

# GEO ST L



## **GEO ST L - POWERFUL & SMART STREET LIGHTING**

GEO ST L is a high-performance, energy-efficient street luminaire designed for major roads, highways, and expansive urban spaces. Engineered with precision optics, smart lighting compatibility, and a robust build, GEO ST L delivers powerful illumination, long-term reliability, and seamless integration into smart city infrastructures.

# GEO ST L



Description	Value
Power	up to 115W
Luminous flux	up to 25000lm
Correlated color temperature	3000K, 4000K, optional - TW(tunable white) and amber
CRI	RA 70
Light source	Integrated LED module
Housing	ADC12 die-cast aluminum, RAL 9006 standard, other RAL available on request
Cover Toughened	5mm glass (IK09)
Screws	304 stainless screws
Driver	Tridonic/TCl/Signify/Sosen/Inventronics
Electrical	Class Class I or Class II
Input voltage	198 - 264 Vac / 50-60Hz
Surge protection	6-10kV*
Functions	Dali-2, D4i, Chronostep
Connection	External cable (type, length vary on model or project requirements)
Installation bracket diameter	60mm
Compatibility of pole diameters	48mm / 60mm
Lifetime	100,000 h (at 25°C).
Ambient temperature	-40° to 40°C
Wind load	0.156m2
IP Rating	IP66
IK Rating	IK09
Size	705x292x78mm
Weight	9.6kg
Certificates	ENEC/ENEC+ coming April 2025
Warranty	5 years

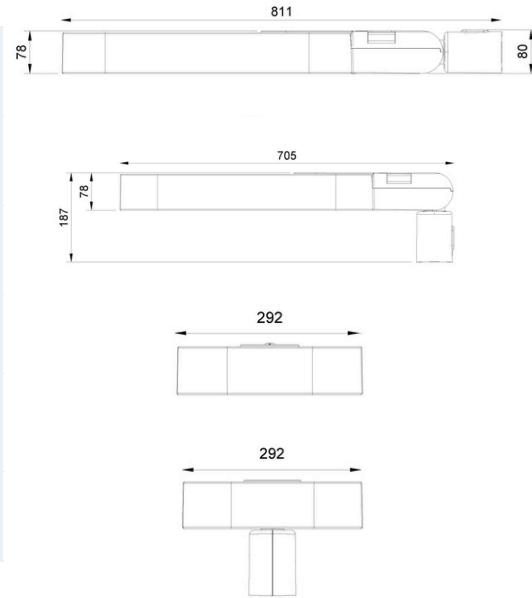
\* - depends on type of the surge



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Name	Power (W)	Efficacy (lm/W)	Luminous flux (lm)	Standard CCT (K)
GST L 80	80	155	12400	3000/4000
GST L 90	90	153	13770	3000/4000
GST L 100	100	163	16300	3000/4000
GST L 110	110	161	17710	3000/4000
GST L 115	115	160	18400	3000/4000



\*: +/- 7%: variation on CCT and Optics can affect luminous flux

## Key Features:

- Superior Optics – Advanced lens technology ensures precise light distribution, reducing glare and optimizing road visibility and safety.
- High Efficiency – Delivers up to 25000lm with power consumption up to 115W, using high-performance LED modules for maximum output and energy savings.
- Smart City Integration – Supports DALI-2, D4i, Chronostep, and Dynodimmer, enabling dynamic lighting control and seamless adaptation to smart urban networks.
- Rugged & Weather-Resistant – Built with ADC12 die-cast aluminum housing, toughened 5mm glass (IK09), and IP66-rated protection, ensuring durability in all conditions.
- Flexible Installation – Designed for 48mm / 60mm pole diameters, featuring external cable connections adaptable to specific project needs.
- Long Lifespan & Reliability – Engineered for 100,000 hours of operation (at 25°C), with superior thermal management to enhance longevity and reduce maintenance needs.

## Sustainability & Modularity

- Modular design with replaceable components for extended product life.
- Designed for low environmental impact with 100% recyclable materials.
- Tunable white (TW) and amber light options for adaptive, eco-conscious illumination.