Réalité Augmentée

CHORUS

Luminaire design: ECLATEC

CHORUS exists by way of a disconcerting simplicity, without tricks, but also asserts itself beyond this apparent facility as the eye quickly recognises that its discretion is welcome.

Its silhouette avoids banality because of its reassuring balance; it holds the eye just as it should in the urban panorama, without exaggeration, by offering a catch-all relevance that is continually renewed.

CHORUS accepts **ORALED** modules 1 and 2 or **REOLED** modules 1 and 2. In X version, **CHORUS X** receives **XEOLED** modules 1 and 2.

ORALED MODULE

REOLED MODULE

XEOLED MODULE

INTEGRATED BLS STRIPS

Chorus X on top spigot

Chorus on Kino bracket

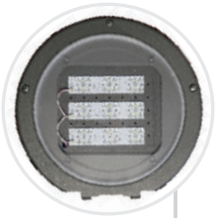
Chorus on Alto bracket

CHORUS

RoHS | IP 66 | IK 10 | CHORUS 45 : 4-6 m | CHORUS 55 : 6-10 m

CHORUS 45 With ORALED 1 module

CHORUS 55 With REOLED 2 module



APPLICATIONS

- Mounting: top, bitop and side entry
- Chorus 45: Pedestrian areas, cycle paths, residential areas, street lighting
  Chorus 55: Roads, secondary urban and inter-urban streets
- Recommended heights: Chorus 45: 4 to 6 m / Chorus 55: 6 to 10 m

DESCRIPTION

- Luminaire available in 2 sizes: Chorus 45 and Chorus 55
- Body and frame in injected die-cast aluminium
- Spun aluminium dome
- Polyester powder coating, any colour available
- IP 66
- Class I or II
- 2 types of sources:
  ORALED 1 and 2 modules :
  - equipped with an **ORALENS** mono lens in PMMA, IK 08, module colour grey 2150 sanded or 2900 sanded
  - colour temperature: 3000 K or 4000 K

  REOLED 1 and 2 modules:
  - equipped with BLS with **QUADRALENS** lenses and PC bowl, IK 10, module colour grey 2900 sanded
  - colour temperature: 2400 K, 2700 K, 3000 K or 4000 K

CITIZEN REFERENCE POINTS

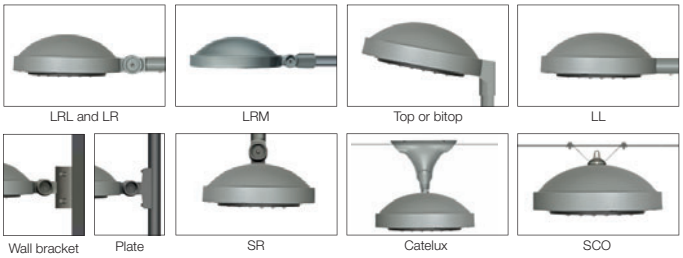
- Materials used:
  - Chorus 45: Aluminium 84%, Other 9%, Steel 4%, Plastic 3%
  - Chorus 55: Aluminium 86%, Other 7%, Steel 4%, Plastic 3%
- Complies with the RoHS directive
- High recyclability rate

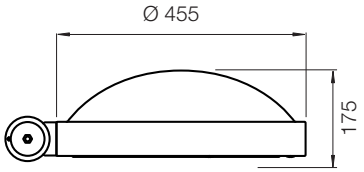
WATERPROOFING

- IP 66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

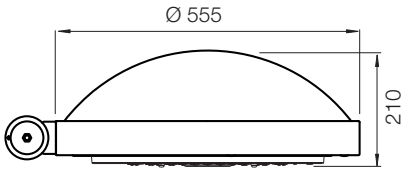
MECHANICAL INTERFACES

- LRL: Chorus Side entry with plain swivel joint coupled with sleeve for bracket end with external Ø 60 mm. Tilts from -90° to + 90° (see page 278 - E, F)
- LRM: Chorus Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm and Ø 42 mm outside
- LR: Chorus side entry with swivel joint and Ø ¾" thread. Tilts from -90° to + 90° (see page 278 - G)
- Top or Bitop fitting for pole Ø 60/62 mm / l=100 mm
  For pole Ø 76 mm top, optional spigot A (see page 278) Luminaire tilted at 0° and 10°
- LL: Chorus side entry coupled with sleeve for bracket end with external Ø 60 mm (see page 278 - E, F)
- Chorus on cast aluminium plate (see page 278 - J)
- Chorus on cast aluminium wall bracket
- SR: Chorus suspended with swivel joint (see page 278 - H)
- CATELUX: Chorus with SM Ø 27 pdg (G3/4") fixation. Fixation on 5 to 14 mm diameter mechanical cable
- SCO: Chorus on catenary mounting. Fixation on 5 to 14 mm diameter mechanical cable





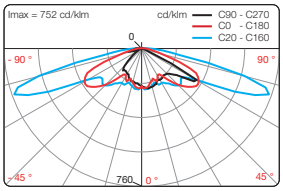
Chorus 45 - BLS STRIPS

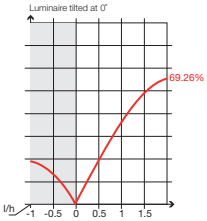


Chorus 55 - ORALED

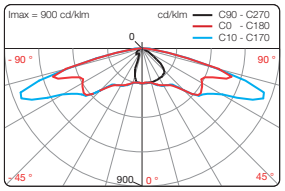
PHOTOMETRIC DISTRIBUTIONS

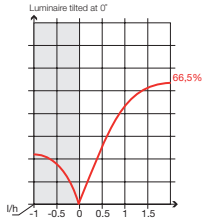
ORALED - ERL



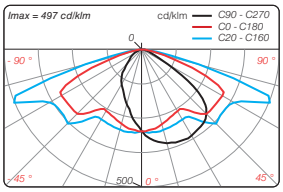


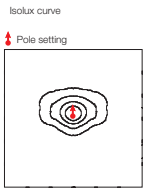
ORALED - ERS



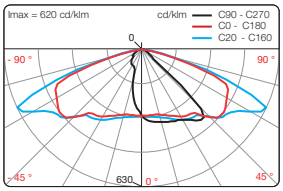


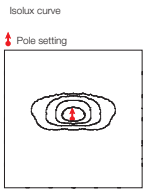
ORALED BLS - LRL





ORALED BLS - LRS





KEY POINTS

		CHORUS 45	CHORUS 55
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 10 m
Mounting		Top, bitop and side entry	
Dimensions	**Ø** **height**	455 mm 175 mm / 158 mm	555 mm 210 mm / 193 mm
Weight		9,9 kg	13,7 kg
Windage area		0,07 m²	0,09 m²
Sources		**ORALED 1**	**ORALED 2**
		REOLED 1	**REOLED 2**
Sources access		Removable **ORALED and REOLED** modules	
Optics and light distribution options		**ORALENS:** ECL, ERS, ERL, LRM	**ORALENS:** ERS, ERL, LRM, LRE
		QUADRALENS(1)**:** ERS, ERL, ECa, LRS, LRL, ERE, ETS, PFA, EPD, EPG	**QUADRALENS**(1)**:** ERS, ERL, ERE, LRS, LRL, PFA, ECa
Power supply current (mA)		100 to 700 mA	
OPTIONS	**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	
	Motion 5 (setting on site)	o	-
	Motion (setting on site)	o	-
	Motion DALI (set in the bottom of the pole)	o*	-
	Motion P (set in the bottom of the pole)	o	o
	Motion COM (setting on site)	o	o
	POLEDRIVE (set in the bottom of the pole)	o	o

(1) Backlight shield optional except for EPD, EPG, ECa * Option only available with BLS STRIPS

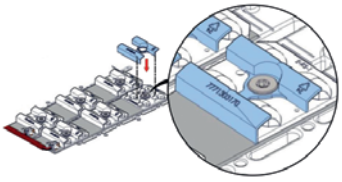
(2) Preconfigured communicating system: Wired Sensor Ready type driver and Zhaga consortium base. Be sure to hold the connector when installing the module

Glossary:

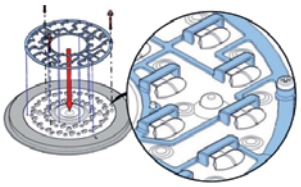
● Standard o Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/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



Backlight shield ORALED version

MAINTENANCE

Opening and closing

Opening of the luminaire by 3 quarter-turn screws.
The module swivels around a hinge in aluminium.

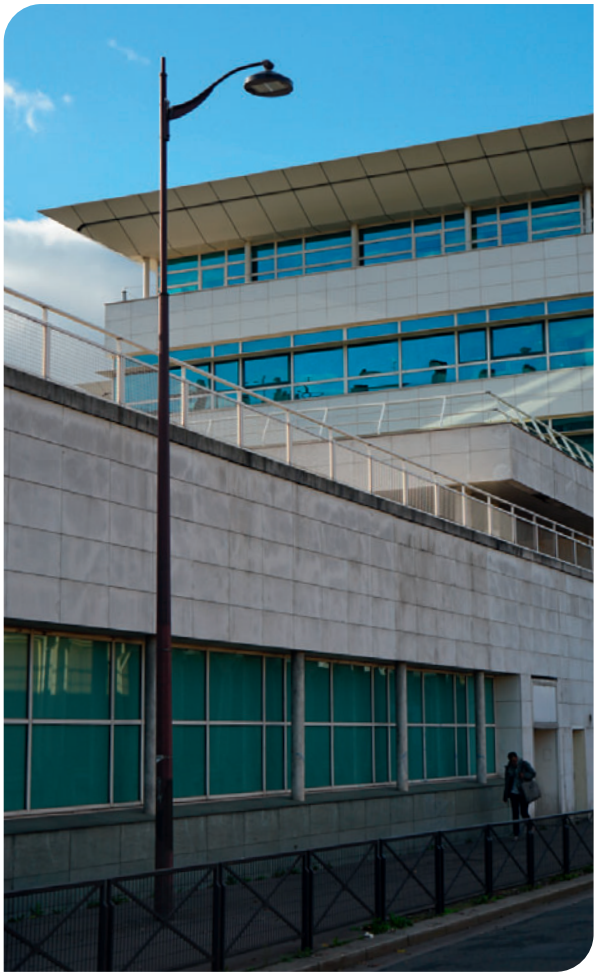
LED module maintenance

Direct access to the module, removable.
Power supply by quick connectors.

LED LUMINAIRES

CHORUS X

RoHS | IP 66 | IK 10 CHORUS 45 X | IK 08 CHORUS 55 X | CHORUS 45 X : 4-6 m CHORUS 55 X : 6-10 m



CHORUS 45 X

CHORUS 55 X

APPLICATIONS

- Mounting: top, high and lateral
- Chorus 45 X: Pedestrian areas, cycle paths, residential areas, street lighting
  Chorus 55 X: Roads, secondary urban and inter-urban streets
- Recommended heights: Chorus 45 X: 4 to 6 m / Chorus 55 X: 6 to 10 m

DESCRIPTION

- Body, cover, flaps and module in injection moulded aluminium
- Bowl in thermally tempered glass
- Polyester powder coating, any colour available
- IP 66
- IK 10: Chorus 45 X / IK 08: Chorus 55 X
- Classe 1 or 2
- **XEOLED** 1 and 2 modules equipped with BLS with **QUADRALENS** lenses
- Colour temperature: 2400 K, 2700 K, 3000 K or 4000 K

CITIZEN REFERENCE POINTS

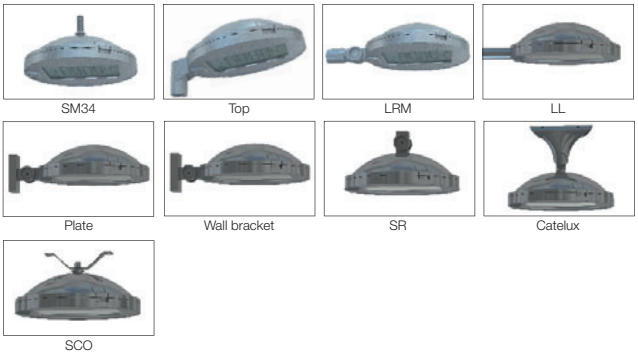
- Materials used:
  - Chorus 45 X: Aluminium 75%, Steel 8%, Glass 6%, Other 11%
  - Chorus 55 X: Aluminium 73%, Steel 5%, Glass 12%, Other 10%
- Complies with the RoHS directive
- High recyclability rate

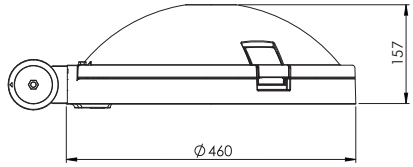
WATERPROOFING

- IP 66 waterproofing in accordance with the standard EN 60 529
- Extruded pneumatic silicone gasket
- Cable gland with anchoring device
- Breathing system with activated carbon filter

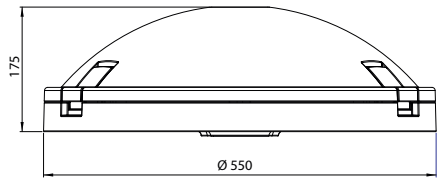
MECHANICAL INTERFACES

- SM34: High mounting for 34 Pdg ball
- TOP: wrapping for Ø 60/62 mm pole / l=100 mm
  For standard Ø 76 mm pole, special tip available as an option
  luminaire tilt at 0° and 10°
- LRM: Chorus X Smooth Lateral Ball with wrapping sleeve for the end of the cross-arm Ø 60 mm outside and Ø 42 mm
- LL: side entry coupled with sleeve for bracket end with external Ø 60 mm
- Cast aluminium plate
- Cast aluminium wall bracket
- SR: suspended with swivel joint
- CATELUX: SM Ø 27 pdg (G3/4") fixation. Fixation on 5 to 14 mm diameter mechanical cable
- SCO: Catenary mounting. Fixation on 5 to 14 mm diameter mechanical cable





CHORUS 45 X



CHORUS 55 X

KEY POINTS

		CHORUS 45 X	CHORUS 55 X
Applications		Pedestrian areas, cycle paths, residential areas, street lighting	Roads, secondary urban and inter-urban streets
Recommended heights		4 to 6 m	6 to 10 m
Mounting		top, high and lateral	
Dimensions	**Ø** **height**	460 mm 157 mm	550 mm 175 mm
Weight		9,0 kg	12,5 kg
Windage area		0,07 m²	0,09 m²
Sources		XEOLED 1	XEOLED 2
Sources access		Opening and replacement without tools of the equipment or the LED module	
Optics and light distribution options		QUADRALENS(1)	
		ERS, ERL, ERE, ETS, ECa, LRS, LRL, PFA, EPD, EPG	ERS, ERL, ERE, LRS, LRL, PFA, ECa
OPTIONS	**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 and DALI option	
	Motion P (set in the bottom of the pole)	o	o
	Motion COM (preset)	o	o
	POLEDRIVE (set in the bottom of the pole)	o	o

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

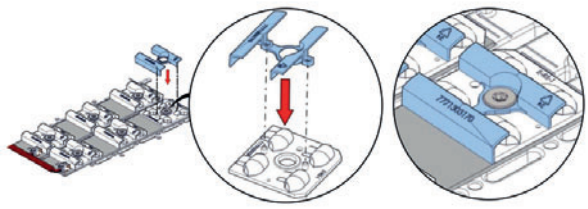
(2) Preconfigured communicating system: Wired Sensor Ready type driver and Zhaga consortium base

Glossary:

● Standard o Option – Not available

E/**L**/**P**: Lighting/Luminance/Projection, R/C/**T**/**F**/**P**: Road/Circulation/Path/Beam/Pedestrian walkway, E/S/L/A/**D**/**G**: Narrow/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

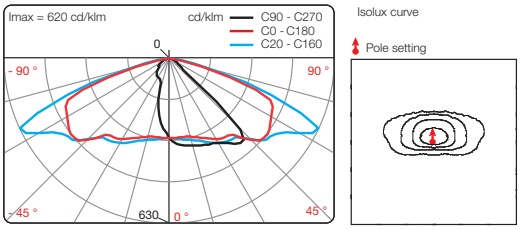
BACKLIGHT SHIELD



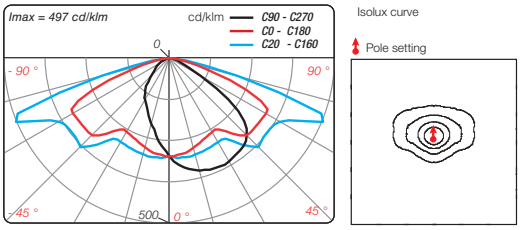
Backlight shield XEOLED version

PHOTOMETRIC DISTRIBUTIONS

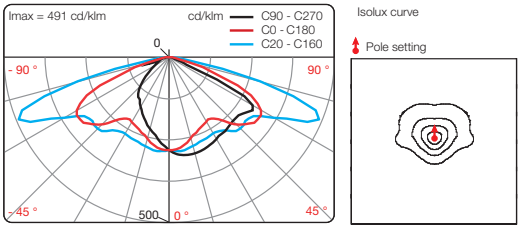
CHORUS X - LRS



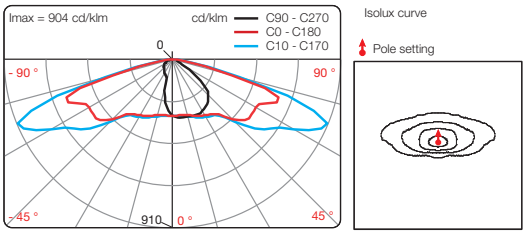
CHORUS X - LRL



CHORUS X - ERL



CHORUS X - ERS



MAINTENANCE

Opening and closing

The luminaire cover can be opened without tools using the 2 flaps {1}

The luminaire is held in the open position by a safety prop. {2}

Source maintenance

Automatic cutting of the power supply when the luminaire is opened by a dedicated ECLATEC connector

Quick electrical disconnection without tools.

Equipment circuit board removable onsite without tools

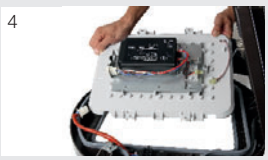
Complete LED module removable onsite without tools {3, 4}

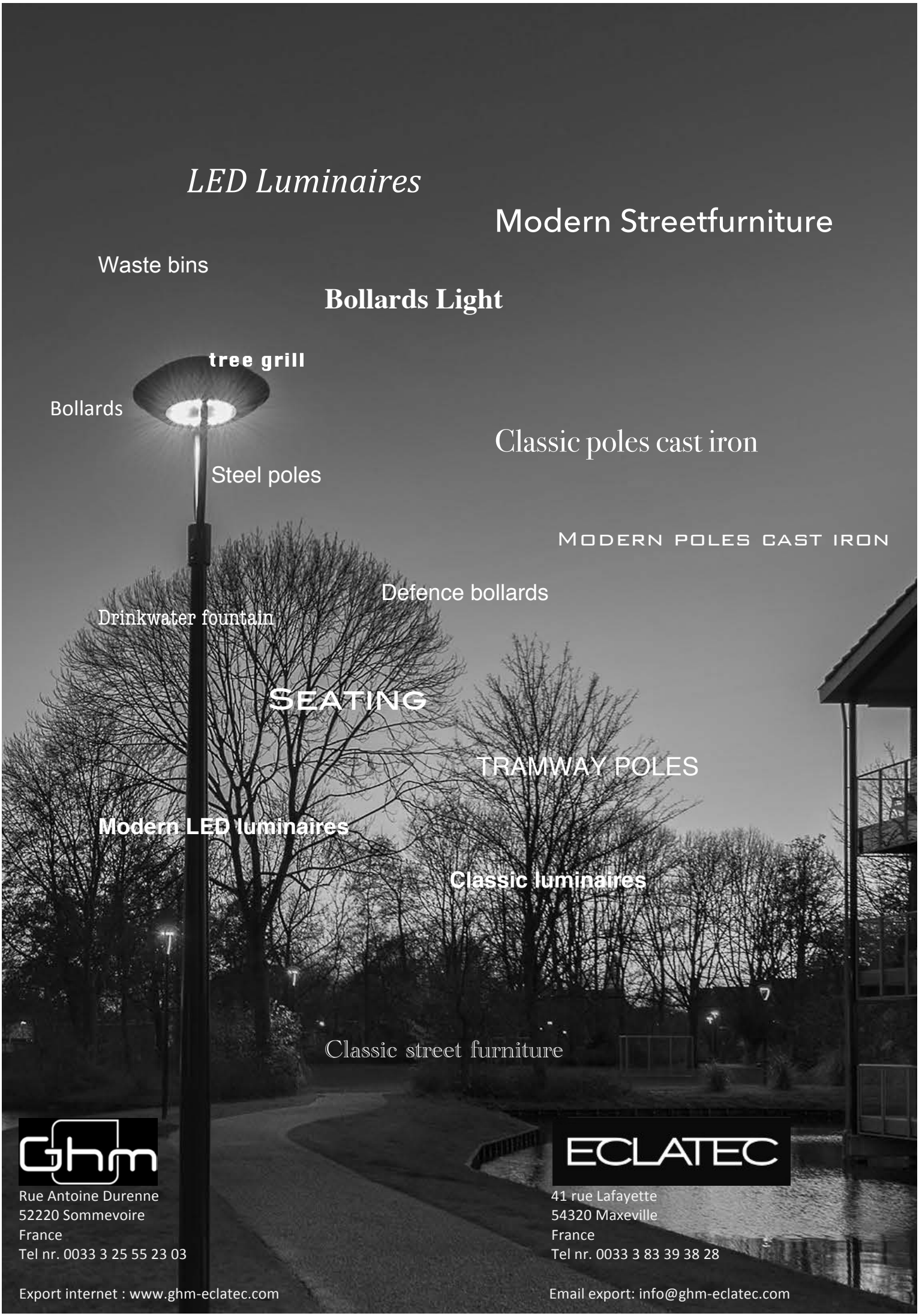
1

2

3

4





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