

AVATAR Garden Light

Energy efficiency through innovative design.

01	Key Features	4
02	Advantages & Applications	(
03	Housing & Installation	
04	Model variants & Technical details	10
05	Lighting performance & Distribution	13
06	Protection ratings & Specifications	14

01 Key Features

The unique programmable driver makes the Smart City Ready feature respond effortlessly to all your changing lighting needs.

Overview



Detail



01 LED Power Supply

- A variety of drivers are available.
- 5-7 years warranty



04 Modular LED lens OR COB

- Optional light distribution curve available with optics 110° / 140°
- High efficiency LED Type source.
- 3030 RA70/80 OR COB RA95



02 Wireless control system

To establish smart city operation, energy conservation and environmental protection.



03 Photocell / NEMA 3/5/7 PIN

- Lamp will automatically turn on and off according to lux difference.
- NEMA 3/5/7 PIN available



05 10kV Surge Protection Device

- Extends the lifetime of the product while also protecting the driver and the luminaire from lightnings.
- CLASS I



06 Available with down light or up and down

4

Advantages & Applications

An optimised and fully certified LED lighting solution that provides a cost effective and fast return on investment.

Advantages

- 01 Tempered glass with 94% light transmittance
- 02 High intensity marine grade, die-cast aluminium body with an IK08 impact grade and tempered glass cover rated IK08.
- 03 High product reliability by applying 13 steps painting process.
- 04 High efficiency coating. Paint and metal parts successfully passed the 500 hours salt spray test.
- 05 Modular optical lens design, easy to upgrade in the future.
- 06 Detachable design and use of fast turn off power protector render this luminaire convenient and safe for maintenance.
- 07 10kV Surge Protection Device included & 20kV Surge Protection Device optional.
- 08 Available with Electrical Protection Class I
- 09 Cost-effective and efficient lighting solution for a fast return of investment.
- 10 1 sizes for flexibility
- 11 Easy installation and maintenance
- 12 Programmable Drivers Smart-ready
- 13 ENEC CLASS I

Characteristics

- 01 Power consumption
- 02 Typical Luminaire output flux
- 03 Colour temperature
- 04 CRI
- 05 LED Chip
- 06 Nominal voltage
- 07 Driver Brand
- 08 Surge Protection
- 09 Smart Control Options
- 10 Product IP Class
- 11 Material
- 12 Housing Colour
- 13 Installation options
- 14 Recommended Installation Height
- 15 Operating temperature
- 16 Optics

4200Lm-8400Lm

2200K - 6500K

CRI70, CRI80 available on request

LUMILEDS 3030 / COB AC100-277V, 50/60Hz

Inventronics (IP67)

10kV

Wireless Control System/ Photocell/Dimming

Die cast aluminium & Tempered glass Black / Other colours available on request

Vertical Pole 4m - 10m

-40°C ~ +50°C

110°/140°

Certificates



IP66

















Applications



Park & Garden



Parking lots



Bike & Pedestrian paths



Public squares & **Pedestrian Streets**

03 Housing & Installation

The unique ergonomic housing design enables easy on-site maintenance and installation. The die cast aluminium housing protects the interior components and ensures longevity and durability in demanding conditions.

Housing



01 PC optical lens module

- Special optic lenses provide light uniformity which optimizes the lamp's light distribution and efficiency
- Anti-aging
- Anti-ultraviolet radiation
- 142° C High temperature resistance
- 110° C Low temperature resistance

02 Double lamp body protection

- Super Toughened glass
- Toughened 3N/cm
- Surface stress resistance ≥ 87Mpa
- Internal parts
- Anti-aging ability



03 Al-Si-Cu Alloy Die Casting Housing

- Tensile strength reaches 288.3N/mm2
- Impact level up to IK08
- IEC 62262;2002
- Protection level of outer shell for external mechanical collision
- Stainless steel screws
- Structure allows air flow through heat sink for optimum heat management

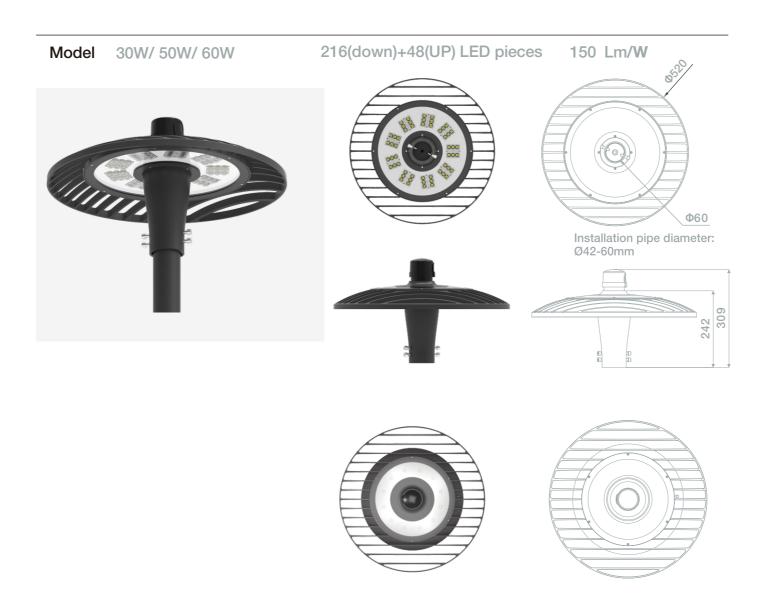
Installation

The adjustable bracket allows horizontal or vertical installation.



04 Model variants & Technical details

A complete and versatile range of lighting solutions for all road conditions.

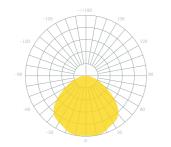


Use the contract of th

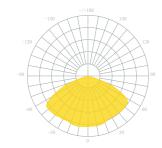
The AVATAR Garden Light solution offers reliable optical performance and durability for efficient light coverage in the most demanding situations.

Light Distribution Diagram

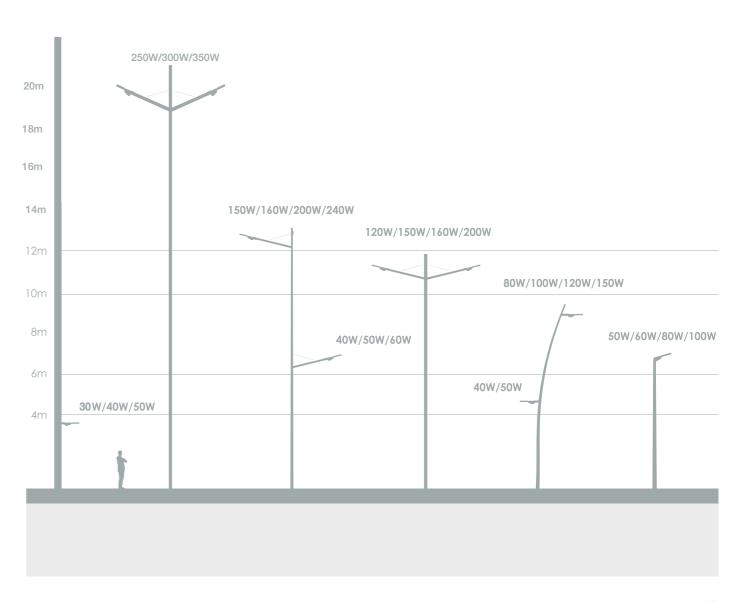
110°



140°



Pole Selection



11

Protection ratings & Specifications

Specifications - CLASS I

Model	Wattage	LED Brand	LED pcs	LPW	Luminous flux	Input Voltage	Driver	Material	Pole Diameter	Cartonsize (MM)	G.W. (KG)
GL-JL01-30W	30W	LUMILEDS	216(down) 48(UP)	140Lm/W	4200Lm	100-277V	Inventronics	ADC12/ PC/ Toughened Glass	Ф42-60mm	572x572x320/1CTN	8.3
GL-JL01-50W	50W	LUMILEDS	216(down) 48(UP)	140Lm/W	7000Lm	100-277V	Inventronics	ADC12/ PC/ Toughened Glass	Ф42-60mm	572x572x320/1CTN	8.3
GL-JL01-60W	60W	LUMILEDS	216(down) 48(UP)	140Lm/W	8400Lm	100-277V	Inventronics	ADC12/ PC/ Toughened Glass	Ф42-60mm	572x572x320/1CTN	8.3

Inventronics Driver Warranty 5 vrs

Safety and symbols key



Certification mark

Protection standards for products sold within the European Economic Area (EEA)

RoHS Restriction of Hazardous Substances

The Restriction of Hazardous Substances Directive 2002/95/EC bans placement into the EU market of new electrical and electronic equipment containing more than the designated maximum allowable levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.



Electromagnetic compatibility (EMC)

Measures the ability of equipment or systems to function satisfactorily in their electromagnetic environment without introducing intolerable electromagnetic disturbance to anything in that environment.



ENEC (European Norms Electrical Certification)

A certification scheme under CENELEC, accepted throughout Europe. The ENEC Mark for electrical products demonstrates compliance with European safety standards.

WEEE The European Waste Electrical and Electronic Equipment (WEEE)

Indicates conformity with health, safety, and environmental

The European Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC, as amended by 2003/108/EC, encourages the collection, treatment, recycling and recovery of waste electrical and electronic equipment.



REACH Certificate of Compliance certifies that a product is compliant with the EU REACH regulation (EC) No 1907/2006, regarding the environmental and human health protection from risks posed by chemical substances.

Standardized documents

ISTMT ISTMT is the measurement of the LED source case temperature within the LED system (luminaire or lamp) while it is operating in its designed position and/or environment (In "Situation"). The measurement is performed at the temperature measurement point (Tc Point) indicated by the LED package manufacturer.

TM21 TM21 is the IESNA approved method for taking LM-80 data and making useful LED lifetime projections. The standards apply to lifetime projection of LED package, array or module alone. The results can then be used to interpolate the lifetime of an LED source within a system (luminaire or integrated lamp) using the in-situ LED source case temperature.

LM80 is the IESNA approved standard for measuring lumen maintenance of LED light sources. LM-80-08 apply to the LED package, array, or module alone, not a complete system, it is testing a component level. The standard does not provide guidance for extrapolation of testing results.

LM82 is the IESNA Approved Method for the Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature (LM-82-12) is a document which addresses the changes in photometric performance of SSL light engines and lamps with changes in temperature

Salt Spay Test is used to test the relative resistance to corrosion of protective coatings, when exposed to a salt mist (spray) climate at an elevated temperature. Test specimens are placed in an enclosed chamber and exposed to a continuous indirect spray of neutral (pH 6.5 to 7.2) salt water solution, which falls-out on to the specimens at a rate of 1.0 to 2.0ml/80cm²/hour, in a chamber temperature of +35C. This climate is maintained under constant steady state conditions.

IEC 62722 | IEC 62722 covers specific performance and environmental requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1000 V. Unless otherwise detailed, performance data covered under the scope of this standard are for the luminaires in a condition representative of new manufacture, with any specified initial aging procedures completed in a chamber temperature of +35C. This climate is maintained under constant steady

Ingress protection rating

Rating Example

Ingress protection | Against Solids

The first number identifies the ingress protection rating against solids

- 1 For solid bodies with dimension
- 2 For solid bodies with dimensions > 12.5mm 3 For solid bodies with dimensions > 2.5mm
- 4 For solid bodies with dimensions > 1mm

The second number identifies the ingress protection rating against liquids

- For vertically falling drops
- 2 For vertically falling drops when enclosure is tilted up to 15° vertically
- 3 For water sprayed at an angle up to 60° vertically
- 4 For water splashed in any direction 5 For water projected in jets against the enclosure from any direction
- 6 For water projected in powerful jets against the enclosure
- from any direction
- 7 For enclosure's temporary immersion at 1 meter in the water,
- conditions to those of number 7

Impact protection rating

Rating Example

Impact protection | Mechanical Impact level

The number identifies the impact protection rating

01-05 For tiny impact of < 1 Joule

For impact of 1 Joule For impact of 2 Joule

For impact of 5 Joule

For impact of 10 Joule

For impact of 20 Joule

8 For enclosure's continuous immersion in the water, under more severe

14

⁻ Standard Pre-cabling 0.3m and longer available on request and subject to price change