



CHALLENGE WAY



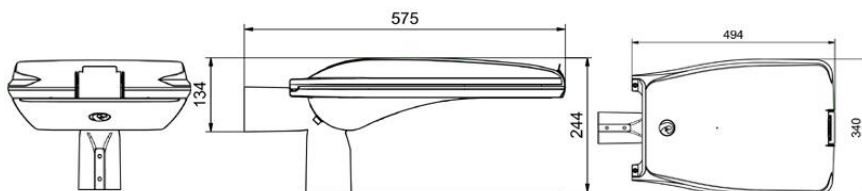
GENERAL SPECIFICATIONS



Type	Streetlight
Application	Streetlight, big areas
System	6/24 LED
Power usage (LED + DRIVER)	From 17W to 109W
Nominal flux of the LED system	from 2400 lumen to 16800 lumen
Actual outbound flux	from 2000 lumen Up to 14000 lumen

STREETLIGHT DATA

Maximum net weight	6 kg
Wind exposed lateral view	0,041 m2
Wind exposed frontal view	0,0424 m2



TECHNICAL SPECIFICATIONS

Insulation class	CL I - CL II
Color temperature	4000K - CRI>70
Ambient temperature - ta max	35°C for all the Series
Power correction factor	> 0,9
Overall protection degree	IP66
Protection degree against external impacts	IK08
Certifications	CE
	All the electric components are ENEC certified
Construction standards	EN 60598-1, EN 60598-2-3
Class of photobiological risk	Risk group exempt from this according to EN 62471

POWER SUPPLY SPECIFICATIONS

Led current - from/to:	up to 1000mA
Power supply	220 - 240V / 50 - 60 Hz VAC and also available in 120-277V / 50-60 Hz VAC.
Driver	high efficiency electronic power source and duration, intended for external use.
Knife switch	CL I - CL II
Cable plate	complete with easily replaceable electronic unit.
Power supply cable access	through a PG 13.5 cable gland (IP68).

PROTECTION AGAINST SURGES

All versions are protected against overloads and surges to protect components and LEDs.	
CL I:	up to 10kV both in common and differential mode
CL II:	up to 9kV in common mode, 6 kV in differential mode

MAINTAINED AVERAGE LUMINOUS FLUX

	L80** (hr)	
	> 100000	
	> 70000	

* First brand Led

** L80 = the unit keeps the 80% of the initial light flux after the number of hours indicated in above table.

For higher Ta, please don't hesitate to consult FAEL headquarter/distributors.



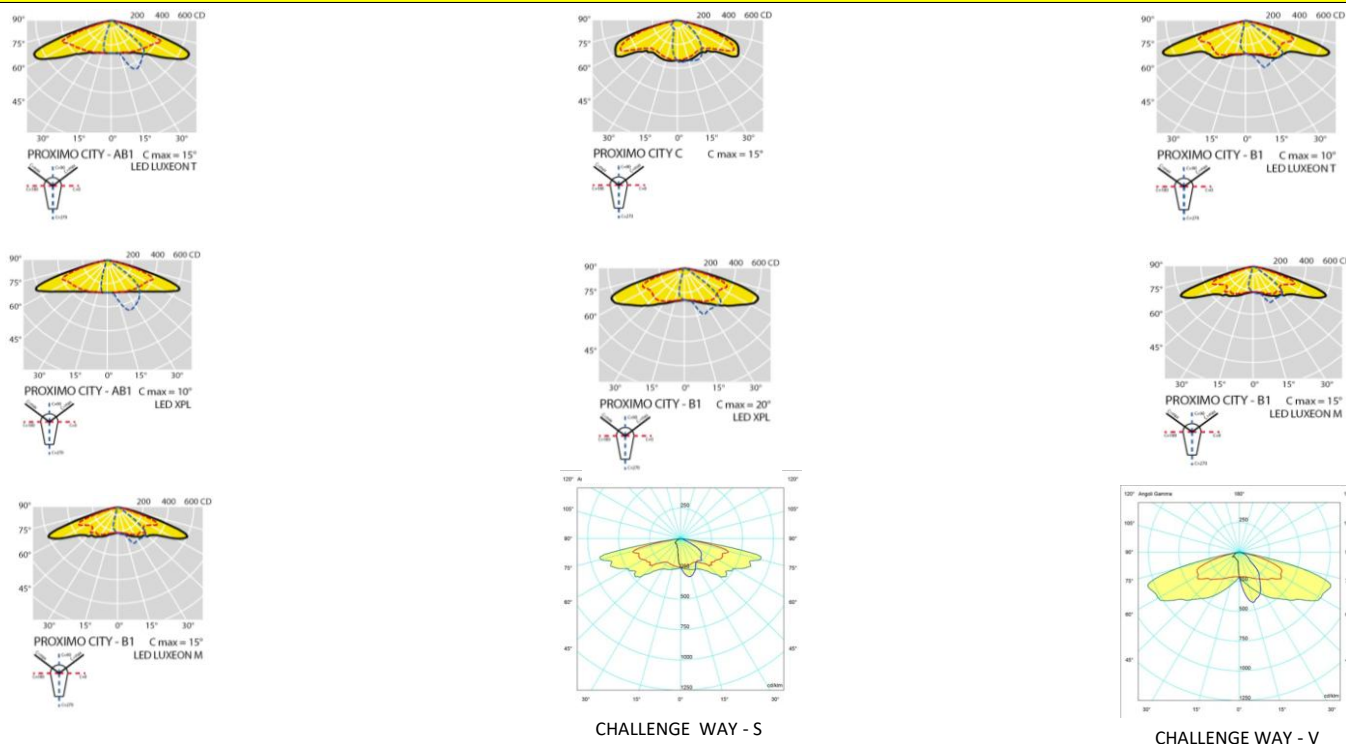


MOUNTING SPECIFICATIONS	
Assembly	on pole
Installation on straight pole	∅ 46 mm ÷ 60 mm, tilt 0° to +20° with constant pitch of 2.5°
Side entry installation	∅ 46 mm ÷ 60 mm
	Fixing device for tilt luminaire at 0° if side entry installation with tilt of 5°, 10°, 15°, 20°
All Models	an accessory for ∅ 76 mm installation is available upon request
Installation height	4 ÷ 16 m

MATERIALS AND FITTINGS	
LED	Multi and Singlechip technology on a pressed aluminum circuit, highly heat dissipating MCPCB (Metal Core Printed Circuit Board).
Body and cover	In die cast aluminum
Upper cover	With cross-sectional cooling fins with highly aesthetic aspect. Replacement of the entire LED module including the upper cover.
Automatic anti-closing mechanism	Included, to prevent accidental closure of the cover during assembly and maintenance.
Paint	Silver-colored polyester powders (RAL 9006).
Glass	Extra-clear tempered glass, 4mm thick.
Gaskets	Anti-aging rubber
Pressure compensation filter	Teflon
Closure clip	In stainless steel

OPTICAL SYSTEM	
SAFEGWAY® OPTIC	AB1 Optic: for carriageway with a width greater than 0.85 times the height of installation; Suitable for large and high-speed roadways.
	B1 Optic: for carriageway with a width equal to or less than 0.85 times the height of installation. Suitable for urban roads, car parks and bike paths.
	S Optic: for streets with large distance between Poles
	V Optic: for streets with large distance between Poles and for wide streets
All the optics have CUT-OFF emissions with zero-impact when the floodlight is installed with the glass parallel to the ground.	

PHOTOMETRIC DATA



The Fael LUCE products are subject to constant evolution. Therefore, the values given in this document are subject to change.



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