iinno lighting

Atlas TRD & Orion Park Lights 2021

Designing your lighting solutions

Content

SYMBOLS KEY

Non-Dimmable Product

0-10V Dimmable Product

1-10V Dimmable Product

DALI Dimmable Product

TRIAC Dimmable Product

Certification mark that indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA)

The UL Mark is the single most accepted Certification Mark in the United States. If a product carries one of these marks, it means UL found that representative product samples met UL's requirements

ENEC (European Norms Electrical Certification) is a certification scheme under CENELEC, accepted throughout Europe. The ENEC Mark for electrical products demonstrates compliance with European safety standards.

CB Scheme is an international system for mutual acceptance of test reports and certificates dealing with the safety of electrical and electronic components, equipment and products.

TÜV certification marks show that manufacturer's products have met applicable safety requirements and quality standards.

The UL Mark is the single most accepted Certification Mark in the United States. If a product carries one of these marks, it means UL found that representative product samples met UL's requirements.

The cULus is a combination mark that indicates compliance with both the U.S. requirements and those of CAN/CSA 22.1-12, which is the Canadian Electrical Code issued by the Canadian Standards Association.

INMETRO, the Brazilian accreditation body, is responsible for the accreditation of each product Certification Body (CB). In addition, INMETRO defines the products and the respective requirements within this certification scheme. Products manufactured in or exported to Brazil need a CB-issued certificate, stating that the product or family meets the Brazilian requirements.

The DesignLights Consortium® is a collaboration of utility companies and regional energy efficiency organizations. The certification is issued for commercial LED lights based on their color rendering capabilities, light distribution and output, lumen maintenance, longevity or the ability to withstand stress, and the duration of the warranty period.

The FCC Declaration of Conformity or the FCC mark is a certification mark employed on electronic products manufactured or sold in the United States which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.

The C-Tick mark is intended for use on products that comply with EMC standards. The label indicates that the product complies with the applicable EMC standard and establishes a traceable link between a product and the supplier responsible for placing it on the Australian or New Zealand market.

INGRESS PROTECTION RATING

Rating Example

IP	6	5
Ingress protection	Against Solids	Against Liquids

The first number identifies the ingress protection rating against solids

1. for solid bodies with dimensions > 50mm
2. for solid bodies with dimensions > 12.5mm
3. for solid bodies with dimensions > 2.5mm
4. for solid bodies with dimensions > 1mm
5. Dust protected
6. Dust tight

The second number identifies the ingress protection rating against liquids

1. 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, under defined conditions
8. for enclosure's continuous immersion in the water, under more severe conditions to those of number 7.

IMPACT PROTECTION RATING

Rating Example

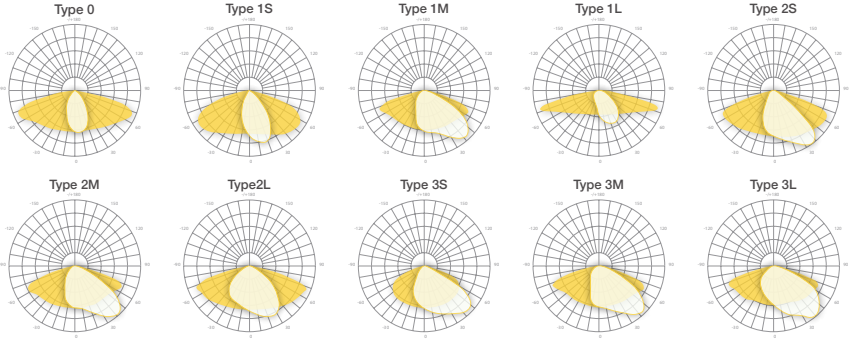
IK	05
Impact protection	Mechanical Impact level

The number identifies the impact protection rating

00. No protection
01-05. for tiny impact of < 1 Joule
06. for impact of 1 Joule
07. for impact of 2 Joule
08. for impact of 5 Joule
09. for impact of 10 Joule
10. for impact of 20 Joule

Orion Hanging Street Light Series

Light Distribution Diagram



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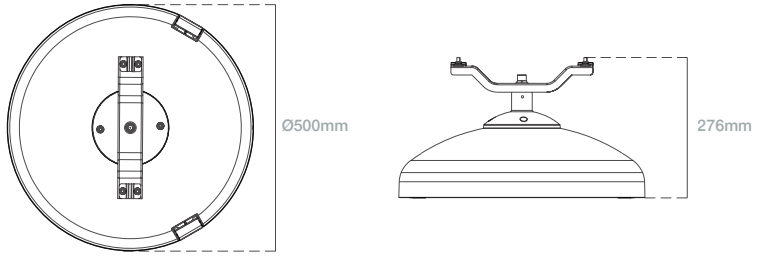


Specifications

Driver Brand	Inventronics
LED Chip	Osram
Operating Temperature	-35°C ~ +50°C
Smart Control Options	1-10V/DALI Dimming
Material	Die-cast aluminum & Tempered glass
Color	Metal/White/Black/Pearl
Installation Options	Suspended, Pole mounted
IES Files	Available

Features & Certificates

5yrs Warranty · IP66 · IK09 · CE · RoHS · CB · 115Lm/W · 1-10V · DALI

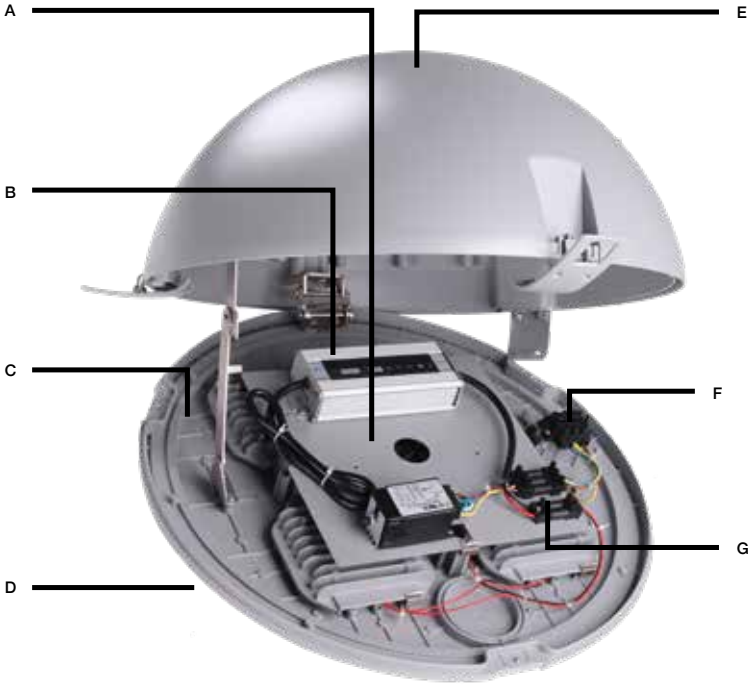
Product Parameter

Item No.	Power	Voltage	PF	CCT	CRI	Beam Angle	Lm/W
25018	60W	AC100-277V	>0.90	3000K/4000K/ 6500K	>70	80°x150°	115Lm/W
25042	90W						
25064	120W						

Advantages

- Surge Protection Device
- Non-flickering Driver

Orion Park Series I



Advantages

Optical PC cover, resistant against high temperatures, aging and ultravioler radiation

High intensity die-cast aluminum body with impact grade that reaches IK09

Modular optical lens design, easy to improve in future

Clip-on design, makes lamp easy to install, maintain and replace

Detachable design and use of fast turn off power protector render this luminaire convenient and safe for maintenance

With surge protector device, the luminaire can reach Class I (10KV) or Class II (5-9KV)

Color Options

Metal Grey Black

Pole color and design can be customized under special terms.

A. Wireless control system available

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

B. LED Power Supply

A variety of power drivers are available

C. Surge Protection Device

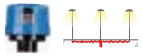
To provide a reliable guarantee for LED drive power, extend the life of the product and protect from lightnings.

D. Modular LED lens design

Optional light distribution curve available with T2-1, T3-1, TS-1 easy to replace in the future.

E. Photocell Available

Lamp will automatically turn on and off according to lux difference.



F.Auto electrical disconection

Built-in circuit breaker that activates when luminaire is opened for maintance, to protect the electricians'safety.

G. Detachable connect base

Easy disassembly for reduced maintenance costs.

Orion Park Series I

Specifications

Driver Brand	/
LED Chip	Osram
Operating Temperature	-35°C ~ +50°C
Smart Control Options	Wireless Control System/ Photocell/Dimming
Material	Die-cast aluminum & PC
Color	Metal Grey/Black
Installation Options	Post-top mounting
IES Files	Available

Features & Certificates

5yrs Warranty · IP66 · IK09 · CE · RoHS · 100Lm/W

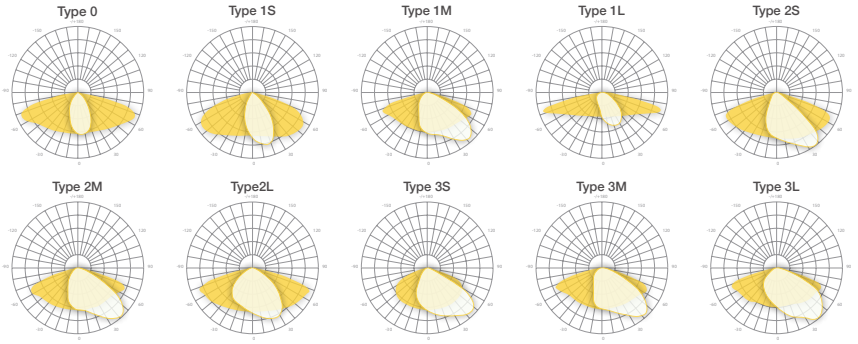
Available Accessories

- Surge Protection Device

Extra Features

- Non-flickering Driver

Light Distribution Diagram



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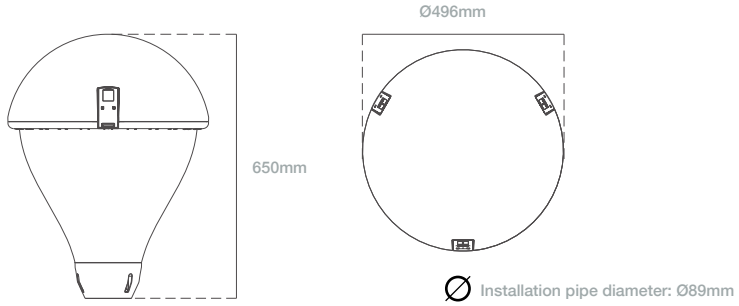


Product Parameter

Item No.	Power	Voltage	PF	CCT	CRI	Beam Angle	Lm/W
25190	30W	AC100-277V	>0.90	3000K/4000K/ 6500K	>70	33°x159° 40°x159° 150°	100Lm/W
25193	60W						
25196	90W						

Orion Park Series II

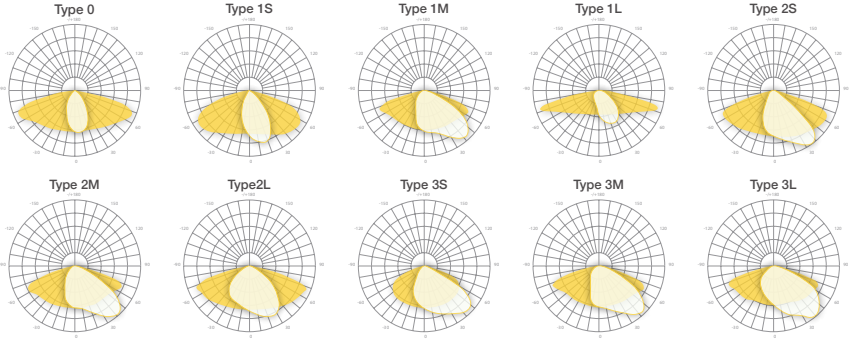
Specifications

Driver Brand	Inventronics
LED Chip	Osram
Operating Temperature	-35°C ~ +50°C
Smart Control Options	/
Material	Die-cast aluminum & PC
Color	Silver Grey
Installation Options	Pole mounted
IES Files	Available

Features & Certificates

5yrs Warranty · IP65 · CE · RoHS · 65Lm/W

Light Distribution Diagram



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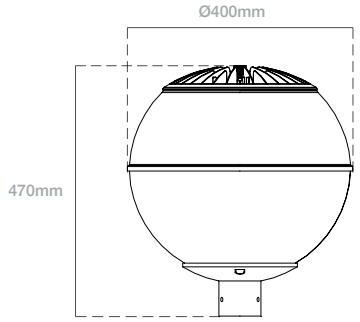


∅ Installation pipe diameter: Ø60mm

Product Parameter

Item No.	Power	Voltage	PF	CCT	CRI	Beam Angle	Lm/W
843898	30W	AC100-277V	>0.90	3000K/4000K/ 6500K	>70	120°	65Lm/W
843901	60W						

Traditional Park Lights

Advantages

Top LED light source

The best heat conductivity

Convenient installation to replace HPS directly

The respiratory system, ensure the dust resistance

Water resistance and self cleaning ability

Aesthetic style

Controller

With Photocontrol

Details

Installation Method

Mast arm

Without Glass

Frosted Glass

Clear Glass

Post top

Without Glass

Frosted Glass

Clear Glass

Traditional Park Lights

Specifications

Driver Brand	Inventronics
LED Chip	Osram
Operating Temperature	-40°C ~ +50°C
Smart Control Options	/
Material	Aluminum & PC
Color	Metal
Installation Options	Pole mounted
IES Files	Available

Features & Certificates

5yrs Warranty · IP66 · IK08 · CE · RoHS · 125Lm/W · 135Lm/W · 0-10V

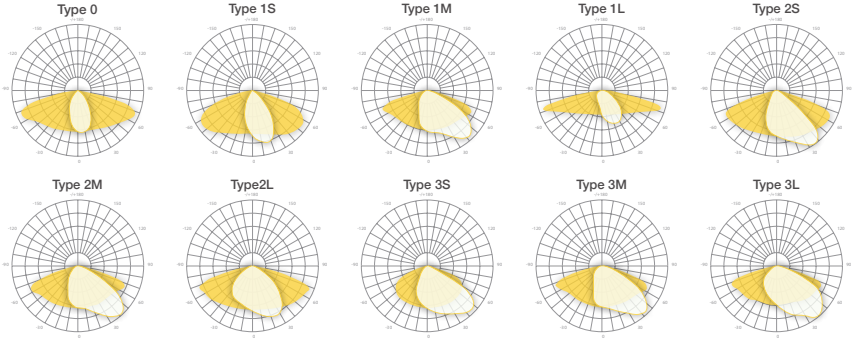
Available Accessories

- Suitable for post top or mast arm installation
- Installation pipe diameter: Ø76mm

Extra Features

- 10KV Surge Protection Device included
- Standard model is without glass. Frosted or Clear glass covers available

Light Distribution Diagram



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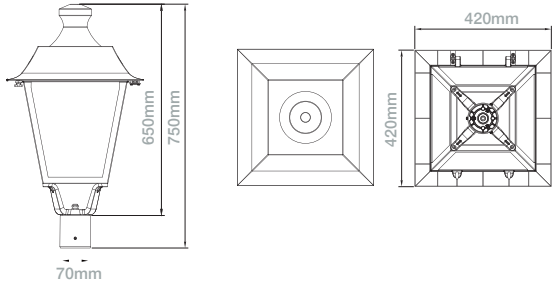


Product Parameter

Item No.	Power	Voltage	PF	CCT	CRI	Beam Angle	Lm/W
847218	20W	AC120-277V	>0.9	30000K/4000K 5000K/6500K	>70	Type 2S	125Lm/W
847222	30W						
847226	40W						
847230	50W						
847234	60W						
847238	70W						
847242	80W						
847219	20W					Type 2S/2M/3M/4S	135Lm/W
847223	30W						
847227	40W						
847231	50W						
847235	60W						
847239	70W						
847243	80W						

Street light control

Switching and dimming control is extremely flexible in the PLANet system. Lights are grouped according to their switching program. There is no limit on the number of groups and programs can be configured with a range of options.

Switching methods:
- by time e.g. 5pm
- by solar calendar e.g. 10 min after sunrise
- by light level e.g. 10 Lux
- combination of these

Days of week control:
- e.g. different switching at weekends

Trimming:
- Optimized/auto trim burning hours

Standard control programs:
- photocell
- part night on/off
- part night dim
- fixed times

Calendar control:
- special events
- seasonal adjustments

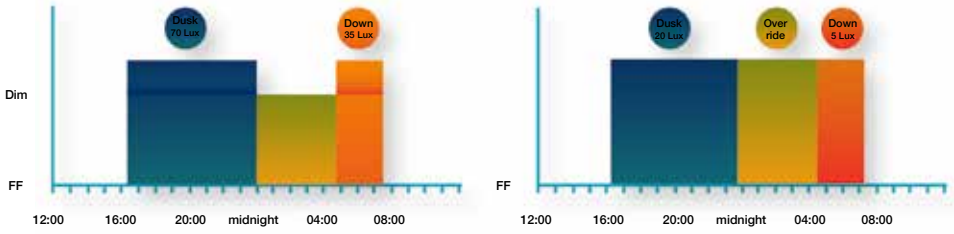
Override:
- Quick switching changes across groups/whole population
- respond to incidents
- use for maintenance

Custom control programs:
- up to 10 switching steps

Dimming control:
- With 0-10V or DALI ballasts
- Dim to any level 0-100% (ballast permitting)

Load reduction:
- Enables demand-side balancing

Examples:



Street light monitoring and fault detection

Each TELECELL unit can measure an extensive range of parameters. Readings can be returned using programmed monitoring or ad hoc interrogation.

Measurable parameters include:

Lamp condition:
- Failure Cycling
- Day burning

Times:
- Switching cycles
- Burn hours
- BSCP event log

Electrical:
- Instant power
- instant current
- Instant power factor
- Average power
- Average current
- Average power factor

Mains supply:
- Instant voltage
- Average voltage
- Low voltage
- Power cycles

TELECELL unit:
- Temperature
- Missing data (from loss of supply or communication)

Energy:
- Active energy
- Cumulative energy

Some of the measurable parameters can be used to generate faults or warnings. These are reported and summarized on a daily basis. On some parameters, thresholds can be set which, when triggered, can cause immediate alarms.

Energy reporting

The first requirement in managing energy consumption is to be able to measure it accurately. Each TELECELL unit contains a metering chip so cumulative active energy is measured precisely for every fixture. This allows true energy consumption to be shown for any filtered set of lights for any calendar period.

Street light maintenance

With comprehensive monitoring capabilities, the PLANet system is an effective tool for improving and streamlining maintenance operations, resulting in a better lighting service for the public. The system contributes significantly to delivering an enhanced service by:

Reducing night maintenance inspections:
- Avoids patrolling in dangerous areas
- Inspections can be less frequent and carried out in the day time

Bulk lamp change policies:
- prompt lamp failure detection means bulk change period can be extended, while maintaining overall outages levels within targets

Fault diagnosis:
- Lamps: failure, cycling, day burning
- Ballasts: power factor
- Mains supply: power cuts, over voltage
- Lost connection: internal wiring, column down

Improving inventory:
- Monitoring reveals potential discrepancies in inventory

Extending range of information available:
- Mains supply profile
- Maintenance operatives' performance

Reducing repair times:
- Avoids time wasted between night inspections
- Understanding lamp failures enables repair to be scheduled more quickly

Integration with asset management systems

The PLANet system can be interfaced to asset management systems allowing the import and export of asset data and fault reporting and generate work orders from those systems. The interfaces range from simple CSV based file transfer to XML based web service interfaces to popular systems such as Mayrise and Pitney Bowes "Confirm".

Warranty Policy

Warranty for IINNO-Branded Professional LED Luminaires

This document sets out the warranty policy of IINNO from which you purchase your professional lunimaires.

Terms and Condition

1. This warranty is only applicable to IINNO branded lighting products sold by IINNO Limited (hereinafter referred to as 'Product').

2. The warranty is only applicable to the party purchasing the products directly from IINNO (Hereinafter referred to as 'Purchaser'). Third party products sold by IINNO are not covered under this warranty. With respect to products sold to the Purchaser by IINNO, but not bearing the IINNO name or sub-brands, IINNO makes no warranty of any kind, express or implied, including, without limitation, any warranty of merchantability or fitness for a particular purpose, but will make available to the Purchaser upon request, but only to the extent permitted by law and relevant contracts, the warranties of the manufacturer of the relevant product.

3. No agent, distributor or dealer is authorized to change, modify or extend the terms of the warranty on behalf of IINNO.

4. IINNO warrants that each Product will be free from defects in material and workmanship. The foregoing warranty shall be valid for the period mentioned in the applicable warranty clause for the Products referred to in IINNO's confirmation of your PI.

5. The warranty term starts from the production date printed on the products used in professional applications.

6. The warranty period is based on a burning behaviour of max. 4000 hours/year. In case of more than 4000 hours/year, the warranty period will be adjusted pro-rata.

7. This warranty only applies when the Product has been properly wired and installed and operated within the electrical values, operating range and environmental conditions provided in the specifications, application guidelines, IEC standards or any other document accompanying the Products.

Additionally, installation must be performed only by authorized personnel, who will establish that the above mentioned precautions will be taken under consideration.

8. This warranty does not apply to damage or failure to perform arising as a result of any Acts of God or from any abuse, existing local network (or Public grid) failure, misuse, abnormal use or use in violation of any applicable standard, code or instructions for use, including without limitation, those contained in the latest safety, industry and/or electrical standards for the relevant region(s).

9. IINNO reserves the right to the validity of a guarantee claim. For this purpose, the Purchaser must return, with sufficient postage, for analysis (enclosing a copy of the delivery note or the invoice).

10. Within the applicable warranty period and on examination IINNO determines to its satisfaction that such Product failed to satisfy this warranty, IINNO will, at its option, repair or replace the Product or the defective part thereof, or reimburse Purchaser the purchase price. For purposes of clarity, 'repair or replace the Product or the defective part thereof' does not include any removal or reinstallation activities, costs or expenses, including without limitation, labor costs or expenses.

11. If IINNO chooses to replace the Product and is not able to do so because it has been discontinued or is not available, IINNO may refund the purchaser or replace the product with a comparable product (that can show small deviations in design and product specification).

12. Warranty claims have to be reported and returned to IINNO office within 30 days after discovery, specifying at least the following information (additional information may be required on request):

Details of the failed Products; and for System
warranties also details of other components used;
Installation date and invoice date;

Detailed problem description, number and % of
failures date-code of failure;
Application, hours burned and number of switching cycles.

13. Where a warranty claim is justified, IINNO will pay for freight expenses. IINNO may charge Customer for returned Products that are not found to be defective or non-conforming together with the freight, testing and handling costs associated therewith.

14. The warranty and remedies contained in this warranty are the only warranties given by IINNO with respect the Products and are given in lieu of all other warranties, whether express or implied, including without limitation warranties of merchantability or fitness for a particular purpose, which warranties are hereby disclaimed.

15. These terms and conditions state IINNO's entire liability and obligation to Purchaser and Purchaser's sole and exclusive remedy in connection with defective or non-conforming Products supplied by IINNO to Customer, whether or not such damages are based on any warranty not explicitly mentioned in these terms and conditions, tort, contract or any other legal theory, even if IINNO has been advised or is aware of such defects.

16. This is a limited warranty and excludes, among other items, installation, providing access to products (scaffolding, lifts, etc.), and special, incidental and consequential damages (such as loss of revenue/profits, damage to property or other miscellaneous costs not previously mentioned), and is further defined by the limitations and conditions set forth in the respective warranty policy and these terms and conditions.

17. Upon request, IINNO'S representatives shall be allowed access to the defective Product, system or application for verification of non-compliance.

18. IINNO cannot be held liable for electrical supply conditions, including supply spikes, over-voltage/under-voltage and Ripple Current control systems that are beyond the specified limits of the products and those defined by relevant supply standards (e.g. EN 50160 norms).

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