

TubeLine LED unit datasheet



Topic	Core
Name	TubeLine
Product Family Code (PFC)	BGP360
Lumen Output	3, 6, 11 and 14.4 kLm per 2 metre LED unit
Luminaire/system efficacy (incl Optical and driver efficacy)	> 120Lm/W
CCT and CRI	Typical CCT: 4000 K (NW) (5700K (CW) optional. CRI >80 (for 4000K)
System life/lumen maintenance (system = light modules & drivers)	L80B10 = 100,000 hours
Light distributions/optics	6 Tunnels distribution: DTS; DTS-WB; DTS-NB; DTA; DTA-WB; DTA-NB
Operating temperature range	-30 to +45°C
Electrical insulation class	Class I or Class II
IK	IK08
Degree of protection	IP66
System surge protection	Standard over voltage protection: 6kV. Optional: 10kV (dependant on type of driver used)
Luminaire dimensions (l x w x h)	1999mm x 110mm x 34mm (including gland) Optional: backbone profile for assemblies 6m (2m, 4m, 6m)
Luminaire weight	< 10 kg
Material/Finishing	Die-cast parts: aluminium (LM-6 grade), finish: powder coating Backbone profile: aluminium (AlMg Si 0.5) anodize (25um) Body of the LED unit: aluminium (AlMg Si 0.5) anodize (25um) Optics: lenses PC Cover: Tempered flat glass 5mm
Power supply/Drivers	Driver(s) not integrated Multiple LED units can be powered from one driver unit (number is dependent on driver-LED unit combination)
Luminaire installation	External connection by flying lead incl plug Cable: LSOH
Options	Marine salt protected coating (MSP) Delivered with 0,25 or 1,25 mtr flying lead
Mounting	Quick release bracket for cable tray mounting (MBQ) Standard baseplate bracket (same as used for backbone system) (BA) Dedicated ceiling mounting bracket (MB) Comment: Brackets fully isolated from LED unit and mounting structure
Certification/Listing	CE, ENEC, CB Corrosion resistance test (1000 hrs Neutral Salt Spray test)
Packaging	Carton box or multipack



PHILIPS

Tubeline

Meet Tubeline

A new standard for **safer linear lighting**:
miniaturised, **cost effective** and **high performance**

TubeLine Storyline

Safer Linear Tunnel interior lighting



Continuous interior line Lighting



Spaced linear lighting

- Low glare
- Perfect guidance
- Reduced shadowing

- = Increased comfort
- = Early anticipation
- = Improved speed change detection



How Tubeline Stands Out



Wide range of optics ensuring high efficient and comfort lighting

- Dedicated optic range (OptiPerfect)
- Highly standardised build
- Highly efficient lens optics
- Lumen packages vary from 3 kLm to 14 kLm
- Low glare linear luminaires to increase comfort and safety



High level of flexibility with easy plug and play wiring

(Through wiring and trunking option)

- Single flying lead (one side)
- Double flying lead (for through wiring)
- Various plugs



Ease of installation (Brackets, light weight, long modules)

- Low weight, long length
- Quick mounting brackets



Excellent combination of efficiency and performance

- Superior cooling: large aluminum surface to dissipate heat
- High lumen/W at system level
- High system electricity savings compared to old conventional systems



Remote driver solutions

- Drivers can be maintained outside the traffic envelope
- Increased operator safety



Power Lumen table

Type	Lumen package	LED	Flux from luminaire	system power [W]	lm/W from luminaire	driver
LED30	3000	24	2700	23.5	115	Xi FP 40W 0.2-0.7A SNLDAE 230V SI75 sXt
LED60	6000	48	5400	43.2	125	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt
LED100	10000	48	9000	70.5	128	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt
LED114	11400	48	10260	80.8	127	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt
LED144	14400	48	12960	105.7	123	Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt

Photometrical data

Tubeline light distributions

DTS Distribution Symmetrical Standard



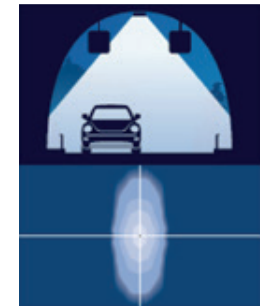
Typical 2 lane tunnel/
central configuration

DTS-WB Distribution Symmetrical Wide



Typical 3 lane tunnel/
central configuration

DTS-NB Distribution Symmetrical Narrow



Typical 2 lane narrow
tunnel/central configuration

DTA Distribution Asymmetrical Standard



Typical 2 lane tunnel/
cornice configuration

DTA-WB Distribution Asymmetrical Wide



Typical 3 lane tunnel/
cornice configuration

DTA-NB Distribution Asymmetrical Narrow



Typical 2 lane narrow
tunnel/cornice configuration



TubePoint sets the new standard:

- **Wide range** of lumen packages
- **Wide range of optics**
- **Remote driver** solution
- **Flat glass cover** for brush cleaning
- **Plug & Play connectivity** (Flying lead cable with plug)
- **Through wiring** and trunking options
- **Can be connected to TotalTunnel** solution package, TunneLogic or BaseLogic
- **Typical lifetime** up to 100k hours (L80B10)
- **Standard warranty:** 3 years

TubeLine extends it:

- **Dedicated** interior lighting solution
- **2-metre LED** luminaire
- **Optimised** for Linear lighting