CoreLine Trunking – the clear choice for LED

CoreLine Trunking

Whether for a new facility or renovation of an existing space, customers want lighting solutions that provide quality of light and substantial energy and maintenance savings. The new CoreLine Trunking range of LED products can be used to replace general lighting. The process of selecting, installing and maintaining is so easy – it's a simple switch.

Benefits
- High efficiency enables energy savings of more than 50% compared to fluorescent-based luminaires; attractive investment level and fast payback
- Good quality of light with high output to meet the requirements of demanding applications
- Easy to order and install, thus requiring less time and reducing packaging waste and complexity

Features
- Philips Fortimo LED Line 1R for high efficiency and reliability
- Advanced optics enable precise and energy-saving beam shapes
- Simplicity: only two 12 NC codes needed to make a light line
- Requires much less packaging than fluorescent, reducing total installation time

Application
- Supermarkets
- Warehouses
- Production facilities

Specifications

CoreLine Trunking

Type	LL120X (3.4 m version)
	LL120X (3.4 m standalone version: ready-to-install (KIT) with ceiling-mounting bracket (SMB))
	LL121X (1.7 m version)
	LL121X (1.7 m standalone version: ready-to-install (KIT) with ceiling-mounting bracket (SMB))
	LL122X (3.4 m half blind version)
	LL123X (3C track version)
Light source	Philips Fortimo LED Line 1R
Power	LL120X: 69 or 124 W
	LL121X: 34.5 or 62 W
Beam angle	2 x 20, 2 x 25, 2 x 30, 2 x 45, 2 x 50, 2 x 80, 1 x 30º
Luminous flux	LL120X: 9,000 or 16,000 lm for 4,000 and 6,500 K, 15,200 lm for 3,000 K
	LL121X: 4,500 or 8,000 lm for 4,000 and 6,500 K, 7,600 lm for 3,000 K
Correlated Colour Temperature	3,000, 4,000 and 6,500 K
Colour Rendering Index	>80
Lumen maintenance at median useful life* 50,000 h	L80
Control gear failure rate at median useful life 50,000 h	5%
Performance Ambient Temperature Tq	+25 ºC

Operating temperature range	–20 to +35 ºC
Driver	Built-in (Philips Xitanium)
Mains voltage	230 or 240 V/50–60 Hz
Dimming	DALI dimmer
Control system input	0–16 V
Material	Housing: steel
	Lenses: PMMA or polycarbonate (for emergency lighting versions)
Colour	White
Optic	Narrow, medium, wide beam, asymmetric, double asymmetric and opal optic
Optical cover	PMMA or polycarbonate
Connection	Integral male/female connectors
Maintenance	No internal cleaning required
Installation	Suspended with brackets and wire (standard)
	Surface-mounted with caddy clip or bracket (additional accessories required)
	Through-wiring standard
Accessories	Blind covers, chain brackets, profile brackets, mounting brackets for suspension wire and ceiling mounting brackets, suspension wire, electrical connectors (LL120Z)
Remarks	Emergency lighting versions, battery-based (3 hours, EL3) or centrally driven emergency

Versions

CoreLine trunking LL120X/LL121X luminaire, single lumen version

LL122X – LED Module, system flux 8000 lm

CoreLine Trunking

Product details

Suspension wire Ø 2 mm, length 3 m

LineSense motion detection unit

Suspension wire Ø 2 mm, length 1.25 m

Mounting bracket for suspension wire, 2 end pieces and connection unit 9-pole

Chain bracket, 5 pieces

End pieces, 6 pieces

Suspension wire Ø 2 mm, length 5 m

Profile bracket, 5 pieces

CoreLine Trunking

Product details

Electrical connector 9-pole male and female, 4 sets

CoreLine trunking LL122X luminaire, half blind cover and half single lumen version

IPDP_LL120Xi_0015-Detail photo

CoreLine trunking LL120X/LL121X luminaire, single lumen version, opal

CoreLine trunking LL120X/LL121X luminaire, double lumen version, opal

CoreLine Trunking

Product details

IPDP_LL120Xi_0003-Detail photo

CoreLine trunking LL123X luminaire, track version

Accessories

Mounting bracket for suspension wire, 2 pieces

Ordercode 88155199

Mounting bracket for suspension wire, 2 end pieces and connection unit 7-pole

Ordercode 88146900

Ceiling mounting bracket

Ordercode 910925255037, 910925255170

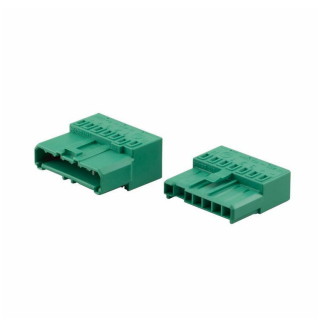Suspension wire Ø 2 mm, length 1.25 m

Ordercode 88157599

CoreLine Trunking

Accessories

Suspension wire Ø 2 mm, length 3 m

Ordercode 88158299

Suspension wire Ø 2 mm, length 5 m

Ordercode 88159999

Electrical connector 7-pole male and female, 5 sets

Ordercode 88160599

Chain bracket, 5 pieces

Ordercode 88161299

End pieces, 6 pieces

Ordercode 88153700

Profile bracket, 5 pieces

Ordercode 88163699

LineSense lighting control box

Ordercode 90799200

Ceiling mounting bracket

Ordercode 91260600

CoreLine Trunking

Application Conditions

Ambient temperature range	–20 to +35 °C
Suitable for random switching	No

Approval and Application

Mech. impact protection code	IK02
Ingress protection code	IP20

Operating and Electrical

Circuit	No
Input Voltage	220 to 240 V

General Information

Accessories included	MB-SW
Beam angle of light source	120 °
CE mark	CE mark
Protection class IEC	Safety class I
Optical cover/lens type	No
Driver included	Yes
Emergency lighting	No
ENEC mark	ENEC mark
Flammability mark	F
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	No
Mechanical accessories	No
Internal wiring	Standard

Initial Performance (IEC Compliant)

Initial chromaticity	(0.38, 0.38) SDCM <3
Init. Corr. Colour Temperature	4000 K
Init. Colour rendering index	≥80

Mechanical and Housing

Colour	White
Diameter	–

Application Conditions

Order Code	Full Product Name	Maximum dimming level
90746600	LL120X LED90S/840 2x PSD WB 9 VLC WH	1%
88140700	LL121X LED45S/840 1x PSD WB 7 WH	1%
38078900	LL121X LED80S/840 PSU WB SMB WH KIT	Not applicable
38143400	LL121X LED80S/840 1x PSD MB 9 WH	1%

Controls and Dimming

Order Code	Full Product Name	Dimmable
90746600	LL120X LED90S/840 2x PSD WB 9 VLC WH	Yes
88140700	LL121X LED45S/840 1x PSD WB 7 WH	Yes

Order Code	Full Product Name	Dimmable
38078900	LL121X LED80S/840 PSU WB SMB WH KIT	No
38143400	LL121X LED80S/840 1x PSD MB 9 WH	Yes

General Information (1/2)

Order Code	Full Product Name	Lamp family code	Number of gear units	Number of light sources	Optic type
90746600	LL120X LED90S/840 2x PSD WB 9 VLC WH	LED90S	2 units	6	WB
88140700	LL121X LED45S/840 1x PSD WB 7 WH	LED45S	1 unit	3	WB

Order Code	Full Product Name	Lamp family code	Number of gear units	Number of light sources	Optic type
38078900	LL121X LED80S/840 PSU WB SMB WH KIT	LED80S	1 unit	3	WB

CoreLine Trunking

Order Code	Full Product Name	Lamp family code	Number of gear units	Number of light sources	Optic type
38143400	LL121X LED80S/840 1x PSD MB 9 WH	LED80S	1 unit	3	MB

General Information (2/2)

Order Code	Full Product Name	Product family code
90746600	LL120X LED90S/840 2x PSD WB 9 VLC WH	LL120X
88140700	LL121X LED45S/840 1x PSD WB 7 WH	LL121X

Order Code	Full Product Name	Product family code
38078900	LL121X LED80S/840 PSU WB SMB WH KIT	LL121X
38143400	LL121X LED80S/840 1x PSD MB 9 WH	LL121X

## Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Luminous flux tolerance	Initial input power
90746600	LL120X LED90S/840 2x PSD WB 9 VLC WH	141 lm/W	9000 lm	+/-7%	64 W
88140700	LL121X LED45S/840 1x PSD WB 7 WH	141 lm/W	4500 lm	+/-7%	32 W

| Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Luminous flux tolerance	Initial input power
38078900	LL121X LED80S/840 PSU WB SMB WH KIT	148 lm/W	8000 lm	+/-1%	54 W
38143400	LL121X LED80S/840 1x PSD MB 9 WH	148 lm/W	8000 lm	+/-1%	54 W

Polar Wide Diagrams
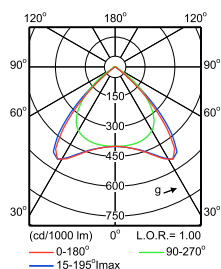
IFPS_LL121X 1xLED45S/840 WB–Polar Normal (separate)
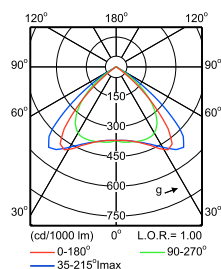
IFPS_LL121X 1xLED80S/840 WB–Polar Normal (separate)
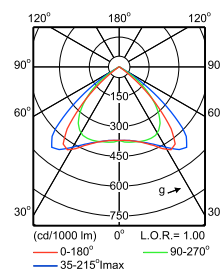
IFPS_LL120X 1xLED152S/830 WB–Polar Normal (separate)