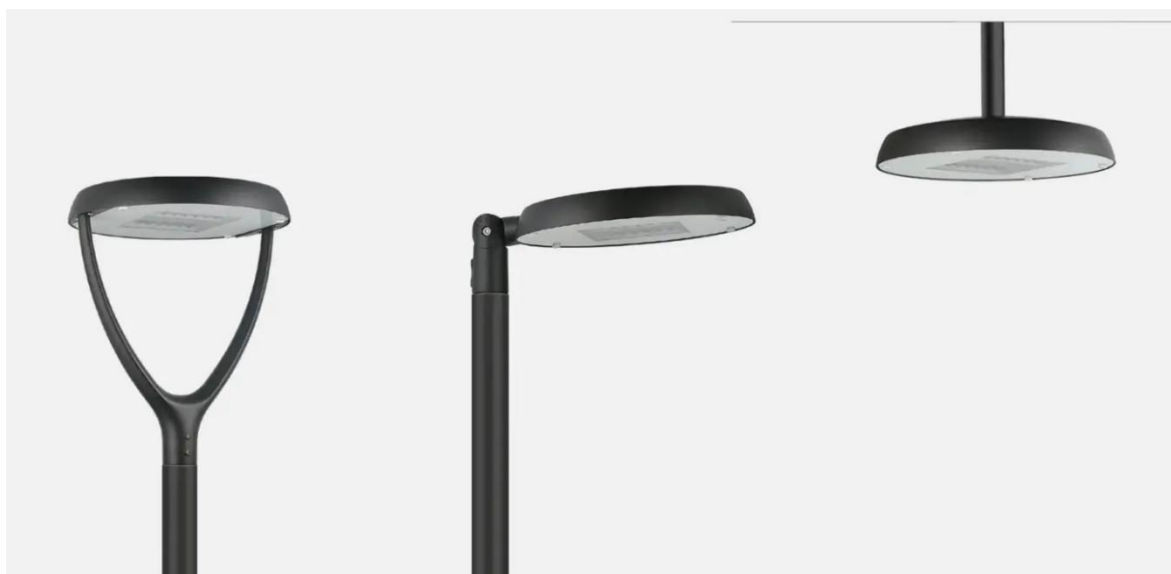


VENERE PRO

Artistic LED luminaire



Urban lamp with a minimalist design

A modern reinterpretation of classic LED lanterns, designed to combine aesthetics and versatility.

Thanks to a system of interchangeable mounting brackets, the luminaire allows for a variety of aesthetic and functional configurations, adapting perfectly to any architectural setting, making it the ideal solution for enhancing:

- Squares and pedestrian areas
- Parks and public gardens
- Cycle paths
- Car parks
- Residential areas

Key features

- **Modular design:** Replacing the brackets transforms the visual character of the luminaire, ensuring extreme design flexibility.
- **Versatile application:** An 'all-in-one' solution capable of blending seamlessly with a variety of urban settings, from historic city centres to modern suburbs.
- **Performance:** Available in a power range from 10W to 100W, optimised to ensure high luminous performance and energy efficiency.



Technical description

Artistic LED luminaire for lighting urban and residential streets, historic centres, cycle and pedestrian areas, squares, gardens and car parks, **NITEKO** brand, **VENERE PRO** series, complete with mounting accessories integrated into the luminaire, compatible with various installation contexts:

- **S** version for suspension mounting on an arm;
- **T** version for top-mounted installation on a catenary;
- **P** version for pole-top or side-mounted installation on an arm;
- Version **F** for pole-mounted installation.

The luminaire consists of a single optical and electrical compartment that can be opened by removing the screws securing the diffuser; it comprises independent and replaceable LED modules and PMMA optics fixed to the heat sink without the use of adhesives, to allow for quick and easy maintenance of the luminaire in the event of a fault or technological upgrade.

Luminaire fitted with modules containing **16, 24 or 36 high-power 5050-type LEDs**, powered by a constant current of up to **500mA**, with a correlated colour temperature (CCT) of **3,000K** in the standard version, or with optional CCTs of **1,800K, 2,200K, 2,700K, 4,000K and 5,000K**; a colour rendering index (**CRI**) greater than **70** in the standard version, or **CRI > 80** or **CRI > 90** on request; and a photobiological risk class not exceeding **R1**.

LEDs fitted with high-precision **PMMA secondary collimators** to concentrate the light beam, with a minimum overall optical system efficiency of not less than **75 per cent** and a wide choice of photometric curves suitable for any type of application, featuring asymmetric, rotosymmetric, elliptical or symmetrical light beams, or for pedestrian crossings, with a luminous intensity class of not less than **G*2**; all are **full cut-off**, in full compliance with legislation against light pollution, with zero luminous intensity beyond 90° in their standard installation position.

Light source efficiency of up to **215 lm/W** and a service life, under optimal operating conditions, of:

- L98 B10: > 100,000 h ($T_J = 85^\circ\text{C} - I_F \leq 500\text{ mA}$);
- L90 B10: > 120,000 h ($T_J = 85^\circ\text{C} - I_F \leq 500\text{ mA}$);
- L80 B10: > 270,000 h ($T_J = 85^\circ\text{C} - I_F \leq 500\text{ mA}$);
- L70 B10: > 450,000 h ($T_J = 85^\circ\text{C} - I_F \leq 500\text{ mA}$);

Luminous flux of the luminaire up to **16,276 lm** (100 W, 4000 K, CRI > 70, optical efficiency < 87%), with luminous efficacy greater than **165 lm/W** depending on the configuration (number of LEDs and supply current, CCT, CRI, optics) and an energy efficiency class higher than **A3+**.

Power supply: **175/264 V AC – 50/60 Hz**, with a maximum effective power output of between **10 W** and **100 W** depending on the model.

High-efficiency electronic ballasts integrated into the luminaire's electrical compartment, characterised by a power factor greater than **PF > 0.95**, with a failure rate of less than 12% after 100,000 hours of operation and a minimum efficiency of **90%**,



thermal protection, short-circuit protection and standard surge protection up to **10 kV** in common mode and **6 kV** in differential mode. On request, additional protection can be provided with an **SPD** device incorporated into the electrical compartment, which protects the unit against overvoltages of **10 kV**, **12 kV** or **20 kV**, in both common-mode and differential-mode.

EOS-free luminaire equipped with specific technical features designed to prevent the build-up of parasitic capacitance, thereby minimising damage caused by electrical overstress (EOS).

V.O.C.-free luminaire constructed using non-metallic materials and components with high chemical compatibility with the LED source to prevent the release of volatile organic compounds (VOCs) that could, over time, affect performance, stability and colour temperature.

Class II insulated luminaire (or optional **Class I**) with an **IP66** protection rating for the optical and electrical compartments, impact resistance rating of **IK09**, with an operating temperature range of **-40°C** to **+50°C** and a storage temperature range of **-40°C** to **+80°C**, body dimensions excluding accessories of **Ø490 x h91 mm**, weighing between **7.1 kg** and **11.0 kg** (depending on the mounting accessories used), with a lateral wind-exposed surface area of less than **0.100 m²**, comprising:

- Die-cast aluminium body and brackets with an ultra-low wind-exposed profile, fitted with a self-cleaning system that allows rainwater to drain away, comprising a heat sink integrated within the electrical compartment and dimensioned to ensure a long service life and maximum efficiency of the LEDs thanks to optimal heat dissipation management, subject to a polyester powder coating process in the standard colour **graphite black RAL 9011** (other colours available on request), free from VOCs and EOS, resistant to corrosion, abrasion, flaking, UV rays and salt spray, with testing up to **1,000 hours**, ensuring colour stability over time even when exposed to intense sunlight and salt spray;
- External fasteners made from AISI 304 stainless steel;
- Light source comprising high-efficiency power LED modules, secured to the internal heat sink using fasteners without the use of adhesives or other bonding agents;
- Optical system comprising modular PMMA lenses, a PC reflector and a **5mm-thick** extra-clear toughened glass cover, guaranteed against yellowing and ageing, fitted with seals made from non-toxic, ageing-resistant silicone which ensure the optical compartment is airtight, guaranteeing IP66 protection;
- Anti-condensation system with a vent valve that allows air to circulate without compromising the luminaire's protection rating, ensuring a longer service life for materials and components.
- High-efficiency electronic ballasts, programmable and compatible with all remote control systems via 0–10 V analogue or DALI and DALI 2.0 digital control;
- Additional surge protection device against overvoltages of up to 10, 12 and 20 kV, incorporated into the luminaire's electrical compartment on request;
- H07RN-F type power supply cable with a standard length of 0.5 m;



- Electrical connection via IP66/IP68-rated connectors, supplied on request.

This appliance complies with product standards and meets the Minimum Environmental Criteria (**CAM**) in accordance with Ministerial Decree of 27 September 2017 (Official Gazette No. 244 of 18 October 2017), and is certified to **CE, RoHS, ENEC pending, IP66, IK09**, photobiological safety Class **R1**, and salt spray resistance up to **1000 hours**.

The luminaire can be fitted, on request, with optional **remote control** devices, featuring interface components integrated into the luminaire body, available for the following functions:

- Voltage-regulated dimming (PLV);
- Power line modulation (LPL);
- Automatic control via pre-programmed time slots (PRG);
- Control via 1–10 V analogue signal (DIM);
- DALI digital signal control (DALI);
- Control via DALI 2.0 digital signal (DALI 2.0);
- Automatic flux adjustment according to the decay curve (CLO-LITE);
- Automatic luminous flux adjustment according to pre-programming (CLO-FULL);
- Interface with emergency lighting devices (DCE-DIM);
- Point-to-point remote control via radio signals (NEMA, ZHAGA).



Technical specifications

MAIN MAIN	Luminaire type	Artistic LED luminaire
	Applications	Urban and residential lighting, cycle and pedestrian areas, car parks, squares and gardens
	Brand	Niteko
	Series	VENERE PRO
	Mounting	Side-mounted, Mounted, Pole-mounted, Suspended, Braced
	Luminaire power	10W – 100W
	Luminaire luminous flux	From 893 lm (10 W, 1800 K, CRI > 70) to 16,276 lm (100 W, 4000 K, CRI > 70)
	Luminaire luminous efficacy	Up to 160 lm/W (depending on the model and lens)
	Energy efficiency class	> A3+
	Operating temperature	Operating temperature: -40°C to +50°C; Storage temperature: -40°C to +80°C
	Estimated service life	L98 B10: > 100,000 h (TJ = 85 °C – IF ≤ 500 mA); L90 B10: > 120,000 h (TJ = 85 °C – IF ≤ 500 mA); L80 B10: > 270,000 h (TJ = 85 °C – IF ≤ 500 mA); L70 B10: > 450,000 h (TJ = 85 °C – IF ≤ 500 mA);
	Certifications	CE, RoHS, ENEC pending, IP66, IK09, 1,000-hour salt spray test, photobiological safety, photometric certification, EOS-free, VOC-free.
OPTICAL SPECIFICATIONS OPTICAL	Light source	16, 24 or 36 5050 high-power LEDs powered by a constant current of less than 500mA
	Optical system	Independent and replaceable PMMA LED and optical modules
	Source luminous flux	From 1,341 lm (10 W, 1,800 K, CRI > 70) to 18,882 lm (100 W, 4,000 K, CRI > 70)
	Source luminous efficacy	Up to 215 lm/W (depending on the model)
	Colour temperature	Standard: 3,000K; <i>Optional: 1,800K, 2,200K, 2,700K, 4,000K, 5,000K, 5,700K</i>
	Colour Rendering Index	Standard: CRI > 70; <i>Optional: CRI > 80, CRI > 90</i>
	Photometry	<i>asymmetrical, rotationally symmetrical, elliptical, symmetrical, for pedestrian crossings</i>
	Optical Efficiency	Up to 87% (depending on the model)
	Photometric classes	Luminous intensity class G*2; Glare index class D.6
	Photobiological safety	Risk class: R1; IR and UV radiation: absent
ELECTRICAL SPECIFICATIONS ELECTRICAL	Power supply	175/264 V AC – 50/60 Hz Electronic power supplies built into the unit's electrical compartment with efficiency $\eta > 95\%$ and power factor PF > 0.97 (Active PFC)
	Electrical connection	H07RN-F power cable with optional IP66/IP68 electrical connector
	Insulation class	Standard: Class II; <i>Optional: Class I</i>
	Electrical protection	Standard: surge protection up to 10 kV M.C. and 6 kV M.D. <i>Optional: additional protection with an SPD device incorporated into the electrical compartment, protecting the unit up to 10 kV, 12 kV or 20 kV in both M.C. and M.D.</i>
CHARACTERISTICS MECHANICAL	Materials	Housing and brackets: die-cast aluminium with integrated heat sink; Screen: 5mm-thick extra-clear flat tempered glass; Optics: Modular PMMA lenses; Reflector: white PC; Seals: silicone Fasteners: AISI 304 stainless steel;
	Colour	Standard: Graphite Black RAL 9011; <i>Optional: other customisable RAL colours on request</i>
	Protection rating	Optical compartment: IP66; Electrical compartment: IP66; Impact resistance rating: IK09
	Wind exposure	< 0.100 m ² ;
	Housing Dimensions and Weight	Housing Dimensions: Ø410 x H91 mm; Weight: 7.1 – 11.0 kg
	Packaging	Model S: 500 x 500 x 125 mm; Weight: 7.1 kg; 1 pc/box; Model T: 550 x 510 x 115 mm; Weight: 7.4 kg; 1 piece per box; Model P: 540 x 505 x 115 mm; Weight: 7.5 kg; 1 pc/box; Model F: 580 x 530 x 190 mm; Weight: 11.0 kg; 1 piece per box;



Lighting specifications

VENERE PRO							
Product Item Code (Vm-wwW-xyyy-zzzz-rrrr)*	Power	Nominal Luminous Flux (xyyy)					
		4070 5070	3070	2770 4080 5080	3080	2270 2780	1870 2790
	[W]	[lm]					
Vm-50W-xyyy-zzzz-rrrr	10.1	1,909	1,801	1,765	1,641	1,592	1,341
	15.3	2,866	2,708	2,651	2,469	2,395	2,018
	20.6	3,807	3,601	3,521	3,282	3,184	2,683
	25.2	4,733	4,479	4,378	4,082	3,960	3,338
	30.5	5,644	5,344	5,221	4,871	4,725	3,983
	35.4	6,454	6,112	5,969	5,571	5,404	4,555
	40.3	7,253	6,909	6,709	6,263	6,075	5,121
	45.4	8,305	7,868	7,681	7,172	6,957	5,865
	50.3	9,083	8,607	8,402	7,845	7,610	6,415
Vm-75W-xyyy-zzzz-rrrr	20.9	4,299	4,063	3,977	3,727	3,592	3,027
	25.3	5,149	4,869	4,763	4,466	4,305	3,628
	30.4	6,130	5,799	5,670	5,320	5,127	4,321
	35.7	7,100	6,719	6,567	6,164	5,941	5,007
	40.2	7,922	7,500	7,328	6,880	6,631	5,589
	45.5	8,873	8,402	8,207	7,708	7,429	6,262
	50.9	9,815	9,295	9,078	8,528	8,218	6,928
	55.2	10,329	9,767	9,554	9,225	8,636	7,281
	60.6	11,426	10,842	10,268	9,493	9,491	7,825
	65.4	11,994	11,344	11,094	10,715	10,030	8,456
	70.1	12,998	12,319	11,796	11,395	10,666	8,991
	75.7	13,648	12,935	12,284	11,792	11,439	9,359
Vm-100W-xyyy-zzzz-rrrr	70.3	13,796	13,064	12,760	11,901	11,551	9,737
	75.5	14,722	13,943	13,617	12,702	12,328	10,393
	80.1	15,523	14,703	14,358	13,395	13,000	10,959
	85.9	16,519	15,647	15,279	14,255	13,835	11,663
	90.6	17,310	16,380	15,984	14,904	14,472	12,204
	95.3	18,098	17,146	16,739	15,620	15,160	12,780
	100.0	18,882	17,890	17,464	16,298	15,818	13,335

***Product code nomenclature**

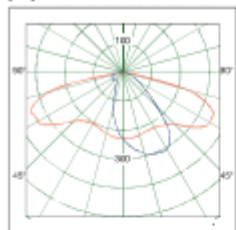
“m” = Available versions: P, F, S, T

Photometric data

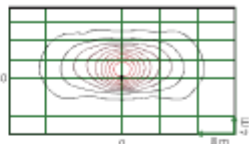


Asimmetrica

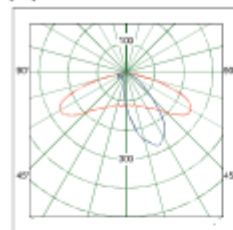
[A1] - Asimmetrica 150°x50°



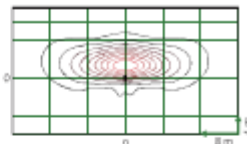
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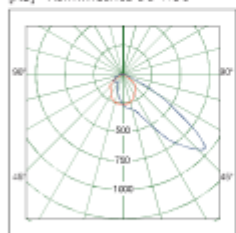
[A2] - Asimmetrica 140°x45°



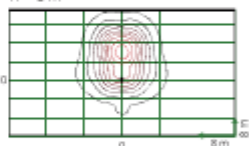
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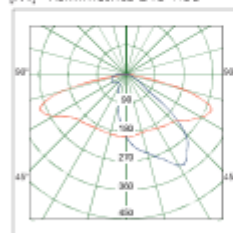
[A3] - Asimmetrica 90°x60°



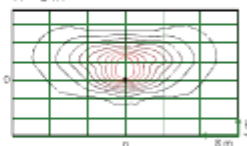
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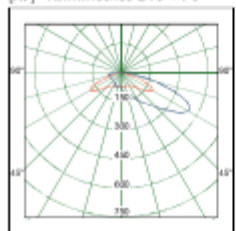
[A4] - Asimmetrica 145°x55°



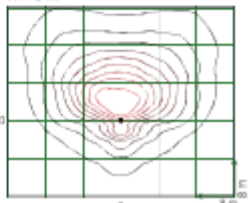
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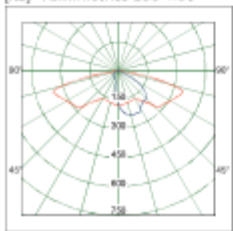
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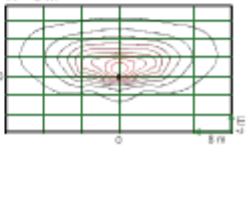
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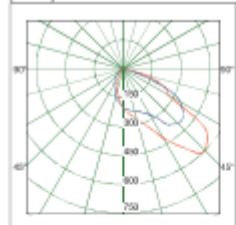
[A8] - Asimmetrica 155°x60°



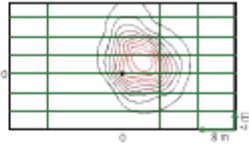
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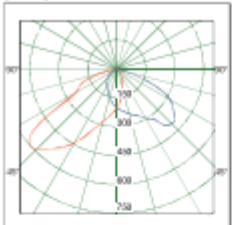
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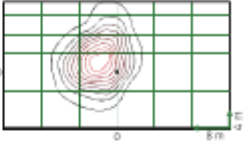
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[PCSX] - Asimmetrica SX 65°x60°

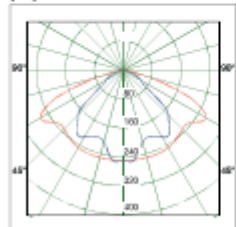


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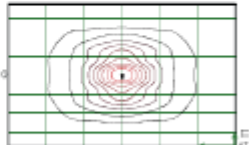


Ellittica

[E4] - Ellittica 145°x110°

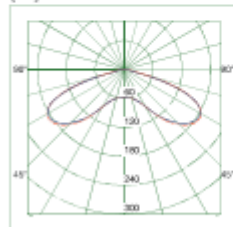


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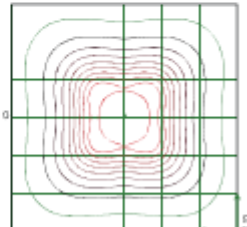


Rotosimmetrica

[R1] - Rotosimmetrica 140°x140°



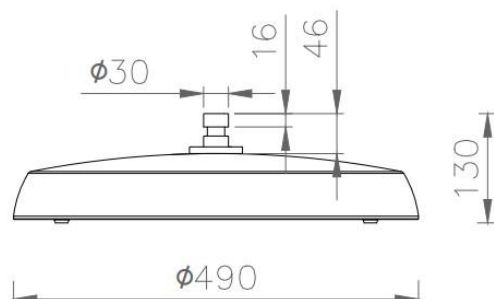
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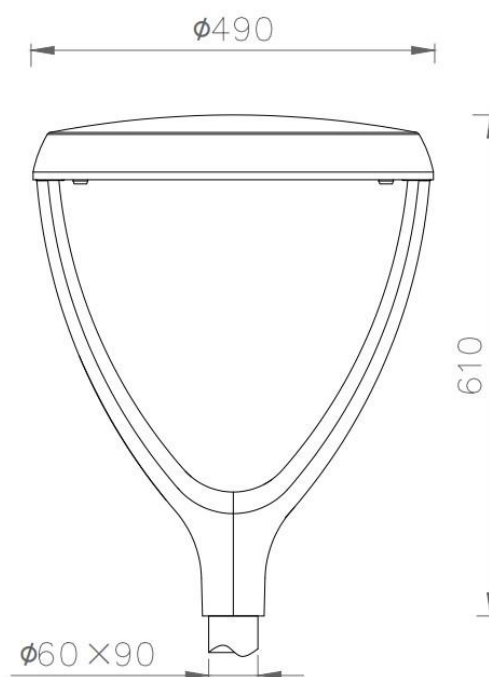
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Technical Drawings

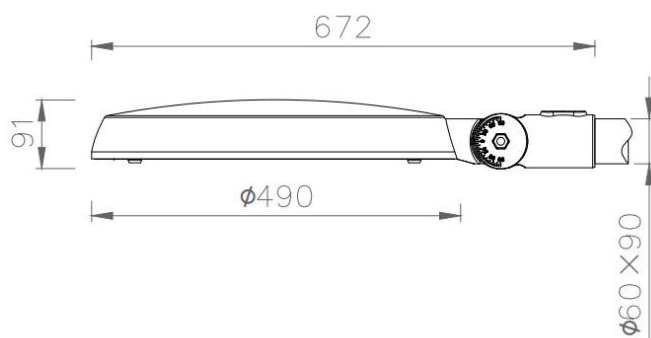
VERSION P – Pole-top or side mounting



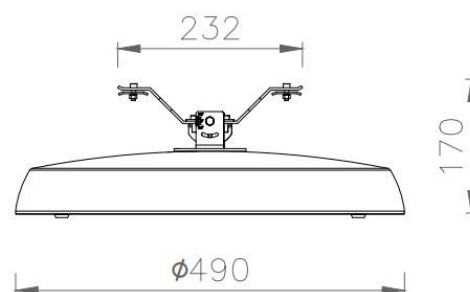
VERSION F – Surface-mounted



VERSION S – Suspended mounting



T VERSION – T-bar mounting



Product Images

VERSION P – Pole-top or side-mounted on an arm



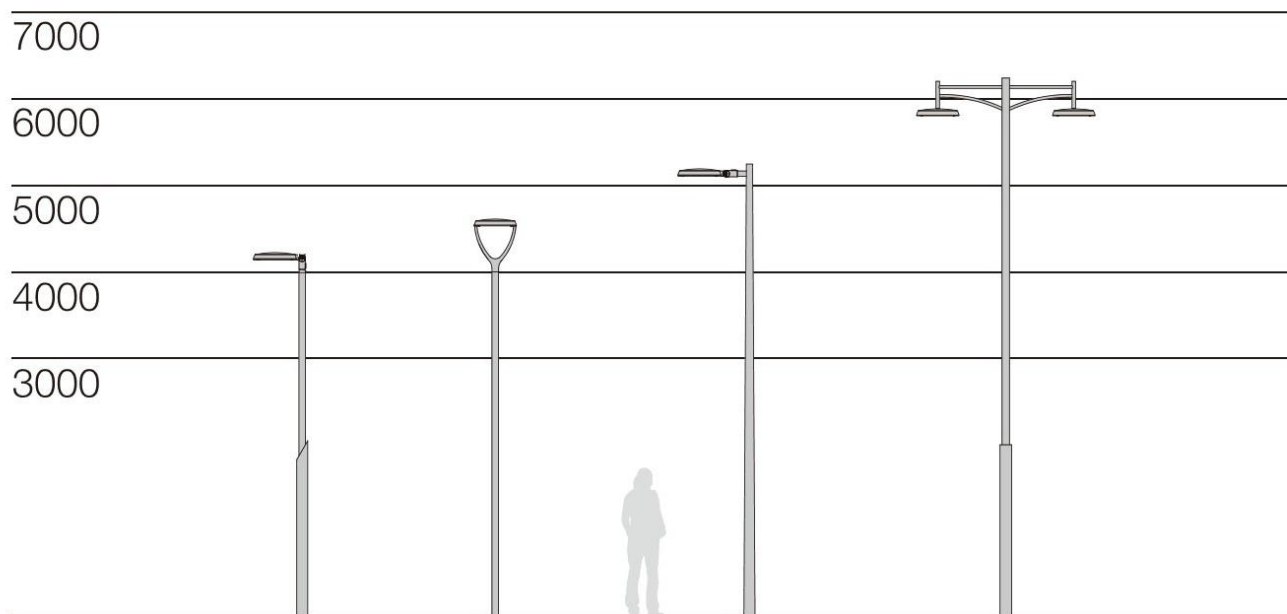
VERSION F – Mounted on a pole or arm



S / T VERSIONS – Suspended mounting



Installation Options



Installations

VERSION P – Side-mounted on an arm



VERSION P – Pole-top mounting



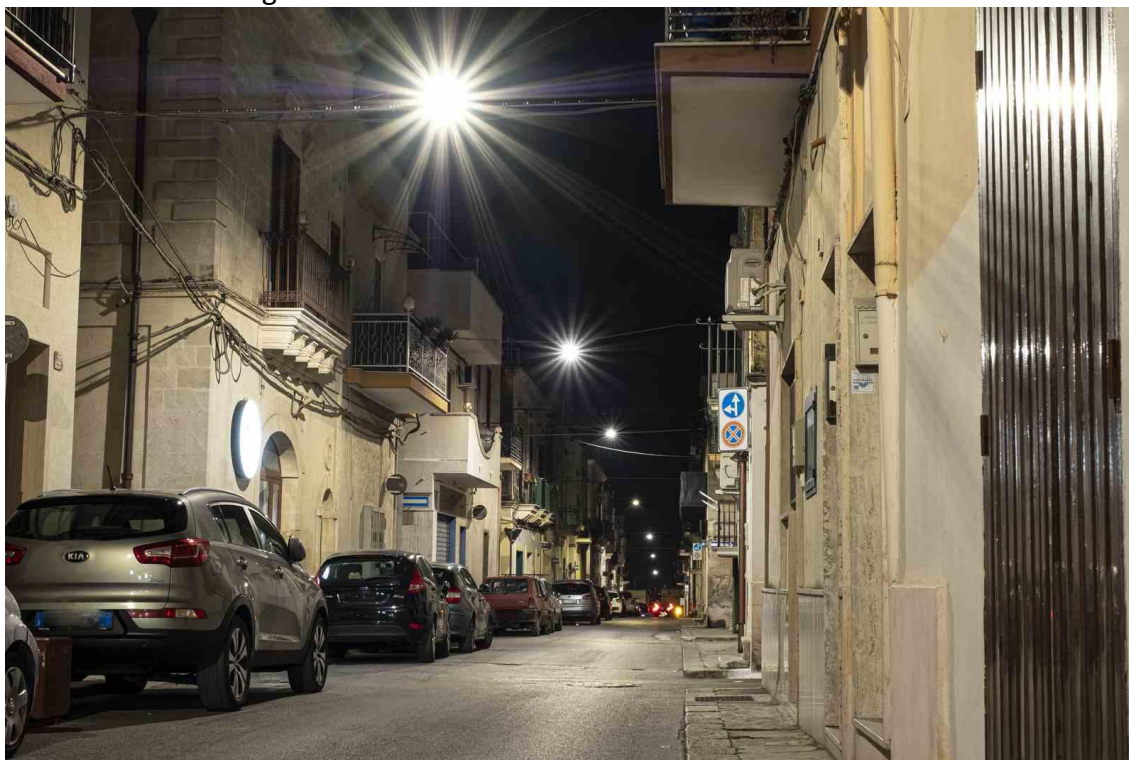
Installations

VERSION S – Suspended Mounting



Installations

VERSION T – Truss Mounting



Installations

VERSION F – Pole- or Arm-Mounted Installation

