

VOLTANA

LED LIGHTING
FOR ALL



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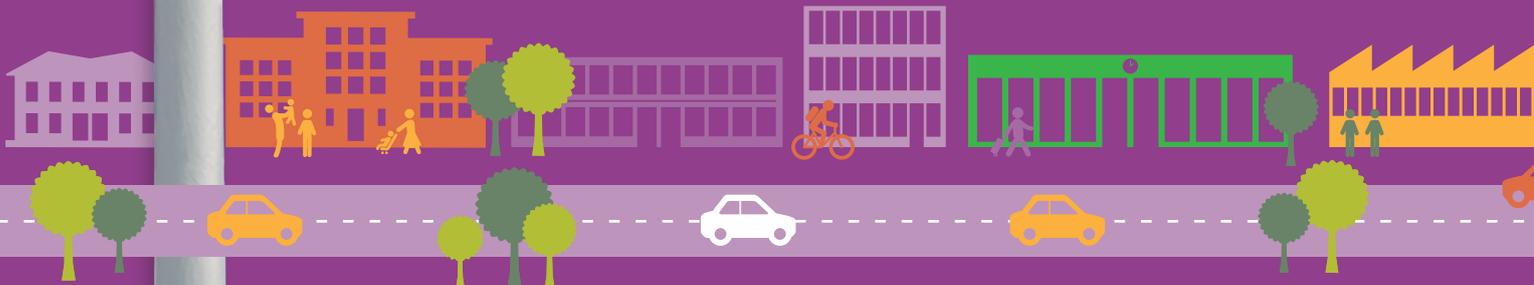
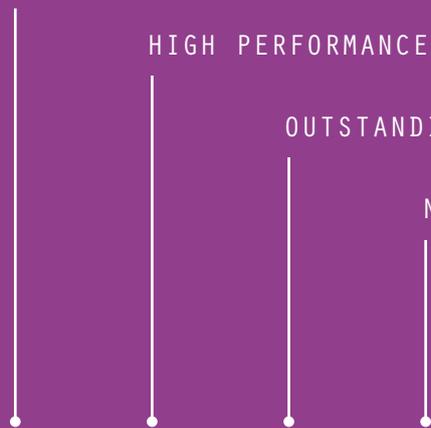


COST-EFFECTIVE

HIGH PERFORMANCE

OUTSTANDING PAYBACK

NO MAINTENANCE



Schröder



VOLTANA

VOLTANA

THE ULTIMATE, COST-EFFECTIVE,
PERFORMING FAMILY OF LUMINAIRES
THAT PAYS FOR ITSELF

OFFERING THE FASTEST PAYBACK FOR LIGHTING ANY TYPE OF RURAL OR URBAN LANDSCAPE WAS THE DRIVING FORCE BEHIND THE DEVELOPMENT OF THE VOLTANA RANGE. OUR MOTTO : LED LIGHTING IS FOR ALL.



UNCOMPROMISED QUALITY

Based on the proven LensoFlex®2 LED engine, Voltana delivers sustainable lighting solutions that dramatically reduce energy consumption and improve lighting levels.

MINIMUM INVESTMENT

Available in 5 sizes - with a lumen package ranging from 1,000 up to 18,900 lumens - with numerous highly efficient lighting distributions and various control options, the Voltana range can meet all your road and urban lighting needs with the lowest investment.

FAST PAYBACK, LONG-LASTING SAVINGS

With a lifespan of 100,000 hours, the Voltana enables you to avoid from 4 up to 6 lamp changes compared to conventional lighting sources. By the time that you would have had to send a maintenance team to replace a lamp, the Voltana will have already won the Total Cost of Ownership battle against the HID solution. Voltana first pays for itself - and then goes on to provide huge returns over a long period.



VOLTANA 5



VOLTANA 4



VOLTANA 3



VOLTANA 2



VOLTANA 1



ROAD + URBAN

PEDESTRIAN AREAS

Streets, paths and bike paths



45/50W



VOLTANA 1

STREETS

Residential streets

Shared zones, commercial streets in urban areas



70W



VOLTANA 2



100W



VOLTANA 3

ROADS

Rural roads

Urban roads



150W



VOLTANA 4



250W



VOLTANA 5

HID substitute

OTHER ENVIRONMENTS WHERE VOLTANA OFFERS KEY CUSTOMER BENEFITS



TRANSIT

Car parks, access roads, pedestrian areas, compounds ...



INDUSTRY

Car parks, access roads, compounds, gates, outdoor relaxing areas, docks ...



CAMPUS

Petrol stations, hospital grounds, residential developments, university campuses ...



SPORTS

Car parks, access roads, pedestrian areas, compounds, training grounds ...



PERFORMING

USING STATE-OF-THE ART **LED TECHNOLOGY**, THE VOLTANA **OUTPERFORMS ANY TYPE OF HID LUMINAIRE**

- › **High efficacy** (system): up to 115lm/W
- › Colour rendering index (CRI) > 70
- › **Advanced photometries** that allow the spacing between poles to be increased with perfect uniformity



THE VOLTANA RANGE IS THE **MOST DEMAND**

- › ENEC
- › ETL / UL
- › LED Lightin



VERSATILE

THE VOLTANA RANGE IS **ULTRA-FLEXIBLE** TO OFFER THE IDEAL SOLUTION FOR YOUR LIGHTING NEEDS

- › Lighting distributions adapted **from very narrow to extra wide roads/areas**
- › Multiple lumen packages thanks to **5 sizes and 4 driving currents** (350mA, 500mA, 700mA and 1A)
- › **Numerous control options**
- › Designed for **side-entry and post-top** (option) mounting
- › Precise on-site setting thanks to **an incorporated inclination system** (+5° to -10°)
- › **Resists extreme temperatures** (Ta up to 55°C)



BUILT TO LAST

THE VOLTANA HAS BEEN DESIGNED TO PROVIDE **LONG-LASTING PERFORMANCE**

- › **Optimised heat dissipation** to maximise the components lifespan
- › **Integrated thermal protection** with dimming features in case of overheating
- › **Surge protection** to preserve the luminaire from voltage spikes (4kV standard, 10kV optional)
- › **High tightness level** (IP 66) to prevent internal damage or performance loss
- › **Robust materials** - aluminium, galvanised steel and tempered glass - for a high impact protection level (IK 08)
- › **Certified for 3G vibration** (with mounting)
- › **Wind velocity resistance** up to 180 km/h
- › **No maintenance** needed



WITH **5 S**
TARGETS

- › **Opti**
- › **Prec**
- › **Cons**
- › **Use**
an o

COMPLIANT

RANGE HAS BEEN **CERTIFIED BY THE**
RELEVANT EU AND US ORGANISMS

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SOCIAL

THE VOLTANA PROVIDES **MANY COLLECTIVE BENEFITS**

- › Enhanced visibility with white light offering a **high contrast**
- › Increased **safety for both pedestrians and motorists**
- › Optional **light-on-demand features** to offer light when and where it is really needed
- › **Less traffic disturbances** due to zero maintenance needs and optional monitoring features
- › Contribution to the effective management of finances and to the **responsible use of energy**



SUSTAINABLE

FROM THE BEGINNING, THE VOLTANA HAS BEEN DEVELOPED WITH AN **ECO-FRIENDLY PHILOSOPHY**

- › **Recyclable materials** (aluminium, steel and glass)
- › **Product Environmental Profile** (PEP) to minimise the ecological footprint
- › Providing **high CO₂ savings** (energy and maintenance)
- › No light pollution (**ULOR 0%**) thanks to precise photometries



SMART

WITH **NUMEROUS CONTROL OPTIONS**, THE VOLTANA OFFERS OPPORTUNITIES TO CREATE UNLIMITED LIGHTING SCENARIOS AND TO IMPROVE OPERATIONAL MANAGEMENT

- › Available with **1 - 10V, DALI or custom dimming profile**
- › **Constant Light Output** (CLO) feature to automatically compensate the lumen depreciation
- › Can **operate in a limited independent network or the global network** of a city through wireless communication. Scenarios can be enhanced by external sensors.
- › **Available with a photocell** or a NEMA socket

ACCURATE

SIZES AVAILABLE, THE VOLTANA PRECISELY
MEETS YOUR SPECIFIC NEEDS

Optimised investment with minimum materials
Customised adjustment to the real needs
Consistent design for your entire project
Installer-friendly for the installer (supplied pre-wired as an option)

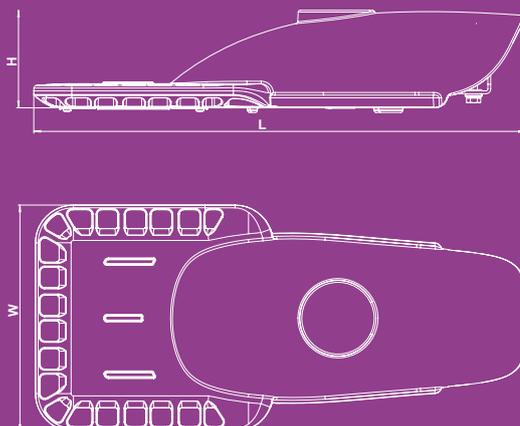
KEY CHARACTERISTICS

VOLTANA

Installation height	4 to 12m				
Typical luminaire output flux (range)*	Voltana 1 1,000 to 2,400lm	Voltana 2 2,000 to 4,800lm	Voltana 3 3,100 to 6,800lm	Voltana 4 4,100 to 9,500lm	Voltana 5 8,200 to 18,900lm
Power consumption (W)	10 to 29W	20 to 56W	28 to 80W	37 to 110W	75 to 212W
Lifetime residual flux @ tq 25°C	@100,000h Current 350 and 500mA: 90% Current 700mA: 80% Current 1A: 70%				
Colour temperature	Neutral white (Warm white: optional)				
Optical compartment tightness level	IP 66 (**)				
Control gear tightness level	IP 66 (**)				
Impact resistance (glass)	IK 08 (***)				
Nominal voltage	120 - 277V - 50 - 60Hz				
Electrical class	EU I or II (**)			US 1	
Weight	4kg	5kg	6kg	8kg	12kg
Materials					
Body	High-pressure die-cast aluminium				
Protector	Glass				
Colour	RAL 7038 Any other RAL colour upon request				

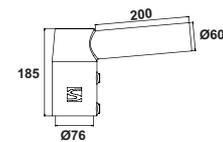
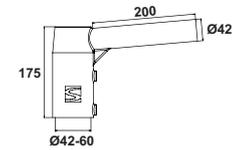
(*) The typical flux is an indicative luminaire flux @ tj 25°C. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution). The flux depends on the type of LEDs used and is likely to change in accordance with the continuous and rapid developments in LED technology. To follow the progress of the luminous efficiency of the LEDs used, please visit our website. (**) according to IEC - EN 60598 - (***) according to IEC - EN 62262

	Voltana 1	Voltana 2	Voltana 3	Voltana 4	Voltana 5
L	501mm	518mm	641mm	555mm	705mm
W	181mm	240mm	240mm	380mm	480mm
H	87mm	108mm	111mm	112mm	109mm

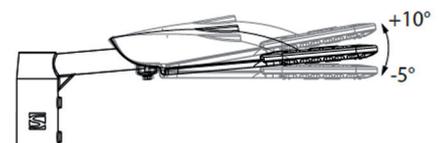
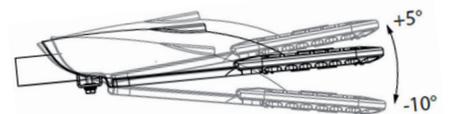


Design varies between different sizes

POST-TOP ADAPTER



TILT SETTINGS



REPLACE YOUR CURRENT LIGHTING SCHEME AND MAKE IMMEDIATE SAVINGS WITH VOLTANA!

By simply switching sodium luminaires to Voltanas, the energy savings are already impressive. In this plug-and-play scenario, control options - which are impossible or very limited for sodium luminaires - are not included. According to the different scenarios, they can substantially increase savings whilst offering safety and comfort for all users and improving the operational management of the whole scheme.

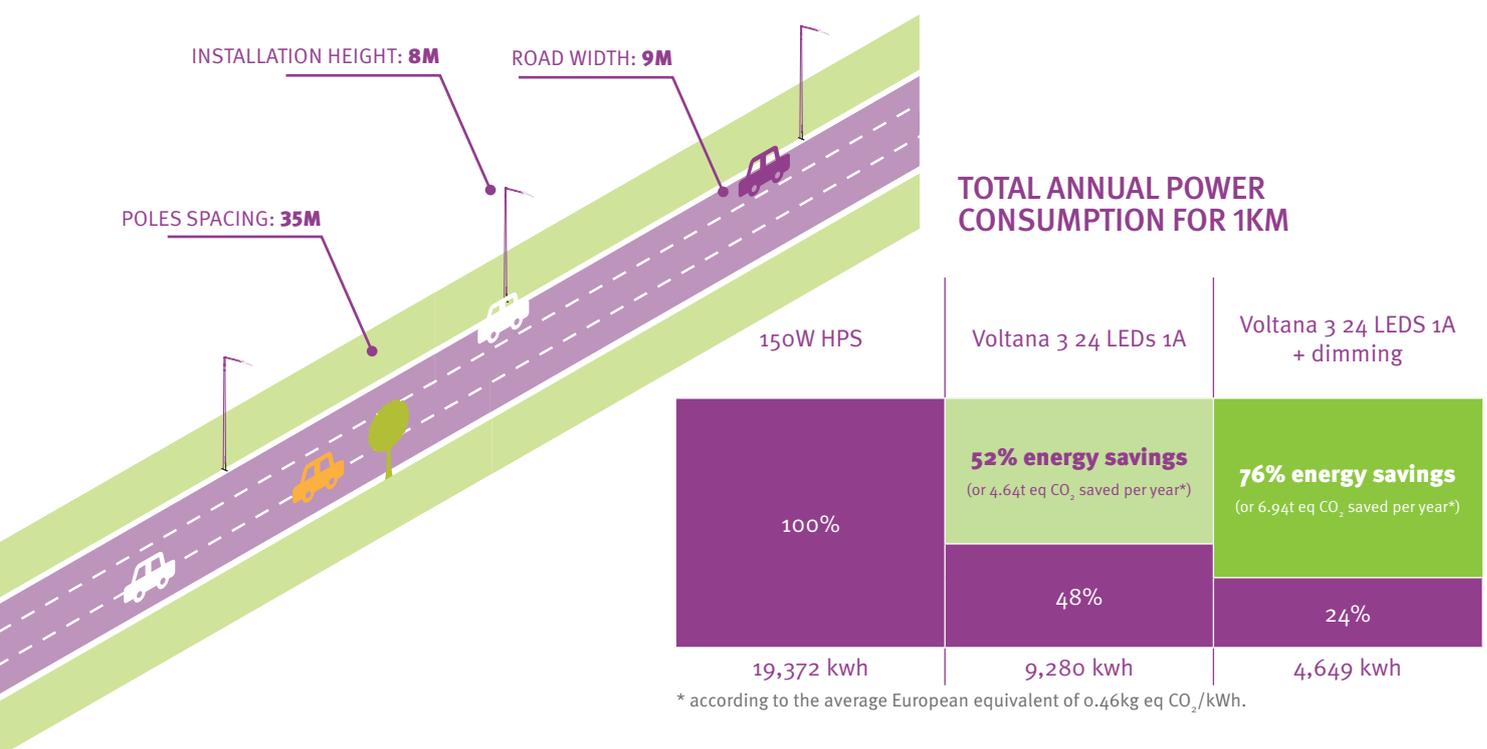
P5-P2 pedestrian areas		P1 pedestrian areas		M6-M5 classified roads		M4 classified roads		M3 classified roads		M2 classified roads	
HPS 70W luminaire	Voltana 1	HPS 100W luminaire	Voltana 2	HPS 100W luminaire	Voltana 2	HPS 150W luminaire	Voltana 3	HPS 150W luminaire	Voltana 4	HPS 250W luminaire	Voltana 5
78W ^(*)	63% energy savings 29W ^(*)	110W ^(*)	50% energy savings 56W ^(*)	110W ^(*)	50% energy savings 56W ^(*)	167W ^(*)	52% energy savings 80W ^(*)	167W ^(*)	34% energy savings 110W ^(*)	280W ^(*)	25% energy savings 212W ^(*)

(*) Total system power consumption

CASE STUDY

THE FLEXIBILITY YOU NEED TO DIVIDE YOUR ENERGY BILL BY 4

With a minimised investment (24 LED version 1A), the Voltana 3 offers a very competitive solution compared to HPS 150W luminaires for lighting this typical M3 classified road (according to CIE 115) with a return on investment in less than 4 years and energy savings of up to 76%.





SAFETY



WELL-BEING



SUSTAINABILITY



SAVINGS



SOLUTIONS



Schröder



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