

Lighting Solutions for zebra crossings SAFELIGHT



SAFELIGHT

Optical Solution Zebra Crossing

According to the studies, a high percentage of the abuses that take place in urban roads occur in zebra crossings not marked with traffic lights and with inadequate or non-existent lighting which leads to poor and poor visibility of pedestrians in the area of passage of the track.

To prevent this, Prilux has developed SAFELIGHT, a solution of three modalities, a solution that uses proper lighting to attract drivers' attention, also reducing the risk of glare, around zebra crossings, thus increasing not only the amount of lighting around pedestrians as they approach zebra crossings, but also intensifying the lighting on them both vertically and horizontally.



Safelight / Sensor Safelight



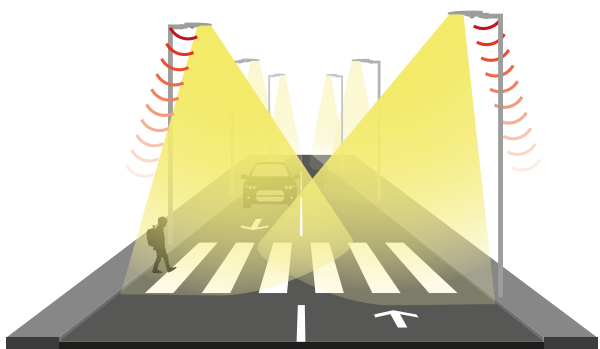
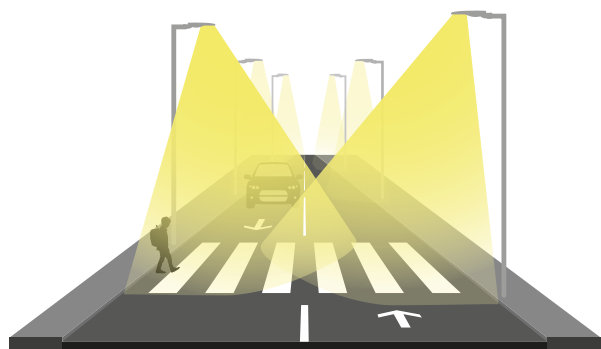
Safelight

SAFELIGHT allows the lighting of zebra crossings with road luminaires adapted with special optics for this application that illuminate with white light with a continuous level of 100%.



Sensor Safelight

SENSOR SAFELIGHT is equipped with a presence sensor facing the sidewalk, maintains the illumination of the crosswalk at a brightness level of 50% in the absence of users, regulating 100% at the time the sensor detects the presence of a pedestrian willing to cross the zebra crossing. Which provides great energy and economic savings.



No Presence

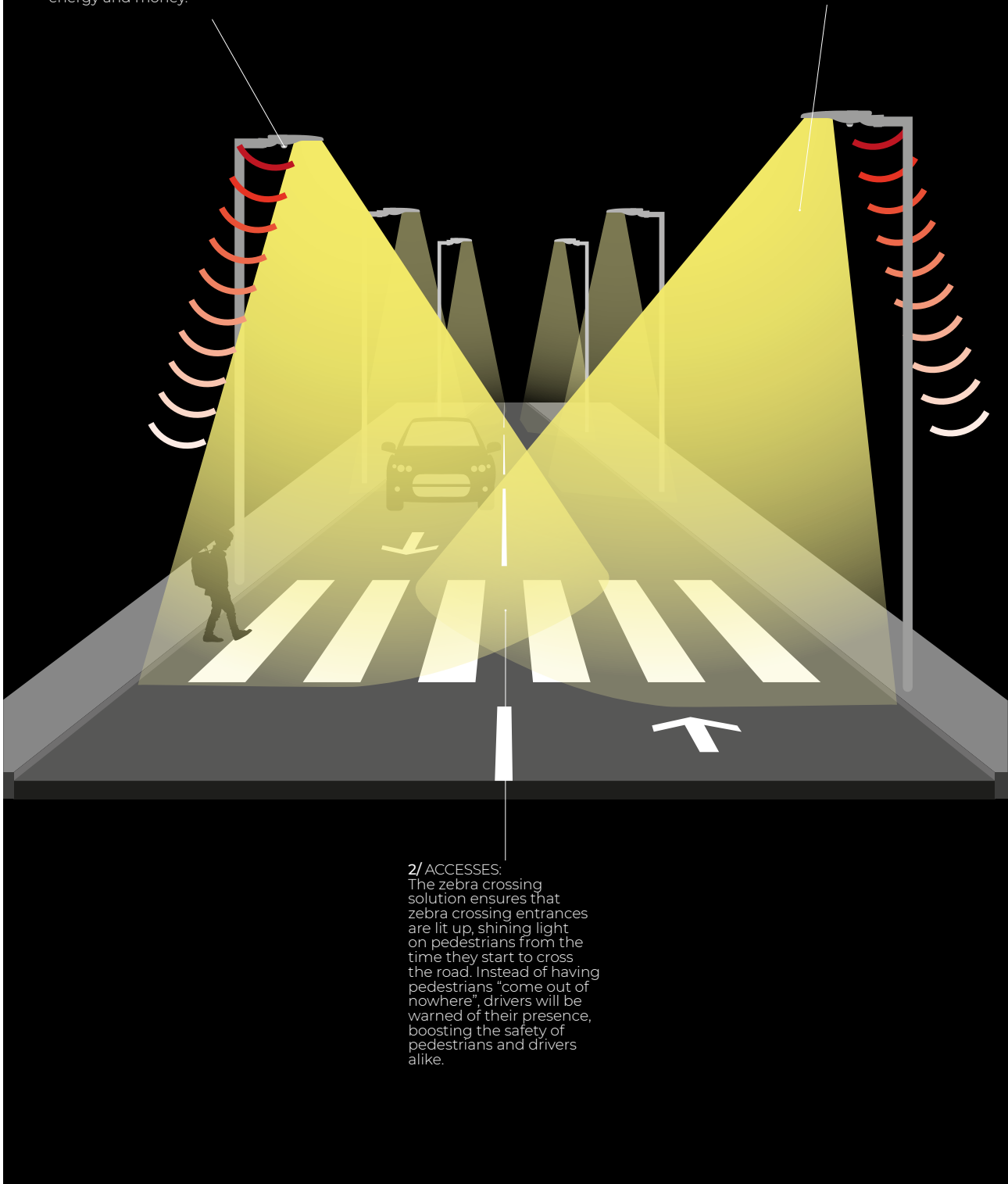


With Presence

	CTT	Luminosity level	
Safelight	4.000K	100%	100%
Sensor Safelight	4.000K	50%	100%

1/ PRESENCE DETECTOR:
The sensor in the SENSOR SAFELIGHT and SMART SAFELIGHT solutions regulates the zebra crossing's light level when pedestrians are present, making the zebra crossing area more visible whilst also saving energy and money.

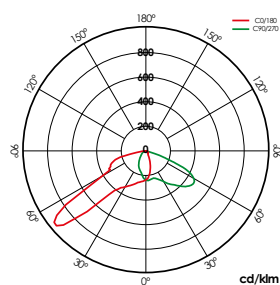
3/ BETTER CONTRAST:
SAFELIGHT solutions offer a clearer visual contrast around zebra crossings so that drivers can distinguish both the lit up area and the pedestrians.



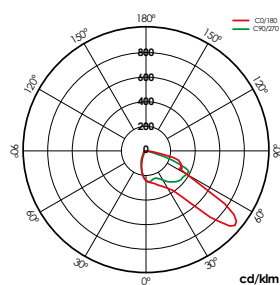
2/ ACCESSES:
The zebra crossing solution ensures that zebra crossing entrances are lit up, shining light on pedestrians from the time they start to cross the road. Instead of having pedestrians "come out of nowhere", drivers will be warned of their presence, boosting the safety of pedestrians and drivers alike.

Optics

The special zebra crossing optics are specially designed to project light with asymmetric left and right photometry, which used according to different cases of roads, provide a high level of illumination in the vertical and horizontal planes of the strip corresponding to the crosswalk as well as indirect lighting on the sidewalk or access.

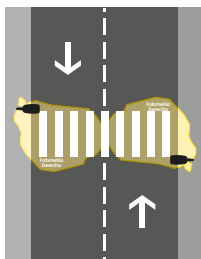


Left photometry



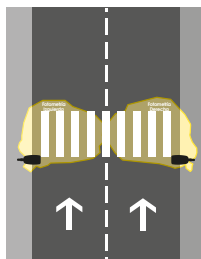
Right photometry

Application



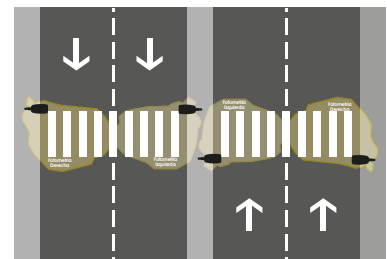
A two-lane, dual-carriage way:

- Both lights with RIGHT photometry. The lamp is installed at a height of 5m.
- The lamp post is installed 0.5m from the road and 0.5m before the zebra crossing (in the direction the vehicles are travelling)



One-way road with two or more lanes:

- Lamps with RIGHT photometry (installed to the right of drivers approaching in either direction), and LEFT photometry (installed to the left of drivers approaching in either direction)
- The lamp is installed at a height of 5m.
- The lamp posts would be installed 0.5m from the road and 0.5m before the zebra crossing to the right and left, depending on whether "RIGHT" or "LEFT" photometry applies.



A four-lane, dual-carriage way:

- Lamps with RIGHT photometry (installed to the right of drivers approaching in either direction), and LEFT photometry (installed to the left of drivers approaching in either direction)
- The lamp is installed at a height of 5m.
- The lamp posts would be installed 0.5m from the road and 0.5m before the zebra crossing to the right and left, depending on whether "RIGHT" or "LEFT" photometry applies.
- On multiple-lane two-way roads, the solution would be installed the other way around on the lanes in the other direction.

Compatible luminaires

Avatar



Veria



Arisa Top 1



Arisa Road



		W _{LED}	W _T		K		
589727	VERIA SL 8N DA CMR	32W	34,3W	PPDL0M	740	32	620 x 295 x 165mm
589734	VERIA SL 8N DA CMR	32W	34,3W	PPIL0M	740	32	620 x 295 x 165mm
589512	VERIA SL SENSOR	32W	34,3W	PPDL0M	740	32	620 x 295 x 165mm
589529	VERIA SL SENSOR	32W	34,3W	PPIL0M	740	32	620 x 295 x 165mm
589673	AVATAR SL 8N DA CMR	36W	37,0W	PPDL0M	740	24	525 x 255 x 125mm
589680	AVATAR SL 8N DA CMR	36W	37,0W	PPIL0M	740	24	525 x 255 x 125mm
589697	AVATAR SL SENSOR	36W	37,0W	PPDL0M	740	24	525 x 255 x 125mm
589703	AVATAR SL SENSOR	36W	37,0W	PPIL0M	740	24	525 x 255 x 125mm
589772	ARISA ROAD SL 8N DA CM	32W	34,3W	PPDL0M	740	32	670 x 468 x 140mm
589789	ARISA ROAD SL 8N DA CM	32W	34,3W	PPIL0M	740	32	670 x 468 x 140mm
589796	ARISA ROAD SL SENSOR	32W	34,3W	PPDL0M	740	32	670 x 468 x 140mm
589802	ARISA ROAD SL SENSOR	32W	34,3W	PPIL0M	740	32	670 x 468 x 140mm
589819	ARISA TOP1 SL 8N DA CM	32W	34,3W	PPDL0M	740	32	478 x 468 x 547mm
589826	ARISA TOP1 SL 8N DA CM	32W	34,3W	PPIL0M	740	32	478 x 468 x 547mm
589833	ARISA TOP1 SL SENSOR	32W	34,3W	PPDL0M	740	32	478 x 468 x 547mm
589840	ARISA TOP1 SL SENSOR	32W	34,3W	PPIL0M	740	32	478 x 468 x 547mm

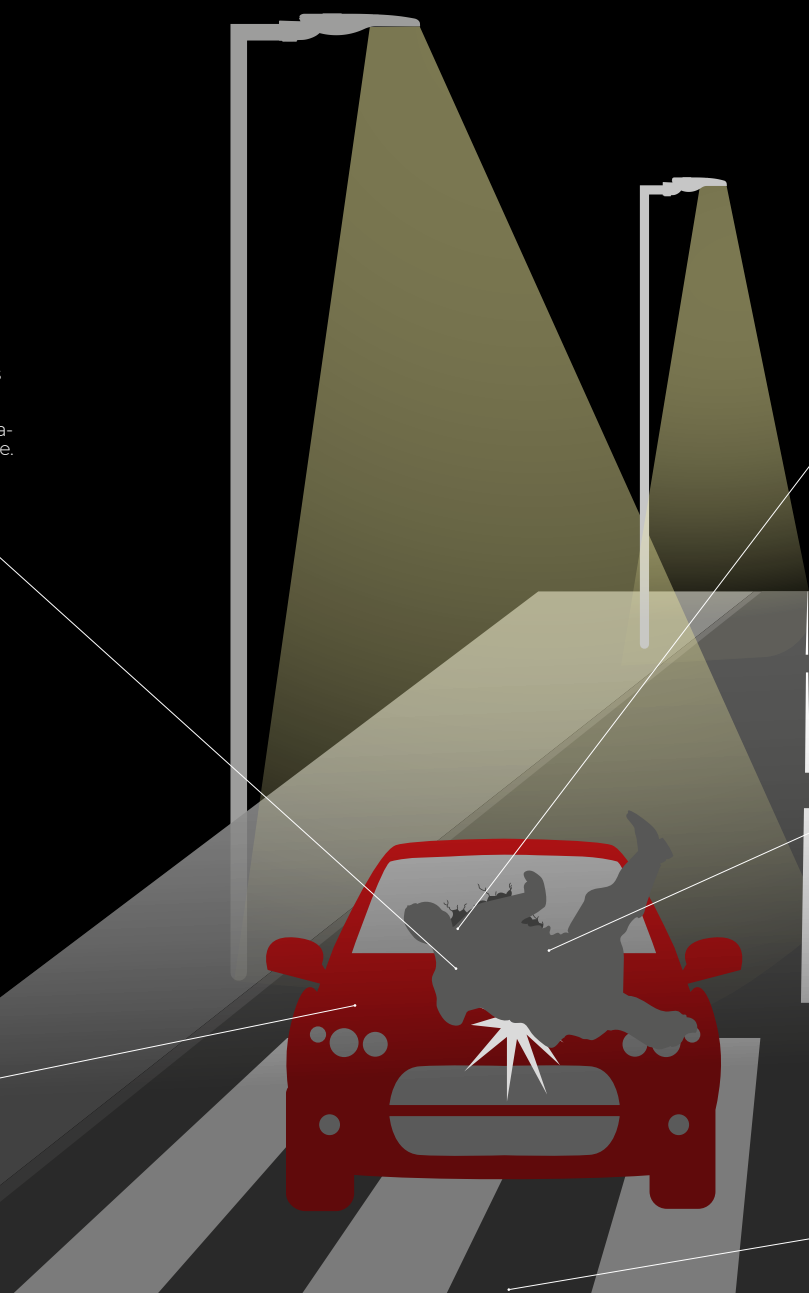


Anatomy of the Accident

40% of pedestrian collisions occur in zebra crossings

2/ The acceleration pushes the lower part of the body forward, while the upper part is twisted and accelerated in relation to the vehicle.

1/ The first contact occurs between the pedestrian's leg or knee and the vehicle's bumper, followed by the thigh with the edge of the bonnet.



3/ Then, the head hits the bonnet or the windshield at a speed similar to that of the vehicle.

4/ The pelvis and thorax hit the edge and the top of the bonnet respectively.

5/ After that, the victim falls to the ground.

