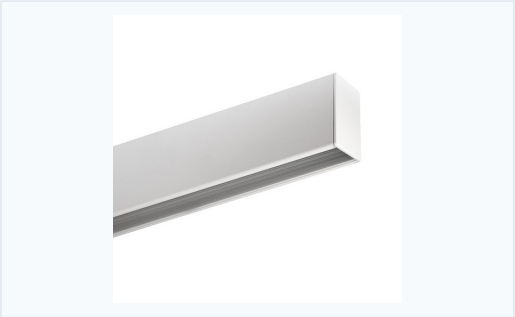
LS450 · LINEAR PROFILE LUMINAIRES

LS450 _120 4300lm 29W I 840 S 60D DALI

Symmetric · 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	Symmetric	Luminaire beam spread	60°
Optic type	60D	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	**37 %**
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 62722-2-34**	ETIM Class	**Not determined**
D-Mark (EN 60598-2-24)	**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.