



APL *classic*

Pedestrian crossing lighting systems



Pedestrian crossing lighting systems

At night and in poor visibility hours, the pedestrian crossings must be properly illuminated and signaled:

Signal using LED flashers certified according to EN 12352 and LED backlit signals according to UNI 12899.

Illuminate an horizontal plan, highlighting the crossing with a minimum recommended light level of 100 lux (average) **and a vertical plan**, lighting perfectly the body of pedestrians making them visible, starting from the waiting area, extremely important factor to prevent accidents on crossings.

The LED luminaires **Stratos N and Stratos P** have been designed with a dedicated optic specifically to illuminate crossings, creating a positive contrast between the pedestrian and the surrounding environment, producing a very high vertical illumination level according to **EN13201**.



Luminous flux [lumen]

The luminous flux is measured in lumens and represents the quantity of light produced from a fixture, hence it can't be measured on a point or surface.

It is a task of the optics to distribute this light properly on the crossing. For instance, a light fixture producing 15,000 lm, may provide less light on the crossing of a fixture producing 12,000 lm.

Illuminance [lux]

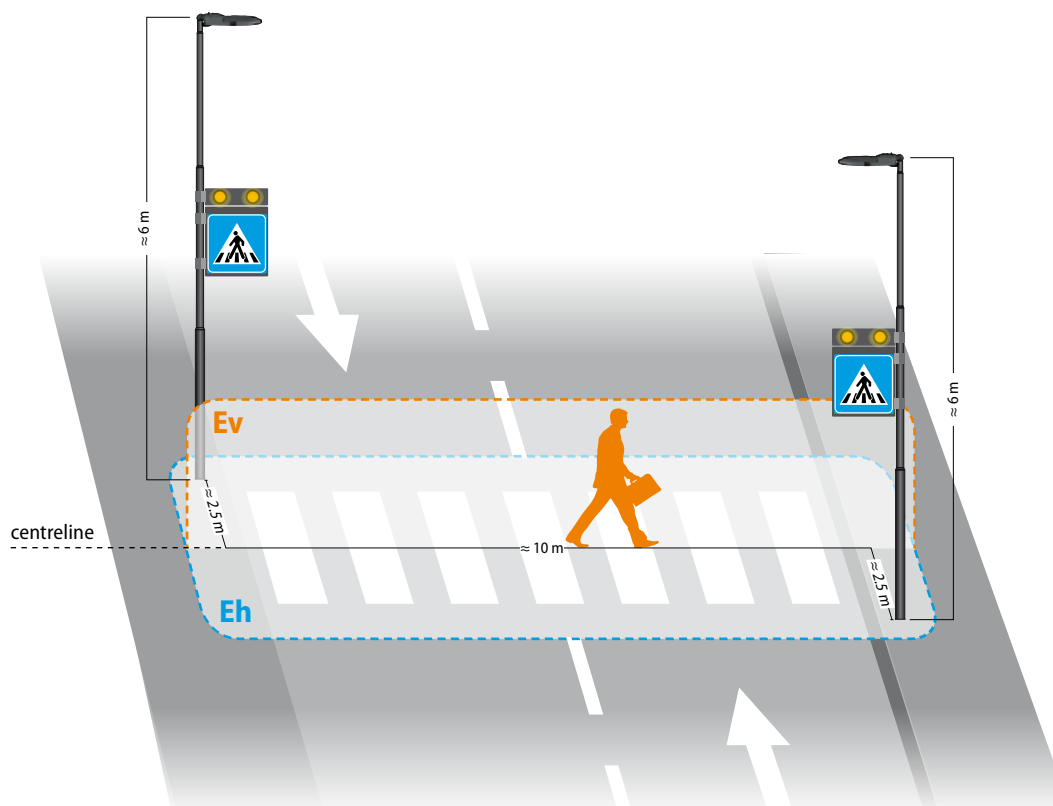
The illuminance is the quantity of light measurable on a plan of the crossing. It is measured in lux and in most of the cases the determining factor is the average illuminance and the overall uniformity (ratio between min lux and avg lux).

Vertical illuminance Ev [lux]

Is the quantity of light measured on the vertical plan [Ev] of the crossing. The high level achievable allows the **maximum visibility of pedestrians**, creating a positive contrast with the surrounding environment.

Horizontal illuminance Eh [lux]

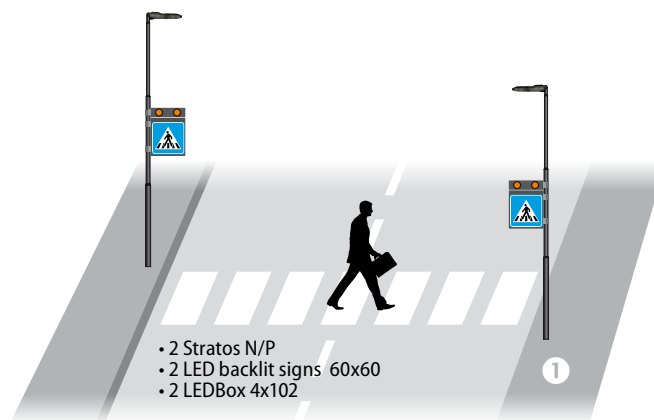
Is the quantity of light measured on the horizontal plan [Eh] of the crossing. The high level achievable and the super concentrated beam allow an unmatched visibility and ease of **identification from distance of the crossing**.



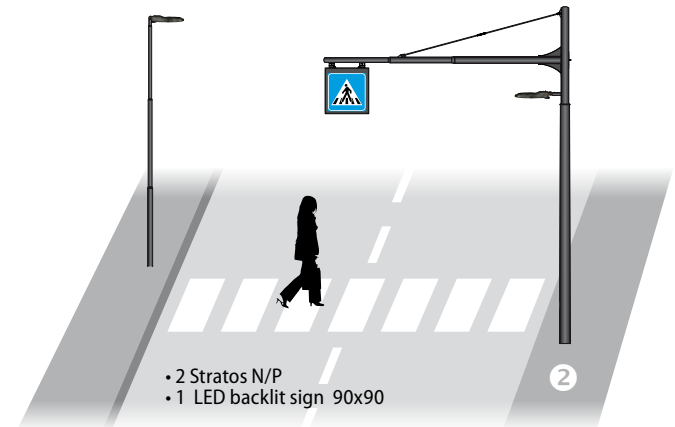
APL Classic is the first signalling and illuminating system for pedestrian crossings designed to achieve the highest levels of safety for pedestrians using the latest technologies.



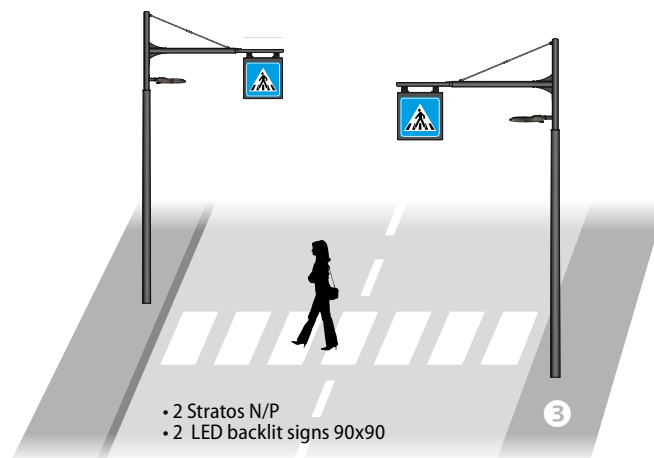
Components	
Stratos P	
Stratos N	
Trilogy N	
LED backlit sign 60x60	
LED backlit sign 90x90	
LEDbox 4x102	



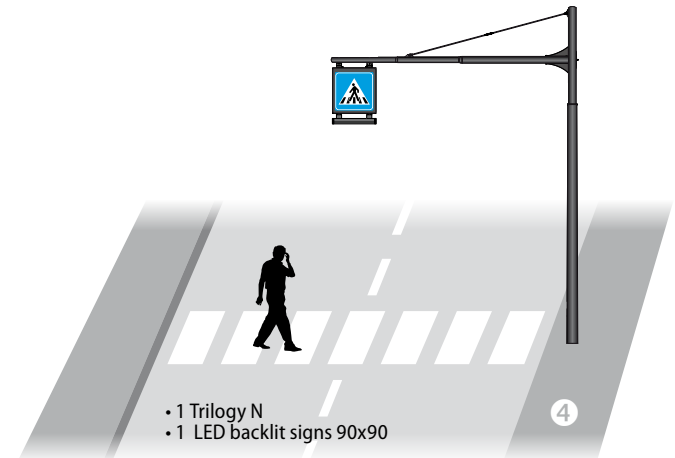
Horizontal and vertical illuminance



Horizontal and vertical illuminance

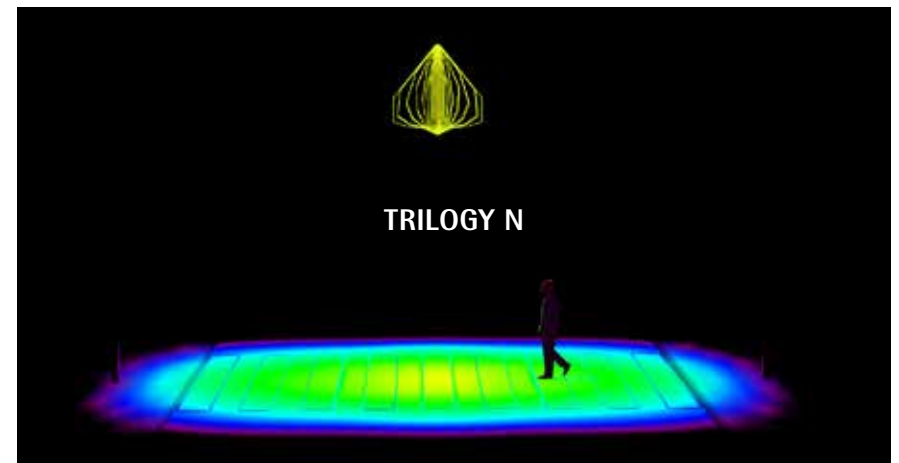
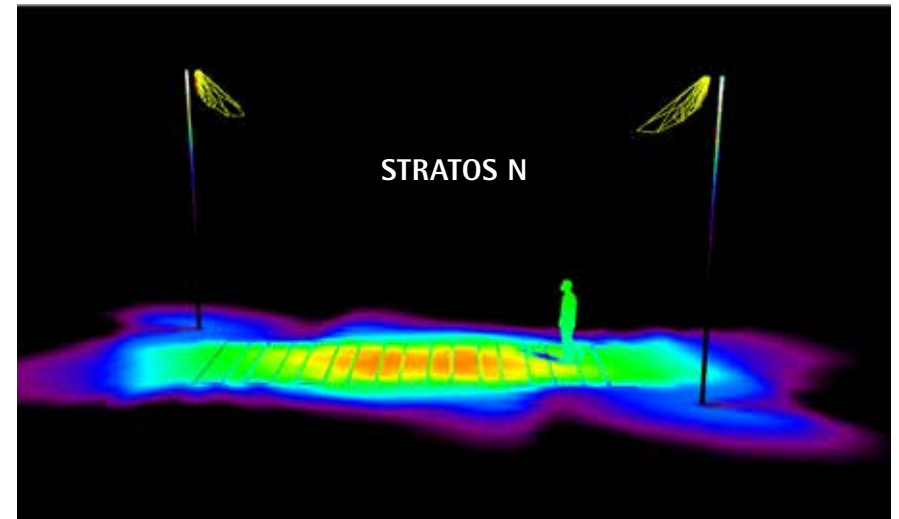
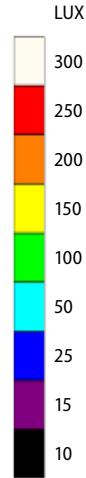
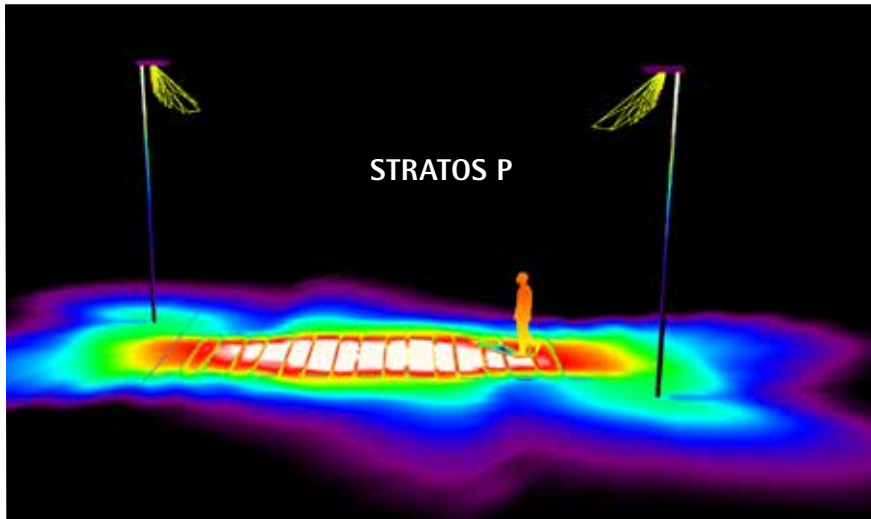


Horizontal and vertical illuminance



Only horizontal illuminance

Some photometric calculations examples showing horizontal and vertical illumination levels



Only horizontal illumination >

Please consider double illuminance values in case of installation with 2 Trilogy bars.



STRATOS P



STRATOS N



LED Streetlights with dedicated double asymmetric optic targeting the highest classes **EV** of the **EN13201**.

Compliance	EN13201	Certification	 
LED optics	Asymmetric L-R Specific for pedestrian crossing		
Input voltage	230 VAC	24 VDC	
Power consumption	STRATOS P	105 W	
	STRATOS N	55 W	
Material	Die-cast aluminum SUPERCAS[®]		
Mounting	Ø60		
Dimensions	STRATOS P	730 x 360 x 125 mm	
	STRATOS N	528 x 300 x 53 mm	

Our backilluminated **LED** signs are extremely important to make the pedestrian crossing visible from long distances. The perfect uniformity and luminance values of the signs are our competitive advantage. The backilluminated sign LED 90x90 can be equipped with lower LED Trilogy bar.

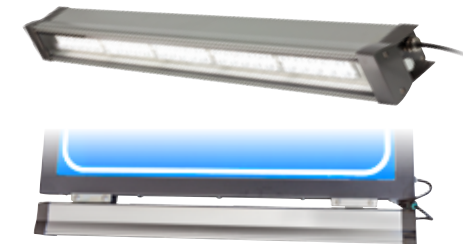
Compliance	EN12899	
LED colour	○	Double side
Input voltage	230 VAC	12 VDC
Light emission area	90 x 90 cm	60 x 60 cm
Power consumption	45 W	24W
Mounting	Tilting system	Ø60 - Ø90 mm
Dimensions	1000 x 1000 x 62 mm (w/o bracket)	645 x 735 x 68 mm (w/o bracket)



LED backlit signs

LED bar specific designed for pedestrian crossing. The narrow optic is able to deliver very high horizontal values on the zebra crossing. It is used in combination with 90x90 backilluminated.

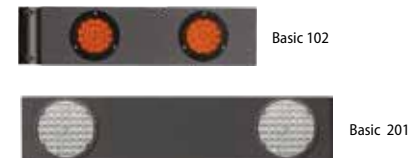
Compliance	EN13201	
LED optics	Symmetric - Specific for pedestrian crossing	
Input voltage	230 VAC	12 VDC
Power consumption	45 W	
Material	Aluminum	Adjustable bracket included
Dimensions	80 x 91 x 1000 mm (w/o bracket)	



TRILOGY N

The **LED Box** system are practical and nice solutions to integrate our LED warning lights, 100 or 200 mm.

Certification	Basic 201 Basic 102	EN12352 - L8H EN12352 - L2H
LED colour	●	Basic 201 x 2 (Single side) Basic 102 x 4 (Double side)
Input voltage	230 VAC	12 VDC
Power consumption	Basic 201 Basic 102	15 W 15 W
Mounting	Ø60 Ø90	
Box dimensions	600 x 160 x 60 mm (Basic 102) 900 x 210 x 120 mm (Basic 201)	



LED BOX