Camping Lantern Specifications: Lumens, Runtime and Charging

A retail-buyer checklist for comparing lantern lumens, runtime and charging only when the mode, method, endpoint, battery and test conditions are documented.

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Outdoor Product Sourcing Guides

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TL;DR

A comparable camping-lantern specification links light output to the named mode and test method, runtime to the same mode and endpoint, and charging time to battery state, input, cable, adapter and temperature. Seawing's published lantern record identifies seven modes and IPX4; it does not by itself establish lumen output, beam area, runtime, charge time, battery chemistry, service life, safety or market compliance.

Treat brightness, runtime and charging as one evidence set

A high-mode lumen figure and a longest-runtime figure may describe different operating modes. A useful buyer record puts mode, output, runtime endpoint, battery state, ambient conditions and sample identity on the same row, then keeps charging inputs and output-to-device functions separate.

The 2025 ANSI/PLATO FL 1 revision highlights standardized, transparent portable-lighting performance methods. IEC 60529 defines enclosure protection classes. These sources explain what a test scope can mean; they do not supply a result for the Seawing lantern.

What the published Seawing record establishes

- Product type: rechargeable LED camping lantern

Lighting adjustment modes: 7

Published enclosure rating: IPX4

Published use context: tent, canopy and campsite ambient lighting

Lantern specification comparison matrix

Put every value beside its mode, method and conditions so retail labels do not combine unrelated maxima.

Lantern specification comparison matrix

Field	Minimum comparison record	Condition to name	Do not infer
Light output	Measured lumens for each named mode	Method, sample state and stabilization point	Lumens from LED count or mode name
Runtime	Hours for the same named mode	Starting charge, endpoint, temperature and duty cycle	High-mode runtime from a low-mode maximum
Battery	Chemistry, rated voltage/capacity and replaceability	Cell/battery model and version	Runtime from mAh alone
Charging	Input port, voltage/current, cable and charge time	Starting state, adapter, temperature and full-charge criterion	Fast charging from connector shape
Ingress	Exact IP code and enclosure tested	IEC method/version, sample and result scope	Submersion or whole-product durability from IPX4

One claim needs three linked records

Mode

Mode

Name the exact brightness or colour mode used for every output and runtime value.

Method

Method

Name the method, endpoint, temperature, sample state and measurement conditions.

Version

Version

Tie battery, firmware/control, port, cable and enclosure to the ordered SKU revision.

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Catalogue views identify the lantern, not its measured output

These site-hosted images identify the rechargeable lantern record and visible configuration. They do not prove lumens, beam distribution, runtime, charging time, battery chemistry, charge-out capability, temperature behaviour, ingress-test scope, service life, safety, certification or compliance.



Rechargeable camping lantern catalogue view used to identify the selected SKU. These site-hosted images identify the rechargeable lantern record and visible configuration. They do not prove lumens, beam distribution, runtime, charging time, battery chemistry, charge-out capability, temperature behaviour, ingress-test scope, service life, safety, certification or compliance.



Camping lantern detail view used for version and control-layout confirmation. These site-hosted images identify the rechargeable lantern record and visible configuration. They do not prove lumens, beam distribution, runtime, charging time, battery chemistry, charge-out capability, temperature behaviour, ingress-test scope, service life, safety, certification or compliance.

Retail comparison fields to request

A buyer can use this matrix for both the supplier request and the final shelf-data approval.

Retail comparison fields to request

Buyer field	Evidence request	Shelf-data rule
SKU, revision and sample date	Current specification and change record	Do not merge different versions
Mode names and intended shelf role	Mode-by-mode output and control sequence	Keep maximum and typical-use mode separate
Required evening duration	Runtime per named mode with endpoint and conditions	Publish the matching mode and conditions
Destination charging ecosystem	Port, input, cable, adapter status and charge-time method	State included parts and input precisely
Destination and channel	Battery, transport, label, ingress and safety documents that apply	Do not transfer evidence across markets

From seven modes to a defensible shelf specification

1. **Freeze the version**

   Record SKU, sample date, battery/control revision and included cable.

2. **Define each mode**

   Name brightness, colour or signal behaviour without converting a label into output.

3. **Request paired tests**

   Ask for output and runtime for the same mode, method, sample and conditions.

4 Verify charging

Record battery, input, port, cable, adapter, start state, endpoint and temperature.

5 Approve market copy

Publish only version-linked values whose scope matches the label, listing and instructions.

From seven modes to a defensible shelf specification

Product documents for your order

ANSI/PLATO FL 1 provides portable-lighting performance methods, but a method name alone is not a product result. Ask for the report, tested sample, mode and measurement conditions.

IEC 60529 covers enclosure ingress protection. The published IPX4 field should be verified against a version-specific record before it is expanded into any water-exposure claim; it does not mean submersible.

IEC 62133-2, the UN Manual of Tests and Criteria and market battery rules address different safety, transport and information scopes. A buyer should request only the records applicable to the actual battery, product and destination rather than listing badges generically.

How this checklist improves range data

For retail comparison, use a mode-by-mode row: output, runtime, endpoint and conditions together. Keep charging input, charging time, battery record and any power-bank output in separate fields so one number cannot imply another.

For a wholesale camping lantern quotation, include the model and version, quantity and destination market. Specify the required lighting modes, runtime conditions, battery and charging accessories, and request matching product documents to compare the offer with your retail brief.

View the lantern record and request the applicable specification and test conditions

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Frequently Asked Questions

Can LED count be converted into lumen output?

No. Request a measured lumen result, named method, mode, sample and test conditions.

Can the longest runtime be used beside the highest brightness?

Only if both values come from the same named mode and documented conditions; otherwise keep them separate.

Does battery capacity prove runtime?

No. Runtime also depends on mode, control strategy, endpoint, temperature, battery state and sample.

Does a USB-shaped port prove fast charging or power-bank output?

No. Record port role, input/output values, protocol if applicable, cable, adapter and tested charge conditions.

What does the current Seawing record establish?

It identifies a rechargeable LED camping lantern with seven modes and a published IPX4 field for the selected record.

What should a retail buyer request first?

Request a revision-linked mode table, output method, runtime endpoint, battery record, charging inputs, included parts and destination-market documents.

SOURCES AND FURTHER READING

Original guidance and current industry context; none certifies a Seawing product or project.

PLATO — Revised ANSI/PLATO FL 1 2025 Standard

Standard-owner 2026 notice explaining the revised portable-lighting performance framework; it is not a lantern result.

IEC — IEC 60529 Degrees of Protection (IP Code)

Official enclosure-protection standard scope; an IP claim still needs the applicable version-specific record.

IEC — IEC 62133-2 Portable Lithium Battery Safety

Official safety-test scope for portable sealed lithium cells and batteries; applicability and product

evidence must be confirmed.

UNECE — UN Manual of Tests and Criteria, Rev. 8 and Amendment 1

Primary transport-test context including subsection 38.3 for lithium cells and batteries; not proof for an unidentified battery.

REI Co-op — How to Choose a Camp Lantern

Retail benchmark separating output, runtime, power source and mode decisions; not Seawing test evidence.
