bracket + FCO | 10° | 0.34 | 0.19 | 31.5 |

Ⓐ Projected windage area [m²]
 Ⓑ Lateral windage area [m²]
 Ⓒ 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] | 1,200 |

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator 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
* also available in satiné version



AG01.2
Symmetric Narrow 12°



AG02.2
Symmetric Medium 27°



AG03.2
Symmetric Flood 48°



AG04.2
Symmetric Elliptical 10°x40°



AP10-L
Asymmetric Extra Forward - Left



AP10-R
Asymmetric Extra Forward - Right



AP10-L/R
Asymmetric Extra Forward - Right



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 | AP10-L | AP10-R | AP10-L/R |
|-------------------------------|---------|------|------|---------|--------|--------|----------|
| Beam angle | 11° | 26° | 50° | 10°x40° | - | - | - |
| Full Cut Off (Tilt) | - | - | - | - | 10° | 10° | 10° |
| 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

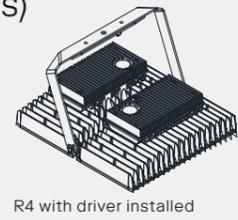
R4 288 LED (E-Series)

Airports,
Harbor
Logistics centers
Sports facilities

Without powder coating

Configurator

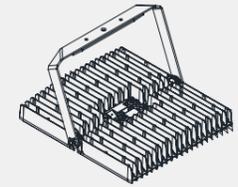
CE IP66 RoHS IK10



R4 with driver installed



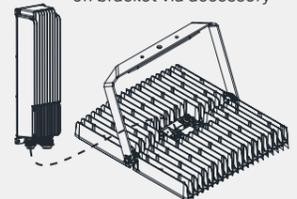
230 V (IP20)



R4 with driver mounted on bracket via accessory



220 V-415 V (IP66)



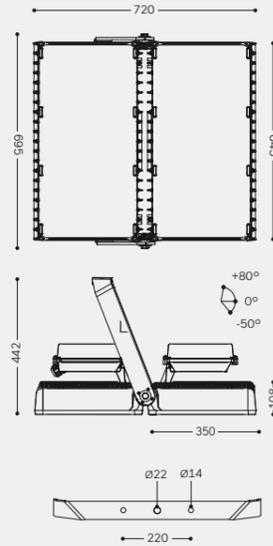
R4 with driver remote



220 V-415 V (IP66)



230 V (IP20)



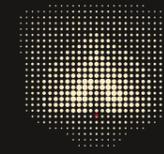
Precision lens optics
* also available in satiné version



EP09-L
Asymmetric Extra Forward Left



EP09-R
Asymmetric Extra Forward Right



EP09-L/R
Asymmetric Extra Forward Left/Right



3,000 K*
CRI ≥ 70

4,000 K*
CRI ≥ 70

5,700 K*
CRI ≥ 70

* additional light colors and CRI on request

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 | 0.9 | 36.5 |
| R4 + Driver installed | 0° | 0.54 | 0.13 | 50.0 |
| R4 + Driver on bracket | 0° | 0.54 | 0.18 | 44.5 |
| R4 + Driver on bracket + FCO | 6° | 0.56 | 0.18 | 47.5 |

⊕¹ Projected windage area [m²]
⊖² Lateral windage area [m²]
⊕³ Weight with bracket L

Performance

| | EP09-L | EP09-R | EP09-L/R |
|-------------------------------|---------|--------|----------|
| Distribution | | | |
| Beam angle | - | - | - |
| Full Cut Off (Tilt) | 6° | 6° | 6° |
| MacAdam ellipses (SDCM) | ≤ 5 | | |
| Nr. of LEDs | 288 | | |
| Lum. flux max. [lm] (5,700 K) | 199,000 | | |

Electrical

E-Series

| | |
|-------------------|----------------|
| Protection class | I |
| Voltage [V], [Hz] | 220-415, 50/60 |
| Current max. [mA] | 1,850 |
| Power max. [W] | 1,580 |

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator 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 | |

Accessories



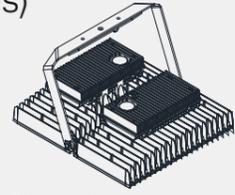
Bird Spike Full-Cut-Off visor Backlight shield Laser Pointer RedDot Slide



R-System gen4

R4 480 LED (A-Series)

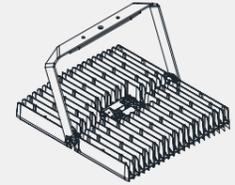
Airports,
Harbor
Logistics centers
Sports facilities



R4 with driver installed



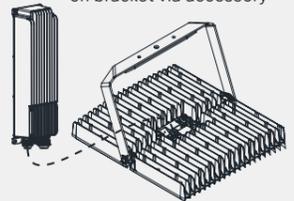
230 V (IP20)



R4 with driver mounted on bracket via accessory



220 V-415 V (IP66)



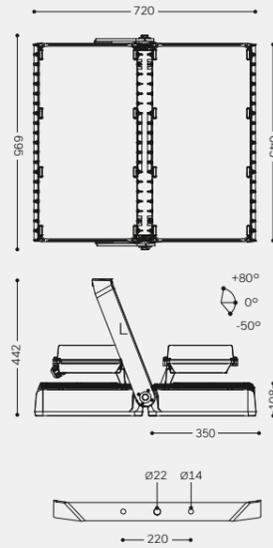
R4 with driver remote



220 V-415 V (IP66)



230 V (IP20)



Without powder coating

Configurator

CE 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 | 0.9 | 36.5 |
| R4 + Driver installed | 0° | 0.54 | 0.13 | 50.0 |
| R4 + Driver on bracket | 0° | 0.54 | 0.18 | 44.5 |
| R4 + Driver on bracket + FCO | 10° | 0.56 | 0.18 | 47.5 |

① Projected windage area [m²]
② Lateral windage area [m²]
③ Weight with bracket L

Operating conditions

| | |
|----------|--|
| Lifetime | Visit the configurator 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] | 1,740 |

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



AG01
Symmetric Narrow 12°



AG02
Symmetric Medium 27°



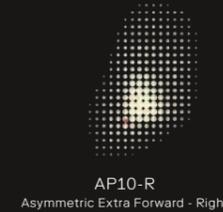
AG03
Symmetric Flood 48°



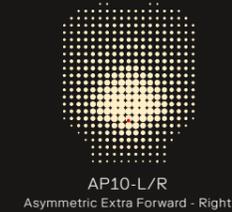
AG04
Symmetric Elliptical 10°x40°



AP10-L
Asymmetric Extra Forward - Left



AP10-R
Asymmetric Extra Forward - Right



AP10-L/R
Asymmetric Extra Forward - Right



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 | AP10-L | AP10-R | AP10-L/R |
|-------------------------------|---------|------|------|---------|--------|--------|----------|
| Distribution | | | | | | | |
| Beam angle | 11° | 26° | 50° | 10°x40° | 60° | - | - |
| Full Cut Off (Tilt) | - | - | - | - | 10° | 10° | 10° |
| MacAdam ellipses (SDCM) | ≤ 5 | | | | | | |
| Nr. of LEDs | 480 | | | | | | |
| Lum. flux max. [lm] (5,700 K) | 250,200 | | | | | | |

Accessories



Bird Spike



Full-Cut-Off visor



Laser Pointer



RedDot

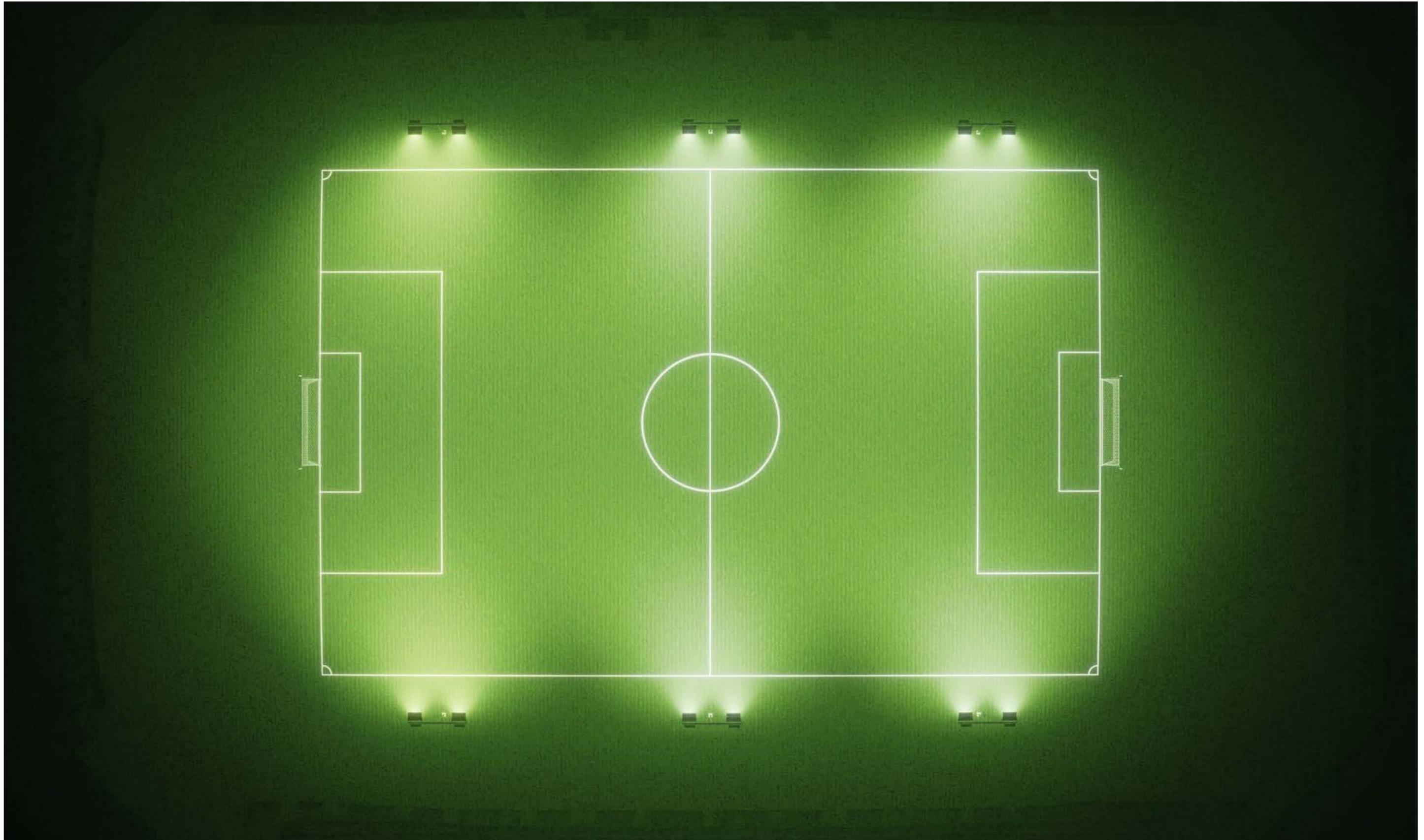


Slide

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 |
| | | 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 |
| R2 | 144 | EP09-L | PMMA | 400 | 1,850 | 28,400 | 99,500 | 173 | 790 | 172.4 | 129.5 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| | | EP09-R | PMMA | 400 | 1,850 | 28,500 | 99,500 | 173 | 790 | 172.4 | 129.5 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| | | EP09-L/R | PMMA | 400 | 1,850 | 28,500 | 99,500 | 173 | 790 | 172.4 | 129.5 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| 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 |
| | | AP10-L | PC | 500 | 1,200 | 56,100 | 113,900 | 350 | 870 | 153.3 | 128.2 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| | | AP10-R | PC | 500 | 1,200 | 56,100 | 113,900 | 350 | 870 | 153.3 | 128.2 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| | | AP10-L/R | PC | 500 | 1,200 | 55,000 | 111,700 | 350 | 870 | 150.3 | 125.6 | 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 |
| | | AP10-L | PC | 500 | 1,200 | 78,500 | 159,500 | 490 | 1,200 | 153.3 | 128.2 | 220V-415V | 66 | R, B |
| | | AP10-R | PC | 500 | 1,200 | 78,500 | 159,500 | 490 | 1,200 | 153.3 | 128.2 | 220V-415V | 66 | R, B |
| | | AP10-L/R | PC | 500 | 1,200 | 77,000 | 156,500 | 490 | 1,200 | 150.3 | 125.6 | 220V-415V | 66 | R, B |
| R4 | 288 | EP09-L | PMMA | 800 | 1,850 | 105,800 | 199,000 | 684 | 1,580 | 162.2 | 129.5 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| | | EP09-R | PMMA | 800 | 1,850 | 105,800 | 199,000 | 684 | 1,580 | 162.2 | 129.5 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| | | EP09-L/R | PMMA | 800 | 1,850 | 105,800 | 199,000 | 684 | 1,580 | 162.2 | 129.5 | 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 |
| | | AP10-L | PC | 500 | 1,200 | 112,200 | 227,900 | 700 | 1,740 | 153.3 | 128.2 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |
| | | AP10-R | PC | 500 | 1,200 | 112,200 | 227,900 | 700 | 1,740 | 153.3 | 128.2 | 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 | 150.3 | 125.6 | 220V-240V / 220V-415V | 20 / 66 | I, R, B / R, B |

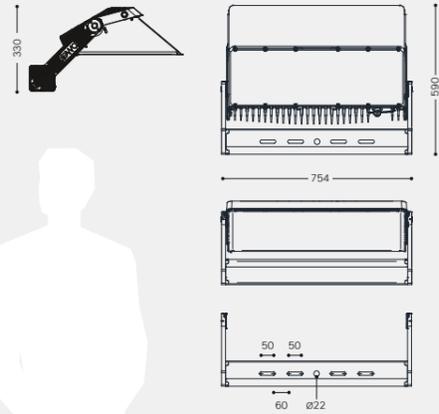
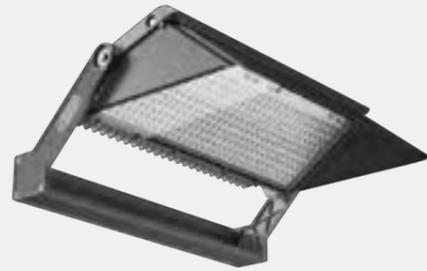


**A**
SERIES

RIVAL

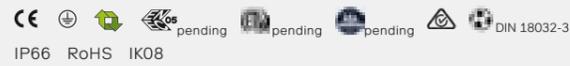
ready to compete

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



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}° ① | I_{l}° ② | Weight [kg] ③ |
|-----------------|-------------------|-------------------|---------------|
| RIVAL (FCO 10°) | 0.38 | 0.2 | 29.0 |
| RIVAL (FCO 30°) | 0.39 | 0.22 | 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 7.0 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 DIM-BDM | Z |
| 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



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 | AF02 | AP10-L | AP10-R | AP10-L/R |
|-------------------------------|----------|------|--------|--------|----------|
| Beam angle | 55° | 44° | 65° | 65° | 65° |
| Full Cut Off (adjustable ±5°) | 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?
For all the latest updates, visit our website and follow us on social media:
ewo.com

| | |
|---------------------------------|-------------------------|
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| +39 0471 623 087 | YouTube (ewo) |
| mail@ewo.com | |
| ewo.com | |

| | | | |
|----------------------|---------------------|-------------------------------|-----------------------------|
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Errors and omissions excepted. Subject to change.

| | |
|-----------------|---------------------------------------|
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| Copyright: | ©ewo srl/GmbH |
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| Project Lead: | Anabel Nächt |

