



# TubeLine LED unit - Optimized comfort with linear LED solution

## TubeLine

Fluorescent linear lighting has traditionally been the preferred choice for customers demanding a high level of visual comfort. With excellent lighting uniformity on the road and walls, perfect visual guidance and high color recognition, linear lighting offers the driver superior lighting quality and safety as well as high system redundancy compared to point-source lighting solutions. With TubeLine, the same lighting quality can be achieved but with the advantages of LED technology.

TubeLine is a state-of-the-art LED tunnel luminaire which offers all the benefits of linear lighting. With the latest LED technology, optimized dimensions and attractive pricing, linear lighting has never been more achievable within the constraints of limited budgets.

### Benefits

- Optimal traffic flow due to increased visual comfort and safety compared to point-source lighting
- Quick return on investment
- Flexible, easy-to-install solution

## Features

- Robust, corrosion-resistant aluminum build
- Standard length 2 m
- Smooth design, easy to clean
- Remote driver designed to prevent lane closures
- Lumen packages up to 14,400 lm
- Flexible mounting and connectivity
- Compatible with Philips controls

## Application

- Traffic tunnels Underpasses

## Specifications

<b>Type</b>	BGP360
<b>Light source</b>	Integral LED-module
<b>Power</b>	21-108 W (21/44/72/82/108 W system power)
<b>Luminous flux</b>	3000 up to 14,400 lm (3000/6000/10,000/11,400/14,400 lm)
<b>Luminaire efficacy</b>	> 120 lm/W (129/124/126/125/120 Lm/W)
<b>Correlated Color</b>	NW (4000 K)
<b>Temperature</b>	Optional CW (5700 K)
<b>Color Rendering Index</b>	Minimal 70
<b>Lumen maintenance at median useful life* 100000 h</b>	L95
<b>Performance Ambient Temperature Tq</b>	+25 °C
<b>Operating temperature range</b>	-30 to +45 °C
<b>Driver</b>	Separate (non-self ballasted LED-module)
<b>Options</b>	Flying lead length Flying lead cable type Through wiring Cable gland metal Connector type
<b>Optic</b>	DTS, DTS-NB, DTS-WB, DTA, DTA-NB, DTA-WB
<b>Optical element</b>	Lenses
<b>Optical cover</b>	Glass flat
<b>Material</b>	Housing: extruded aluminum with diecasted endcaps and glass cover Extruded aluminum profiles: AlMg Si 0.5 anodized 25 um Endcaps: diecaster aluminum, LM-6 powder coated 65 um Glass cover: 5mm, thermally toughened

<b>Color</b>	Extruded aluminum: natural Diecaster aluminum endcaps
<b>Connection</b>	Flying lead with plug fitted
<b>Maintenance</b>	NOT openable on site
<b>Installation</b>	Can be mounted with various mounting brackets: Standard, Ceiling and Cable tray mounting brackets. A trunking solution is available: trunking profiles and cabling/connectivity solution. No integrated driver, a separate driver unit needs to be connected to power the led unit. Operating temperature: -30 to +40 °C Recommended mounting height: > 4 m Mounting orientation: horizontal length wise in the tunnel
<b>Cable gland</b>	M12
<b>Accessories</b>	Mounting brackets: Standard, Ceiling and Cable tray mounting brackets. Trunking profiles (at 2/4/6 mtr length) and cabling/connectivity solution. Special driver units to power the TubeLine locally and units for remote powersupply.
<b>Remarks</b>	All accessories need to be ordered seperately.

# TubeLine

## Versions



TubeLine BGP360 tunnel luminaire

## Product details



TubeLine\_BGP360-DP01.tif



TubeLine\_BGP360-DP02.tif



TubeLine\_BGP360-DP03.tif



TubeLine\_BGP360-DP04.tif



TubeLine\_BGP360-DP05.tif



TubeLine\_BGP360-DP06.tif

# TubeLine

## Product details

TubeLine\_BGP360-DP07.tif



TubeLine\_BGP360-DP08.tif



TubeLine\_BGP360\_ZGP360-DP09.tif



## Approval and Application

Mech. impact protection code	IK08
Surge Protection (Common/Differential)	-

## Controls and Dimming

Dimmable	No
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## General Information

Luminaire light beam spread	150°
CE mark	CE mark
Light source color	740 neutral white
Optical cover/lens type	FG
Driver included	No
Flammability mark	NO
Gear	-
Gland material	Cable gland plastic
Light source replaceable	No
Number of gear units	1 unit
Optic type	Distribution tunnel symmetrical
Product Family Code	BGP360
UL mark	-

## Initial Performance (IEC Compliant)

Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80

## Light Technical

Standard tilt angle side entry	-
Standard tilt angle posttop	-
Upward light output ratio	0

## Mechanical and Housing

Color	Aluminum
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## Operating and Electrical

Order Code	Full Product Name	Driver current
09429400	BGP360 LED30/740 DTS CFW C250WM GP	310 mA
09430000	BGP360 LED60/740 DTS CFW C250WM GP	289 mA
09432400	BGP360 LED120/740 DTS CFW C250WM GP	550 mA
09433100	BGP360 LED159/740 DTS CFW C250WM GP	700 mA
09434800	BGP360 LED30/740 II DTS CFW C250WM GP	310 mA
09435500	BGP360 LED60/740 II DTS CFW C250WM GP	289 mA
09437900	BGP360 LED120/740 II DTS CFW C250WM GP	550 mA
09438600	BGP360 LED159/740 II DTS CFW C250WM GP	700 mA

## General Information

Order Code	Full Product Name	Lamp family code	Number of light sources
09429400	BGP360 LED30/740 DTS CFW C250WM GP	LED30	24
09430000	BGP360 LED60/740 DTS CFW C250WM GP	LED60	48
09432400	BGP360 LED120/740 DTS CFW C250WM GP	LED120	48
09433100	BGP360 LED159/740 DTS CFW C250WM GP	LED159	48

Order Code	Full Product Name	Lamp family code	Number of light sources
09434800	BGP360 LED30/740 II DTS CFW C250WM GP	LED30	24
09435500	BGP360 LED60/740 II DTS CFW C250WM GP	LED60	48
09437900	BGP360 LED120/740 II DTS CFW C250WM GP	LED120	48
09438600	BGP360 LED159/740 II DTS CFW C250WM GP	LED159	48

## Initial Performance (IEC Compliant)

## TubeLine

Order Code	Full Product Name	Initial luminous flux
09429400	BGP360 LED30/740 DTS CFW C250WM GP	2700 lm
09430000	BGP360 LED60/740 DTS CFW C250WM GP	5400 lm
09432400	BGP360 LED120/740 DTS CFW C250WM GP	10680 lm
09433100	BGP360 LED159/740 DTS CFW C250WM GP	14240 lm

Order Code	Full Product Name	Initial luminous flux
09434800	BGP360 LED30/740 II DTS CFW C250WM GP	2700 lm
09435500	BGP360 LED60/740 II DTS CFW C250WM GP	5400 lm
09437900	BGP360 LED120/740 II DTS CFW C250WM GP	10680 lm
09438600	BGP360 LED159/740 II DTS CFW C250WM GP	14240 lm

