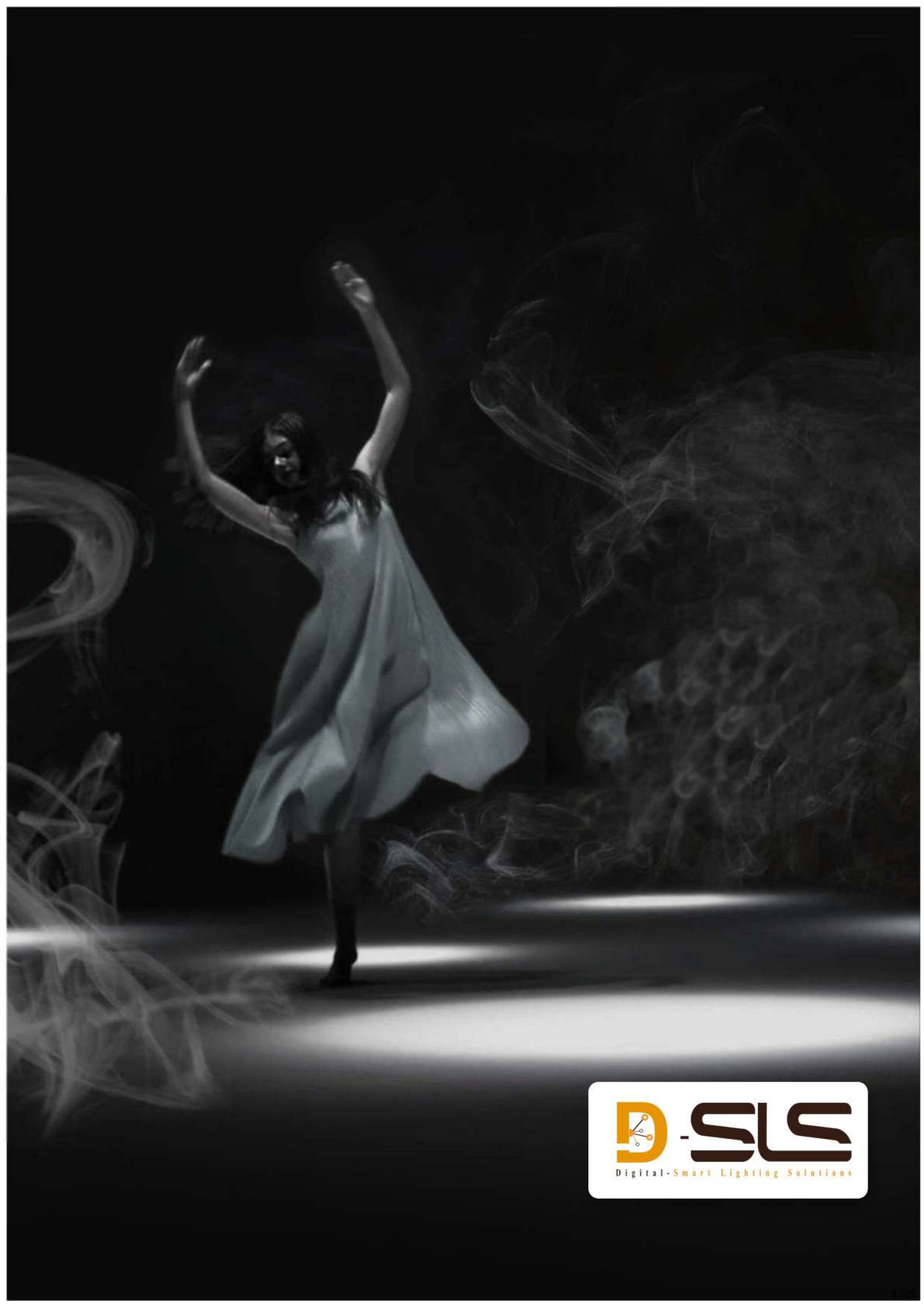




OVERVIEW · D-SLS-25M MODULAR LED FLOODLIGHT

Lighting for sports facilities, large areas and façades — a 200 to 2,000 W platform



D-SLS-25M-600-740-AS — 600 W configuration, STU-M asymmetric optic

300 000 lm

maximum luminaire output · 2,000 W

150 lm/W

luminaire efficacy · T_q 25 °C

IP67 · IK09

ingress protection · impact resistance

DALI-2 · D4i

programmable driver · NFC

100 000 h

L90B10 · IES TM-21

7 ans

warranty · 10 years optional

One platform, every wattage

The **D-SLS-25M** is a high-power modular LED floodlight designed for sports facilities, large open areas and façades. Its **STU-M** asymmetric optic with indirect aluminium reflector (reflectance $\geq 98\%$) delivers up to **300,000 lm** at a luminaire efficacy of **150 lm/W**, in an aluminium housing with **100 % passive** cooling — no fans. Replaceable **Zhaga Book 18** LED module, programmable **DALI-2 / D4i** driver with NFC, **10 kV / 10 kA SPD** protection and optional **LidarMesh CMS** remote management: a scalable, **ENEC**-certified platform.



Stadiums & sports pitches

Football, rugby, athletics, multi-sport — NM EN 12193 classes I · II · III, glare-controlled asymmetric optic.



Large parks & public spaces

Esplanades, car parks, logistics and port areas — 12 to 25 m poles, LidarMesh night-time dimming.



Façades & landmarks

Architectural highlighting — intensive optic, Tunable White, DMX / Art-Net control, CRI 90.

D-SLS-25M · NEW ON-BOARD TECHNOLOGIES

Reflector optics, LiDAR node, D4i · DALI-2 · Thread — the range's connected platform

Reflector optical unit — aluminium reflectance $\geq 98\%$



Sealed optical chamber with aluminium reflector, the LED is never seen directly: reflected light, anti-glare, no exposed PMMA lens. Reflectance $\geq 98\%$, ULOR 0 %, distribution according to the chosen optics. LED module replaceable without tools.



New technologies used



LiDAR node
presence detection, counting, Zhaga D4i socket



Static detection
heart-rate sensor — presence without movement



Thread mesh network
IPv6, self-healing, TALQ 2.7.1



Tunable white
1800 → 6500 K controlled via D4i + DT8

Certified interfaces


THREAD
TALQ 2.7.1
ZHAGA BOOK 18
NFC

D-SLS-25M — the six connected functions


TUNABLE WHITE

LIDAR AI

MESH NETWORK

SECURE VPN

SELF-HEALING OTA

AI ANTI-THEFT

PRODUCT ARCHITECTURE · SIX KEY POINTS

Une plateforme pensée pour la maintenance : tout se remplace sur site, sans outil spécial



D-SLS-25M — module optique, driver débrochable et embase Zhaga Book 18 accessibles par le capot

1

Optique STU-M

Réflecteur indirect aluminium $\rho \geq 98\%$ · verre AR tv $> 97\%$ · éblouissement maîtrisé

2

Embase Zhaga Book 18

LiDAR node clip-on at any time, without opening the luminaire

3

Plug-in driver

Tool-free replacement · built-in 10 kV / 10 kA SPD · NFC programmable

4

Étrier orientable 0 – 180°

Sol, façade ou mât Ø60 mm · adaptateurs Ø33 – 76 mm · graduation

5

Tool-free opening

Crochets aluminium moulé par injection · ressorts inox · maintenance rapide

6

Modules LED remplaçables

Zhaga Book 18 · 700 mA · L90B10 $\geq 100\,000$ h (TM-21)

25M · S

200 – 600 W

25M · M

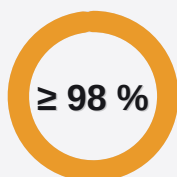
650 – 1 200 W

25M · L

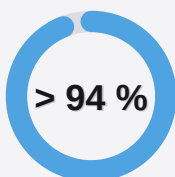
1 300 – 2 000 W

Même optique, même électronique et même télégestion sur toute la plage de puissance.

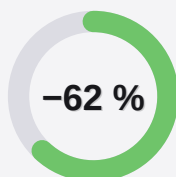
PERFORMANCE & SAVINGS · DASHBOARD



réflectance optique

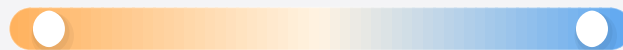


driver efficiency



energy (LiDAR)

TUNABLE WHITE — CCT RANGE



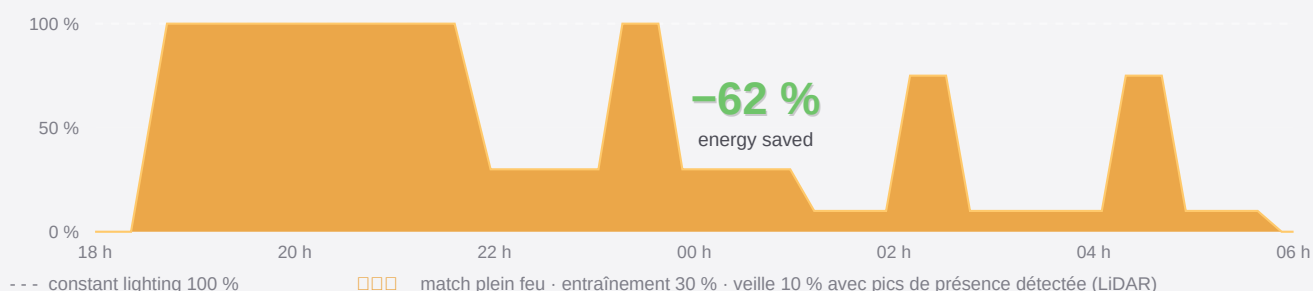
2200 K WARM

COOL 6500 K

Pilotage D4i + DT8 — IRC 70 · 80 · 90, MacAdam 3 SDCM (option S3) · option TW

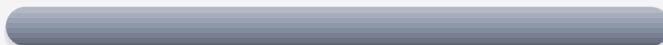
CCT fixes de série : 5000 · 4000 · 3000 · 2700 · 1800 K

GRADATION ADAPTATIVE LiDAR — SOIRÉE TYPE SUR UN COMPLEXE SPORTIF



CONSOMMATION ANNUELLE — TERRAIN 105 × 68 m · 1 000 h/an · 0,25 €/kWh

Iodures métalliques (existant)


35 200 kWh/an · 8 800 €

D-SLS-25M


9 600 kWh/an · 2 400 €
-73 %

D-SLS-25M + LidarMesh


3 650 kWh/an · 910 €
-90 %

Hypothèses : 16 projecteurs 2 000 W à ballasts (35,2 kW) remplacés par 8 × D-SLS-25M-1200 (9,6 kW) — scénarios LidarMesh entraînement / match / veille.

< 2,5 ans

payback*

-7,9 t

CO2 évitées par an

zéro

relamping — L90B10 ≥ 100,000 h

100 %

remotely controllable (TALQ 2.7.1)

* Hors pose, sur la base du prix de l'énergie ci-dessus et de la maintenance évitée — chiffrage précis sur étude.

KEY STRENGTHS · 8 REASONS TO CHOOSE THE D-SLS-25M

Modular 200 → 2,000 W



A single platform, **27 wattages**: 50 W steps up to 1,000 W, then 100 W up to 2,000 W. Same housing, same optic, same remote management — from training pitch to stadium.

100 % passive cooling



Die-cast finned aluminium housing, natural convection: **no fans**, no moving parts, no thermal maintenance. Operating Tq -40 °C / +50 °C.

STU-M asymmetric optic



Indirect high-reflectance aluminium reflector ($\geq 98\%$) and extra-clear anti-reflective tempered glass ($\tau > 97\%$): light kept on the field of play, with reduced glare and light pollution.

Zhaga Book 18 LED module



Field-removable and replaceable LED module, high-power LEDs under-driven at 700 mA: 190 lm/W source, $\geq 100,000$ h L90B10 (TM-21).

NFC-programmable driver



DALI-2 and Zhaga-certified **D4i**, wirelessly adjustable output current (AOC), dim-to-off < 0.5 W, 3 timer modes, OLC lumen compensation, 24 V DC auxiliary.

Full protection



Type II **10 kV / 10 kA** SPD with end-of-life signalling (10 kV common mode / 6 kV differential mode), **IP67**, **IK09**, class I (class II on request).

LidarMesh CMS (option LD)



LiDAR presence-detection node, GPS, astronomical clock, **TALQ 2.7.1** gateway: training / match / stand-by scenarios driven from the D-SLS cloud platform.

7-year warranty · ENEC certified



Extendable to **10 years** (option W10). ENEC certificate **HN 69290740** (TÜV Rheinland), CE marking, RoHS — product references aligned with the certified types.

COMPONENTS · COMMON TECHNICAL PLATFORM

Parts common to the whole D-SLS range — replaceable without tools

Sealing & remote management



Stainless-steel pressure-equalising valve — hydrophobic membrane, IP66 / IP67 preserved over the whole service life



Zhaga Book 18 · D4i socket — LiDAR node or sensor, clip-on at any time without opening the luminaire



Driver

ENEC-certified DALI-2 / D4i programmable electronics — LED current adjustable by NFC without power, plug-in tool-free

Protection

Built-in 10 kV / 10 kA type II SPD with end-of-life indicator · automatic disconnection on opening

LED module

Removable and site-replaceable — Zhaga Book 18 standard, programmable NTC-ETM OTP

Connection

Removable wiring plate, screw terminal block — stainless-steel IP68 cable gland

TECHNICAL SPECIFICATIONS · MECHANICAL & OPTICAL

Applications	Sports stadiums · Large parks · Façades — sports facility lighting to NM EN 12193
Optic	STU-M asymmetric (extensive EX and intensive IN on request) — indirect treated aluminium reflector, reflectance $\geq 98\%$
Front glass	5 mm flat tempered extra-clear glass, anti-reflective treatment — transmittance $> 97\%$
Photobiological safety	EN 62471 — risk group 0 (RG0)
Insulation class	EU: class I (class II on request — option CL2) US: class 1
Ingress protection	IP67 (IEC 60529 — temporary immersion 30 min / 1 m) · full IK09 (IEC 62262)
Pressure equalisation	Stainless steel pressure equalisation valve with hydrophobic membrane — lets air and water vapour through, never liquid water or dust: no internal condensation, no thermal pumping · ingress protection fully preserved
Tilt	Post top: 0°, +5°, +10°, +15°, +20° · Side entry: 0°, -5°, -10°, -15°, -20° · Adjustable bracket 0 – 180° with scale
Mounting	Adjustable bracket (ground, façade, pole) · side entry or post top Ø60 mm · Ø33 – Ø60 mm (option M33) and Ø60 – Ø76 mm (option M76) adaptors
Wind-exposed area	Side: 0.05 m ² · Front: 0.18 m ² · SCx: 0.04 m ² (600 W configuration)
Weight	15 kg (600 W) — other configurations depending on the number of modules
Dimensions	Depending on configuration — dimensioned drawing supplied on request
Wiring	Removable wiring plate · M20 × 1.5 stainless steel IP68 cable gland
Temperatures	Operation: -40 °C / +50 °C · Storage: -40 °C / +80 °C
Colour temperatures	5000 K · 4000 K · 3000 K · 2700 K · 1800 K · Tunable White 2200 – 6500 K (option TW)
IRC	70 (standard) · 80 · 90
MacAdam ellipse	5 SDCM (standard) · 3 SDCM (option S3)
LED	High-power LEDs (Nichia · Seoul Semiconductor) — 190 lm/W source at T _j = 85 °C, 4000 K / CRI 70

CE

ENEC

RoHS

IP67

IK09

Class I

DALI-2

Zhaga Book 18



Sports lighting tender compliance — 600 W configuration

Floodlight compliant with sports lighting tender requirements: 600 W $\pm 5\%$, output $\geq 84,000$ lm at 4000 K, ≥ 140 lm/W, CRI ≥ 70 , IP67 / IK09, SPD 6 kV differential / 10 kV common mode, replaceable LED module, programmable DALI-2 / D4i driver with NFC, 0 – 180° adjustable bracket, extra-clear tempered glass, passively cooled aluminium body, $\geq 100,000$ h L90B10, warranty ≥ 7 years.

CERTIFICATIONS & STANDARDS



ENEC certificate no. HN 69290740

Certification body	TÜV Rheinland InterCert Kft. (MEEI, Budapest)
Standards	EN IEC 60598-1:2021 + EN 60598-2-3
Certificate holder	D-SLS SRL — Via Bocchetto 6, 20123 Milan (MI), Italy
Types covered	Familles D-SLS-a-b-cd — série 25 (projecteurs), toutes puissances de 200 à 2 000 W
Certified parameters	AC 220 – 240 V · class II · ta 50 °C · IP66 (certificate in force)

A copy of the certificate and the test report accompany every quotation.



Additional testing

- **IP67** — IEC 60529 (dust · immersion 30 min / 1 m)
- **IK09** — IEC 62262 (impact resistance, 10 J)
- **EN 62471** — photobiological safety RG0
- **EN 61000-4-5** — surge immunity 10 kV / 6 kV
- **CEM** — EN 55015 · EN 61547 · EN 61000-3-2 / -3-3
- **LM-80 / TM-21** — lifetime ≥ 100,000 h L90B10

Standards framework

Luminaire safety

EN IEC 60598-1 · EN 60598-2-3 · EN 60598-2-5

Photobiology

EN 62471

Electromagnetic compatibility

EN 55015 · EN 61547 · EN 61000-3-2 · EN 61000-3-3 · EN 61000-4-5

Protection

EN 60529 (IP) · EN 62262 (IK)

Application

EN 13201 (road lighting) · UNI 11248 (classes M, C, P) · CIE 150 (obtrusive light)

Control & interoperability

IEC 62386 (DALI-2 · D4i) · Zhaga Book 18 · TALQ 2.7.1

Lifetime

IES LM-80 · IES TM-21 · IES LM-79 · UNI EN 13032-1

European directives

2014/35/EU (low voltage) · 2014/30/EU (EMC) · 2011/65/EU (RoHS)

CE

ENEC

RoHS

IP67

IK09

Class I

DALI-2

Zhaga Book 18



Compliance documentation

The parameters above are those recorded in the ENEC certificate in force; the product characteristics on the preceding pages correspond to the current commercial definition of the luminaire. Published product references correspond to the types listed in the ENEC certificate. CE marking under directives 2014/35/EU, 2014/30/EU and 2011/65/EU; EU declaration of conformity, ENEC certificate, IP / IK reports and photometric files are attached to every tender file.


www.d-sls.it

[WhatsApp direct](#)

sa@d-sls.com

Certificates, test reports and photometric files on request.

MATERIALS & CONSTRUCTION

LED module	Removable / replaceable — Zhaga Book 18 standard
Housing / cover	Die-cast aluminium (UNI EN 1706) with passive cooling fins — epoxy-polyester paint
Closing latches	Die-cast aluminium, stainless steel spring
Optical block	Indirect treated aluminium reflector — reflectance $\geq 98\%$
Front glass	5 mm flat extra-clear tempered glass, anti-reflective — transmittance $> 97\%$
Ingress protection	EPDM gasket (luminaire) · silicone reserved for external cable connectors · M20 $\times$ 1.5 stainless steel IP68 gland
Bracket	Adjustable 0 – 180° with scale — ground, façade or pole mounting
Finish	Colour to choice (RAL range) — optional C5 marine anti-corrosion treatment (MAR)
Driver	Programmable DALI-2 / D4i electronics — Inventronics platform



Natural convection cooling

The die-cast aluminium housing acts as a finned heatsink sized to dissipate the thermal load of every module without fans. LED junction temperature stays under control up to $T_j = +50\text{ }^{\circ}\text{C}$, safeguarding lifetime and output.

Components



LED



Driver



Interface

World-class light sources and electronics, integrated and qualified by D-SLS. LED LM-80 files available on request.

TYPE TESTS & ROBUSTNESS

TYPE TESTS

Temperature rise	ta 50 °C — EN 60598-1 cl. 12: driver tc and LED module tp, values corrected to the reference ambient.
Ingress protection	IP 67 — IEC 60529 (dust · temporary immersion 30 min / 1 m).
Mechanical impact	Full IK 09 — IEC 62262 (10 joules), on the assembled luminaire.
Vibrations	IEC 60068-2-6 — montage sur mât, console et étrier au sol.
Surges	10 kV / 10 kA — EN 61000-4-5; replaceable type II SPD with end-of-life indicator — optional external 20 kV SPD.
Photometry	EN 13032 / LM-79 — LDT and IES files per reference and per CCT; LM-79 reports with the series optic: in progress.
Long-term output	LM-80 + TM-21 — L90B10 ≥ 100 000 h.
Corrosion	ISO 9227 salt spray — 500 h on coating and fasteners.

ROBUST PRODUCT — CONSTRUCTION CHOICES

Body / cover	Die-cast aluminium EN AC-47100 to UNI EN 1706 — EN 10204 type 3.1 material certificate.
Coating	Exterior-grade polyester powder coating: thickness ≥ 70 µm (ISO 2360), class 0 adhesion (ISO 2409), 500 h salt spray (ISO 9227), UV resistance.
Reflector	High-reflectance aluminium ρ ≥ 98 % (ISO 7668 / DIN 5036-3), anti-iridescence structured surface, sealed optical chamber.
Front glass	5 mm flat extra-clear tempered glass: EN 12150-1, EN 14179 heat-soak test, double-sided anti-reflective treatment (EN 410).
Closure	Die-cast aluminium latches + stainless steel springs — A2 stainless fasteners, tool-free opening.
Wiring	Removable wiring plate, plug-in connectors — driver and SPD replacement without tools.
Pressure equalisation valve	Stainless steel valve with hydrophobic membrane — equalises internal pressure through every day / night cycle without affecting sealing; replaceable without opening the luminaire.

Repairability

The luminaire is designed to be **repairable on site**: LED module, driver and SPD are replaced individually, without removing the luminaire or using special tools. This architecture meets the circular-economy requirements of European ecodesign and extends the useful life of the installation well beyond the warranty.

ta 50 °C

certified ambient temperature

10 J

IK09 on assembled luminaire

500 h

ISO 9227 salt spray

10 kV / 10 kA

surge immunity

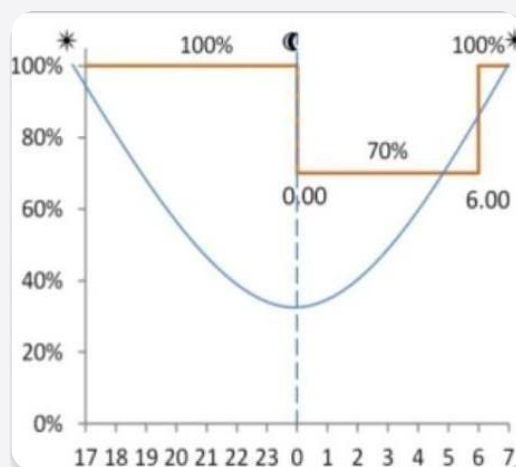
ELECTRICAL SPECIFICATIONS · PROGRAMMABLE DRIVER

Supply voltage	90 – 305 V AC · 50 / 60 Hz (± 10 % tolerance — other voltages and tolerances on request)
LED current	350 – 1,000 mA — wirelessly adjustable via NFC (AOC: programmable output current)
Power factor	> 0.95 (full load – PLM) > 0.98 (full load – F, DA, DAC)
Efficiency	> 94 %
Interfaces	DALI-2 · Zhaga-certified D4i · NFC · PWM · 0 – 10 V
Auxiliary supply	24 V DC / 125 mA / 3 W always on (12 V DC with option A12) · integrated 16 V DC bus (DALI-2)
Surge protection	Integrated type II 10 kV / 10 kA SPD — 10 kV common mode / 6 kV differential mode — LED indicator and thermal fuse: load disconnection at end of life · external 20 kV SPD (option SP20)
Lifetime	$\geq 100\,000$ h L90B10 · $\geq 100\,000$ h L90 (IES TM-21)
Warranty	7 years (10 years with option W10)

Built-in smart functions

- **Dim-to-off** — smart board stand-by < 0.5 W
- **3 timer modes** (Timer setup) — scheduled consumption reduction
- **OLC** Output Lumen Compensation — constant output over lifetime
- **OTP** — NTC in driver and LED array, programmable thresholds
- Thermal sensing and LED module protection
- End-of-life indicator · output light compensation
- **F** (fixed) · **DA** (stand-alone dimming) · **DAC** (stand-alone + control) modes
- Astronomical clock and calendar profiles (option LD)

DA profile — stand-alone dimming



Example of an NFC-programmed profile: 100 % at dusk, reduced to 70 % from midnight to 6 a.m., back to 100 % before dawn — no control wiring, matched to the actual power curve (blue).

REMOTE MANAGEMENT · LidarMesh CMS & D-SLS LiDAR NODE (OPTION LD)

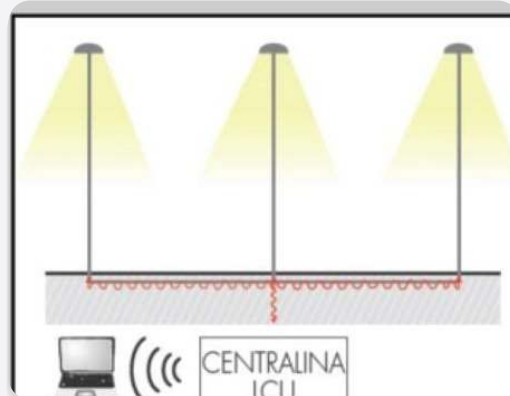
D-SLS smart node — Zhaga Book 18 / D4i

- **LiDAR presence detection** — pedestrians, cyclists, vehicles: on-demand switching and dimming
- **GPS positioning** · astronomical clock · calendar
- **D4i interface**: the node powers, meters and controls the driver (energy, diagnostics)
- **Thread** mesh network (IPv6) · **TALQ 2.7.1** gateway · LoRaWAN 3 – 15 km · HD-PLC 0 – 10 km
- **Peripherals**: surveillance camera, audio / video, environmental sensors, Internet access
- **Dynamic DMX / Art-Net** lighting for façades and ceremonies

Protocols:

D4i **DALI-2** **TALQ 2.7.1** **Thread** **LoRaWAN**
HD-PLC **PWM** **0 – 10 V** **DMX** **Art-Net**

HD-PLC architecture — power line carrier



Communication over the existing power cable to the LCU controller — no additional network to deploy on the poles.



LidarMesh CMS — D-SLS remote management platform (D-SLS Cloud Infrastructure)

- GIS mapping of light points and cabinets
- Alarms and diagnostics: driver, SPD, temperature, voltage
- Predictive maintenance and work order management
- Dimming scenarios by zone, calendar and detection
- D4i energy metering, reports and export
- Open TALQ 2.7.1 API — interoperable with third-party CMS

Role-based secure access, European hosting on the D-SLS Cloud Infrastructure — control from smartphone, tablet or supervision desk.



Street scenario — four levels, zero intervention

100 %
Evening

from sunset to 11 p.m. — full level to EN 13201

50 %
Quiet night

calendar-scheduled reduction

20 %
Stand-by

empty road — instant ramp-up on LiDAR detection

0 %
Dawn

astronomical switch-off, driver < 0.5 W

Implementation

The LiDAR node fits onto the luminaire's Zhaga Book 18 socket — in the factory or as a retrofit on an existing installation, without opening the luminaire. The D4i driver powers it and reports energy consumption, operating hours and diagnostics. Every luminaire becomes an individually metered and controlled point of the LidarMesh CMS platform.

NETWORK, UPDATES & SUPERVISION · OPTION LD

Functions of the LidarMesh CMS platform and the D-SLS LiDAR node — optional, not included in the standard supply.

MESH NETWORK & CONNECTIVITY

Architecture	Every luminaire is an identical TALQ 2.7.1 gateway — exposed TALQ API, DALI D4i functions, IPv6 addressing.
Mesh network	Self-organising, self-healing mesh — sized for more than 10,000 nodes: if a node fails, traffic routes around it automatically.
Internet access	At the client's choice: WiFi, 4G/LTE, Ethernet or fibre — a single link serves a whole segment, with immediate failover.
Network frugality	A single download per segment: updates propagate node to node across the mesh.
Stand-alone mode	Full offline operation: lighting, DALI dimming, LiDAR detection, astronomical calendar (RTC + GPS) and local log — synchronisation resumes when the network returns.
Network security	End-to-end encrypted link (WireGuard, ChaCha20-Poly1305) to the platform.

REMOTE UPDATES (OTA) — SELF-HEALING

Principle	Firmware update of the whole fleet remotely, with no site visit — A/B dual partition: a healthy version always remains available.
Probation	Each new version must prove correct operation (network, DALI, supervision) within 10 minutes — otherwise it rolls back automatically to the previous version.
Rollback guards	Hardware watchdog, reboot loop, loss of network or routing, silent DALI, memory anomaly — each guard triggers the rollback.
Canary deployment	In controlled waves 1 % → 10 % → 50 % → 100 % of the fleet — automatic stop and operator alert on any rollback.
OTA security	Images signed and verified by a hardware secure element before flashing — secure boot, encrypted memory, SHA-256 integrity check, anti-rollback.

SUPERVISION & AI COPILOT

Dashboard	GPS map of every luminaire · status, consumption, alarms and history in real time · one-click DALI configuration.
AI copilot	Plain-language incident diagnosis, deployment recommendations and automatic campaign report.
Predictive maintenance	Alert before LED module / driver / SPD failure — optional sensors: light level, temperature, air quality, noise.
Energy budget	Ceiling set by the operator and never exceeded: self-regulation if spending drifts, per-luminaire tracking, savings and CO2 report.

D-SLS-25M — the six connected functions



LidarMesh CMS · D-SLS PROPRIETARY REMOTE MANAGEMENT PLATFORM

D-SLS proprietary cloud platform — no dependency on any third-party supplier.

Every luminaire is a TALQ 2.7.1 gateway. The fleet is managed from a browser with no software to install: multi-user access with differentiated permissions, open API, cloud or on-premise deployment on request.

INTELLIGENT MESH NETWORK

Technology	Self-organising, self-healing mesh — more than 10,000 nodes per network
Protocols	IPv6 SLAAC · Thread · TALQ 2.7.1 · DALI-2 D4i + DT8
Security	End-to-end encrypted tunnel · secure boot · signed firmware
Connectivity	WiFi · 4G/LTE · Ethernet · fibre — one link per segment

ENERGY BUDGET & SOLAR

Energy budget	Ceiling in euros or kWh set by the operator — never exceeded: real-time self-regulation, luminaire by luminaire
Solar integration	Monitoring of photovoltaic production, storage and grid injection — adaptive control based on weather and reserve
Savings report	Dashboard of kWh saved / CO2 avoided / euros billed — automatic monthly report
Dynamic tariffs	Lighting programme adapted to the grid tariff (off-peak / peak hours)

TALQ 2.7.1 INTEROPERABILITY

TALQ standard	TALQ 2.7.1 API exposed on every node — compatible with any TALQ-certified third-party CMS
DALI D4i functions	The 8 mandatory D4i functions (Part 102/103/251/252/253/304/306/351) + diagnostics
Calendars	Real astronomical calendars (GPS sunrise / sunset + RTC) · scenarios · manual override
Independence	The operator remains the owner of its data · CSV / JSON export · portability to any other TALQ CMS

ACCESS & SERVICE

Client access	Multi-browser web interface · iOS and Android mobile app
Multi-site	Multi-municipality and multi-district management · rights delegation · full traceability of operations
Hosting	D-SLS Cloud Infrastructure (European Union) · 99.9 % availability · 24/7 technical support

Stand-alone mode — no Internet

The fleet stays controllable without a connection: lighting, DALI dimming, LiDAR detection, astronomical calendar and local log all work offline. Synchronisation with the platform resumes automatically when the network returns — no permanent connection is required for day-to-day operation.

10 000+

nodes per mesh network

99,9 %

platform availability

24/7

technical support

0

software to install

OPTIONS · COMBINABLE ORDER CODES

LD LidarMesh remote management



D4i LiDAR node (Zhaga Book 18): presence detection, GPS, astronomical clock, TALQ 2.7.1 gateway, access to the LidarMesh CMS platform.

SP20 external 20 kV SPD



External 20 kV surge arrester in addition to the built-in 10 kV / 10 kA SPD — exposed sites, isolated poles, overhead networks.

W10 10-year warranty



Extends the standard warranty from 7 to 10 years, subject to project registration and compliant operating conditions.

MAR C5 marine anti-corrosion



Reinforced surface treatment for marine or industrial atmospheres (ISO 12944 C5), stainless steel fasteners.

A12 12 V DC auxiliary



12 V DC auxiliary output replacing the standard 24 V DC — powering sensors and third-party nodes.

M33 Ø33 – Ø60 adaptor



Mounting adaptor for Ø33 to Ø60 mm brackets and pole tops.

M76 Ø60 – Ø76 adaptor



Mounting adaptor for Ø60 to Ø76 mm brackets and pole tops.

TW Tunable white



Dynamic white 2200 – 6500 K controlled via D4i + DT8 — ambiances, ceremonies, façades.

S3 3 SDCM



Tighter colour binning: 3-step MacAdam ellipse instead of 5 — perfect consistency between floodlights.

CL2 Class II



Double insulation without earth conductor for installations that require it (on request).

Ordering

All options are combinable and appear at the end of the reference, in the order of the coding table — e.g. **D-SLS-25M-1200-740-AS-LD-SP20-W10**. Mechanical options (M33, M76) are supplied fitted; option LD is installed and configured in the factory; the external SP20 SPD comes with its pole mounting bracket.

MODULAR RANGE & MOUNTING

27 wattages — 200 to 2 000 W

réf. 600 W



50 W steps from 200 to 1,000 W · 100 W steps from 1,100 to 2,000 W · same housing, same optic, same programmable driver
Order reference: D-SLS-25M-{wattage}-{CCT/CRI}-{optic}-{options} — see Order coding page

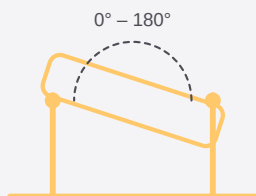
Reference configuration — 600 W

Reference	D-SLS-25M-600-740-AS
Output (4000 K, CRI 70)	≥ 84 000 lm à Tq 85 °C · 90 000 lm à Tq 25 °C
Weight	15 kg
Areas	side 0.05 m ² · front 0.18 m ² · SCx 0.04 m ²
Power	600 W ±5 % · 700 mA LED current



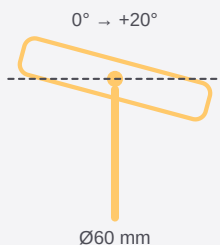
Adjustable bracket with 0 – 180° scale

Adjustable bracket



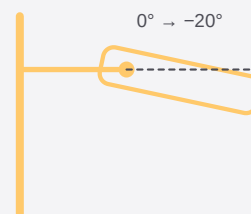
Ground, façade or pole mounting — 0 – 180° adjustment with scale, locked by stainless steel screws.

Post top Ø60 mm



Tilts 0°, +5°, +10°, +15°, +20° — M33 (Ø33 – 60) and M76 (Ø60 – 76) adaptors.

Side-entry bracket



Tilts 0°, -5°, -10°, -15°, -20° — removable wiring plate, M20 IP68 cable gland.

APPLICATIONS & CASE STUDY



Stadiums & pitches

NM EN 12193 — football: class I 500 lx ($U_0 \geq 0.7$), class II 200 lx ($U_0 \geq 0.6$), class III 75 lx ($U_0 \geq 0.5$). STU-M asymmetric optic, 12 – 30 m poles, CRI ≥ 70 (CRI 80 for TV broadcast).



Large parks & esplanades

Car parks, logistics and port areas, industrial yards: extensive EX optic, night-time dimming and LiDAR detection to cut consumption off-peak.



Façades & landmarks

Architectural highlighting: intensive IN optic, Tunable White, CRI 90, DMX / Art-Net control for shows and ceremonies.

CASE STUDY — 105 × 68 m FOOTBALL TRAINING PITCH (indicative example)

–73 %

energy saved versus the existing installation

9,6 kW

installed — 8 × D-SLS-25M-1200 on four 18 m poles

≈ 25 600 kWh

saved per year over 1,000 operating hours

● Existing installation

- 16 × 2,000 W metal halide floodlights
- 35.2 kW including ballasts ($\approx 10\%$ losses)
- 10 to 15 min restrike after a power cut
- Rapid lumen depreciation, annual relamping
- No dimming: 100 % at every switch-on

● D-SLS-25M solution

- 8 × D-SLS-25M-1200-740-AS — 4000 K, asymmetric optic
- 9.6 kW — EN 12193 class III: $E_m \geq 75$ lx, $U_0 \geq 0.5$
- Instant start, full output when hot
- $\geq 100,000$ h L90B10 — constant output (OLC)
- LidarMesh scenario: 30 % training / 100 % match / stand-by

ÉCONOMIES CUMULÉES — D-SLS-25M + LidarMesh vs iodures métalliques (en €)

Année 1 **7 890 €**

Année 5 **39 450 €**

Année 10 **78 900 €**
Énergie seule — hors relamping évité (16 lampes par an) et hors coûts d'intervention sur mât.
Indicative results, depending on pole geometry, maintenance factor and project requirements — detailed DIALux / Relux photometric study provided on request.

LE D-SLS-25M & L'ENVIRONNEMENT

Un éclairage sportif responsable — respectueux de la biodiversité, du ciel nocturne et du voisinage

Éclairer l'aire de jeu — et rien d'autre.

Every technical choice — optics, spectrum, control — aims to reduce intrusive light and the impact on wildlife: CE marking, (EU) 2019/2020 ecodesign, photobiological group RG0, zero UVA radiation.

INTRUSIVE LIGHT & NEIGHBOURS

Asymmetric optics	Faisceau strictement dirigé vers l'aire de jeu — la coupure arrière nette limite la lumière débordante vers les habitations et les voies.
Flux to the sky	Inclinaison maîtrisée et graduation de l'étrier : le projecteur est calé au plus près de l'horizontale utile — ULOR minimal à l'installation.
Environmental zones	Dimensionnement selon CIE 150 et EN 12193 (zones E1 à E4) : luminance des façades, éblouissement et flux vers le ciel vérifiés en étude DIALux.
Scheduled switch-off	Coupe astronomique et scénarios calendaires : aucune installation ne reste allumée après la dernière séance.

NOCTURNAL WILDLIFE

Adapted spectrum	1800 K and 2700 K versions: warm wavelengths attract far fewer insects than cool white sources or discharge lamps.
Zéro UV	LEDs emit no UVA / UVB radiation — insects are not attracted to the source, even at close range.
LiDAR dimming	Lighting on demand: with no presence, intensity drops to 10 – 30 %, limiting the attraction effect and preserving night-flight cycles.
Migratory birds	Ground-directed beam and warm CCTs: remote scheduled reduction during peak migration nights (March – May, Sept. – Nov.).
Logarithmic dimming	Smooth 0.1 – 100 % transitions compliant with EN 62386 — no flash or abrupt gradient disturbing the navigation of insects and bats.

ECODESIGN & LIFE CYCLE

EU ecodesign	Compliant with regulation (EU) 2019/2020: $P_{stLM} \leq 1$ · $SVM \leq 0.4$ · sources and drivers replaceable without tools.
Longévité	$L_{90B10} \geq 100\,000$ h : aucun remplacement de source sur la durée de vie d'une installation sportive — zéro déchet de lampe, zéro mercure.
CO2 évité	Remplacement de 16 projecteurs à décharge 2 000 W par 8 × D-SLS-25M-1200 avec LidarMesh : environ 7,9 t de CO2 évitées par an.

RG0

photobiological group — EN 62471

0 UVA

no ultraviolet radiation

1800 K

warm "wildlife" spectrum option

References & project study

Références : CIE 150 (limitation des nuisances lumineuses) · EN 12193 annexe éclairage des installations sportives · règlement (UE) 2019/2020 d'écoconception · International Dark-Sky Association · BirdLife International et LPO pour les couloirs de migration. Étude de lumière intrusive fournie avec chaque projet.

PHOTOMETRY · OPTICS & DISTRIBUTIONS

Three distributions, one STU-M indirect-reflector optic


EX
Extensive

large areas, car parks, esplanades

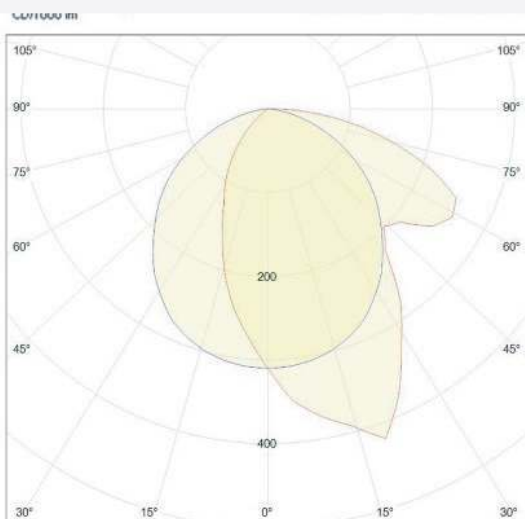
IN
Intensive

long throw, façades, high poles

AS
STU-M asymmetric

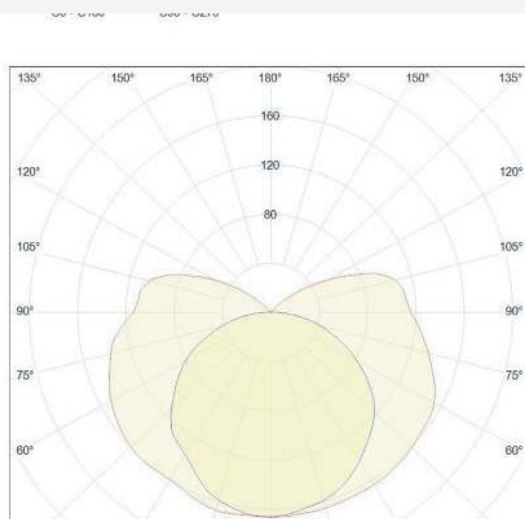
fields of play, controlled glare (standard)

STU-M asymmetric optic — $\eta = 78 \%$



C0 – C180 / C90 – C270 curves (cd/klm): beam projected forward with a sharp rear cut-off — ideal on post top or a tilted bracket.

Extensive symmetric optic — $\eta = 94 \%$



Wide symmetric distribution (cd/klm) for large areas with central poles, car parks and logistics zones.

Measurement conditions

Toutes les données photométriques publiées sont relevées conformément aux normes **UNI EN 13032-1** et **IES LM-79-08**. Les tables des pages suivantes indiquent, pour chaque puissance, le flux et l'efficacité de l'appareil à **Tq = 25 °C** (laboratoire) et à **Tq = 85 °C** (température de service de référence). Tolérances : flux $\pm 7 \%$, puissance $\pm 5 \%$, à Vin = 230 V AC. Chaîne de calcul : source 190 lm/W à Tj 85 °C $\times$ rendement optique $\geq 78 \%$ (STU-M asymétrique) $\times$ driver $\geq 94 \%$ $\approx$ 140 lm/W appareil à Tq 85 °C ; 150 lm/W à Tq 25 °C. Fichiers **LDT / IES** par référence et par CCT ; rapports LM-79 avec optique de série en cours ; études DIALux / Relux sur demande.

PHOTOMETRIC TABLE · 5000 K · CRI 70

REFERENCE	POWER* W · Tq 25 °C	EFFICACY lm/W · Tq 25 °C	OUTPUT* lm · Tq 25 °C	POWER* W · Tq 85 °C	EFFICACY lm/W · Tq 85 °C	OUTPUT* lm · Tq 85 °C
5000 K · CRI 70 · Vin 230 V AC · F / DA / DAC modes · Rev. 08/2026			Tq 25 °C: laboratory Tq 85 °C: température de service			
D-SLS-25M-200	200	150	30 000	200	140	28 000
D-SLS-25M-250	250	150	37 500	250	140	35 000
D-SLS-25M-300	300	150	45 000	300	140	42 000
D-SLS-25M-350	350	150	52 500	350	140	49 000
D-SLS-25M-400	400	150	60 000	400	140	56 000
D-SLS-25M-450	450	150	67 500	450	140	63 000
D-SLS-25M-500	500	150	75 000	500	140	70 000
D-SLS-25M-550	550	150	82 500	550	140	77 000
D-SLS-25M-600	600	150	90 000	600	140	84 000
D-SLS-25M-650	650	150	97 500	650	140	91 000
D-SLS-25M-700	700	150	105 000	700	140	98 000
D-SLS-25M-750	750	150	112 500	750	140	105 000
D-SLS-25M-800	800	150	120 000	800	140	112 000
D-SLS-25M-850	850	150	127 500	850	140	119 000
D-SLS-25M-900	900	150	135 000	900	140	126 000
D-SLS-25M-950	950	150	142 500	950	140	133 000
D-SLS-25M-1000	1000	150	150 000	1000	140	140 000
D-SLS-25M-1100	1100	150	165 000	1100	140	154 000
D-SLS-25M-1200	1200	150	180 000	1200	140	168 000
D-SLS-25M-1300	1300	150	195 000	1300	140	182 000
D-SLS-25M-1400	1400	150	210 000	1400	140	196 000
D-SLS-25M-1500	1500	150	225 000	1500	140	210 000
D-SLS-25M-1600	1600	150	240 000	1600	140	224 000
D-SLS-25M-1700	1700	150	255 000	1700	140	238 000
D-SLS-25M-1800	1800	150	270 000	1800	140	252 000
D-SLS-25M-1900	1900	150	285 000	1900	140	266 000
D-SLS-25M-2000	2000	150	300 000	2000	140	280 000

* Luminaire power and output measured at Vin = 230 V AC, F / DA / DAC modes, CRI 70. Order CCT/CRI code: **750**. Efficacy of 150 lm/W at Tq 25 °C and 140 lm/W at ta 50 °C. The highlighted row is the 80 W reference configuration. Other CRI values (80, 90, 99) and Tunable White: output on request.

PHOTOMETRIC TABLE · 4000 K · CRI 70

REFERENCE	POWER* W · Tq 25 °C	EFFICACY lm/W · Tq 25 °C	OUTPUT* lm · Tq 25 °C	POWER* W · Tq 85 °C	EFFICACY lm/W · Tq 85 °C	OUTPUT* lm · Tq 85 °C
4000 K · CRI 70 · Vin 230 V AC · F / DA / DAC modes · Rev. 08/2026			Tq 25 °C: laboratory Tq 85 °C: température de service			
D-SLS-25M-200	200	150	30 000	200	140	28 000
D-SLS-25M-250	250	150	37 500	250	140	35 000
D-SLS-25M-300	300	150	45 000	300	140	42 000
D-SLS-25M-350	350	150	52 500	350	140	49 000
D-SLS-25M-400	400	150	60 000	400	140	56 000
D-SLS-25M-450	450	150	67 500	450	140	63 000
D-SLS-25M-500	500	150	75 000	500	140	70 000
D-SLS-25M-550	550	150	82 500	550	140	77 000
D-SLS-25M-600	600	150	90 000	600	140	84 000
D-SLS-25M-650	650	150	97 500	650	140	91 000
D-SLS-25M-700	700	150	105 000	700	140	98 000
D-SLS-25M-750	750	150	112 500	750	140	105 000
D-SLS-25M-800	800	150	120 000	800	140	112 000
D-SLS-25M-850	850	150	127 500	850	140	119 000
D-SLS-25M-900	900	150	135 000	900	140	126 000
D-SLS-25M-950	950	150	142 500	950	140	133 000
D-SLS-25M-1000	1000	150	150 000	1000	140	140 000
D-SLS-25M-1100	1100	150	165 000	1100	140	154 000
D-SLS-25M-1200	1200	150	180 000	1200	140	168 000
D-SLS-25M-1300	1300	150	195 000	1300	140	182 000
D-SLS-25M-1400	1400	150	210 000	1400	140	196 000
D-SLS-25M-1500	1500	150	225 000	1500	140	210 000
D-SLS-25M-1600	1600	150	240 000	1600	140	224 000
D-SLS-25M-1700	1700	150	255 000	1700	140	238 000
D-SLS-25M-1800	1800	150	270 000	1800	140	252 000
D-SLS-25M-1900	1900	150	285 000	1900	140	266 000
D-SLS-25M-2000	2000	150	300 000	2000	140	280 000

* Luminaire power and output measured at Vin = 230 V AC, F / DA / DAC modes, CRI 70. Order CCT/CRI code: **740**. Efficacy of 150 lm/W at Tq 25 °C and 140 lm/W at ta 50 °C. The highlighted row is the 80 W reference configuration. Other CRI values (80, 90, 99) and Tunable White: output on request.

PHOTOMETRIC TABLE · 3000 K · CRI 70

REFERENCE	POWER* W · Tq 25 °C	EFFICACY lm/W · Tq 25 °C	OUTPUT* lm · Tq 25 °C	POWER* W · Tq 85 °C	EFFICACY lm/W · Tq 85 °C	OUTPUT* lm · Tq 85 °C
3000 K · CRI 70 · Vin 230 V AC · F / DA / DAC modes · Rev. 08/2026			Tq 25 °C: laboratory Tq 85 °C: température de service			
D-SLS-25M-200	200	140	28 000	200	130	26 000
D-SLS-25M-250	250	140	35 000	250	130	32 500
D-SLS-25M-300	300	140	42 000	300	130	39 000
D-SLS-25M-350	350	140	49 000	350	130	45 500
D-SLS-25M-400	400	140	56 000	400	130	52 000
D-SLS-25M-450	450	140	63 000	450	130	58 500
D-SLS-25M-500	500	140	70 000	500	130	65 000
D-SLS-25M-550	550	140	77 000	550	130	71 500
D-SLS-25M-600	600	140	84 000	600	130	78 000
D-SLS-25M-650	650	140	91 000	650	130	84 500
D-SLS-25M-700	700	140	98 000	700	130	91 000
D-SLS-25M-750	750	140	105 000	750	130	97 500
D-SLS-25M-800	800	140	112 000	800	130	104 000
D-SLS-25M-850	850	140	119 000	850	130	110 500
D-SLS-25M-900	900	140	126 000	900	130	117 000
D-SLS-25M-950	950	140	133 000	950	130	123 500
D-SLS-25M-1000	1000	140	140 000	1000	130	130 000
D-SLS-25M-1100	1100	140	154 000	1100	130	143 000
D-SLS-25M-1200	1200	140	168 000	1200	130	156 000
D-SLS-25M-1300	1300	140	182 000	1300	130	169 000
D-SLS-25M-1400	1400	140	196 000	1400	130	182 000
D-SLS-25M-1500	1500	140	210 000	1500	130	195 000
D-SLS-25M-1600	1600	140	224 000	1600	130	208 000
D-SLS-25M-1700	1700	140	238 000	1700	130	221 000
D-SLS-25M-1800	1800	140	252 000	1800	130	234 000
D-SLS-25M-1900	1900	140	266 000	1900	130	247 000
D-SLS-25M-2000	2000	140	280 000	2000	130	260 000

* Luminaire power and output measured at Vin = 230 V AC, F / DA / DAC modes, CRI 70. Order CCT/CRI code: **730**. Efficacy of 140 lm/W at Tq 25 °C and 130 lm/W at ta 50 °C. The highlighted row is the 80 W reference configuration. Other CRI values (80, 90, 99) and Tunable White: output on request.

PHOTOMETRIC TABLE · 2700 K · CRI 70

REFERENCE	POWER* W · Tq 25 °C	EFFICACY lm/W · Tq 25 °C	OUTPUT* lm · Tq 25 °C	POWER* W · Tq 85 °C	EFFICACY lm/W · Tq 85 °C	OUTPUT* lm · Tq 85 °C
2700 K · CRI 70 · Vin 230 V AC · F / DA / DAC modes · Rev. 08/2026			Tq 25 °C: laboratory Tq 85 °C: température de service			
D-SLS-25M-200	200	135	27 000	200	125	25 000
D-SLS-25M-250	250	135	33 750	250	125	31 250
D-SLS-25M-300	300	135	40 500	300	125	37 500
D-SLS-25M-350	350	135	47 250	350	125	43 750
D-SLS-25M-400	400	135	54 000	400	125	50 000
D-SLS-25M-450	450	135	60 750	450	125	56 250
D-SLS-25M-500	500	135	67 500	500	125	62 500
D-SLS-25M-550	550	135	74 250	550	125	68 750
D-SLS-25M-600	600	135	81 000	600	125	75 000
D-SLS-25M-650	650	135	87 750	650	125	81 250
D-SLS-25M-700	700	135	94 500	700	125	87 500
D-SLS-25M-750	750	135	101 250	750	125	93 750
D-SLS-25M-800	800	135	108 000	800	125	100 000
D-SLS-25M-850	850	135	114 750	850	125	106 250
D-SLS-25M-900	900	135	121 500	900	125	112 500
D-SLS-25M-950	950	135	128 250	950	125	118 750
D-SLS-25M-1000	1000	135	135 000	1000	125	125 000
D-SLS-25M-1100	1100	135	148 500	1100	125	137 500
D-SLS-25M-1200	1200	135	162 000	1200	125	150 000
D-SLS-25M-1300	1300	135	175 500	1300	125	162 500
D-SLS-25M-1400	1400	135	189 000	1400	125	175 000
D-SLS-25M-1500	1500	135	202 500	1500	125	187 500
D-SLS-25M-1600	1600	135	216 000	1600	125	200 000
D-SLS-25M-1700	1700	135	229 500	1700	125	212 500
D-SLS-25M-1800	1800	135	243 000	1800	125	225 000
D-SLS-25M-1900	1900	135	256 500	1900	125	237 500
D-SLS-25M-2000	2000	135	270 000	2000	125	250 000

* Luminaire power and output measured at Vin = 230 V AC, F / DA / DAC modes, CRI 70. Order CCT/CRI code: **727**. Efficacy of 135 lm/W at Tq 25 °C and 125 lm/W at ta 50 °C. The highlighted row is the 80 W reference configuration. Other CRI values (80, 90, 99) and Tunable White: output on request.

PHOTOMETRIC TABLE 1800 K & REPLACEMENT EQUIVALENTS

REFERENCE	POWER*	EFFICACY	OUTPUT*	POWER*	EFFICACY	OUTPUT*
	W · Tq 25 °C	lm/W · Tq 25 °C	lm · Tq 25 °C	W · Tq 85 °C	lm/W · Tq 85 °C	lm · Tq 85 °C
1800 K · CRI 70 · Vin 230 V AC · F / DA / DAC modes · Rev. 08/2026				Tq 25 °C: laboratory Tq 85 °C: température de service		
D-SLS-25M-200	200	130	26 000	200	125	25 000
D-SLS-25M-250	250	130	32 500	250	125	31 250
D-SLS-25M-300	300	130	39 000	300	125	37 500
D-SLS-25M-350	350	130	45 500	350	125	43 750
D-SLS-25M-400	400	130	52 000	400	125	50 000
D-SLS-25M-450	450	130	58 500	450	125	56 250
D-SLS-25M-500	500	130	65 000	500	125	62 500
D-SLS-25M-550	550	130	71 500	550	125	68 750
D-SLS-25M-600	600	130	78 000	600	125	75 000
D-SLS-25M-650	650	130	84 500	650	125	81 250
D-SLS-25M-700	700	130	91 000	700	125	87 500
D-SLS-25M-750	750	130	97 500	750	125	93 750
D-SLS-25M-800	800	130	104 000	800	125	100 000
D-SLS-25M-850	850	130	110 500	850	125	106 250
D-SLS-25M-900	900	130	117 000	900	125	112 500
D-SLS-25M-950	950	130	123 500	950	125	118 750
D-SLS-25M-1000	1000	130	130 000	1000	125	125 000
D-SLS-25M-1100	1100	130	143 000	1100	125	137 500
D-SLS-25M-1200	1200	130	156 000	1200	125	150 000
D-SLS-25M-1300	1300	130	169 000	1300	125	162 500
D-SLS-25M-1400	1400	130	182 000	1400	125	175 000
D-SLS-25M-1500	1500	130	195 000	1500	125	187 500
D-SLS-25M-1600	1600	130	208 000	1600	125	200 000
D-SLS-25M-1700	1700	130	221 000	1700	125	212 500
D-SLS-25M-1800	1800	130	234 000	1800	125	225 000
D-SLS-25M-1900	1900	130	247 000	1900	125	237 500
D-SLS-25M-2000	2000	130	260 000	2000	125	250 000

REPLACEMENT EQUIVALENTS — DISCHARGE LAMPS → D-SLS-14

Existing lamp	System power	Equivalent D-SLS-25M	Luminaire output (4000 K)	Energy saving
Iodures métalliques 400 W	440 W	D-SLS-25M-200	30 000 lm	-55 %
Iodures métalliques 1 000 W	1 080 W	D-SLS-25M-450	67 500 lm	-58 %
Iodures métalliques 1 500 W	1 600 W	D-SLS-25M-700	105 000 lm	-56 %
Iodures métalliques 2 000 W	2 200 W	D-SLS-25M-1200	180 000 lm	-45 %

ORDER CODING · BUILDING A PRODUCT REFERENCE

Reference structure



Example: D-SLS-25M-600-740-AS-LD-SP20 = 600 W floodlight, 4000 K / CRI 70, asymmetric optic, LidarMesh remote management, external 20 kV SPD.

Power

200 · 250 · 300 · 350 · 400 · 450 · 500 · 550 · 600 · 650 · 700 · 750 · 800 · 850 · 900 · 950 · 1000 · 1100 · 1200 · 1300 · 1400 · 1500 · 1600 · 1700 · 1800 · 1900 · 2000 W

Luminaire power at $V_{in} = 230 \text{ V AC}$ ($\pm 5\%$). Any other value on request.

CCT · IRC

750 = 5000 K · **740** = 4000 K · **730** = 3000 K · **727** = 2700 K · **718** = 1800 K

First digit = CRI: **7** = 70 (standard), **8** = 80, **9** = 90 — e.g. 940 = 4000 K / CRI 90

TW = Tunable White 2200 – 6500 K (D4i + DT8)

Optic

AS = STU-M asymmetric (standard — fields of play)

IN = intensive (long throw, façades)

EX = extensive (large areas, car parks)

LDT / IES files for each optic on request.

Options

LD LidarMesh remote management · **SP20** external 20 kV SPD ·

W10 10-year warranty · **MAR** C5 anti-corrosion · **A12** 12 V auxiliary · **M33** / **M76** Ø adaptors · **TW** Tunable White · **S3** 3 SDCM · **CL2** class II

Options are combinable and added in this order at the end of the reference.

Reference examples

D-SLS-25M-600-740-AS

Training pitch — 600 W, 4000 K, CRI 70, asymmetric optic (reference configuration).

D-SLS-25M-1200-740-AS-LD-SP20

Stadium — 1,200 W, LidarMesh remote management, external 20 kV SPD for high poles.

D-SLS-25M-400-930-IN-TW-MAR-W10

Seafront façade — 400 W, CRI 90, intensive optic, Tunable White, C5 anti-corrosion, 10-year warranty.

Quick sizing

Total required output $\approx E_m \times S / (UF \times MF)$. Example: a 105 × 68 m football pitch in class III (E_m 75 lx), utilisation factor 0.5, maintenance factor 0.8 $\rightarrow \approx 1,340,000 \text{ lm}$, i.e. **8 × D-SLS-25M-1200 floodlights** (168,000 lm each at 140 lm/W, T_q 85 °C). A DIALux / Relux study then confirms positions, tilts and U0 uniformity.

WARRANTY & SERVICES

7-year warranty



Standard **7-year** warranty on the complete luminaire — LED module, optic, driver and SPD — for a compliant installation and an ambient operating temperature $\leq 50\text{ }^{\circ}\text{C}$.

10-year extension (W10)



On project registration at commissioning: warranty extended to **10 years**, covering lumen maintenance (L90) and spare-part availability.

Lighting studies



DIALux / Relux photometric study to EN 13201 / UNI 11248, LDT / IES files, LED LM-80 reports and calculation notes for tender files (LM-79 reports in progress).

Factory configuration



LED current (NFC), DA / DAC dimming profiles, DALI-2 addresses, OTP thresholds and D4i parameters set in the factory to the project sheet — luminaires ready to install.

LidarMesh commissioning



Integration of light points into **LidarMesh CMS**, scenario creation, operator training and remote support.

Spare parts & after-sales



Zhaga Book 18 LED modules, drivers, glasses and gaskets available throughout the warranty period — on-site replacement without special tools.

Sales & technical contact

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