



enLighten

## Area/Street Luminaire

# 75%

## ENERGY SAVINGS

Traditional HID lighting replacement

# Zorro 2

Reliable, efficient, built to last



The Zorro 2 continues the legacy of the Zorro area light, being robust and reliable. The Zorro 2 has improved efficacy and greater versatility providing quality illumination over 150 lumens per watt.

Comes in a wide range of power & light distribution options. Supremely efficient long life IP66 luminaire, ideal for any urban, industrial or residential application to light up pathways, streets, carparks & other similar areas.

The Zorro 2 offers both performance and ease of installation.



## OPTIONS AND BENEFITS

- **Easy to install & maintain** - Toolless clipping system
- **Expected life >110,000hrs @ L70** from high quality high powered LEDs
- **High efficacy of >150 lm/w** using Lumileds LEDs
- **In-built surge protection** - 10kV
- **Control Options** - PE Cell, 1-10V, DALI, Casambi wireless controls (ZHAGA Book 18)
- **Mounting accessories** - pole reducer, cross arm, adaptor & wall mount bracket
- **Available in** black & grey
- **IP66** - Ingress protection
- **IK10** - Impact rating
- **5 year warranty**

## APPLICATIONS



BIKE  
PATHS



CAMPUSES  
UNIVERSITIES



COUNCIL  
PARKS



INDUSTRIAL  
ESTATE



OUTDOOR  
CARPARKS

## FEATURES



10kV SURGE  
PROTECTION



HORIZONTAL  
MOUNT



IMPACT  
RATING



INGRESS  
PROTECTION



LOW  
MAINTENANCE



SAFETY  
COMPLIANCE



VERTICAL  
MOUNT



YEAR  
WARRANTY

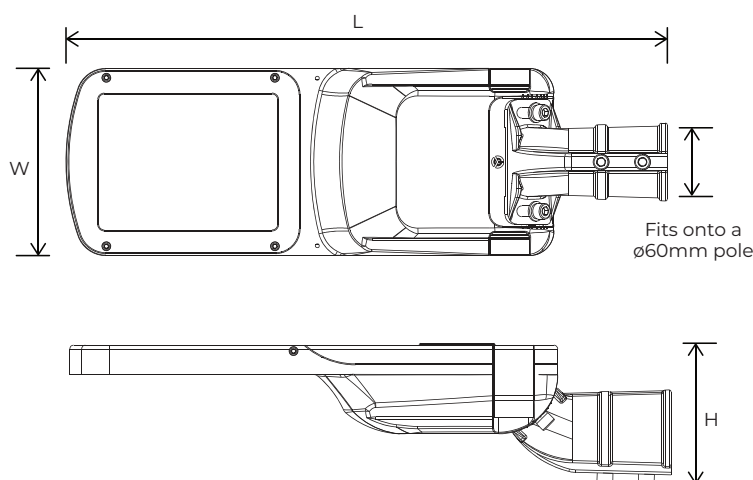
## PRODUCT RANGE

Model #	Rated Power (W)	Lumen Output (lm)	Dimensions L x W x H (mm)	Weight (kg)
ZAL15S-Tx-4K-B	15	2,400	610 x 190 x 143	4.7
ZAL40S-Tx-4K-B	40	6,400	610 x 190 x 143	4.7
ZAL60S-Tx-4K-B	60	8,900	610 x 190 x 143	4.7
ZAL80M-Tx-4K-B	80	12,800	660 x 240 x 143	5.8
ZAL120M-Tx-4K-B	120	18,600	660 x 240 x 143	5.8
ZAL150L-Tx-4K-B	150	23,900	762 x 290 x 143	8.1
ZAL200L-Tx-4K-B	200	29,900	762 x 290 x 143	8.1

x stands for lens type and can be 2, 3 or 4 for Type 2, Type 3 or Type 4 light distribution.

B stands for Black coloured housing & can be replaced with G for Grey.

## DIMENSIONS



## TECHNICAL INFORMATION

### Optical

Light source	Lumileds LEDs
Lumen output	2,400 - 29,900 lumens
CRI	Ra>70
CCT	4000K standard 2200K - 5700K available on request
Luminaire efficacy	> 150 lm/W

### Electrical

Power consumption	15W - 200W
Operating frequency	50/60Hz
Operating voltage range	100 - 240V AC
Surge protection	10KV standard, 20KV available on request
Power factor	>0.9/240V AC at full load
Driver type	Inventronics
Driver efficiency	> 90%

### Environmental

IP rating	IP66
Impact rating	IK10
Weight	4.7 - 8.1kg
Ambient temperature range	-40°C to +50°C
Material Composition (body)	Powder coated die-cast aluminium
Glass cover	Tempered glass
Expected Lifespan	120,000 hours @ L70 80,000 hours @ L80 39,000 hours @ L90

### Controls - Optional

Photoelectric (PE) cell  
Casambi wireless control (ZHAGA Book 18)  
1-10V, DALI

### Accessories

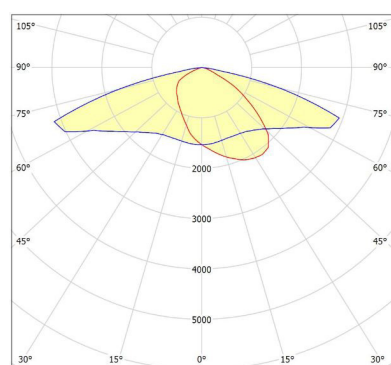
Wall mounted bracket  
Pole mount adaptors

### Warranty\*

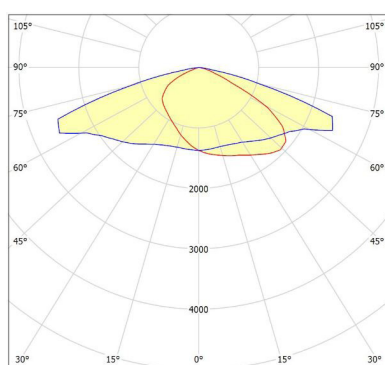
5 years

Data subject to change without notice  
\* Refer to warranty policy

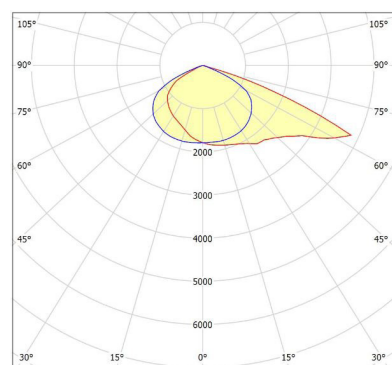
## PHOTOMETRICS



Type 2



Type 3

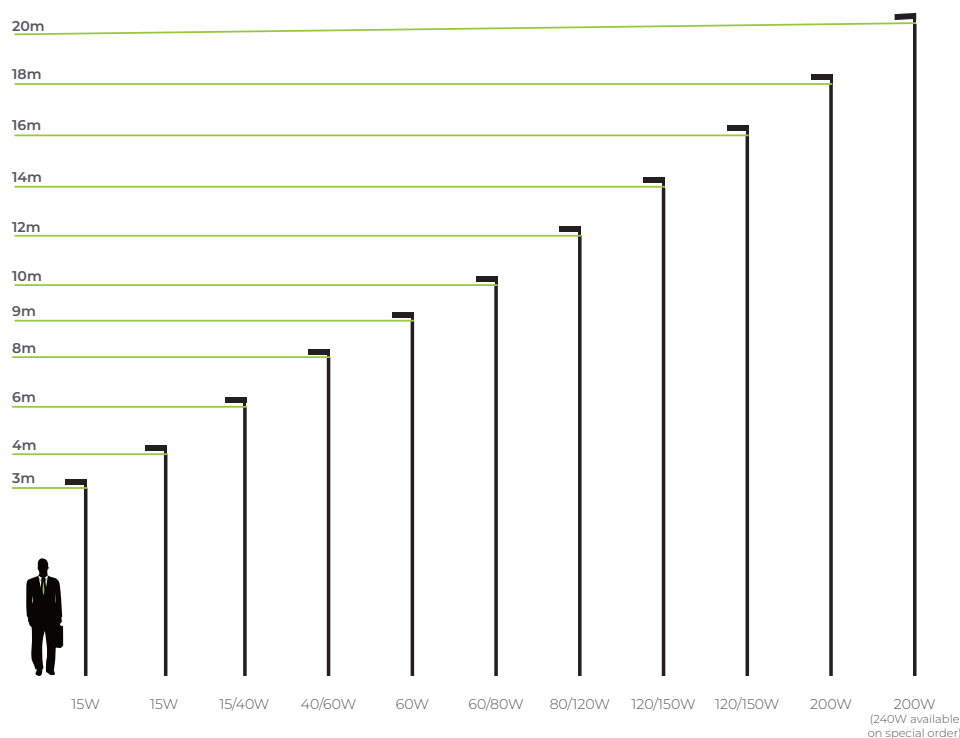


Type 4

## OPTIC SELECTION GUIDE

Lens	Distribution	Application	Area Covered In front of Pole	Area Covered Sideways
Type 2	Wide Street Side Throw & Narrow Forward Throw (Most commonly used for 15W models)	Narrow Pathways/Lanes/Roads	1.6x Pole Height	5.1x Pole Height
Type 3	Medium Street Side & Forward Throw (Most commonly used for models 40W and above)	Wider Pathways/Lanes/Roads; Carparks, Area Lighting	1.9x Pole Height	4.7x Pole Height
Type 4	Narrow Street Side Throw & Large Forward Throw	Large Area in front of pole	2.6x Pole Height	3.4x Pole Height

## INDICATIVE POLE HEIGHT GUIDE



Indicative guide only.

Use higher wattages if:

- You need higher lux levels or
- The compliance requirement is higher than the lowest lighting standard

Request a lighting design for full compliance to the Australian Standards

## SMART CONTROLS

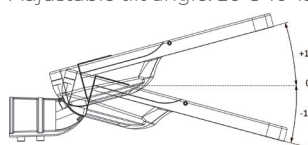
The Zorro 2 optional smart control solutions:

- **Photoelectric (PE) sensors** integrated into the Zorro 2 light fitting enables automatic switching.
- Get increased functionality and total lighting control with **Casambi wireless control**. The easy to commission wireless control technology is flexible, scalable and intelligent. Perfect for applications where additional lighting control features are required.

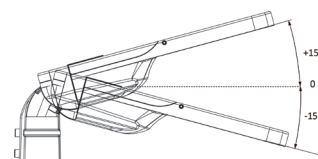
## MOUNTING

The Zorro 2 comes with a spigot/mounting bracket, which can be adjusted for horizontal or vertical mounting at angles shown below. The bracket is suitable to be mounted on a 60mm diameter pole or arm.

Adjustable tilt angle:  $\pm 0-5-10-15^\circ$





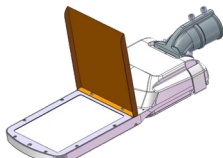


Horizontal installation



Vertical installation

## POLE MOUNT ADAPTORS & ACCESSORIES

Name		Part Number	Description
Pole Reducer		ZWB-PoleRed	Reduces pole diameter from 78mm to 60mm. Powder coated Q235 steel 3mm/7.5mm thickness, available in black (RAL 9005) and silver (RAL9022).
Cross Arm		ZWB-CrosArm	Perfect for two lights on one pole. Arm: 500mm x 60mm diameter. Fits 76mm diameter round pole. Powder coated Q235 steel, available in black (RAL 9005) and grey (RAL9022).
Connecting Adaptor		ZWB-ConAdapV2	Increase 42mm pole size to 60mm. Anodized aluminium, 4mm thickness
Wall Mounted Bracket		ZWB-15 Degree	Wall mounted bracket creating a 15° upward tilt. Galvanised hot dip silver and black (RAL 9005) 3mm/6mm thickness
Back Spill Guard		ZAL-BSG-S ZAL-BSG-M ZAL-BSG-L	Minimises spill light behind the pole. Effective for reducing light pollution beyond the site where residential boundaries are situated closely behind the poles. available in black (RAL 9005) and grey (RAL9022). Max. pole height 10m, max 100km/h winds. S= 15W-60W, M= 80W & 120W, L=150W & 200W

## COMPLIANCE

The Zorro 2 series meets or exceeds all relevant standards and regulatory requirements.

For a full compliance and testing list visit [www.enlighten.com.au](http://www.enlighten.com.au). IES files, warranty, installation and product guides are also available for download.

Sold nationally through major electrical wholesalers.

