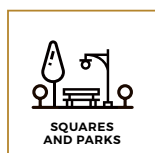
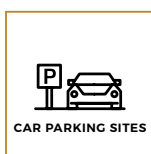
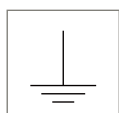


BART

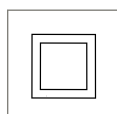


In the rich family of Lightronics conical luminaires the BART fronts a rich tradition. The luminaire has a high-quality finish light cover and provides a comfortable, uniform light scene without glare, in combination with high yield. Circularity played a very important role in the design, which has resulted in all the components being fully recyclable.

STANDARD



OPTION





BENEFITS

- ▶ Even light scene without glare thanks to the frosted light cover
- ▶ Demonstrable reliability
- ▶ High impact resistance, can withstand shocks of up to 20 joules
- ▶ Long lifespan and light yield retention
- ▶ Simple to equip with the latest LED technologies through a Unicliq unit
- ▶ Adhesive-free assembly, all components can be completely recycled

SMART LIGHTING

Compatible with any Zhaga-D4i system by using the universal Zhaga-book 18 connector



Want to speak to a specialist?
Click on / scan the QR code!

GENERAL INFORMATION

Recommended installation height	What is the recommended installation height?	3 to 4 metres
Pole diameter	What is the pole diameter?	60 mm
CE Marking	Does the product comply with the legal requirements for safety, health and the environment (CE marking)?	Yes
ENEC certified	Does the product comply with European safety standards ENEC?	Yes
RoHS certified	Does the product comply with the requirements as stated in the RoHS guidelines? RoHS stands for Restriction of Hazardous Substances	Yes

HOUSING AND FINISH

Housing material	From what material is the luminaire's housing made?	Top cover UV stabilised polycarbonate Pole top collar: cast aluminium
Light cover	From what material is the light cover made?	UV stabilised polycarbonate, frosted
Colours	In which RAL colours is the product available?	RAL 7038 (Grey) RAL 9005 (Black)
Dust and humidity tightness	Classification of resistance to dust and humidity?	IP66
Impact resistant	What is the impact resistance of the luminaire?	Housing: IK10 (20 Joules)
Upgrade possibilities	Possibility for upgrading or replacing components	Unicliq unit: retrofit LED unit for existing luminaires Opplus kit Zhaga: LED unit with top cover and Zhaga Book 18-connector for smart readiness
Connection cable	Which cable is supplied as standard?	H05 BQF 3x1 mm²

OPERATING CONDITIONS

Operating temperature range	What is the operating temperature range?	- 40 °C to + 35 °C Protected from high temperatures
Lifespan luminaire	What is the specified number of burning hours?	100,000 hours at 25 °C 25 years at 4,000 burning hours per year
Light intensity retention LED module	After the number of burning hours, L(x) indicates the percentage of light retention and B(x) the percentage number of LEDs that have deteriorated by more than the specified percentage.	L96/B10
Failure classification luminaire	What is the maximum failure rate for the specified lifespan?	F10

ELECTRICAL INFORMATION

Insulation class	With which electrical safety class does the luminaire comply?	I II (option)
Rated voltage	What is the rated voltage in volts?	230V AC
Inrush current	How many luminaires can be run on an MCB 16A B-type fuse?	Not dimmable 48 max. D4i 48 max.
Surge	To what level is the luminaire protected from surge as standard?	10kV
Active surge protection	What is the optional protection for surge?	15kV/7.5kA (Phase-Zero) 10kV/5kA (F/N-Earth)
Zhaga	Is the luminaire suitable for smart applications employing Zhaga?	Yes (option) Through the Zhaga Book 18-connector in the upper cover
Control protocols	With which control protocols is the luminaire compatible?	DALI-2 (option)

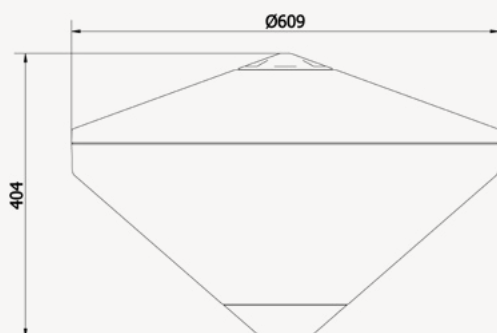
OPTICAL INFORMATION

Lumen range (LED board)	Various LED boards and with lumen range? Lumen in area dependent on optics. Power and lumen per colour/CRI in annex)	800 / 3,000 Lumen (LED2WELL Core 16) 2,000 - 3,000 Lumen (LED2WELL Core 32)
LED colour temperature	With which colour temperatures is the luminaire available?	Amber 2,700K (extra warm white) 3,000K (warm white) 4,000K (cool white)
Colour rendering index (CRI)	To what extent does the light source faithfully reproduce the colours of the objects (scale 0-100)?	70 80 (excepting amber)
Upper Light Output Ratio(ULOR)	Which percentage of the light distribution from the luminaire shines upwards (above the horizontal line of the luminaire)?	<5 depending on the model
LED-module	With which light technology is the luminaire available?	LED2WELL Core
Optics	Which light bundles are possible? (Polar diagram in annex)	CODE 6 Circular beam CODE 7 Asymmetric CODE 8 Symmetric CODE 10 Asymmetric (wide profile) CODE 14 Asymmetric narrow beam (little backlight) CODE 15 Symmetric narrow beam (back passages)

DIMENSIONS IN MM



BART

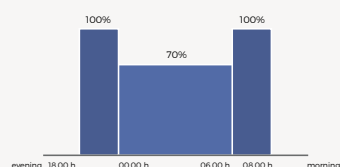


DIMENSIONS AND MOUNTING

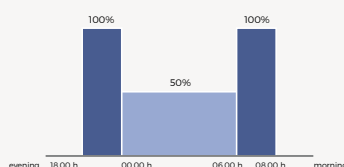
Height x Diameter	404 x 609 mm
Weight in kg (basic model)	8 kg (depending on model)
Mounting possibilities	Pole top mounted: 60 mm Wall bracket mounted: 60 mm



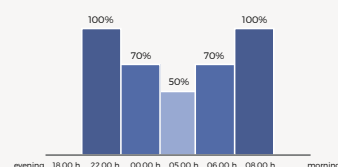
In addition to using LED, even more energy can be saved or light pollution avoided employing BART luminaires supplied with a factory-set dimming schedule (1A, 2A, 3A, 4A or 5A). The BART luminaire will autonomously dim when appropriate once the night rhythm has been established and return to 100% in the morning.



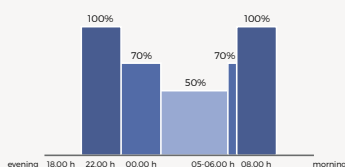
1A - 15% ENERGY SAVING



2A - 23% ENERGY SAVING

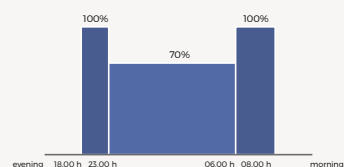


3A - 28% ENERGY SAVING



4A - 34% ENERGY SAVING

Most energy-saving dimming schedule



5A - 20% ENERGY SAVING

Disclaimer: whether the percentages for the dimming schedules are actually achieved is partly dependent on the chosen configuration for the luminaire

CONSTANT LIGHT OUTPUT (CLO)

All BART luminaires support CLO facilities, in other words the typical light degradation of about 10% over the lifespan can be continually compensated over the lifespan through gradually increasing the power to ensure the light intensity remains at L100.

SLIMME VERLICHTING

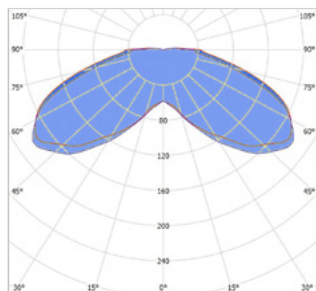
BART luminaires can be equipped as an option with a Zhaga Book 18-connector, facilitating the simple connection of a communication module (node). Thanks to support from Zhaga-D4i, the luminaire can be automatically recognised by any compatible light management system, including data like type, power and status information. This ensures that the luminaires are ready for the latest applications in the field of smart and connected lighting.



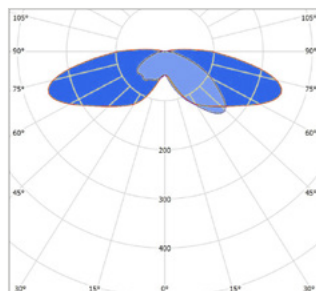
LED²WELL CORE Our **energy-saving lighting solution**

Number of LEDs	Lumen	CRI 70 (Option: CRI 80)				
		OPTION AMBER System power (W)	OPTION 2200K System power (W)	OPTION 2700K System power (W)	STANDARD 3000K System power (W)	STANDARD 4000K System power (W)
16	800	8.9	7.4	6.7	6.2	5.9
	1050	-	9.3	8.4	7.9	7.4
	1200	12.4	10.5	9.6	8.6	8.2
	1350	-	11.5	10.5	9.6	9.1
	1500	-	12.6	11.5	10.5	9.8
	1600	16.3	13.6	12.2	11.2	10.5
	1800	-	15.0	13.6	12.4	11.7
	2000	-	16.7	15.3	13.6	12.6
	2150	-	17.9	16.2	14.5	13.6
	2300	-	19.3	17.4	15.7	14.5
	2500	-	21.2	18.9	16.9	15.7
	2750	-	23.5	21.0	18.9	17.4
	3000	-	25.8	23.0	20.6	18.9
32	2000	19.6	-	-	-	-
	2300	22.4	-	-	-	-
	2500	23.4	-	-	-	-
	3000	28.6	-	-	-	-

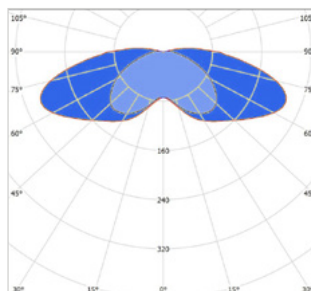
LED²WELL CORE



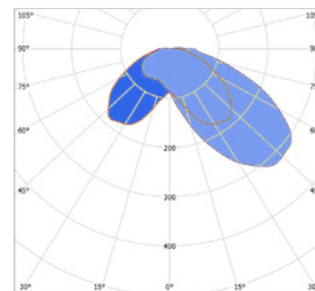
CODE 6



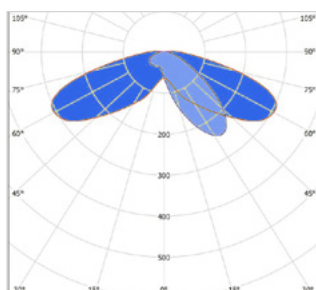
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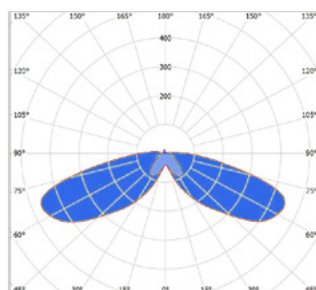
CODE 8



CODE 10



CODE 14



CODE 15