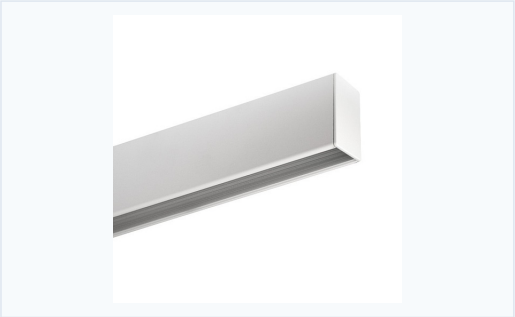
LS450 · LINEAR PROFILE LUMINAIRES

LS450 _120 4300lm 29W I 840 ZT25 DALI

Asymmetric · 4000 K · IP40 · IK05 · any RAL on request



APPLICATION

LS450 CLARLINE is a versatile linear luminaire designed particularly for wall washing, classroom boards, presentation walls and other applications requiring uniform vertical illumination with minimal glare and reflections. Available with asymmetric, double-asymmetric, 60° and 110° optics, it is also suitable for general lighting, corridors, retail areas, shelving and workspaces. Its minimalist aluminium housing with smooth die-cast end caps supports surface-mounted, suspended or track installation. LS450 is available with CRI 80/90, 3000K/4000K or Tunable White 2700–6500K, with DALI, Touch and Dim, Corridor Mode and Casambi-compatible control options. High-quality LEDIL optics, OSRAM LED modules and Philips Xitanium drivers ensure efficient and reliable long-term operation.

4300 lm	29 W	148 lm/W	4000 K	≥80	IP40	IK05	100 000 h
SYSTEM FLUX	INPUT POWER	EFFICACY	CCT	CRI	INGRESS	IMPACT	L90B10

ELECTRICAL PARAMETERS

Nominal supply voltage	**230 (220–240) V AC**	Supply voltage range	**198–264 V AC**
Type of supply current	**AC**	Supply frequency	**50 / 60 Hz**
Rated input power	**29W**	Power factor (PF)	**0.98**
Driver efficiency at nominal load	**92%**	Total harmonic distortion (THDi)	**<10%**
Protection class (electric shock)	**I**	Inrush current / time	**5A 50µsec**
Driver type	**Philips**	Number of luminaires on MCB 16A type B	**22**

PHOTOMETRIC PARAMETERS

Luminous flux — system	**4300lm**	Luminous flux — LED module	**5100lm**
Luminous efficacy — system	**148lm/W**	Correlated colour temperature (CCT)	**4000 K**
Colour rendering index Ra (CRI)	**≥80**	Init. CRI tolerance	**±3**
Light distribution type	**Asymmetric**	Luminaire beam spread	**Asymmetric**
Optic type	**ZT25**	Photobiological safety class	**RG1**
Flicker — Output PstLM / SVM	**≤0.1 / ≤0.2**	Colour consistency (SDCM)	**< 3 MacAdam steps**
Upward light output ratio (ULOR)	**0**	Luminous flux tolerance	**±5 %**

CONSTRUCTION & MATERIALS

Luminaire type	**Linear suspended**	Light source type	**LED**
Light source replaceable	**yes**	Cap / base type	**Integrated**
Housing material	**Aluminium profile**	Housing coating	**Powder coating**
Optic material	**PMMA**	Housing colour (RAL)	**any RAL on request**
Mounting type	**Surface-mounted, suspended, track**	Number of gear units	**1 pcs**

PROTECTION & ENVIRONMENT

IP rating — enclosure	**IP40**	Impact resistance class IK	**IK05**
Operating temperature range	**-40...+35 °C**	Storage temperature range	**-40...+65 °C**
Glow-wire test	**650 °C / 5 s**	Relative humidity (max)	**N/A**

CONTROL & DIMMING

Dimmable	**Yes**	Control protocol / interface	**DALI**
Built-in motion / presence sensor	**Easyair sensor on request**		

RELIABILITY & LIFETIME

Light source lifetime	**100000@L90 B10h**	Lumen maintenance @ 50 000 h	**L95B5**
Lumen maintenance @ 100 000 h	**L90 B10**	Control gear failure rate @ 50 000 h	**41 %**
Control gear failure rate @ 100 000 h	**10%**	Maximum case temperature Tc	**75°C**

CERTIFICATIONS

Warranty period	**5 years**	CE marking	**CE marked**
ENEC mark	**No**	ENEC+ mark	**No**
UKCA marking	**UKCA marked**	D4i certified (DALI)	**No**
EU RoHS compliant	**Yes**		

STANDARDS & SUSTAINABILITY

Applicable standard	**EN-IEC 62722-2-38**	ETIM Class	**Not determined**
Recyclable content ratio	**Not determined**	Non-virgin material ratio	**Not determined**
Sustainability rating	**Not determined**	EAN / UPC	**Not determined**
Application areas	**Classroom boards, presentation walls, displays, corridors, retail, shelving and workspaces**		

Environmental data. Embedded carbon, recyclable content and sustainability ratings are provided per article where determined.

Documents. Photometric files (IES / LDT) and installation instructions are available at takton.ee.