

Technical product sheet · 2026

VALDUR

Swedish-made LED street luminaire
with a corrosion-free SMC housing.



Designed and manufactured in Sweden for coastal, urban and industrial environments. Corrosion-free composite housing, patent-pending heat dissipation and Philips/Signify electronics.

IP66 / IK08

Ingress / impact protection

3,5–5,1 kg

Total weight

20 / 5 years

Corrosion / function

Corrosion-free housing

Glass-fibre-reinforced SMC thermoset composite. The housing does not undergo metallic or galvanic corrosion and needs no protective coating against such corrosion.

Made in Sweden

Compression-moulded in Ljungby and finally assembled in Fristad — a short Swedish supply chain.

High efficacy

Up to 164,3 lm/W with Philips Fortimo FastFlex UHE. Lower energy and operating costs.

Low weight, 3,5–5,1 kg

Total weight 3,5–5,1 kg depending on configuration.

Projected lumen maintenance

Projected LED-module lumen maintenance is L90/B10 at >100 000 h. 20-year corrosion warranty and 5-year functional warranty.

Smart and IoT ready

Radio-transparent housing. DALI-2 depending on the driver; Zhaga Book 18 socket and D4i-certified driver optional. AirGlow can be factory-integrated.



Technical data

The VALDUR product family. Data that varies by version is specified for the selected configuration.

Ingress protection	IP66
Impact resistance	IK08
Protection class	Class II
Mains voltage	220–240 V / 50–60 Hz
Inrush current	Configuration - dependent; specified for the selected driver in the project documentation
Operating temperature	–40 to +40 °C
Projected LED - module lumen maintenance	>100 000 h (L90/B10)
Colour temperature	2200 K, 2700 K, 3000 K, 4000 K, 5000 K, 5700 K
Amber (bio)	2200–5700 K LEDs produce approximately 1900–2900 K output light
Colour rendering	Standard white LED: Ra ≥ 70. ColorRevive: Ra ≥ 80. Filtered Amber and SPECTRE-Y are stated separately and are not covered by these general Ra values.
Power range	Calculated white configurations: 12,1–77,9 W at 2200–4000 K; 12,1–63,7 W at 3000/4000 K. Amber is specified separately.
Luminous flux	1 832 lm – 10 150 lm for calculated white configurations
Efficacy	up to 164,3 lm/W
Connection cable	VALDUR 10–20: 6 m VALDUR 30–60: 8 m VALDUR 100: 10 m
Windage area	0,033 m ²
Total weight	3,5–5,1 kg
Surge protection	Selected Signify Xitanium driver: up to 6 kV differential mode / 10 kV common mode according to the driver datasheet. Separate SPD optional.
Conformity	CE marking (EU Declaration of Conformity)
Connection and control	1–10 V (LP S1) or DALI-2 (FP/SR/CR); the specified SR/CR configurations are also D4i - certified. Fixed - output version depending on configuration; Zhaga Book 18 socket optional.
Corrosion warranty	20 years**
Functional warranty	5 years (POLAB functional warranty; ALEM 09 only where specifically agreed)

** Covers corrosion of the luminaire housing under normal use and correct installation. See the full warranty terms.

Technical description

Housing

The non-metallic SMC housing does not undergo metallic or electrochemical corrosion and needs no protective coating against such corrosion.

Heat dissipation

Patent-pending integrated system. Stable operation at ambient temperatures up to +40 °C.

Weight

Composite luminaire housing: 1,8 kg. Total weight with components: from 3,5 kg.

Drivers

Philips/Signify Xitanium (LP/FP/SR/CR). 1–10 V applies to LP S1. DALI-2 applies to FP/SR/CR; the specified SR/CR configurations are also D4i-certified. CLO is standard. DynaDimmer and data functions depend on the exact driver.

Optics

LEDiL 2×2 system. Standard: STRADA DWC (IESNA Type III/medium). Amber, Glare-Free and SHD Shade as alternatives.

Fasteners

Stainless steel 316 (marine grade).

Cover

4 mm toughened glass (clear as standard, frosted optional).

LED-module lumen maintenance

LED-module lumen maintenance is projected to >100 000 hours (L90/B10). The housing is covered by a 20-year corrosion warranty and functional components by a 5-year functional warranty.

Electrical safety

The SMC housing is electrically insulating. Protection against accessible live parts is determined by the luminaire's complete Class II construction.

Manufacturing

Compression moulding without melting for casting or casting waste.

LED modules

VALDUR uses selected Philips/Signify Fortimo FastFlex modules. The exact module, UHE version and module performance depend on the selected CCT, luminous-flux level and configuration; the module and order code are specified for the selected version. Colour temperature 2200K–5700 K. Amber produces approximately 1900–2900 K output light from 2200–5700 K LEDs.

IoT

Radio-transparent construction. Zhaga Book 18 sockets for sensor and communication nodes can be ordered on the top (ZH1), underside (ZH2) or both (ZH3), depending on configuration. AirGlow by LumenRadio can be ordered factory-integrated.

Installation

Ø 48 mm or Ø 60 mm column. 180° horizontal / 90° vertical adjustment.

Colours

Light grey, black. Other colours to special order.

Article numbers and E-numbers

White article references with recalculated Signify values. Calculated luminaire performance; article correspondence is verified before ordering. Xitanium LP drivers.

3000 K · Warm white

Model / power	Luminous flux / lm/W	Current / cable	Article / E-no. · light grey	Article / E-no. · black
VALDUR 10 12,2 W	1 832 lm 150,2 lm/W	221 mA · 6 m	VL010-30K-GRY E-7729476	VL010-30K-BLK E-7729488
VALDUR 20 15,6 W	2 441 lm 156,5 lm/W	297 mA · 6 m	VL020-30K-GRY E-7729477	VL020-30K-BLK E-7729489
VALDUR 30 24,6 W	3 946 lm 160,4 lm/W	321 mA · 8 m	VL030-30K-GRY E-7729478	VL030-30K-BLK E-7729490
VALDUR 40 35,4 W	5 674 lm 160,3 lm/W	469 mA · 8 m	VL040-30K-GRY E-7729479	VL040-30K-BLK E-7729491
VALDUR 60 45,9 W	7 469 lm 162,7 lm/W	409 mA · 8 m	VL060-30K-GRY E-7729480	VL060-30K-BLK E-7729492
VALDUR 100 63,7 W	10 150 lm 159,3 lm/W	565 mA · 10 m	VL100-30K-GRY E-7729481	VL100-30K-BLK E-7729493

4000 K · Neutral white

Model / power	Luminous flux / lm/W	Current / cable	Article / E-no. · light grey	Article / E-no. · black
VALDUR 10 12,1 W	1 835 lm 151,7 lm/W	218 mA · 6 m	VL010-40K-GRY E-7729470	VL010-40K-BLK E-7729482
VALDUR 20 15,4 W	2 445 lm 158,8 lm/W	293 mA · 6 m	VL020-40K-GRY E-7729471	VL020-40K-BLK E-7729483
VALDUR 30 24,1 W	3 945 lm 163,7 lm/W	316 mA · 8 m	VL030-40K-GRY E-7729472	VL030-40K-BLK E-7729484
VALDUR 40 34,8 W	5 665 lm 162,8 lm/W	461 mA · 8 m	VL040-40K-GRY E-7729473	VL040-40K-BLK E-7729485
VALDUR 60 45,5 W	7 475 lm 164,3 lm/W	403 mA · 8 m	VL060-40K-GRY E-7729474	VL060-40K-BLK E-7729486
VALDUR 100 62,7 W	10 148 lm 161,9 lm/W	556 mA · 10 m	VL100-40K-GRY E-7729475	VL100-40K-BLK E-7729487

The exact LED module, UHE version and module performance depend on the selected colour temperature, luminous-flux level and configuration. The module and order code are specified for the selected version.

Amber and control options

1900 K · Bio Amber

LEDiL manufacturer data: approximately 99 % reduction within 380–500 nm, depending on LED and optics. Amber produces approximately 1900–2900 K output light from 2200–5700 K LEDs.

Model / power	Luminous flux / lm/W	Current / module / cable	Article / E-no. · light grey	Article / E-no. · black
VALDUR 10 16,8 W	1 805 lm 107,4 lm/W	320 mA · 2×4 6 m	VL010-19K-GRY E-7729494	VL010-19K-BLK E-7729501
VALDUR 20 22,1 W	2 443 lm 110,5 lm/W	288 mA · 2×6 6 m	VL020-19K-GRY E-7729495	VL020-19K-BLK E-7729502
VALDUR 30 31,5 W	3 946 lm 125,3 lm/W	474 mA · 3×6 8 m	VL030-19K-GRY E-7729496	VL030-19K-BLK E-7729503
VALDUR 40 44,9 W	5 669 lm 126,3 lm/W	451 mA · 3×6 8 m	VL040-19K-GRY E-7729497	VL040-19K-BLK E-7729504
VALDUR 60 66,1 W	7 472 lm 113,0 lm/W	606 mA · 3×6 8 m	VL060-19K-GRY E-7729498	VL060-19K-BLK E-7729505

Amber: W and lm are preliminary POLAB values. lm/W = lm divided by W. Verify luminaire photometry before procurement.

Controls and IoT

Integrated AirGlow by LumenRadio

Factory-integrated wireless mesh (MiraMesh). Ready out of the box — connect and programme via the app. DALI-2 depending on the driver; Zhaga Book 18 socket and D4i-certified driver optional. Astronomical clock, presence and scene logic. Up to 200 nodes/zone.

Tridonic DALI-2 / PIR

Standardised DALI-2 systems with gateway. PIR sensor for heat-sensitive presence detection in temperate environments.

Comlight Eagle Eye — radar sensor

24 GHz Doppler radar via Zhaga or column-mounted. Stable in rain, snow and Nordic conditions. Detects pedestrians, cyclists and vehicles. Gateway with 4G for LMS and remote control.

Hytronik Koolmesh / Capelon / open systems

Bluetooth Mesh (Hytronik Koolmesh) and central control systems (Capelon) with gateway via Zhaga Book 18.

Zhaga socket (optional)

- DALI-2 depending on the driver; Zhaga Book 18 socket and D4i-certified driver optional
- **SR driver** for sensor combinations
- Top- or underside-mounted socket
- Combine with AirGlow, Comlight, Tridonic and others

Integrated AirGlow (optional)

- LumenRadio MiraMesh — wireless mesh
- Up to 200 nodes per zone
- Astronomical clock, time and presence control
- App-based commissioning via Bluetooth
- No additional Zhaga node required

Comlight Radar (optional)

- 24 GHz Doppler radar — Eagle Eye (Zhaga)
- Eagle Eye 3.0 — column- or wall-mounted version
- Up to 254 luminaires per chain
- Gateway with 4G for remote control (LMS)
- Stable in rain, snow and Nordic conditions

Optics and drivers

LEDiL 2×2 system

VALDUR uses LEDiL 2×2 optics. DWC is standard. ME and other available LEDiL optics are offered on request. The quotation specifies the article number and performance.

LEDiL STRADA series (standard)

IESNA Type III (medium). Optimised for roads, parks and open spaces. Efficient, uniform light distribution. Standard in the VALDUR range.

Amber LEDiL (bio-optics)

According to LEDiL manufacturer data, the AMBER lens reduces approximately 99 % of LED light within 380–500 nm; the value depends on the LED and optics. Reduced short-wavelength light can form part of a project-specific approach to limiting light pollution, but ecological suitability must be assessed against the location, species, light level, direction and operating hours.

Glare-Free LEDiL 2X2R

Reflector optics for high uniformity and minimal glare. Luminous intensity class comparable to G6. *German Innovation Award 2025.*

SHD Shade LEDiL (accessory)

Shields backlight and spill light towards façades, water and tree canopies. White: slightly higher efficacy through reflection. Black: greatest light restriction.

Philips Xitanium

LP — Lite Programmable	1–10 V, SimpleSet/NFC and configurable DynaDimmer and CLO Lite. A night profile can contain up to five steps. The specified LP S1 variants are neither DALI-2 nor D4i.
FP — Full Programmable	DALI-2, SimpleSet/NFC, DynaDimmer, LineSwitch/AmpDim, CLO and configuration-dependent data and diagnostic functions. The specified FP variants are not D4i.
SR — Sensor Ready	Sensor Ready, DALI-2 and D4i with an integrated bus/sensor supply and configuration-dependent data, energy and diagnostic functions. A compatible external node or sensor is specified separately.
CR — Connected Ready	Connected Ready, DALI-2 and D4i with integrated supplies and energy and diagnostic data. Wireless communication and remote monitoring require a separate compatible communication node and a control system.

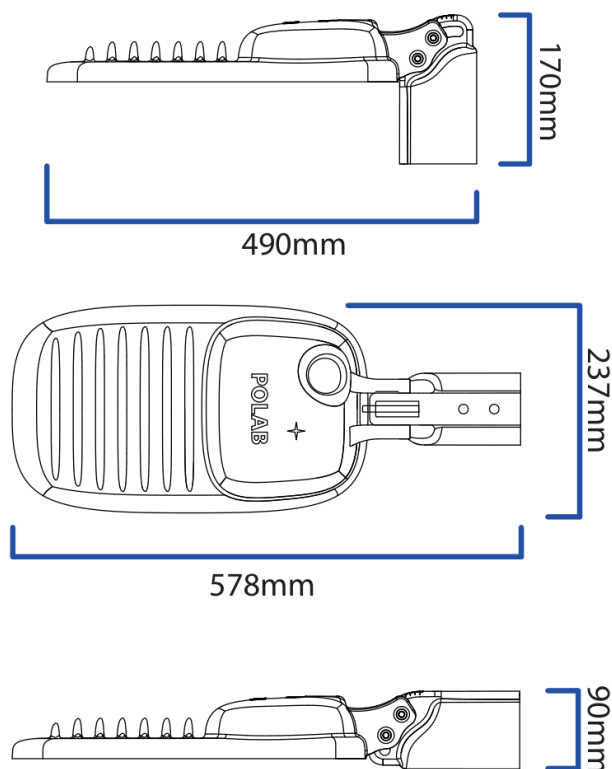
Connection cable

VALDUR 10–20	6 m pre-fitted (special lengths to order)
VALDUR 30–60	8 m pre-fitted (special lengths to order)
VALDUR 100	10 m pre-fitted (special lengths to order)

Cable can also be ordered in a stiffer version for columns with long brackets.

Dimensions, material and mounting

Dimension drawing



Dimensions in mm.

Installation flexibility

Horizontal bracket	180° adjustable (column bracket)
Vertical post-top	90° adjustable (straight column)
Preset angle	Available to order from the factory
Ø 48 mm adaptor	Included. Centres the luminaire in the tube.
Bulk packaging	Available as an option

SMC thermoset composite

VALDUR is compression-moulded under 400 tonnes of pressure. The glass fibres are embedded in a polymer matrix that cross-links into a dimensionally stable thermoset structure. The material does not remelt like a thermoplastic, but its properties may be affected by prolonged heat exposure.

Corrosion-free

Does not undergo metallic or galvanic corrosion. 20-year corrosion warranty.

Total weight 3,5–5,1 kg

Depending on configuration.

Radio-transparent

Enables wireless IoT control directly within the luminaire.

Electrically insulating

The SMC housing is electrically insulating. Protection against accessible live parts is determined by the luminaire's complete Class II construction.

Impact- and scratch-resistant

Strength is inherent in the material — no coating to flake off.

Compression-moulded, not cast

Compression moulding without melting for casting. No casting waste.

Working calculation · 2200/2700 K

Component calculation at Tc 65 °C and 230 V. LED flux before glass is 10 % above the target flux. System power and lm/W include the calculated Signify driver loss. Luminaire photometry has not been measured.

Model	LED K	W AC	lm after glass	lm/W	mA	Basis
VALDUR 10	2200	14,4	1 834	127,4	268	Calc.
VALDUR 10	2700	14,0	1 835	131,1	264	Calc.
VALDUR 20	2200	18,8	2 445	130,1	361	Calc.
VALDUR 20	2700	18,5	2 444	132,1	356	Calc.
VALDUR 30	2200	29,7	3 951	133,0	390	Calc.
VALDUR 30	2700	29,1	3 949	135,7	385	Calc.
VALDUR 40	2200	43,1	5 671	131,6	570	Calc.
VALDUR 40	2700	42,6	5 672	133,1	567	Calc.
VALDUR 60	2200	55,9	7 470	133,6	497	Calc.
VALDUR 60	2700	55,4	7 473	134,9	493	Calc.
VALDUR 100	2200	77,9	10 142	130,2	687	Calc.
VALDUR 100	2700	77,3	10 142	131,2	687	Calc.

Modules: Fortimo 2×4/2×6 DA HE at 2200 and 2700 K. Exact variants are available in Signify documentation.

Boards per luminaire: VALDUR 10/20 = 2 × 2×4; 30/40 = 2 × 2×6; 60/100 = 3 × 2×6. Series connection. LP40 for 10–40 and LP75 for 60/100. LED data and driver efficiency from Signify; AC W, lumens after glass and lm/W are calculated. Actual temperature and optical loss need verification.

Working calculation · 3000/4000 K

Component calculation at Tc 65 °C and 230 V. LED flux before glass is 10 % above the target flux. System power and lm/W include the calculated Signify driver loss. Luminaire photometry has not been measured.

Model	LED K	W AC	lm after glass	lm/W	mA	Basis
VALDUR 10	3000	12,2	1 832	150,2	221	Calc.
VALDUR 10	4000	12,1	1 835	151,7	218	Calc.
VALDUR 20	3000	15,6	2 441	156,5	297	Calc.
VALDUR 20	4000	15,4	2 445	158,8	293	Calc.
VALDUR 30	3000	24,6	3 946	160,4	321	Calc.
VALDUR 30	4000	24,1	3 945	163,7	316	Calc.
VALDUR 40	3000	35,4	5 674	160,3	469	Calc.
VALDUR 40	4000	34,8	5 665	162,8	461	Calc.
VALDUR 60	3000	45,9	7 469	162,7	409	Calc.
VALDUR 60	4000	45,5	7 475	164,3	403	Calc.
VALDUR 100	3000	63,7	10 150	159,3	565	Calc.
VALDUR 100	4000	62,7	10 148	161,9	556	Calc.

Modules: Fortimo 2×4/2×6 DA UHE at 3000 and 4000 K. The same calculated values appear in the article-number section.

Boards per luminaire: VALDUR 10/20 = 2 × 2×4; 30/40 = 2 × 2×6; 60/100 = 3 × 2×6. Series connection. LP40 for 10–40 and LP75 for 60/100. LED data and driver efficiency from Signify; AC W, lumens after glass and lm/W are calculated. Actual temperature and optical loss need verification.