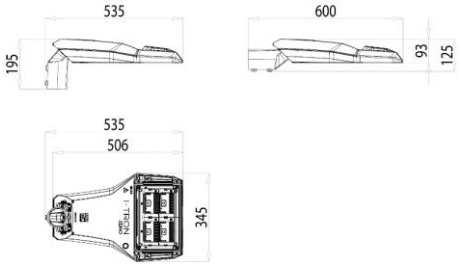
Product Sheet

AEC ILLUMINAZIONE

I-TRON ZERO



I-TRON ZERO 5P5 STU-M 7040.180-1M

MAIN CHARACTERISTICS	
Applications	Street lighting.
Optic	STE-M/S: Asymmetrical optic for suburban street lighting. STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting. STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts. SV: Asymmetrical optic for very narrow urban streets or highway entrance/exit turns. S05/S07: Asymmetrical optic for street, urban and green areas lighting. STA: Asymmetrical optic for wide urban road and cycle-path lighting. Colour temperature: 4000K, 3000K, 2700K, 2200K (others in option) | CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 185 lm/W @ 140mA, Tj=85°C, 4000K
Insulation class	II, I
Protection degree	IP66/IP67 | IK09 total
Dimensions	*See the drawing*
Weight	max 6 kg
Exposed surface	Side: 0.03m² – Top: 0.13 m² I SCx 0.04 m²
Mounting	Bracket / Post-top: Ø33mm ÷ Ø60mm | Ø60mm ÷ Ø76mm(optional)
Tilt Angle	Post-top: -10°/+25° (step 5°) | Bracket: -25°/+10° (step 5°)
LED Modules	Removable / Replaceable.
Gear tray	Removable. Gear tray integrated on luminaire body, separated from optic unit. Removable plate optional.
Operating temp.	-40°C / +55°C
Storage temp	-40°C / +80°C
Main reference standards	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3

IK09 IP66 IP67 EXEMPT GROUP HIGH PERFORMANCE OPTIC

ELECTRICAL CHARACTERISTICS	
Rated voltage	220÷240V 50/60Hz *(Standard tolerance +/-10%, other voltages and tolerances upon request)*
Power factor	>0,95 (at full load - F, DA, DAC)
Mains connection	Terminal block for cables max section 4mm²
Surge protection	Up to 10kV | With SPD (optional) 10kV / 10kV CM/DM
SPD (optional)	10kV-10kA, type 2+3, with LED signal and thermo fuse to disconnect load at the end of life.
Control system (options)	F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. DALI: Digital dimming interface DALI. NEMA: Socket 7 pin (ANSI C136.41). ZHAGA: Socket 4 pin (ZHAGA Book 18).
Optical unit lifetime (Tq=25°C)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS	
Fixing	Die-cast aluminum UNI EN1706 powder painted.
Lower frame	
Upper canopy	
Closure hook	Extruded aluminium with stainless steel spring.
Optic	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness high transparency.
Cable gland	Plastic M20x1.5 - IP68
Gasket	Polyurethane
Colour	Graphite - Cod. 01

GREENLIGHT

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 4000K, lm)	RATED LED POWER* (Tj=85°C, W)
I-TRON ZERO 5P5 STU-M 7040.180-1M	STU-M	5000	34.8	143	5227	29.6

**RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.*
**RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.*
Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±7%.
Power tolerance with ZHAGA version or power supply D4i/SR: ±10%.
The characteristics of the product listed above are subjected to change without notice.