

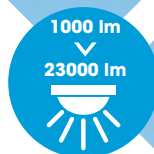
The ARO luminaire is designed for functional road lighting. It features a curved circular shape with two raised grooves at the front. Its almond-shaped profile gives it a streamlined silhouette. The luminaire features an aluminum body and a white screen-printed tempered glass finish. It is assembled without glue or solder for maximum recyclability. It can be configured as a console or pole top luminaire thanks to a flexible sleeve that can be tilted in 5° increments. It can be accompanied by optional accessories such as a dedicated console, equipped with a floodlight located at the rear, offering the possibility of creating a highlighting scenario. With its curved arm, the ARO 1 arm lyre can also be added to bring harmony to the ensemble. Electrical class I or II, ARO accommodates from 8 to 80 LEDs to provide high performance asymmetric road lighting. An integrated heatsink ensures efficient thermal regulation of the luminaire. Compatible with Zhaga standards and meeting the requirements of smart cities, it is IP66 rated and its shock energy is IK09.

\*Regulation specific to France: Decree of 27/12/2018 relating to the prevention, reduction and limitation of light nuisance: product configuration to be defined according to the nature of the project.

28/11/2024 - All informations are subject to change without notice.

# ARO

ROAD | ARO



Zhaga  
standard



- Flexible sleeve for lateral or top mounting.
- Available in 2 sizes.
- Versions on 1 arm lyre.



# ARO RANGE

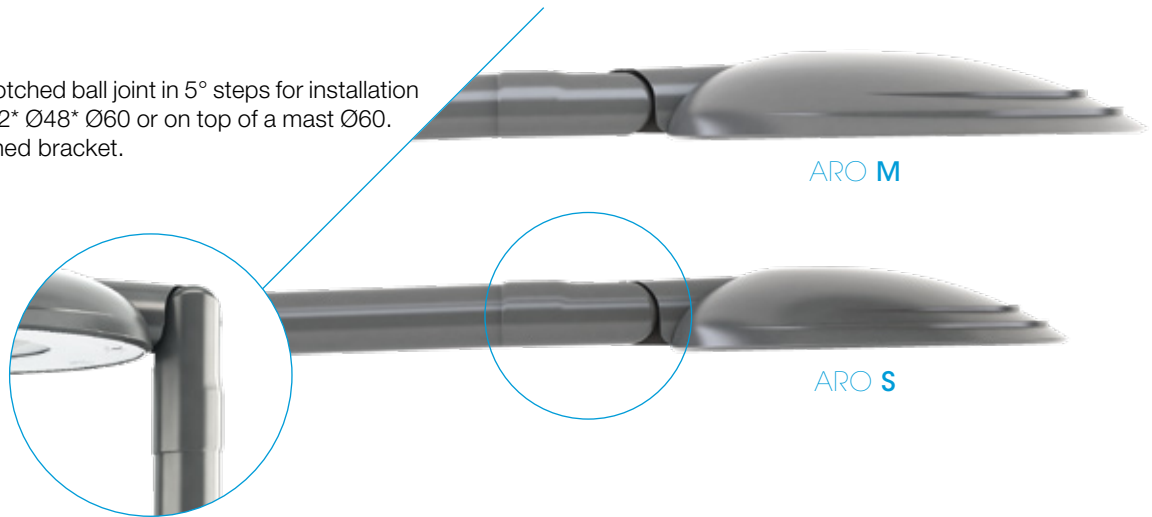




## VARIATIONS & ACCESSORIES

Flexible sleeve with adjustable notched ball joint in 5° steps for installation on any type of console Ø34\* Ø42\* Ø48\* Ø60 or on top of a mast Ø60. Ideal for retrofitting on very inclined bracket.

\*With optional reducing wedge



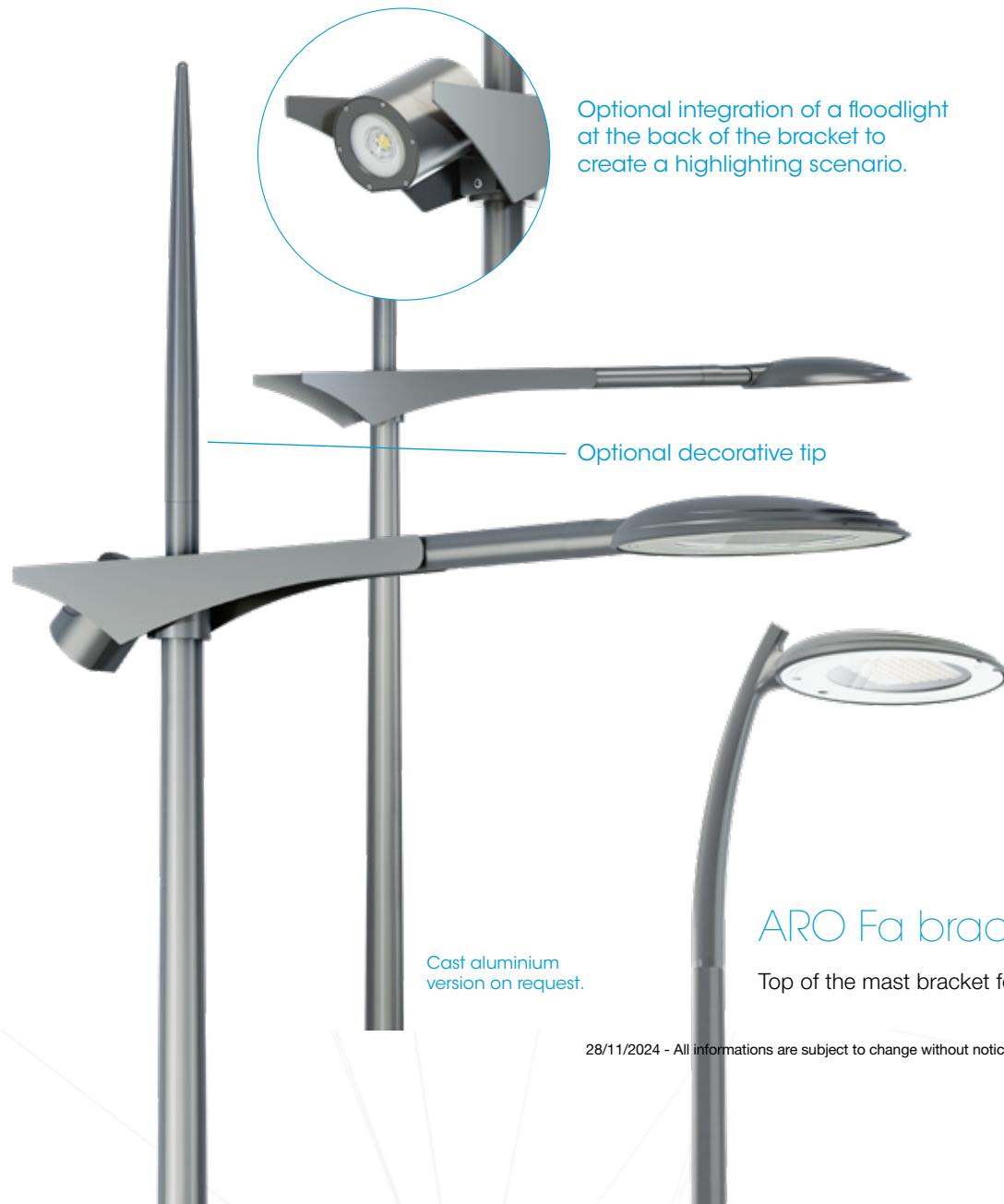
ARO M

ARO S

### ARO bracket



Optional integration of a floodlight at the back of the bracket to create a highlighting scenario.

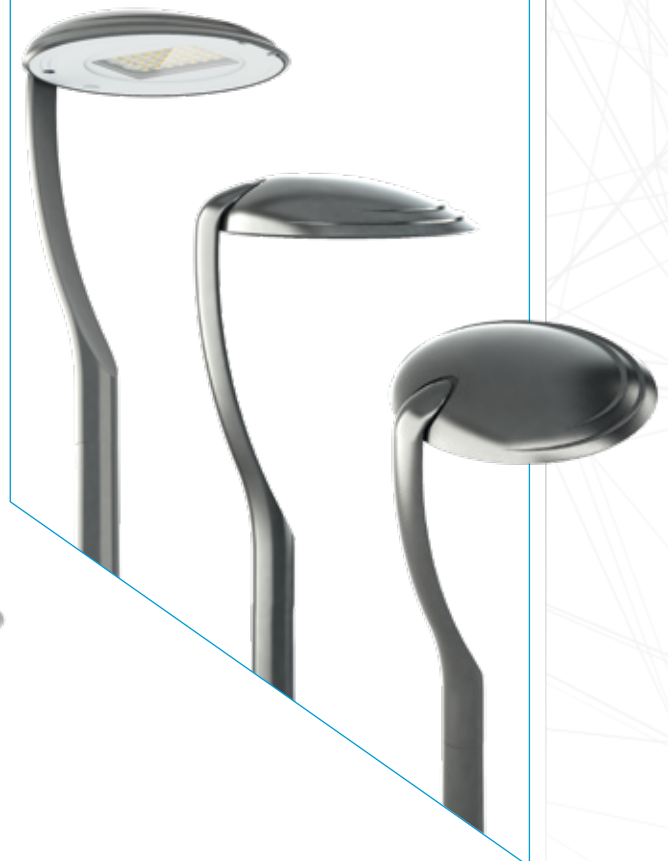


Optional decorative tip

Cast aluminium  
version on request.

### ARO Monolyre

Aesthetical 1 arm lyre, in harmony with the design of the ARO S or M luminaire.



### ARO Fa bracket

Top of the mast bracket for ARO S or M luminaires.

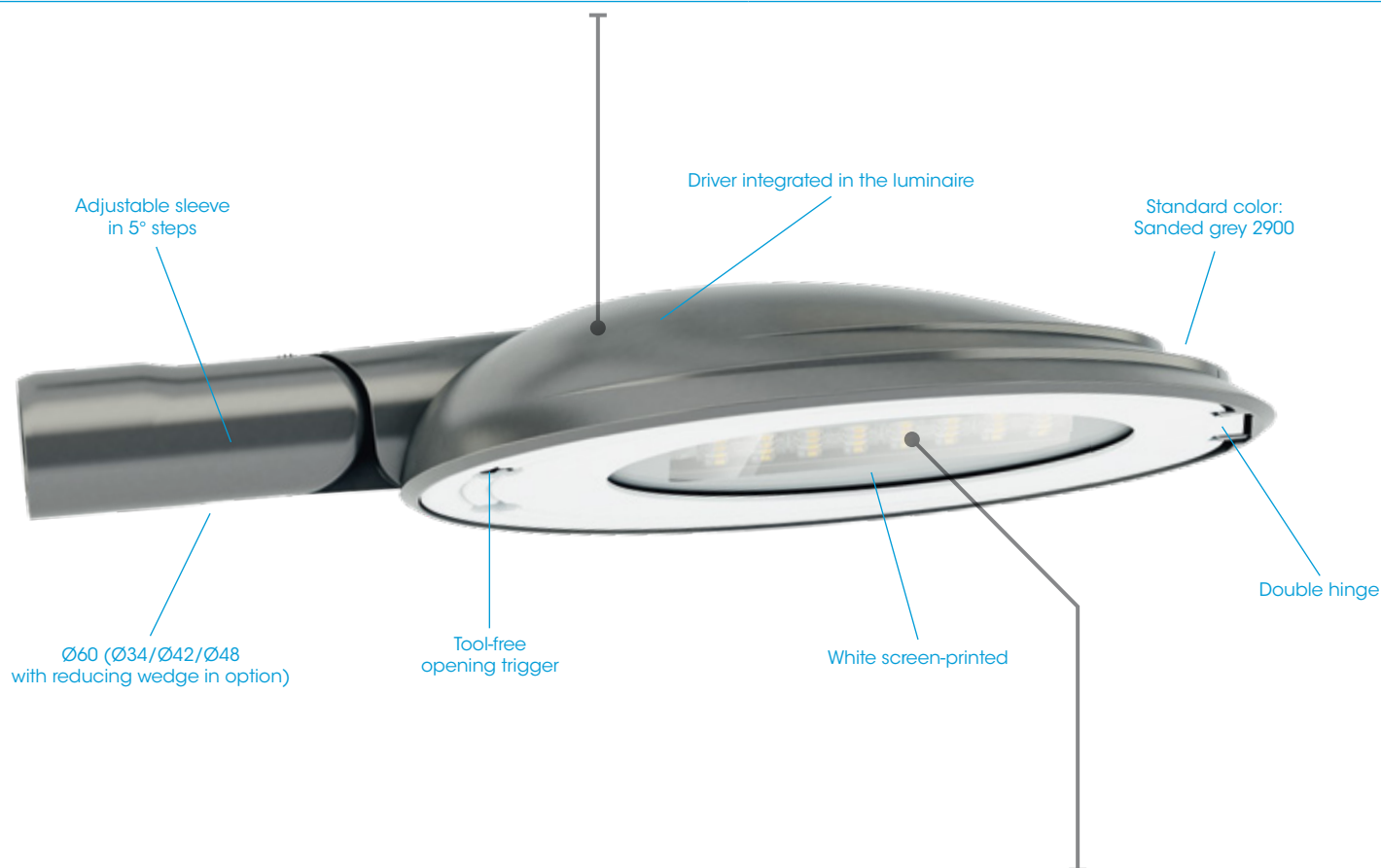
28/11/2024 - All informations are subject to change without notice.

# ARO S

## LUMINAIRE'S SPECIFICATIONS

### Luminaire's body

Weight	8.5 kg
Aerodynamic coefficient (C <sub>x</sub> S)	0.028 m <sup>2</sup>
Protection index	IP66
Materials	Aluminium



### Optical unit & control gear

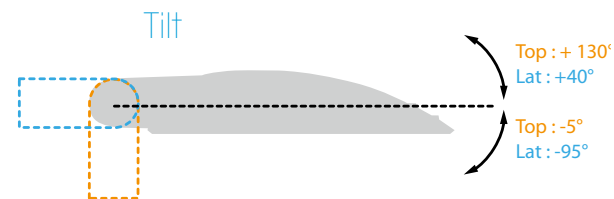
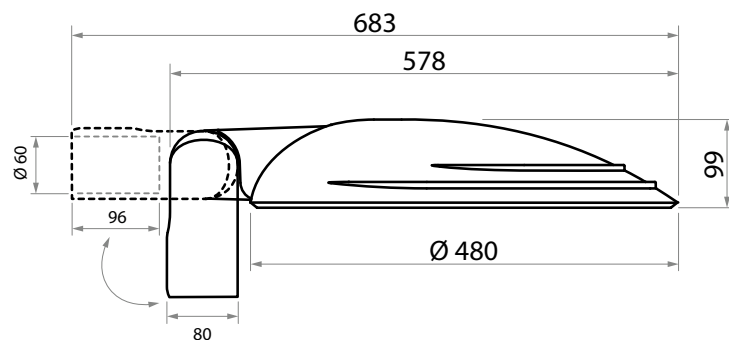
8 to 48 LED PCB in Zhaga standard - From 1000 to 13800 lm (see attached Aro datasheet for details on power, light intensity and photometry available). Integrated smart driver (control, automatic adjustment, CLO, graduation via voltage variation, DALI or Zhaga D4i). ULR 0% (*LED*) (ULR: Upward Light Ratio).

Materials	Tempered glass
Electric class	I and II
Protection index	IP66
Shock resistance	IK09

Operating temperature: -40°C to +35°C (up to +50° under conditions).

28/11/2024 - All informations are subject to change without notice.

## Dimensions (mm)



### Installation note

Tilts are possible to adapt the luminaire to different bracket configurations. In order to comply with light pollution control requirements, the inclination of a luminaire should not exceed 20°.

## Options

- Pre-wiring.
- Surge protector.
- Zhaga or Nema socket on top of the luminaire to connect OLC or photocell. Zhaga socket at the bottom of the luminaire to add accessories such as sensors.
- Ø34/42/48 with reducing wedge.
- Backlight control.
- Automatic disconnection when the luminaire is opened.
- NTC sensor.
- IK10 protection (PC).

Zhaga socket on top for communication node or photocell



## Ecodesign

Luminaire designed in compliance with the environmental criteria of energy efficiency, recyclability and interoperability.

Associate member of the Zhaga consortium, Ragni integrates electronic elements in this product that comply with the Zhaga standard, which ensures its scalability and interoperability. This luminaire is Zhaga D4i certified.

Member of the Global Compact since 2018, Ragni is committed to working towards the 17 Sustainable Development Goals (SDG 11, 12, 13, 15).

Luminaire guaranteed free of hazardous substances.

Luminaire eligible for the energy savings certificate.

Luminaire compliant with the decree of 27/12/2018 on the prevention, reduction and limitation of light pollution: product configuration to be defined according to the nature of the project.



## Applicable standards

IEC/EN 60598-1 / IEC/EN 60598-2-3 / NF EN 60529 / NF EN 62262 / IEC/EN 55015 / IEC/EN 61547 / IEC/EN 61000-3.2 / IEC/EN 61000-3.3 / IEC/EN 62493 / IEC/EN 62031 / IEC/EN 62471 / IEC/EN 61347-1 / IEC/EN 61347-2-13 / NF EN 13201-3 / NF EN 13201-4 / EN 13032-1+A1 & EN 13032-4 / LM79 / NF EN 12981

28/11/2024 - All informations are subject to change without notice.

# ARO S Monolyre

## LUMINAIRE'S SPECIFICATIONS

### Luminaire's body

Weight	10 kg
Aerodynamic coefficient (C <sub>x</sub> S)	0.039 m <sup>2</sup>
Protection index	IP66
Materials	Aluminium



### Optical unit & control gear

8 to 48 LED PCB in Zhaga standard - From 1000 to 13800 lm (see attached Aro datasheet for details on power, light intensity and photometry available). Integrated smart driver (control, automatic adjustment, CLO, graduation via voltage variation, DALI or Zhaga D4i). ULR 0% (*LED*) (ULR: Upward Light Ratio).

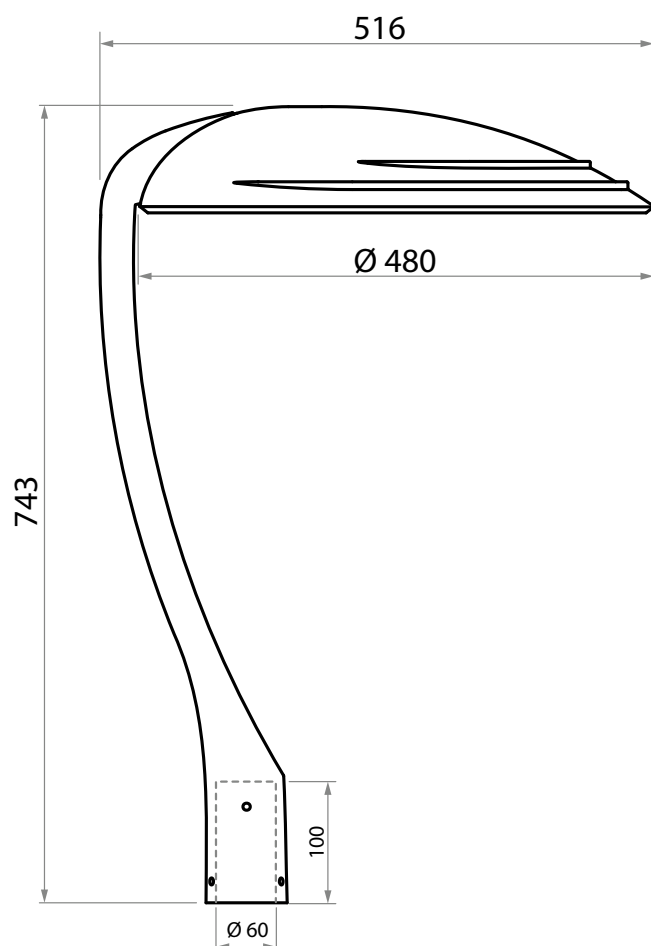
Materials	Tempered glass
Electric class	I and II
Protection index	IP66
Shock resistance	IK09

Operating temperature: -40°C to +35°C (up to +50° under conditions).

28/11/2024 - All informations are subject to change without notice.



## Dimensions (mm)



## Options

- Pre-wiring.
- Surge protector.
- Zhaga or Nema socket on top of the luminaire to connect OLC or photocell. Zhaga socket at the bottom of the luminaire to add accessories such as sensors.
- Backlight control.
- Automatic disconnection when the luminaire is opened.
- NTC sensor.
- IK10 protection (PC).



## Ecodesign

Luminaire designed in compliance with the environmental criteria of energy efficiency, recyclability and interoperability.

Associate member of the Zhaga consortium, Ragni integrates electronic elements in this product that comply with the Zhaga standard, which ensures its scalability and interoperability. This luminaire is Zhaga D4i certified.

Member of the Global Compact since 2018, Ragni is committed to working towards the 17 Sustainable Development Goals (SDG 11, 12, 13, 15).

Luminaire guaranteed free of hazardous substances.

Luminaire eligible for the energy savings certificate.

Luminaire compliant with the decree of 27/12/2018 on the prevention, reduction and limitation of light pollution: product configuration to be defined according to the nature of the project.



## Applicable standards

IEC/EN 60598-1 / IEC/EN 60598-2-3 / NF EN 60529 / NF EN 62262 / IEC/EN 55015 / IEC/EN 61547 / IEC/EN 61000-3.2 / IEC/EN 61000-3.3 / IEC/EN 62493 / IEC/EN 62031 / IEC/EN 62471 / IEC/EN 61347-1 / IEC/EN 61347-2-13 / NF EN 13201-3 / NF EN 13201-4 / EN 13032-1+A1 & EN 13032-4 / LM79 / NF EN 12981

28/11/2024 - All informations are subject to change without notice.

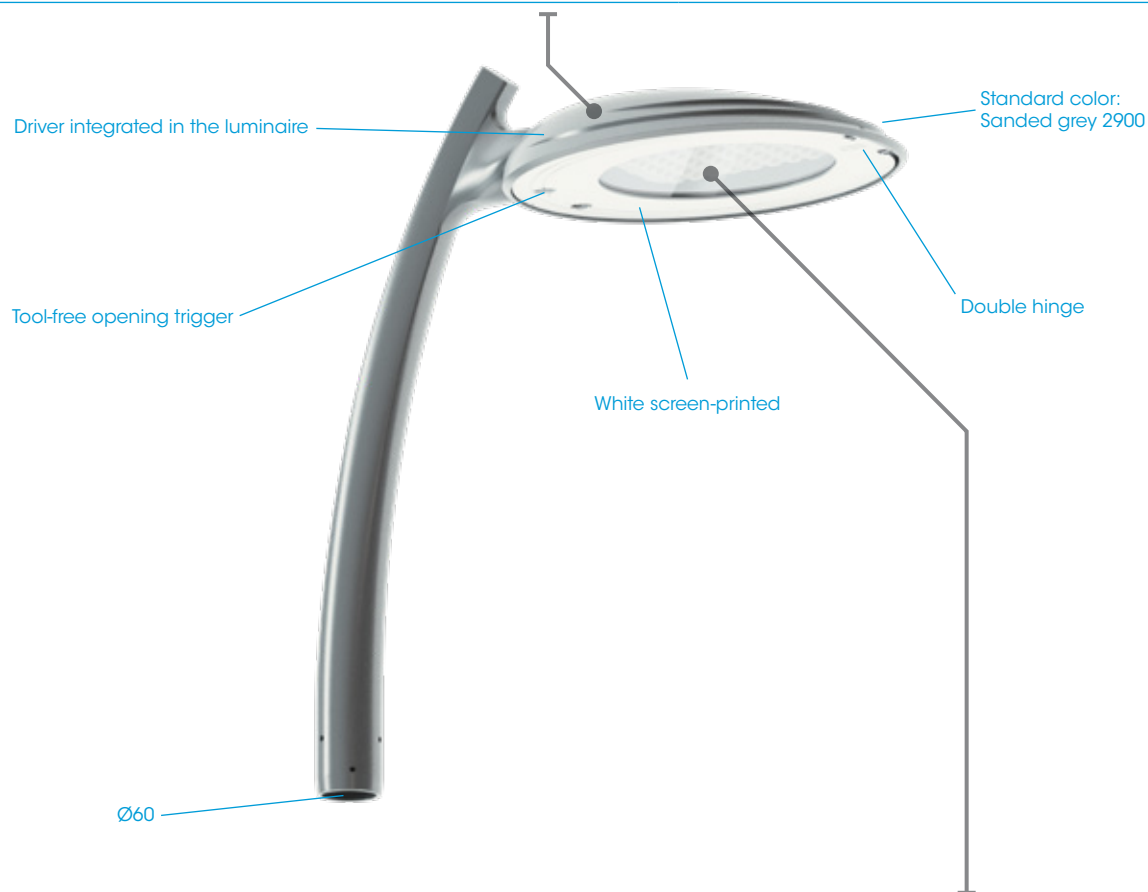


# ARO S FA Bracket

## LUMINAIRE'S SPECIFICATIONS

### Luminaire's body

Weight	11 kg
Aerodynamic coefficient (C <sub>x</sub> S)	0.068 m <sup>2</sup>
Protection index	IP66
Materials	Aluminium



### Optical unit & control gear

8 to 48 LED PCB in Zhaga standard - From 1000 to 13800 lm (see attached Aro datasheet for details on power, light intensity and photometry available). Integrated smart driver (control, automatic adjustment, CLO, graduation via voltage variation, DALI or Zhaga D4i). ULR 0% (LED) (ULR: Upward Light Ratio).

Materials	Tempered glass
Electric class	I and II
Protection index	IP66
Shock resistance	IK09

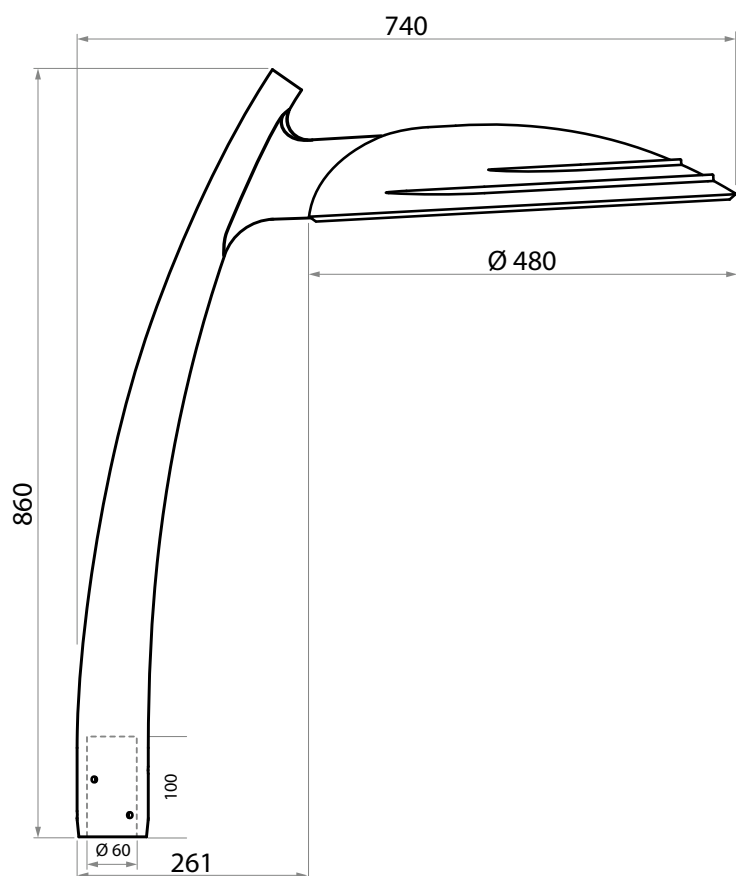
Operating temperature: -40°C to +35°C (up to +50° under conditions).

28/11/2024 - All informations are subject to change without notice.



www.ragni.com

## Dimensions (mm)



## Options

- Pre-wiring.
- Surge protector.
- Zhaga or Nema socket on top of the luminaire to connect OLC or photocell. Zhaga socket at the bottom of the luminaire to add accessories such as sensors.
- Backlight control.
- Automatic disconnection when the luminaire is opened.
- NTC sensor.
- IK10 protection (PC).



## Ecodesign

Luminaire designed in compliance with the environmental criteria of energy efficiency, recyclability and interoperability.

Associate member of the Zhaga consortium, Ragni integrates electronic elements in this product that comply with the Zhaga standard, which ensures its scalability and interoperability. This luminaire is Zhaga D4i certified.

Member of the Global Compact since 2018, Ragni is committed to working towards the 17 Sustainable Development Goals (SDG 11, 12, 13, 15).

Luminaire guaranteed free of hazardous substances.

Luminaire eligible for the energy savings certificate.

Luminaire compliant with the decree of 27/12/2018 on the prevention, reduction and limitation of light pollution: product configuration to be defined according to the nature of the project.



## Applicable standards

IEC/EN 60598-1 / IEC/EN 60598-2-3 / NF EN 60529 / NF EN 62262 / IEC/EN 55015 / IEC/EN 61547 / IEC/EN 61000-3.2 / IEC/EN 61000-3.3 / IEC/EN 62493 / IEC/EN 62031 / IEC/EN 62471 / IEC/EN 61347-1 / IEC/EN 61347-2-13 / NF EN 13201-3 / NF EN 13201-4 / EN 13032-1+A1 & EN 13032-4 / LM79 / NF EN 12981

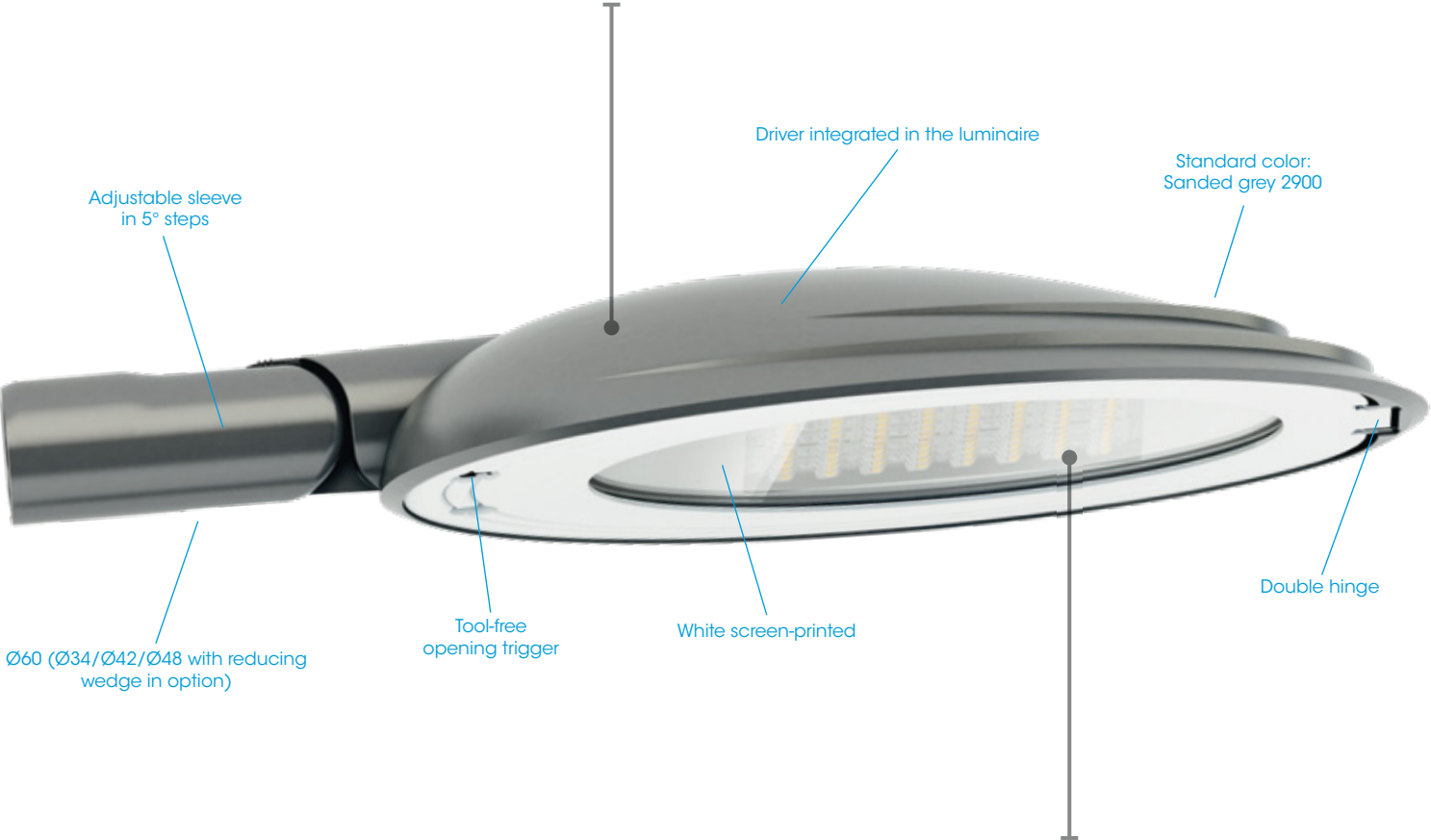
28/11/2024 - All informations are subject to change without notice.

# ARO M

## LUMINAIRE'S SPECIFICATIONS

### Luminaire's body

Weight	13.5 kg
Aerodynamic coefficient (CxS)	0.031 m²
Protection index	IP66
Materials	Aluminium



### Optical unit & control gear

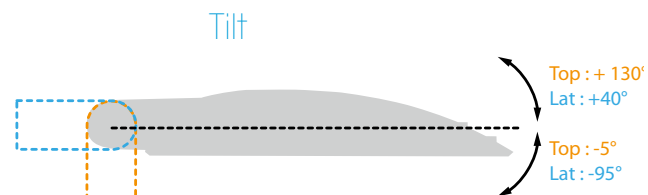
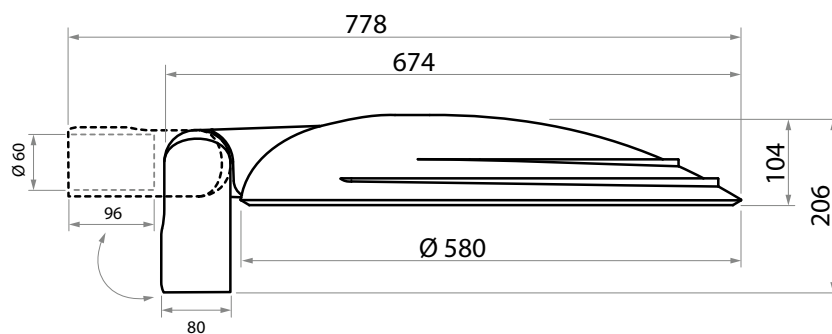
32 to 80 LED PCB in Zhaga standard - From 3100 to 23000 lm (see attached Aro datasheet for details on power, light intensity and photometry available). Integrated smart driver (control, automatic adjustment, CLO, graduation via voltage variation, DALI or Zhaga D4i). ULR 0% (LED) (ULR: Upward Light Ratio).

Materials	Tempered glass
Electric class	I and II
Protection index	IP66
Shock resistance	IK09

Operating temperature: -40°C to +35°C (up to +50° under conditions).

28/11/2024 - All informations are subject to change without notice.

## Dimensions (mm)



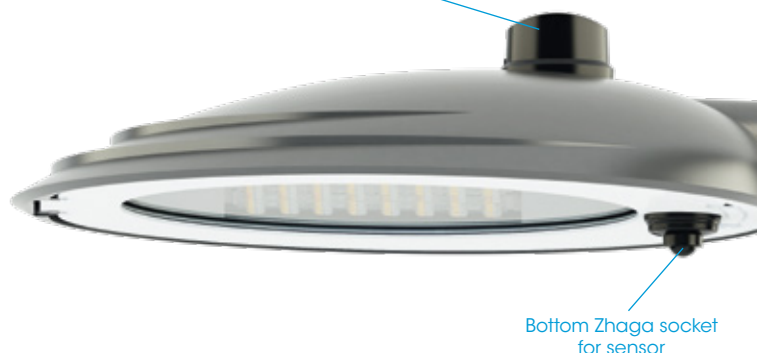
### Installation note

Tilts are possible to adapt the luminaire to different bracket configurations. In order to comply with light pollution control requirements, the inclination of a luminaire should not exceed 20°.

## Options

- Pre-wiring.
- Surge protector.
- Zhaga or Nema socket on top of the luminaire to connect OLC or photocell. Zhaga socket at the bottom of the luminaire to add accessories such as sensors.
- Ø34/42/48 with reducing wedge.
- Backlight control.
- Automatic disconnection when the luminaire is opened.
- NTC sensor.
- IK10 protection (PC).

Zhaga socket on top for communication node or photocell



## Ecodesign

Luminaire designed in compliance with the environmental criteria of energy efficiency, recyclability and interoperability.

Associate member of the Zhaga consortium, Ragni integrates electronic elements in this product that comply with the Zhaga standard, which ensures its scalability and interoperability. This luminaire is Zhaga D4i certified.

Member of the Global Compact since 2018, Ragni is committed to working towards the 17 Sustainable Development Goals (SDG 11, 12, 13, 15).

Luminaire guaranteed free of hazardous substances.

Luminaire eligible for the energy savings certificate.

Luminaire compliant with the decree of 27/12/2018 on the prevention, reduction and limitation of light pollution: product configuration to be defined according to the nature of the project.



## Applicable standards

IEC/EN 60598-1 / IEC/EN 60598-2-3 / NF EN 60529 / NF EN 62262 / IEC/EN 55015 / IEC/EN 61547 / IEC/EN 61000-3.2 / IEC/EN 61000-3.3 / IEC/EN 62493 / IEC/EN 62031 / IEC/EN 62471 / IEC/EN 61347-1 / IEC/EN 61347-2-13 / NF EN 13201-3 / NF EN 13201-4 / EN 13032-1+A1 & EN 13032-4 / LM79 / NF EN 12981

28/11/2024 - All informations are subject to change without notice.



# ARO M Monolyre

## LUMINAIRE'S SPECIFICATIONS

### Luminaire's body

Weight	14.5 kg
Aerodynamic coefficient (CxS)	0.042 m²
Protection index	IP66
Materials	Aluminium



### Optical unit & control gear

32 to 80 LED PCB in Zhaga standard - From 3100 to 23000 lm (see attached Aro datasheet for details on power, light intensity and photometry available). Integrated smart driver (control, automatic adjustment, CLO, graduation via voltage variation, DALI or Zhaga D4i). ULR 0% (LED) (ULR: Upward Light Ratio).

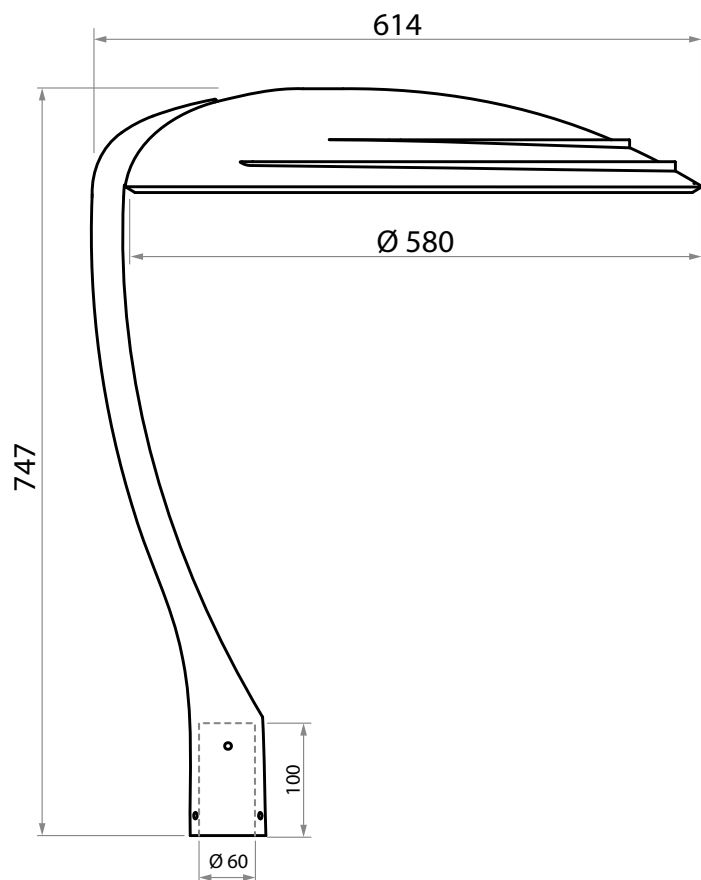
Materials	Tempered glass
Electric class	I and II
Protection index	IP66
Shock resistance	IK09

Operating temperature: -40°C to +35°C (up to +50° under conditions).

28/11/2024 - All informations are subject to change without notice.



## Dimensions (mm)



## Options

- Pre-wiring.
- Surge protector.
- Zhaga or Nema socket on top of the luminaire to connect OLC or photocell. Zhaga socket at the bottom of the luminaire to add accessories such as sensors.
- Backlight control.
- Automatic disconnection when the luminaire is opened.
- NTC sensor.
- IK10 protection (PC).



## Ecodesign

Luminaire designed in compliance with the environmental criteria of energy efficiency, recyclability and interoperability.

Associate member of the Zhaga consortium, Ragni integrates electronic elements in this product that comply with the Zhaga standard, which ensures its scalability and interoperability. This luminaire is Zhaga D4i certified.

Member of the Global Compact since 2018, Ragni is committed to working towards the 17 Sustainable Development Goals (SDG 11, 12, 13, 15).

Luminaire guaranteed free of hazardous substances.

Luminaire eligible for the energy savings certificate.

Luminaire compliant with the decree of 27/12/2018 on the prevention, reduction and limitation of light pollution: product configuration to be defined according to the nature of the project.



## Applicable standards

IEC/EN 60598-1 / IEC/EN 60598-2-3 / NF EN 60529 / NF EN 62262 / IEC/EN 55015 / IEC/EN 61547 / IEC/EN 61000-3.2 / IEC/EN 61000-3.3 / IEC/EN 62493 / IEC/EN 62031 / IEC/EN 62471 / IEC/EN 61347-1 / IEC/EN 61347-2-13 / NF EN 13201-3 / NF EN 13201-4 / EN 13032-1+A1 & EN 13032-4 / LM79 / NF EN 12981

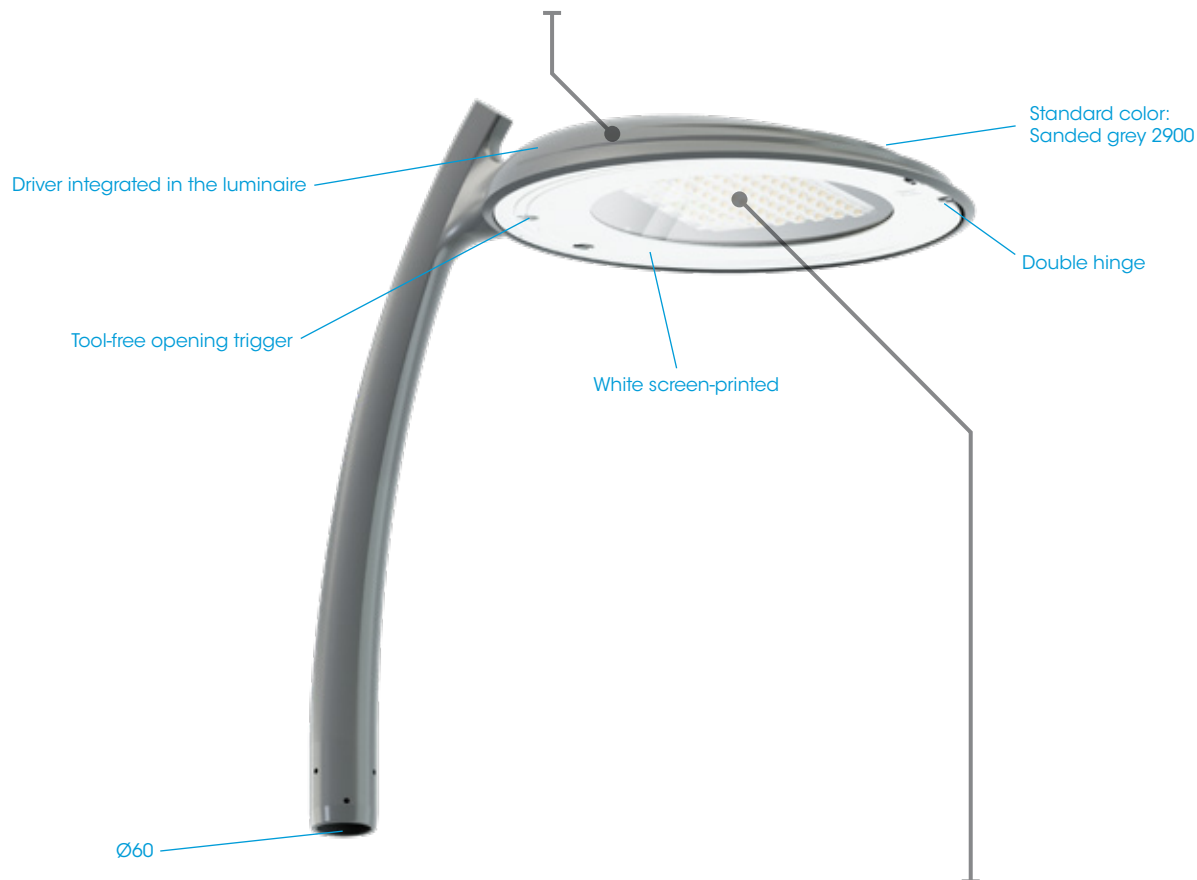
28/11/2024 - All informations are subject to change without notice.

# ARO M FA Bracket

## LUMINAIRE'S SPECIFICATIONS

### Luminaire's body

Weight	17.2 kg
Aerodynamic coefficient (C <sub>x</sub> S)	0.071 m <sup>2</sup>
Protection index	IP66
Materials	Aluminium



### Optical unit & control gear

32 to 80 LED PCB in Zhaga standard - From 3100 to 23000 lm (see attached Aro datasheet for details on power, light intensity and photometry available). Integrated smart driver (control, automatic adjustment, CLO, graduation via voltage variation, DALI or Zhaga D4i). ULR 0% (*LED*) (*ULR: Upward Light Ratio*).

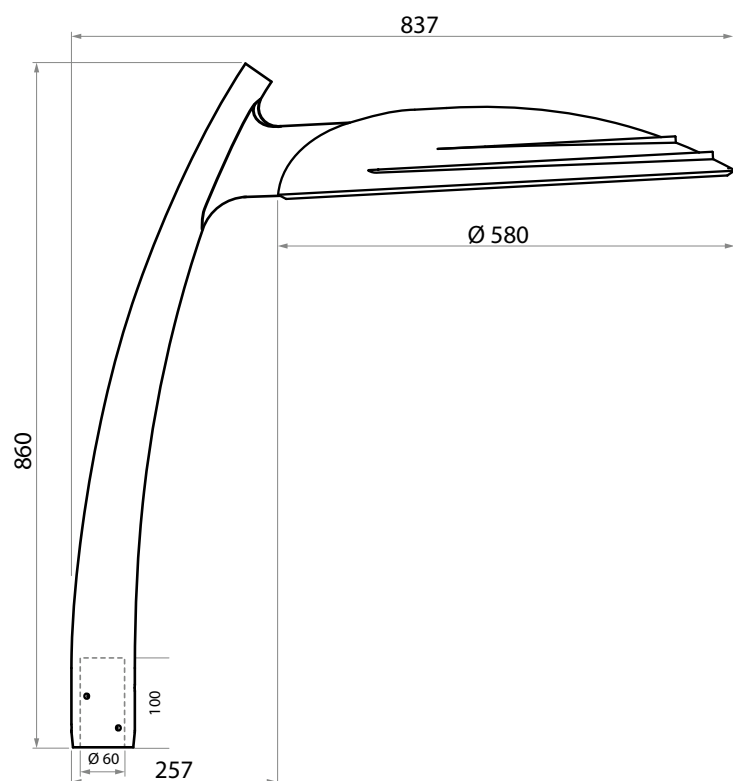
Materials	Tempered glass
Electric class	I and II
Protection index	IP66
Shock resistance	IK09

Operating temperature: -40°C to +35°C (up to +50° under conditions).

28/11/2024 - All informations are subject to change without notice.



## Dimensions (mm)



## Options

- Pre-wiring.
- Surge protector.
- Zhaga or Nema socket on top of the luminaire to connect OLC or photocell. Zhaga socket at the bottom of the luminaire to add accessories such as sensors.
- Backlight control.
- Automatic disconnection when the luminaire is opened.
- NTC sensor.
- IK10 protection (PC).



## Ecodesign

Luminaire designed in compliance with the environmental criteria of energy efficiency, recyclability and interoperability.

Associate member of the Zhaga consortium, Ragni integrates electronic elements in this product that comply with the Zhaga standard, which ensures its scalability and interoperability. This luminaire is Zhaga D4i certified.

Member of the Global Compact since 2018, Ragni is committed to working towards the 17 Sustainable Development Goals (SDG 11, 12, 13, 15).

Luminaire guaranteed free of hazardous substances.

Luminaire eligible for the energy savings certificate.

Luminaire compliant with the decree of 27/12/2018 on the prevention, reduction and limitation of light pollution: product configuration to be defined according to the nature of the project.



## Applicable standards

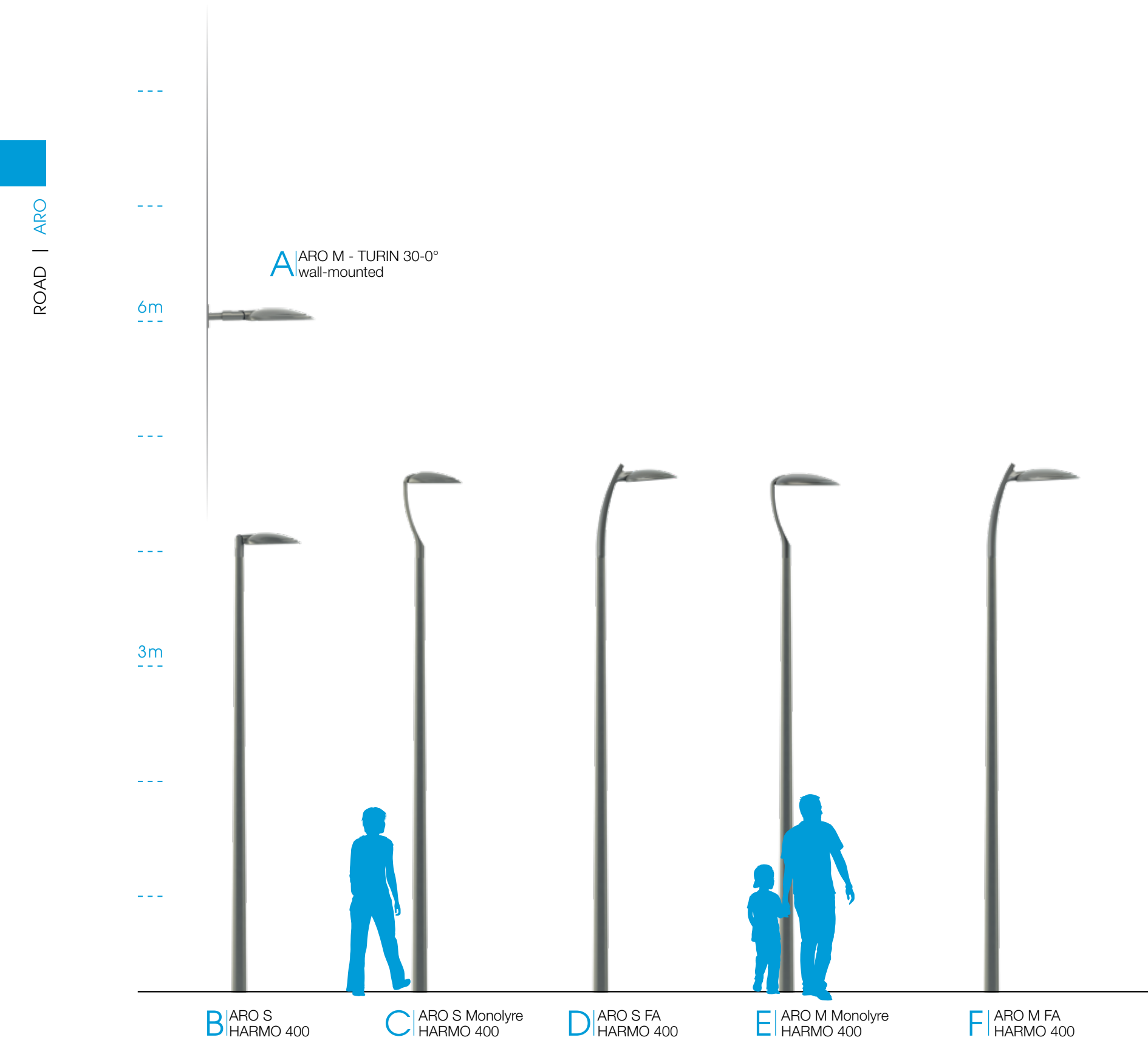
IEC/EN 60598-1 / IEC/EN 60598-2-3 / NF EN 60529 / NF EN 62262 / IEC/EN 55015 / IEC/EN 61547 / IEC/EN 61000-3.2 / IEC/EN 61000-3.3 / IEC/EN 62493 / IEC/EN 62031 / IEC/EN 62471 / IEC/EN 61347-1 / IEC/EN 61347-2-13 / NF EN 13201-3 / NF EN 13201-4 / EN 13032-1+A1 & EN 13032-4 / LM79 / NF EN 12981

28/11/2024 - All informations are subject to change without notice.



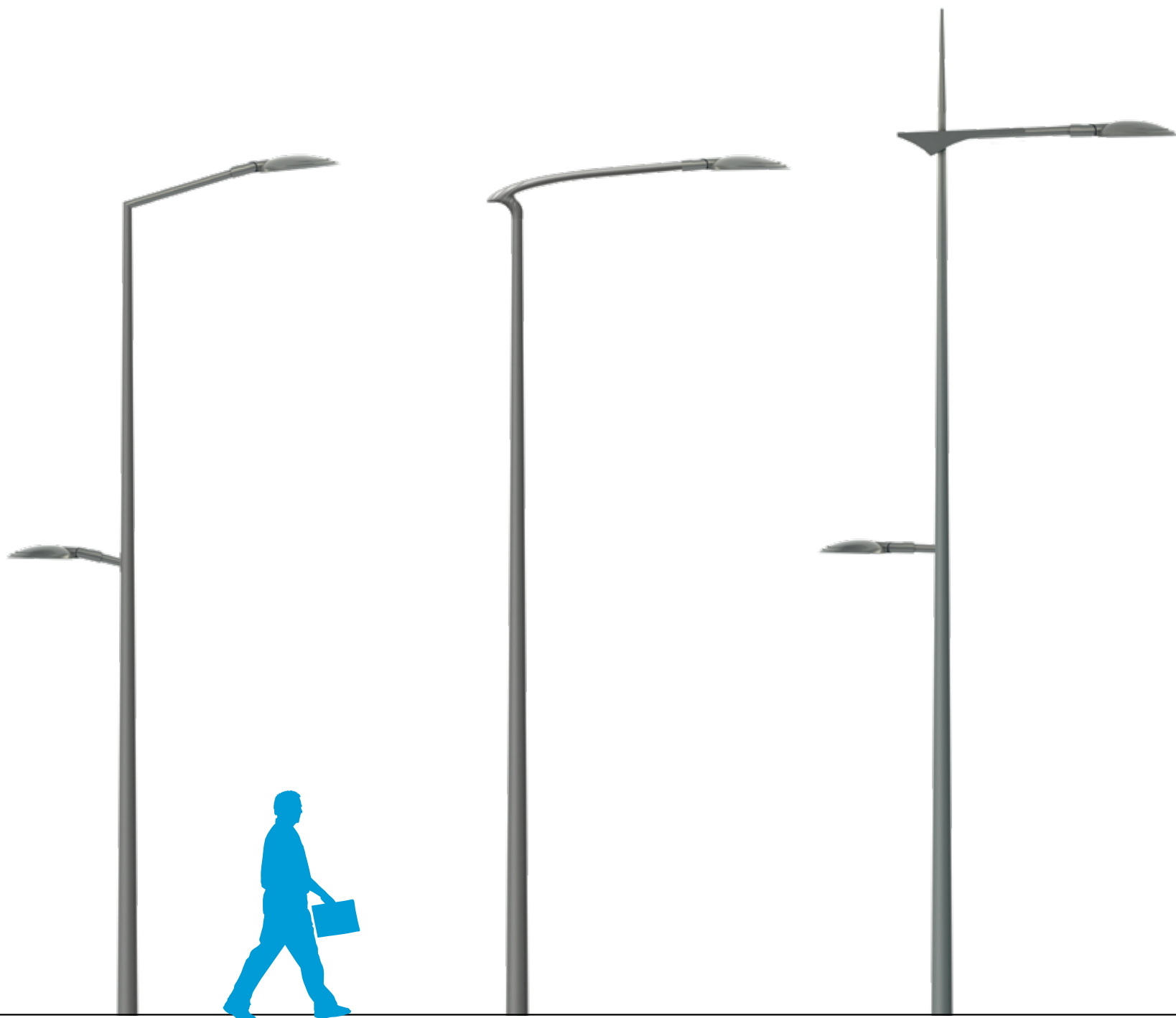
# Sets proposals

- **Standard color:** Sanded grey 2900.
- **Option:** other colors on request.



# ARO

## RANGE



**G** | ARO M - ARO S  
TURIN 100 15° - S<sup>t</sup> LUC 30-15°  
JIMA 600

**H** | ARO M  
EXIS 120 - JAVA 600

**I** | ARO M - ARO S  
Brazo ARO - S<sup>t</sup> LUC 30-5°  
JIMA 650 - Decorative tip 600

ROAD | ARO