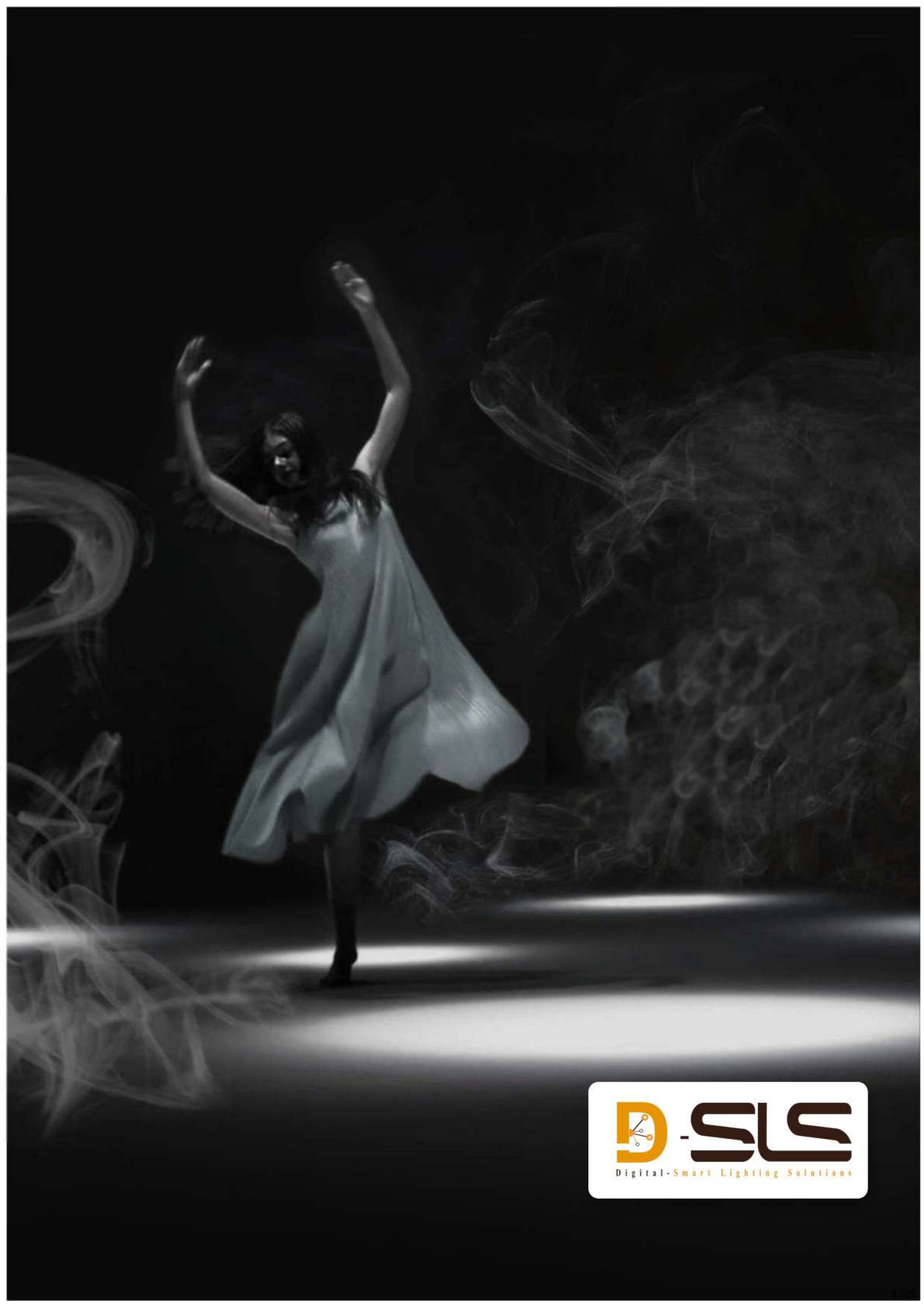




## OVERVIEW · D-SLS-25M MODULAR LED FLOODLIGHT

*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<sub>q</sub> 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**

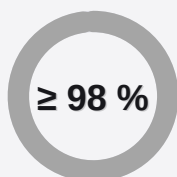
650 – 1 200 W

**25M · L**

1 300 – 2 000 W

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

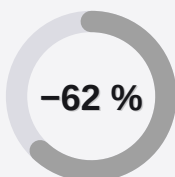
# PERFORMANCE & SAVINGS · DASHBOARD



réflectance optique



driver efficiency



energy (LiDAR)

## TUNABLE WHITE — CCT RANGE



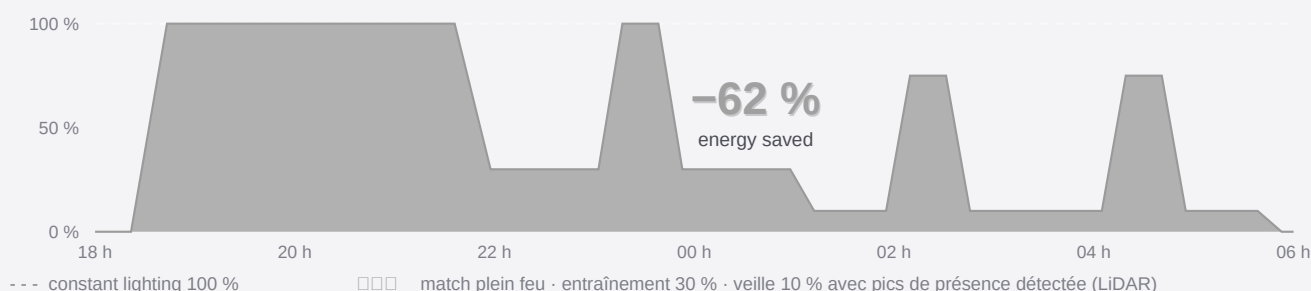
2200 K WARM

COOL 6500 K

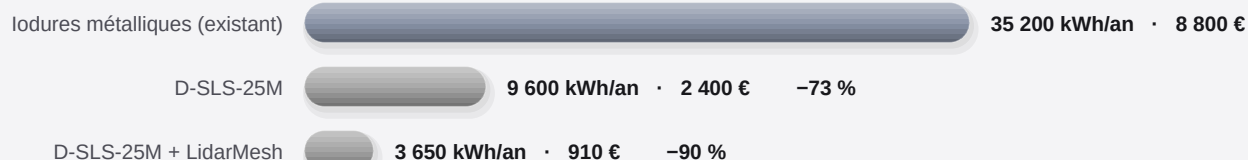
Pilotage D4i + DT8 — IRC 70 · 80 · 90, MacAdam 3 SDCM (option S3) · option TW

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



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 T<sub>q</sub> -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                  | <b>STU-M</b> 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     | <b>IP67</b> (IEC 60529 — temporary immersion 30 min / 1 m) · full <b>IK09</b> (IEC 62262)                                                                                                                                       |
| Pressure equalisation  | <b>Stainless steel</b> 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 <sup>2</sup> · Front: 0.18 m <sup>2</sup> · SCx: 0.04 m <sup>2</sup> (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 <sub>j</sub> = 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,  $\geq 140$  lm/W, CRI  $\geq 70$ , 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  $\geq 7$  years.



## CERTIFICATIONS & STANDARDS



### ENEC certificate no. HN 69290740

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| <b>Certification body</b>   | TÜV Rheinland InterCert Kft. (MEEI, Budapest)                                      |
| <b>Standards</b>            | EN IEC 60598-1:2021 + EN 60598-2-3                                                 |
| <b>Certificate holder</b>   | D-SLS SRL — Via Bocchetto 6, 20123 Milan (MI), Italy                               |
| <b>Types covered</b>        | Familles D-SLS-a-b-cd — série 25 (projecteurs), toutes puissances de 200 à 2 000 W |
| <b>Certified parameters</b> | 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](http://www.d-sls.it)

[WhatsApp direct](#)

[sa@d-sls.com](mailto:sa@d-sls.com)

Certificates, test reports and photometric files on request.

## MATERIALS & CONSTRUCTION

|                    |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| LED module         | Removable / replaceable — <b>Zhaga Book 18</b> 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

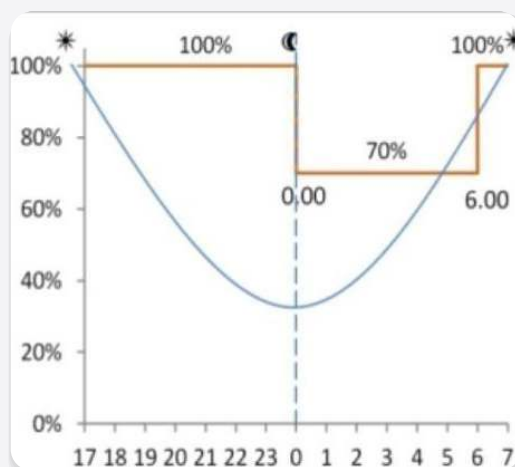
## ELECTRICAL SPECIFICATIONS · PROGRAMMABLE DRIVER

|                  |                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage   | 90 – 305 V AC · 50 / 60 Hz ( $\pm 10$ % 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       | <b>DALI-2</b> · Zhaga-certified <b>D4i</b> · 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 <b>10 kV / 10 kA</b> 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)

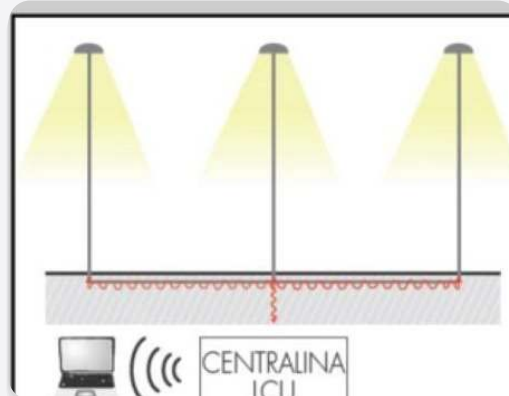
### D-SLS smart node — Zhaga Book 18 / D4i

- **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 <b>TALQ 2.7.1</b> 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).

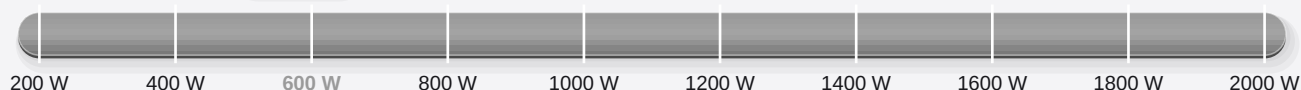
### Ordering

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

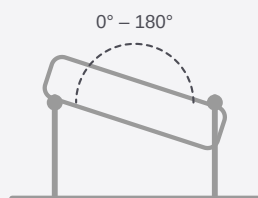
### Reference configuration — 600 W

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



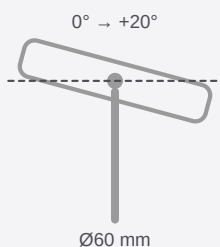
Adjustable bracket with 0 – 180° scale

### Adjustable bracket



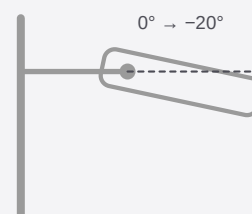
Ground, façade or pole mounting — 0 – 180° adjustment with scale, locked by stainless steel screws.

### 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  $\geq 70$  (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 p

**≈ 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 (≈ 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

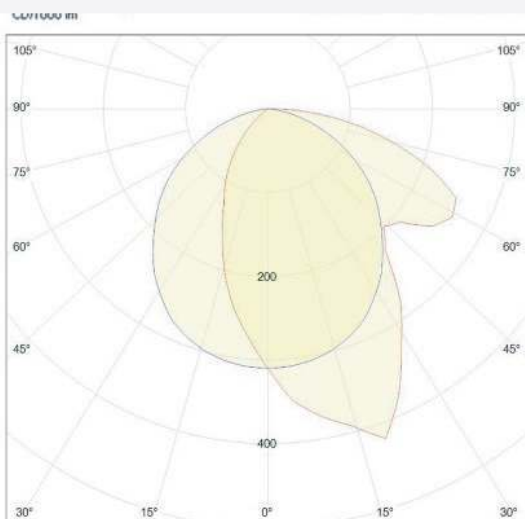
long throw, façades, high poles

AS

#### STU-M asymmetric

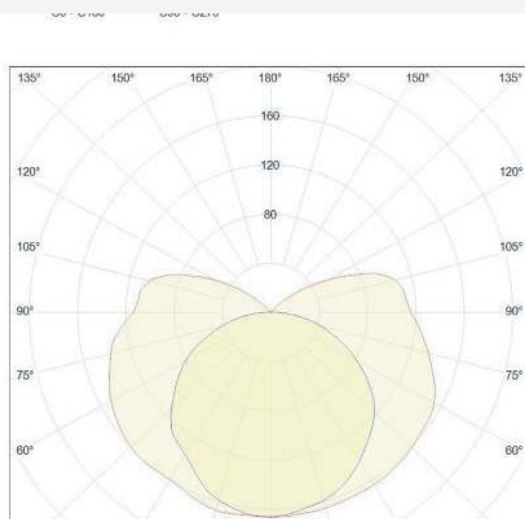
fields of play, controlled glare (standard)

### 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*       | 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 |
| 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        |
| <b>D-SLS-25M-600</b>                                               | <b>600</b>   | <b>150</b>      | <b>90 000</b>                                           | <b>600</b>   | <b>140</b>      | <b>84 000</b> |
| 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*       | 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 |
| 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        |
| <b>D-SLS-25M-600</b>                                               | <b>600</b>   | <b>150</b>      | <b>90 000</b>                                           | <b>600</b>   | <b>140</b>      | <b>84 000</b> |
| 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*       | 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 |
| 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        |
| <b>D-SLS-25M-600</b>                                               | <b>600</b>   | <b>140</b>      | <b>84 000</b>                                           | <b>600</b>   | <b>130</b>      | <b>78 000</b> |
| 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*       | 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 |
| 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        |
| <b>D-SLS-25M-600</b>                                               | <b>600</b>   | <b>135</b>      | <b>81 000</b>                                           | <b>600</b>   | <b>125</b>      | <b>75 000</b> |
| 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        |
| <b>D-SLS-25M-600</b>                                               | <b>600</b>   | <b>130</b>      | <b>78 000</b> | <b>600</b>                                              | <b>125</b>      | <b>75 000</b> |
| 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

**D-SLS-25M**

Model

**600**

Power

**740**

CCT · IRC

**AS**

Optic

**LD**

Option

**SP20**

Option

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  $V_{in} = 230$  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  $\rightarrow \approx 1,340,000$  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

E-mail [sa@d-sls.com](mailto:sa@d-sls.com)

WhatsApp [+39 333 765 0586](tel:+393337650586)

Web [www.d-sls.it](http://www.d-sls.it)

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