# XEON

**Configuration**

XEON TOP spigot
Column height: 5 m

**Configuration**

XEON in clusters
TOP Spigot
Column height: 6 m

**Configuration**

Tilted column
Column height: 7 m

**Configuration**

XEON wall bracket

**Configuration**

Needle column
Column height: 8 m

# XEON FLOODLIGHT

XEON 1
Conical mount

## INTRODUCTION:

ECLATEC XEON is a comprehensive floodlight and IoT system that provides the backbone of a SMART city/campus. Via the addition of a range of mounting and functional components and accesories, XEON can be adapted to the needs of any project. The contiguous design permits specifiers to establish a unified look and feel throughout a neighbourhood. Available in a number of colours and mountings to suit different pole designs.

## DESCRIPTION

| Product name | XEON 1 | XEON 2 | XEON 3 |
|---|---|---|---|
| Housing | Injection die-cast aluminium body | | |
| Bowl | Thermally toughened glass | | |
| Finish | Polyester powder coating, any colour available | | |
| Impact protection | IK 09 | IK 10 | |
| Ingress Protection | IP66<br>Extruded silicone gasket<br>Cable gland with anchoring device<br>Breathing system with activated carbon filter | | |
| Dimensions (dia x h) | 200 x 178 mm | 240 x 209 mm | 300 x 262 mm |
| Weight | 3.3kg | 3.9kg | 5.5kg |
| Windage area | 0.03m² | 0.04m² | 0.06m² |
| Electrical class | Class I or II | | |
| Wiring | Luminaire pre-wired in the factory | | |

## OPTICAL OPTIONS

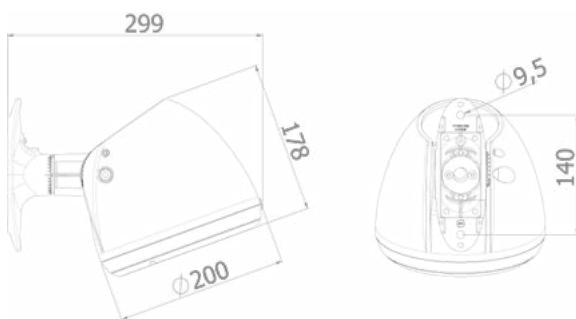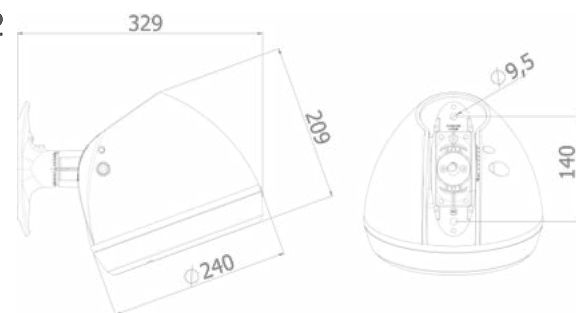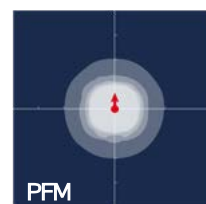| Sources | COB | XEON |
|---|---|---|
| Colour temperature | 2700 K, 3000 K, 4000 K | |
| Optical Distribution | UNILENS | ORALENS |
| | PFI, PFM, PFL | PFI, PFM, PFL, ERS, ERL |
| Power supply current | Adjustable up to 700 mA | |

LED Module
(ORALENS type)

LED Module
(UNILENS type)

ERS

PFI
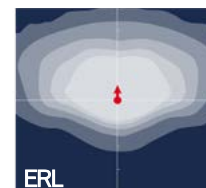
ERL

PFM

PFI

PFL

PFM

PFL

## DIMENSIONS

### Xeon 1

299
178
Ø9,5
140
Ø200

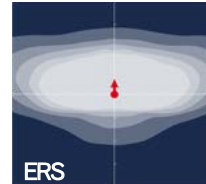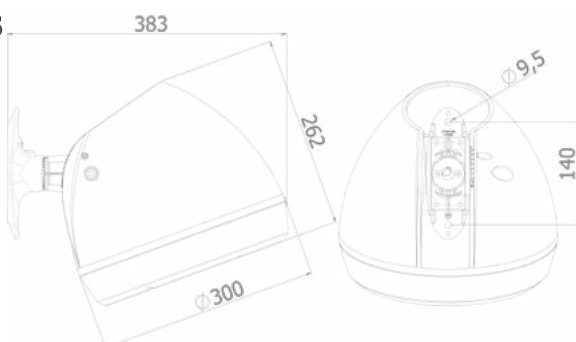### Xeon 2

329
209
Ø9,5
140
Ø240

### Xeon 3

383
262
Ø9,5
140
Ø300

XEON 2
Conical mount



XEON 3
Conical mount



## CONTROL OPTIONS

XEON by Eclatec represents the latest in control systems, both centralised and decentralised. Adjustable current on the driver or at the bottom of the pole. Dimming as above as well as via bluetooth and DALI Protocol. All form factors support remote detection. Smart-Ready(R) configuration (ZD4i). When used with a local network, communication can be detected with a pilot wire and/or wireless communication sensing. Remote management via WIZARD CMS system. Details of the funtions available on enquiry.

## MAINTENANCE

Projector opening with 3 captive screws (safety wire). Rapid electrical disconnection without tools. Removable LED module on site.

## MOUNTING OPTIONS

Mounting for conical or cylindro-conical pole
Tilts:
Position indicators in increments of 5°
- Adjustment on the horizontal plane: -60° to +60° with end stop, screw lock
- Max. adjustment on the vertical plane: 0° to +75°, screw lock

Wall bracket via specific slider
Spacing: 140 mm

Lateral mounting bracket
Tilts:
- Adjustment in the horizontal plane: - 75° to + 75° (illumination upward or downward), ATTENTION graduations range only from -40° to +40° with limit stop, locked by screw
Max adjustment in the vertical plane:
  XEON 1: -15° to +60°, locked by screw
  XEON 2: -15° to +65°, locked by screw
  XEON 3: -15° to +70°, locked by screw

XEON Top penetrating fixing for pole ø60 / ø62 mm x 324mm.
  XEON 1: from 5° to 85°, h = 184 to 345 mm
  XEON 2: from 5° to 90°, h = 164 to 365 mm
  XEON 3: from 5° to 95°, h = 128 to 397 mm

Post top bracket, outreach 515 mm for XEON 1, 538 mm for XEON 2 and 578 mm for XEON 3

## ACCESSORIES



Anti-glare grill

Visors

Canon

XEON RGBW
Conical mount

## XEON RGBW

| Product name | XEON 1 | XEON 2 | XEON 3 |
|---|---|---|---|
| Applications | Heritage building enhancement, illumination, visual accentuation | | |
| Static colours | Monochromatic lights, red, green, blue, white and combinations of these four colours | | |
| Chromatic variations | Chromatic variations | | |
| Control | DMX protocol (DALI protocol on request) | | |
| Programmation | Optional programming of the driver, for fixed colours or chromatic variations, using a programming module | | |
| Wiring | Prewiring of DMX in the factory | | |
| Watts/lumens | Click to view | | |

### XEON 1

| Intensity (mA) | 700 | |
|---|---|---|
| Optical Distribution | PFL (Aperture at Imax/2 = 36°) PFM Aperture at Imax/2 = 22°) | |
| Color | Outgoing flow (lm) | Power (W) |
| Red | 160 | 10 |
| Green | 360 | 11 |
| Blue | 85 | 11,5 |
| White | 590 | 11 |

### XEON 2

| Intensity (mA) | 700 | |
|---|---|---|
| Optical Distribution | PFI with 10° diffuser or 30° diffuser | |
| Color | Outgoing flow (lm) | Power (W) |
| Red | 650 | 15 |
| Green | 940 | 18 |
| Blue | 235 | 18 |
| White | 925 | 18 |

### XEON 3

| Intensity (mA) | 700 | |
|---|---|---|
| Optical Distribution | PFI with 10° diffuser or 30° diffuser | |
| Color | Outgoing flow (lm) | Power (W) |
| Red | 490 | 11 |
| Green | 710 | 13,5 |
| Blue | 180 | 13,5 |
| White | 700 | 13,5 |

# XEON IoT OPTIONS


XEON
Fixed camera


XEON
CCTV camera


XEON
Loudspeaker

## CCTV CAMERAS

XEON 2 and 3 can integrate CCTV cameras, connected via Web browser, operating day and night.

| Product name | XEON 2 | XEON 3 |
|---|---|---|
| Protocol | Compatible with the protocol defined by ONVIF (Open Network Video Interface Forum: open protocol) and therefore compatible with most security systems | |
| Connection | Internet connection allowing viewing from a control station | |
| Resolution | Full HD 1920x1080, digital zoom, optimization of image quality | |
| Recording | Possible on SD card | |
| Power supply | PoE ou DC | |
| Functionality | Detection | |
| Impact protection | IP 66 | |
| Ingress Protection | IK 10 | |
| Working temperature | -20°C to +50°C | |
| Power | 8 to 10W | |

## PUBLIC ADDRES SYSTEM

XEON 2 and 3 can integrate a loudspeaker allowing voice messages, information or music to be broadcast. This 100 V analog sound system is connected to an on-site audio amplifier, which provides power directly to the speaker.
The audio amplifier is also connected to the audio source.

| Product name | XEON 2 | XEON 3 |
|---|---|---|
| Finitions | Polyester powder coating, any colour available | |
| Electroacoustic system | - Transformer 50 W<br>- Impedance 8 Ω<br>- Sound pressure level 89 dB (1 W / 1 m) to 17 kHz<br>- Frequency response of 250 Hz to 7000 Hz<br>- Working temperature: -40°C à +120°C | |

Spatial distribution



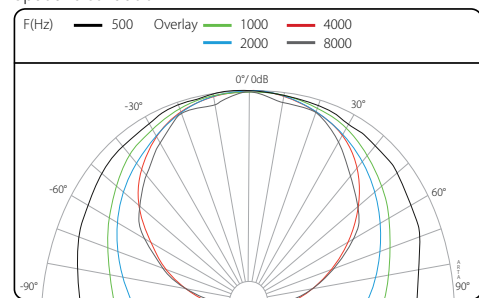Acoustic pressure (1 W / 1 m)





Fixed camera
A discreet solution, with a fixed SAMSUNG camera entirely integrated into the projector and three compatible lenses according to the installation height, the field of view and the area of coverage.
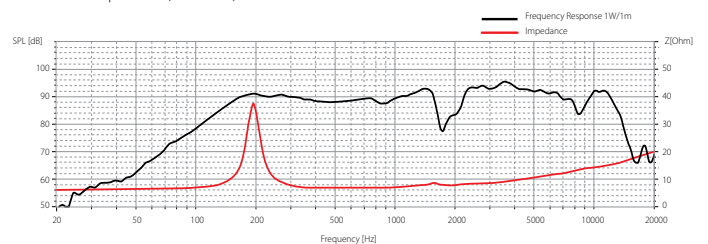
CCTV camera
A dissuasive and visible solution, with an AXIS PTZ camera offering panoramic vision and the possibility of horizontal and vertical movement, allowing objects to be tracked on the move.

# XEON GOBO PROJECTOR



XEON 3
GOBO Projector

## GOBO

XEON 3 can integrate a GOBO projector capable of projecting monochrome or multicolored black and white images or messages up to 12 m.

In order to provide maximum resolution, the optics of GOBOs Floodlights are made of dichroic glass, allowing superior flexibility of colours and light effects, including metallic or pastel colours (metallic GOBOs available).

In addition, the 5500K LED source with IRC 80 provides crisp, clear projection with perfect colour rendering, regardless of the surrounding environment.

| Product name | XEON 3 |
|---|---|
| Housing | Injection cast aluminium body, module and mechanical interfaces |
| Bowl | Heat-tempered and screen-printed glass bowl |
| Finish | In polyester powder coating, in a choice of colours |
| Power | 34 W |
| Impact protection | IK 10 |
| Ingress Protection | IP 66 |
| Weight | 6.8kg |
| Windage area | 0.06m² |
| Electrical class | Class I only |
| Wiring | Pre-wired in the factory |



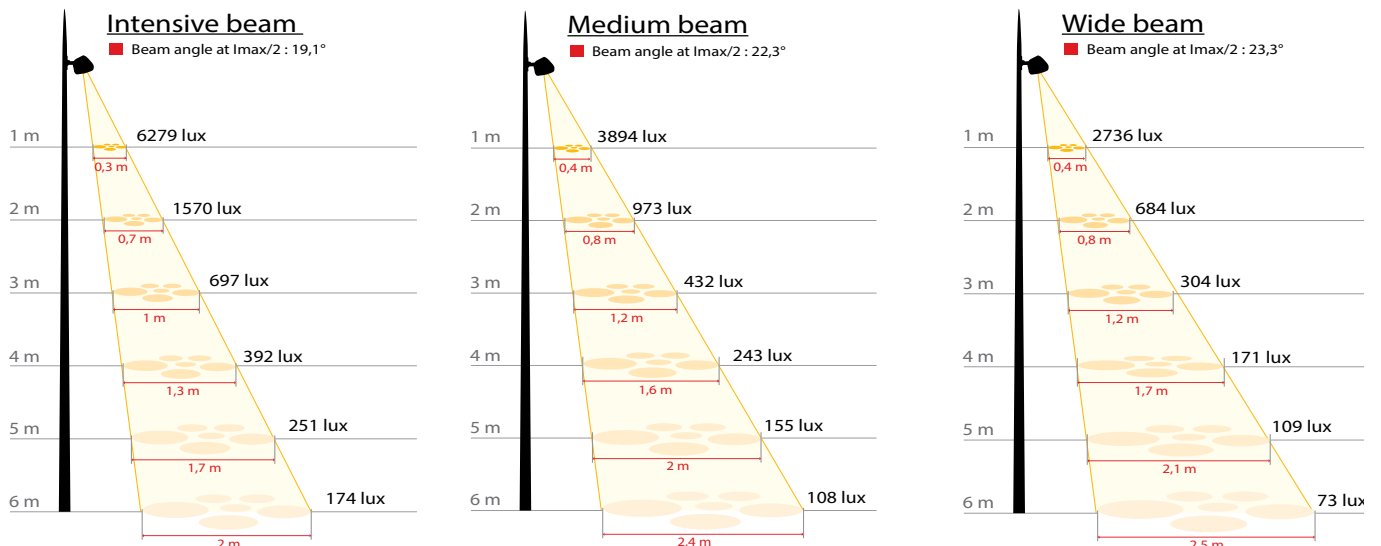## INSTALLING / CHANGING THE GOBO

| Opening | Open the XEON via the three captive screws on the front panel to access the internal projector |
|---|---|
| Installation | Easy installation of the GOBO in the projector following instructions |
| Adjustment | Adjust the focus by turning the lens (by first unscrewing the locking screw, and tightening it after adjustment) |

## LENS CHOICE

Three lenses allow a great diversity between the size of the projected graphics and the projection distance. In general, for the same projection distance, the larger the angle of opening, the larger the projected area, and the less bright the projected image.

### Intensive beam
■ Beam angle at Imax/2 : 19,1°

| Distance | Lux | Width |
|---|---|---|
| 1 m | 6279 lux | 0,3 m |
| 2 m | 1570 lux | 0,7 m |
| 3 m | 697 lux | 1 m |
| 4 m | 392 lux | 1,3 m |
| 5 m | 251 lux | 1,7 m |
| 6 m | 174 lux | 2 m |

### Medium beam
■ Beam angle at Imax/2 : 22,3°

| Distance | Lux | Width |
|---|---|---|
| 1 m | 3894 lux | 0,4 m |
| 2 m | 973 lux | 0,8 m |
| 3 m | 432 lux | 1,2 m |
| 4 m | 243 lux | 1,6 m |
| 5 m | 155 lux | 2 m |
| 6 m | 108 lux | 2,4 m |

### Wide beam
■ Beam angle at Imax/2 : 23,3°

| Distance | Lux | Width |
|---|---|---|
| 1 m | 2736 lux | 0,4 m |
| 2 m | 684 lux | 0,8 m |
| 3 m | 304 lux | 1,2 m |
| 4 m | 171 lux | 1,7 m |
| 5 m | 109 lux | 2,1 m |
| 6 m | 73 lux | 2,5 m |

# XEON GOBO PROJECTOR



XEON 3
GOBO Projector

## RENDERINGS, EFFECTS & PATTERNS

A large library of figurative GOBO patterns such as foliage or clouds, as well as abstract patterns, are available on request.
ECLATEC can also create personalized patterns on any theme, or using a photo, as requested by the customer.

### IN STEEL

Disk cut to pattern, logo, with text required. This is the least expensive solution for colourless projection.
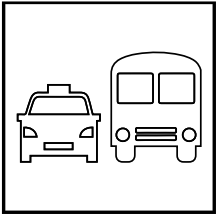
### IN GLASS

The colored GOBOs are formed by superimposing layers of dichroic glass with engraved shapes, to mix the colours necessary for the image by subtraction. These custom glass GOBOs are ultra-thin (1.1mm thick for monochrome and black and white models, and 1.9mm for multicolored models), providing excellent image projection.

Examples of existing patterns:



Examples of existing patterns:



## APPLICATIONS:



Projection of patterns on the ground



Projection of messages on buildings