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# ALOA

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PATH  
LED  
LIGHT



Operating Instructions

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**ASTEL**  
LIGHTING

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## PREFACE

The ALOA series of bollard garden light with Direct-Drive LED mains power supply is designed to use the latest LED lighting technology.

Uniformly designed very robust casings with different curved leaves allow the proper choice of light distribution for various layouts around buildings and gardens.

The ALOA series is available in painted zinc-plated steel casings. The lighting is available in warm white, daylight white and cool white with 1 mid-power LED array.

The most advanced AC Direct-Drive LED mains power supply unit with built-in microprocessor enables network connection and complete DMX512 lighting control by using optional interfaces.

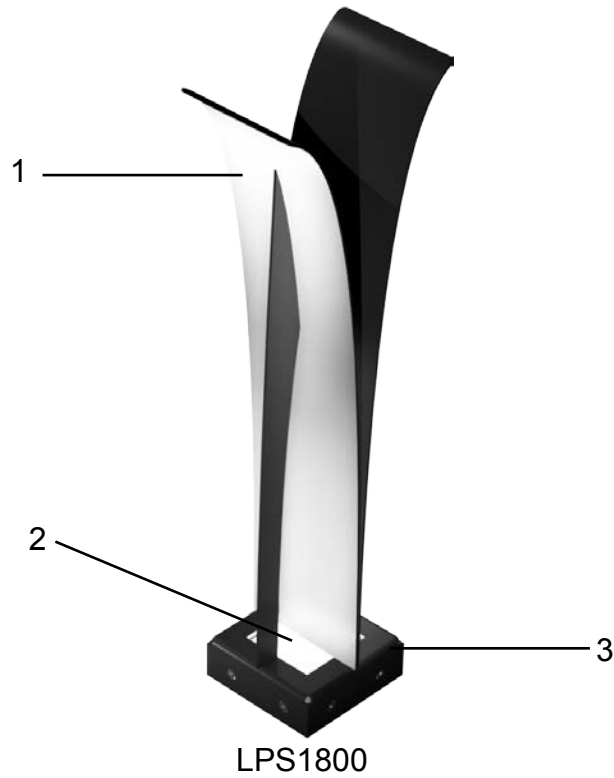
## FEATURES

- Painted Steel Casing
- 1 Mid-Power LED Array
- Cool, Daylight or Warm White Lighting
- High Grade Polycarbonate Glass / Tempered Glass Optical Window
- Reflector with/without Holographic Diffuser
- AC Direct-Drive LED Mains Power Supply
- Low Flicker Index
- Triac and Phase Dimming
- Built-in ASTEL Protocol for DMX512 Control - Flicker Free Dimming
- AC Power Line Surge Protection
- Low Power Consumption
- Simple Installation

## PRECAUTIONS

- The path light has to be installed and used in accordance with the instructions of this manual only.
- The power supply has to be disconnected before installation.
- Avoid using this unit near appliances generating strong magnetic fields.
- The optical window has to be cleaned with a mild soap or detergent and lukewarm water by using a soft cloth or sponge. Do not use abrasive or highly alkaline cleaners. Never scrape with razor blades or other sharp instruments. Benzene, leaded gasoline, acetone or carbon tetrachloride should never be used.
- Do turn power off immediately and refer servicing to qualified service personnel if the interior & exterior light does not operate normally following the operating instructions.

# COMPONENTS



LPD1800

LBS1800

LBD1800

LAS1800

LAD1800

LCD1800

Model	Description
LPS1800	Single-Side Closed, 1 Mid-Power LED Array
LPD1800	Double-Side Closed, 1 Mid-Power LED Array
LBS1800	Single-Side Reflection, 1 Mid-Power LED Array
LBD1800	Double-Side Reflection, 1 Mid-Power LED Array
LAS1800	Half-Side Closed, 1 Mid-Power LED Array
LAD1800	Full-Side Closed, 1 Mid-Power LED Array
LCD1800	Double-Side Closed, 1 Mid-Power LED Array

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White

**(1) Path light casing**

Painted zinc-plated steel casing with reflective surface beam.

**(2) Optical window**

High-Grade Polycarbonate Glass Optical Window.

**(3) AC Direct-Drive light power supply unit**

AC Direct-Drive smart light mains power supply unit built-in robust holder with fixing holes and 5-pole multi-core cable to connect 230Vac power supply and control.

# INSTALLATION AND CONNECTION

The installation have to be realized by qualified personnel.

## **Note:**

- ***Do not cover the path light optical window with any kind of temperature isolating material. The path light is protected by a temperature sensor against over-heating. When the temperature of the flood-path light exceeds 85°C the path light is automatically switched off.***

The power supply has to be connected through the main switch (not included) and protected by a fuse (not included).

## **Note:**

- ***The power supply has to be switched off before installation.***

The light has to be connected as described in the table below:

ALOA		FUNCTION
wire color	wire mark	
Brown	L	Line 230 Vac
Blue	N	Neutral 230 Vac
Yellow/Green	⊕	Earth 230 Vac
Gray	C+	CONTROL+ (24 Vdc max.)
Black	C-	CONTROL- (24 Vdc max.)

For basic control of the light the CONTROL wires have to be connected through the momentary switch (not included) to the power source / 12-24Vdc (not included) by using a 2-pole signal cable extension (not included).

For DMX512 control optional LXU01 interface can be connected to the CONTROL wires by using a 2-pole signal cable (not included).

## **Note:**

- ***When two or more lights are connected in the lighting system the control wires can be connected in parallel and all the lights then can be controlled by using only one momentary switch or LXU01 interface.***

## **Earthing**

The flood-path light has to be earthed by using a pre-tinned green wire with a yellow stripe a minimum of 8 AWG (8.36 mm<sup>2</sup>). The wire has to be connected to the path light by the help of one assembling screw.

# CONTROLS

## **Control by momentary switch**

Remote control by momentary switch can be used to turn-on and turn-off the light and to control the luminosity.

### Turning on / off

Press the momentary switch momentary.

### Dimming

When the light is on, press the momentary switch longer until the desired power is achieved.

### Turning on minimum

When the light is off, press the momentary switch longer (e.g. one second or more) until the light is turned on at minimum power.

### Set default

Press the momentary switch for min. 40 seconds or until the light is turned off.

## **DMX512 control**

The network connection to control the light with the standard DMX512 protocol is enabled by using optional LXU01 interface.

## TECHNICAL SPECIFICATIONS

Power supply	230 Vac / 90 mA max.
Optical window	High Grade Polycarbonate Glass / Tempered Glass
Color rendering index (CRI)	80
Luminous flux	max. 1.800 lm (cool white)
Control voltage	12-24 Vdc
ASTEL protocol default address	1
Operating temperature	-10°C - +50°C
Casing	Painted Zinc-Plated Steel
Protection	IP 67
Dimensions	1.015 x 310 x 200 mm
Weight	max. 23 kg

*Design and specifications subject to change without notice.*





# DECLARATION OF CONFORMITY

according to IEC Guide 22 and EN 45014

*Manufacturer's Name:* ASTEL, Podjetje za projektiranje, proizvodnjo in trgovino, d.o.o.

*Manufacturer's Address:* Dutovlje 138  
6221 Dutovlje  
Slovenija

declares that the products

*Item, Product Name and Model Number:* 1. Path LED light ALOA series

conform to the following Product Specifications:

*EMC:* EN 55015:2006 + A1:2007  
EN 61547:1995 + A1:2000 + A2:2009  
EN 61547:2009

*Safety:* EN 60598-2-18:1995/A1:2012  
EN 60529:1992+A2:2013

Supplementary Information:

The products herewith comply with the requirements of the following Directives and carry the CE-marking accordingly:

- the EMC Directive 2014/30/EU
- the RoHS Directive (EU) 2015/863

ASTEL d.o.o.  
Dutovlje 138  
6221 Dutovlje  
Slovenija

26<sup>th</sup> September, 2019

# WARRANTY

1. The equipment manufactured by ASTEL d.o.o. is warranted to be free from defects in workmanship and materials under normal use and service.
2. This Warranty is in effect for of two years from the date of purchase by the user. Proof of purchase must be included, to establish that it is inside the warranty period.
3. This Warranty is transferrable and covers the product for the specified time period.
4. In case any part of the equipment proves to be defective, other than those parts excluded in paragraph 5 below, the owner should do the following:
  - (a) prepare a detailed written statement of the nature and circumstances of the defect, to the best of the Owner's knowledge, including the date of purchase, the place of purchase, the name and address of the installer, and the Purchaser's name, address and telephone number;
  - (b) the Owner should return the defective part or unit along with the statement referenced in the preceding paragraph to the warrantor, ASTEL d.o.o., or an authorized distributor, postage/shipping prepaid and at the expense of the Purchaser;
  - (c) if upon the Warrantor's or authorized distributor's examination, the defect is determined to result from defective material or workmanship, the equipment will be repaired or replaced at the Warrantor's option without charge, and returned to the Purchaser at the Warrantor's expense;
  - (d) no refund of the purchase price will be granted to the Purchaser, unless the Warrantor is unable to remedy the defect after having a reasonable number of opportunities to do so. Prior to refund of the purchase price, Purchaser must submit a statement in writing from a professional supplier that the installation instructions of the Operating Instructions manual have been complied with and that the defect remains;
  - (e) warranty service shall be performed only by the Warrantor, or an authorized distributor, and any attempt to remedy the defect by anyone else shall render this warranty void.
5. There shall be no warranty for defects or damages caused by faulty installation or hook-up, abuse or misuse of the equipment including exposure to excessive heat, salt or fresh water spray, or water immersion except for equipment specially designed as waterproof.
6. There shall be no responsibility or liability whatsoever on the part of the Warrantor or its employees and representatives for injury to any person or persons, or damage to property, loss of income or profit, or any other consequential or resulting damage or cost which may be claimed to have been incurred through the use or sale of the equipment, including any possible failure or malfunction of the equipment, or part thereof.

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