



THORN

LIGHTING

VOLUPTO

The perfect focal glow



# ELEGANCE AND INTELLIGENCE

## FOR THE URBAN SPACE

Volupto's design blends the old and the new. Its elegant appearance and gentle glow bring safety and identity to any urban space, while the fully integrated motion sensor and wireless connectivity options provide the latest in intelligence.



Building  
surrounds



Parks,  
promenades  
& pathways



Pedestrian  
areas & cycle  
paths



Urban &  
residential  
streets

# A GENTLE GLOW THAT BRINGS SAFETY

## AND IDENTITY TO URBAN SPACES

The Focal Glow is the follow spot on the modern stage. It is the pool of light at your favourite reading chair. It is the shaft of sunshine that warms the end of the valley. It is candlelight on the face, and a flashlight on a stair... Focal glow draws attention, pulls together diverse parts, sells merchandise, separates the important from the unimportant, helps people see.

**Richard Kelly – American lighting designer (1910 – 1977)**





# HIGH-TECH MIXING CHAMBER

The mixing chamber inside Volupto is specially designed to maximise efficiency and minimise glare. With a few simple elements Volupto creates the perfect mix of light, for an unobtrusive luminous effect.

## OPTICAL ENGINE

determines the light output and distribution

## DIFFUSER CONTROLS THE GLARE

and increases the visual comfort



## 2 BOWL ESTHETICS:

**01 CLEAR**  
to reduce obtrusive light

**02 SEMI FROSTED**  
to improve visual comfort

THREE-STEP SOLUTION TO

# REDUCING LIGHT POLLUTION



2

## CONTROL

Only use the light you need

3

## SHIELD

Keep light where you want it



3000K

2700K

2200K

1

## COLOUR TEMPERATURE

Use the right colour of light

Volupto version U1 meets the product requirements of the documents CIE 150 Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations and the Institution of Lighting Professionals Guidance Notes for the Reduction of Obtrusive Light within rural, urban and commercial areas, namely ULOR < 2.5%. In addition the available colour temperatures of less than or equal to 3000 K meet additional local authority product requirements.

1

## COLOUR TEMPERATURE

Warm colour temperatures (2200K, 2700K, 3000K) minimise disruption to the nocturnal ecosystem, while creating a comfortable atmosphere.

2

## CONTROL

Adjust light levels based on time of day or night and presence of people or vehicles. Control options including Radio Frequency connectivity, motion detection and corridor function reduce light pollution and save energy.

3

## SHIELD

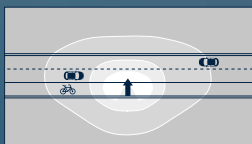
The luminaire optical system is designed to ensure a perfect cut-off, for reduced ULOR values so that light is not emitted upwards into the sky.



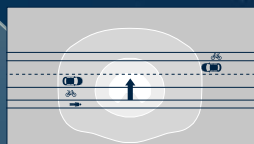
INTEGRATED OPTICAL SYSTEM (LV) TO PREVENT OBSTRUSIVE LIGHT

### LOUVRE OPTIC

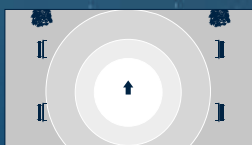
When having the R-PEC optic combined with a louvre, the back lighting effect of the luminaire is cut by up to 20%. This feature minimizes spill light and avoids obtrusive light towards buildings for a better quality of life of residents at night, with no impact on the design of the luminaire.



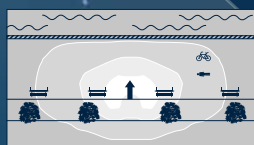
EXTENSIVE STREET (ES)  
WITH DIFFUSER



EXTRA WIDE ROAD (EWR)  
WITH DIFFUSER



RADIAL SYMMETRICAL  
COMFORT (RSC)  
WITHOUT DIFFUSER



STREET COMFORT (CST)  
WITHOUT DIFFUSER

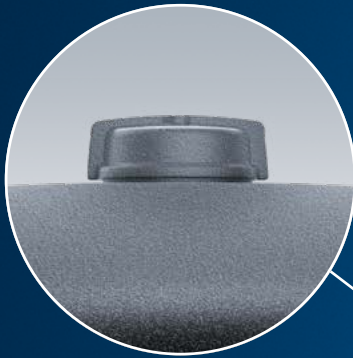
### VARIETY OF LIGHT DISTRIBUTIONS

Volupto balances vertical and horizontal illumination to ensure outdoor spaces are lit comfortably. It can be fitted with a broad range of optics, R-PEC for asymmetrical street light distribution, A-PEC for asymmetrical and for perfect rotational symmetric light distribution, so it can be used to fulfil all the outdoor lighting requirements of a modern city center, while always keeping a consistent design language.



# A TRULY INTELLIGENT LUMINAIRE

The fully integrated motion sensor, together with new connectivity options, makes Volupto a truly intelligent luminaire, ready for the demands of the urban space. Volupto comes with Zhaga interface as standard, for easy and quick connectivity, now or later.



## ZHAGA SOCKET

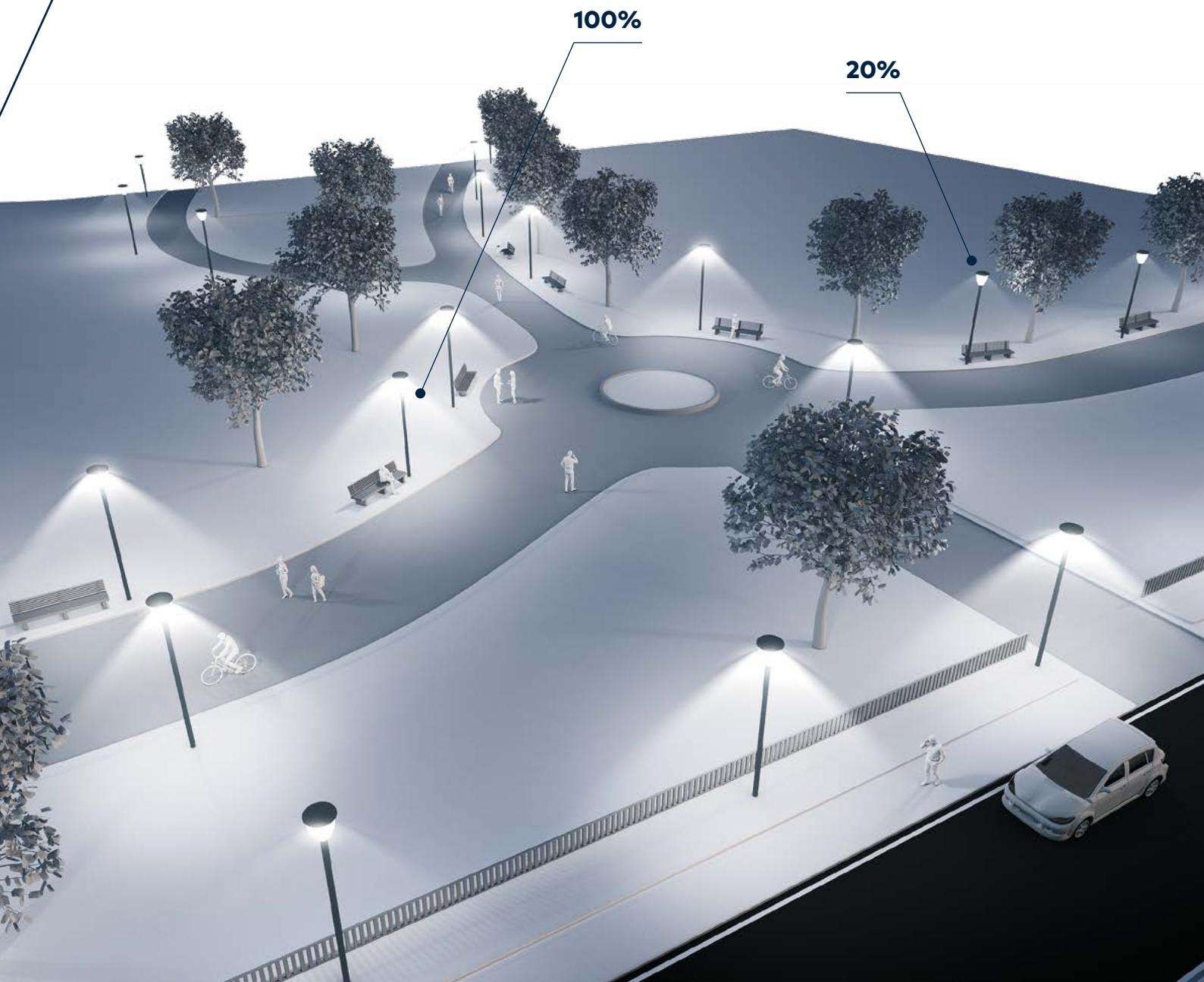
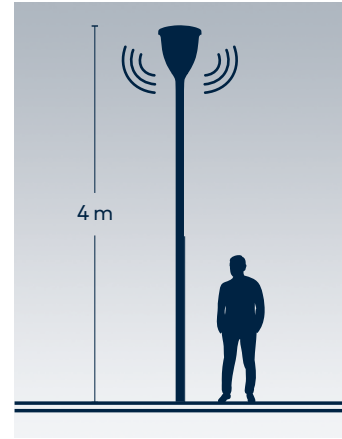
Zhaga provides ready access to a wide choice of control solutions. This makes it easy to connect Volupto to the digital world at any time, and ensures compatibility with advanced lighting features that help you plan, monitor and control your outdoor lighting network.





## INTEGRATED MOTION DETECTION SENSOR

The high-sensitivity motion detector can sense people, bicycles and slow-moving vehicles. From a typical mounting height of 4 metres, the sensor can cover an area 5 metres wide. When nothing is detected, power stays at 20% to preserve the night environment. When motion is detected, the luminaire dims up to 100%, with a five-minute hold time making sure people feel secure and relaxed. The light then ramps back down to 20% over 30 seconds. These settings can be modified on request.

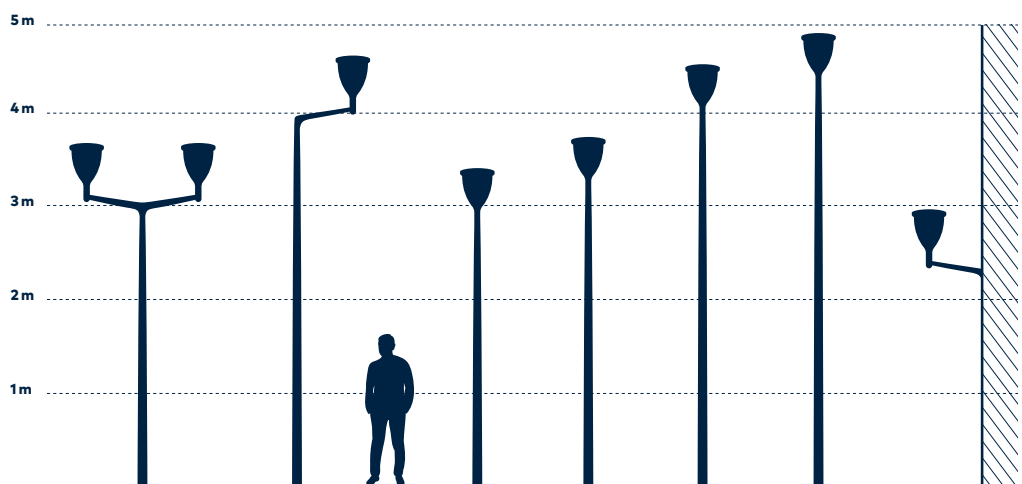


# INSTALLATION POSSIBILITIES



Volupto has a large number of possible mast configurations, styles, mountings and heights.

- Low weight for easy manipulation
- Pre-wired for ease of installation (one tool)
- 120° fixing screws for perfect adjustment on the pole
- Maintenance with access from above (one tool)
- Volupto features a choice of options to contribute to comfort and wellbeing in urban and residential streets, city centres, pedestrian and cycle paths, parks and promenades.



DISCOVER THE

# VOLUPTO FAMILY



	SEMI FROSTED	CLEAR		
	WITH DIFFUSER	WITH DIFFUSER	WITHOUT DIFFUSER	U1
	< 5%* *up to 5,5% with WST and RS optics	< 4%	< 3%	< 1%
	Environmental friendly luminaire			
	12 LEDs / 18 LEDs / 24 LEDs			
	UP TO 7700 lm			
	UP TO 159 lm/W			
	2200K / 2700K / 3000K / 4000K			
<b>CRI</b>	70 / 80			
	IP66			
	-35 to +50 °C			
	IK10			
	<b>BASE AND CANOPY CORROSION RESISTANT</b> die cast powder-coated aluminium for C5 environments			
	UV Resistant			
	100 000h L90@25°C and @50°C			
	R-PEC and A-PEC			
	T60 / T76			
	<b>TEXTURIZED ANTHRACITE</b> (close to RAL 7043 and 14 additional colors as standard)			
	10 kV			

**AS STANDARD:** DALI dimmable, Bi-Power Power Line, Constant Light Output, Light Reduction Twin Phases, Zhaga interface, Motion detection master with Zhaga interface

**ON REQUEST:** Radio Frequency, CityTouch



