SONATA

Luminaire design: ECLATEC

Primarily designed for bracket mounting on facades, **SONATA** has been designed like a light and discrete partition. Its lines, elusive and slender, melt with discretion into various urban scenario's. **SONATA** excels in narrow streets, mounted on brackets and thus without impact on pedestrian routes, **SONATA** lights roadways up to 9 metres wide.

SONATA is equipped with an integrated connection box and a reversible mounting base which adapts to various connection cases and therefore avoids ugly electrical connections.

Optionally, the upper face of **SONATA** can accept a retro-lighting module for facades, controlled by an astronomical clock where necessary, so as to comply with nocturnal shutoff regulations without requiring double cabling.

The **SONATA** luminaire is also suitable for pole mounting with an original mounting extending the pole upwards for 1 to 3 superimposed lights.

INTEGRATED BLS STRIPS

BACKLIGHTING

Sonata Top

Sonata with detector

Sonata O (backlighting)

ECLATEC

RoHS | IP 66 | IK 10 | SONATA : 4-6 m

SONATA wall-mounted

SONATA wall-mounted O

SONATA top

APPLICATIONS

• Mounting: wall-mounted, top

• Urban streets, pedestrian routes, cycle paths, residential lighting, town-centre, architectural emphasis

• Recommended heights: 4 to 6 m

DESCRIPTION

• Body, canopy and plate made of injected die-cast aluminium

• Silkscreen printed, thermally toughened flat glass

• Polyester powder coating, any colour available

• IP 66 / IK 10 / Class I or II

• Convertible wall-mounted plate for guiding cable from above or from the underside

• Standard BLS LED strips equipped with **QUADRALENS** lenses

• Colour temperature: 2400 K, 2700 K, 3000 K or 4000 K

• Option: protective device against overcurrent and short circuits and / or integrated fuse holder in the luminaire

BACKLIGHTING (VERSION O)

• op-mounted RGBW LED in the luminaire cover, adjustable from 0° to 10° with external setting.

• PC bowl

• Narrow or wide beam with ORALENS lenses

• Externally adjustable optical unit for more precise adjustment

• DMX control (through wiring with 2 extra dedicated cable glands), multitude of colours and variations

• Dedicated power supply: backlighting switched off programmatically (cf. decree of 25 January 2013 relating to the night lighting of non-residential buildings)

CITIZEN REFERENCE POINTS

• Materials used: Aluminium 65%, Other 16%, Glass 10%, Steel 8%, Plastic 1%

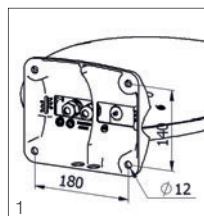• Complies with the RoHS directive
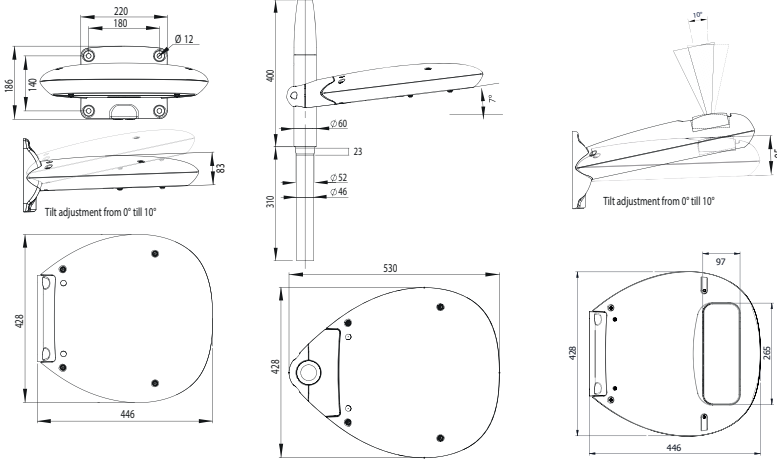
• High recyclability rate

WATERPROOFING

• IP 66 waterproofing in accordance with the standard EN 60 529

• Extruded silicone gasket

• 2 anchored cable glands (through wiring possible)
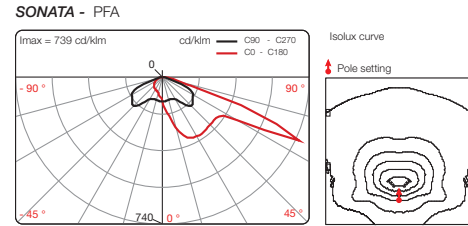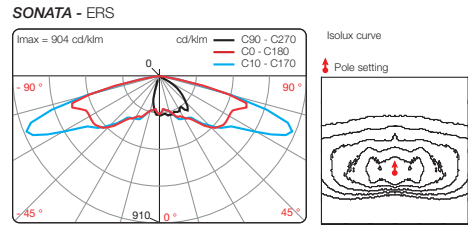
• Breathing system with activated carbon filter

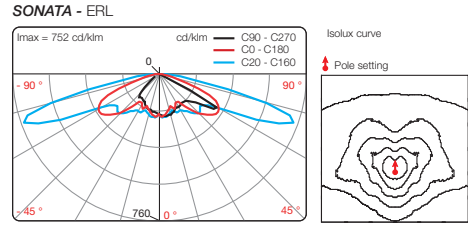## MECHANICAL INTERFACES

• {1} Wall-mounted bracket: 4 holes Ø 12 space between centers 180 mm x140 mm
 - Tilt 0°, 2.5°, 5°, 7.5° and 10°
 - Luminaire tilted at 2°

• {2} Post top version with 1 to 3 arms: male bracket fastening
 Ø 60/Ø 62 mm (see page 278)
 - Tilt 7°

180   Ø 12

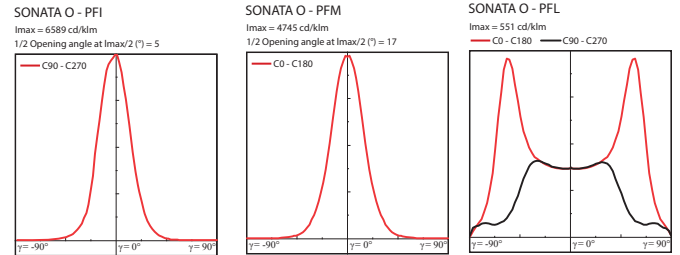1   2

PHOTOMETRIC DISTRIBUTIONS

Sonata wall-mounted

Tilt adjustment from 0° till 10°

Sonata top

Sonata O

Tilt adjustment from 0° till 10°

SONATA - ERL

Imax = 752 cd/klm

cd/klm
— C90 - C270
— C0 - C180
— C20 - C160

Isolux curve

Pole setting

SONATA - ERS

Imax = 904 cd/klm

cd/klm
— C90 - C270
— C0 - C180
— C10 - C170

Isolux curve

Pole setting

SONATA - PFA

Imax = 739 cd/klm

cd/klm
— C90 - C270
— C0 - C180

Isolux curve

Pole setting

SONATA O - PFI
Imax = 6589 cd/klm
1/2 Opening angle at Imax/2 (°) = 5
— C90 - C270
γ= -90°   γ= 0°   γ= 90°

SONATA O - PFM
Imax = 4745 cd/klm
1/2 Opening angle at Imax/2 (°) = 17
— C0 - C180
γ= -90°   γ= 0°   γ= 90°

SONATA O - PFL
Imax = 551 cd/klm
— C0 - C180   — C90 - C270
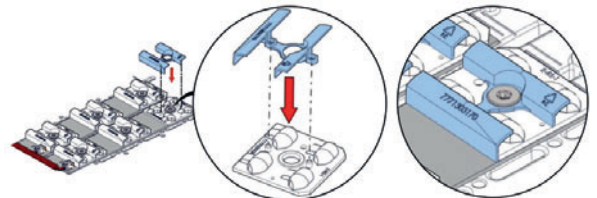γ= -90°   γ= 0°   γ= 90°

KEY POINTS

		SONATA	SONATA O
Applications		Urban streets, pedestrian routes, cycle paths, residential lighting, town-centre Only Sonata O: architectural emphasis	
Recommended heights		4 to 6 m	
Mounting		Top fixation 1 to 3 arms and wall-mounted bracket	wall-mounted bracket
Dimensions	**Length width height**	446 mm 428 mm 83 mm	446 mm 428 mm 95 mm
Weight		7,5 kg	
Windage area		0,05 m²	
Sources		BLS strips	BLS strips + RGBW LED adjustable façade backlighting
Sources access		Direct access to the gear by removing the canopy fixed with 4 high-helix lead screws	Direct access to power units after removing cover fastened by 4 captive high helix screws
Optics and light distribution options		QUADRALENS[1]: ERS, ERL, ECa, ERE, LRS, LRL, PFA, EPD, EPG, ETS	QUADRALENS[1]: ERS, ERL, ECa, ERE, LRS, LRL, PFA, EPD, EPG, ETS Backlighting: PFI, PFM, PFL
OPTIONS	**BACKLIGHTING**	–	O
	Backlight shield[1] (factory or site assembly)	O	O
	SMART-READY® [2] by Eclatec (construction)	O	O
	DALI (construction)	O	O
	Dimming 5 (preset)	O	O
	CLO (preset)	Compatible with standard version, Dimming 5, Motion 5 or DALI option	Compatible with standard version, Dimming 5 or DALI option
	Motion 5 (preset)	O	–
	Motion (setting on site)	O	–
	Motion COM (setting on site)	O	–
	Motion P (set in the bottom of the pole)	O	O
	Motion DALI (set in the bottom of the pole)	O	–
	POLEDRIVE (set in the bottom of the pole)	O*	O*

(1) Backlight shield optional except for EPD, EPG, ECa

(2) Preconfigured communicating system: Wired Sensor Ready type driver and Zhaga consortium base

*Pole base option for post top luminaires, inside the luminaire for the wall-mounted version

Glossary:

● Standard   O Option   – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: R**o**ad/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: N**a**rro**w**/Standard/Wide/Asymmetric/Right/Left, **POLEDRIVE:** preset at the bottom of the pole / night diming calculator with 2 configurable thresholds, set in the bottom of the pole, **Dimming 5:** night diming calculator with 5 configurable thresholds, **Motion:** moving sensor, **Motion P:** Configurable offset presence detector at the foot of the pole, **Motion DALI:** Detector integrated to the luminaire, adjustable at pole base, **Motion 5:** Motion sensor and dimming calculator, **Motion COM:** Wireless detection and communication, **DALI:** compatible with the DALI protocol, **CLO:** Constant Lumen Output option

BACKLIGHT SHIELD

Backlight shield BLS version

MAINTENANCE

Lighting equipment maintenance
Direct access to the gear by removing the canopy fixed with 4 high-helix lead screws

Source maintenance
Access to BLS strips and lenses after removal of the glass bowl attached with 4 screws.

RGBW retro-lighting module maintenance
Quick electrical disconnection of the LED module without tools. Removable LED module (2 screws).

ECLATEC