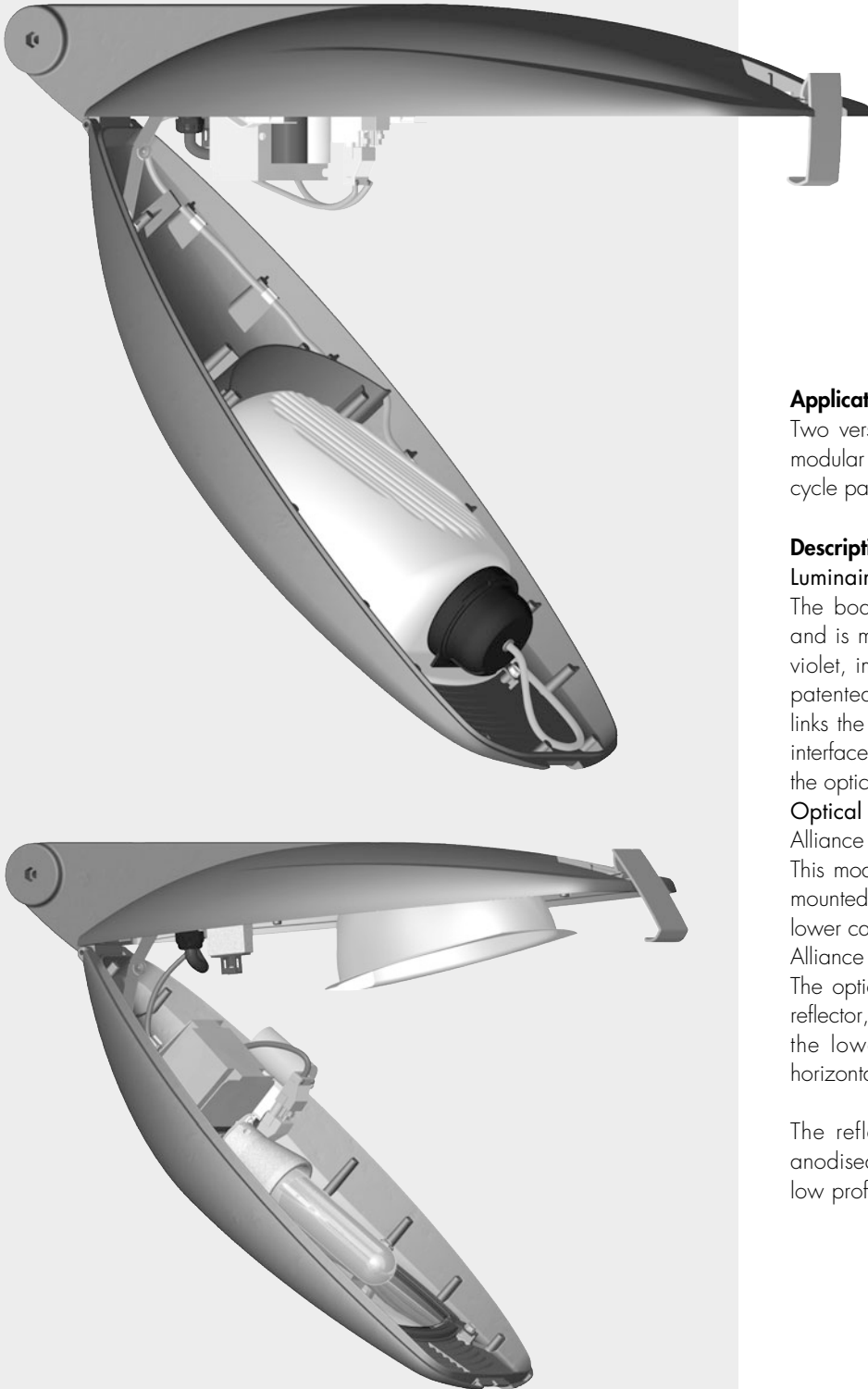


# Alliance



## Application

Two versions available (large and small body) offering a coherent and modular luminaire designed for urban, residential and suburban roads, cycle paths and service roads.

## Description

### Luminaire body

The body of the luminaires Alliance ALL 1 and ALL 2 is in two parts and is made of high pressure die cast aluminium. It is resistant to ultraviolet, impact and high temperature. The upper canopy houses the rail patented by 3e International, European patent n° 1150068. This rail links the electrical and mechanical parts of the luminaire and the various interface parts. A heat resistant shield separates the electrical fittings from the optical unit (Alliance ALL 2).

### Optical system

#### Alliance ALL 1

This model is composed of a reflector and a glass bowl. The reflector is mounted on the upper canopy of the luminaire. The bowl is fixed to the lower canopy and sealed by a silicone gasket.

#### Alliance ALL 2

The optical unit is mounted on a silicone gasket and is composed of a reflector, a lamp socket case and a glass bowl. The optical unit is fixed to the lower canopy. The socket case enables the lamp to be reset horizontally and vertically.

The reflectors of the Alliance range are of hydro-formed, brilliant, anodised aluminium. The bowls are in toughened pressed glass, their low profile guaranteeing minimum glare.

## Mounting and installation.

Various mounting options are available.



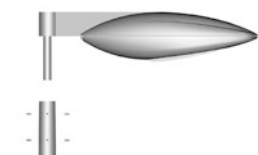
LAS: mounted using an upper adjustable side piece.  
Light angle set by 5° spacers.  
Stainless steel screws.



LAI: mounted using a lower adjustable side piece.  
Light angle set by 5° spacers.  
Stainless steel screws.



SA: mounted using an adjustable top piece.  
Light angle set by 5° spacers.  
Stainless steel screws.



TF: mounted using a top fix sleeve.  
Top fitting: dia. 60 mm or dia. 76 mm.  
Stainless steel screws.



LFT: mounted using side and top sleeve. Fitted to tubes of dia. 49 or dia. 60 mm, entry 100 mm.  
Angle setting: 0°, 3° or 6°.  
Flange tightened.  
Stainless steel screws.

Alliance luminaires can also be mounted directly onto custom-made brackets.



FD: direct mounting.  
Stainless steel screws.

## Maintenance

Access to all internal components requires no tools.

### Opening and closing

A clip on the front of the luminaire enables opening and closing. The operation is in two steps: unlock then open the lower canopy. The two canopies are on a hinge on the back of the luminaire. The canopy is kept open by a triggered, stainless steel hinge. The opening angle is 50°.

## Access to lamp and control gear

### Alliance ALL 1

Access to the lamp is from the road side once the luminaire is open. Changing the lamp requires no re-setting. On the lower canopy the electrical gear is assembled on an adjustable tray (tool free), accessible after undoing a clip. Electrical connection is via a quick connector with safety plug and socket.

### Alliance ALL 2

Access to the lamp is from the road side as soon as the luminaire has been opened by a 1/4 of a turn of the socket support case. Changing the lamp requires no re-setting. On the upper canopy the electrical gear is assembled on an adjustable tray (tool free), accessible after undoing 2 latches. Electrical connection is via a quick connector with safety plug and socket.

## Electrical and mechanical characteristics

### Alliance ALL 1

IP rating (luminaire): IP 66

Class I

Class II with automatic disconnection on opening (optional)

Impact resistance: IK 10 (glass bowl)

SCx: 0,038 m<sup>2</sup>

Weight: 8,5 kg with 150 W control gear.

### Alliance ALL 2

IP rating (optic): IP 66

IP rating (luminaire): IP 54

Class I

Class II with automatic disconnection on opening (optional)

Impact resistance: IK 10 (glass bowl)

SCx: 0,058 m<sup>2</sup>

Weight: 14 kg with 250 W control gear.

## Finish

Body: polyester coating finish. Choice of RAL colours.

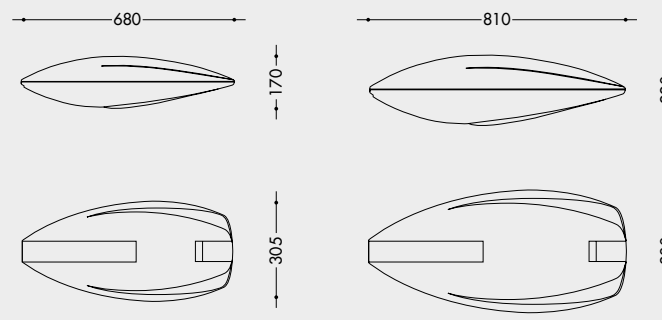
For sand finish see Futura colour chart (Akzo Nobel).

## Nomenclature of luminaires

Luminaire – Mounting – Optic – Wattage and lamp type – Electrical class

Example: ALL 2 – LAS – 3eR – 150 W HPS – Cl I

## Dimensions



ALL 1

ALL 2

## Sources

ALLIANCE				
Lamp type	ALL 1		ALL 2	
	Wattage	Lamp holder	Wattage	Lamp holder
High Pressure Sodium clear tubular	70 W	E27	70 W	E27
	100 W	E40	100 W	E40
	150 W	E40	150 W	E40
			250 W	E40
High Pressure Sodium diffuse elliptical	70 W	E27	70 W	E27
Metal Halide clear tubular with ceramic burner	70 W	E27	70 W	E27
	100 W	E40	100 W	E40
	150 W	E40	150 W	E40
			250 W	E40
Metal Halide clear tubular			250 W	E40
Metal Halide clear or diffuse elliptical	70 W	E27	70 W	E27
	100 W	E27	100 W	E27
	150 W	E27	150 W	E27
Mercury Vapour diffuse elliptical	80 W	E27	80 W	E27
	125 W	E27	125 W	E27

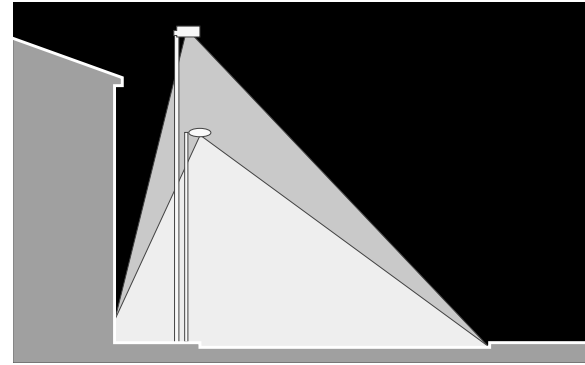
## Photometrics

The optical systems of the Alliance luminaires have been developed to respond efficiently to the diversity of urban architecture and to meet the qualitative and quantitative photometric requirements of people in towns. Following a research and development programme at 3e International, several optical systems have been produced for the Alliance range.

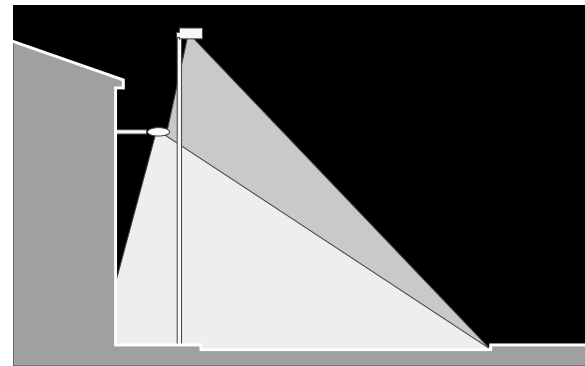
Alliance ALL 1: an OP1 optic for high pressure sodium, an OP2 optic particular to the new generation, ceramic burner metal halide lamps from 70W to 150W, an OP3 optic suited to lighting service paths and an OP4 mini reflector for lamps with a G12 lamp holder.

Alliance ALL 2: a 3eR road optic with a  $w/h = 1$  ratio enabling a spacing of  $s/h = 4$ , an urban optic 3eU which, for a  $w/h = 1,5$  ratio enables an  $s/h = 3,5$  spacing. As a result of this 3eU optic, the height of the supports can be reduced, providing a more pleasant installation within a given architectural environment. It can also be used for lighting roundabouts.

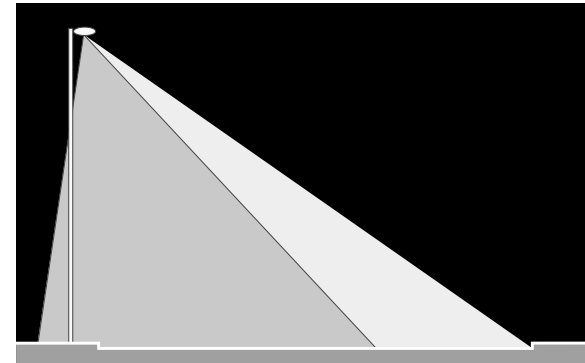
## Urban optic 3eU



Reduction of mounting heights to better blend the lighting installation into the surroundings.



Reduction of mounting heights and wall light mounting.



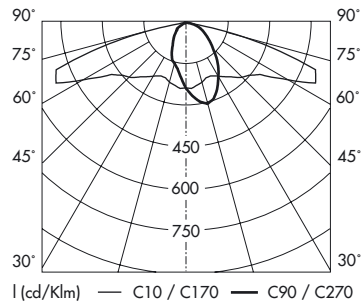
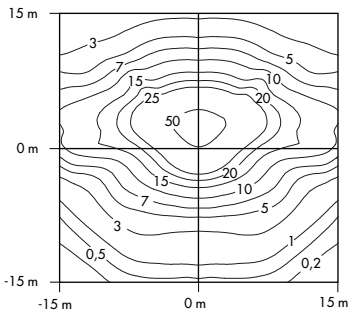
For the same mounting height a wider lighting of a roadway area.

## Photometrics

Polar curves and illuminance contours measured in Lux for a luminaire at 0° elevation.

### ALL 2 - 3eR

Height 8 m - 150 W HPS tubular lamp - 15000 lumens



### ALL 2 - 3eU

Height 8 m - 150 W HPS tubular lamp - 15000 lumens

