



# New generation of specialty LEDtube

## Specialty LED tube

Philips specialty LEDtube integrates a LED light source into a traditional fluorescent form factor. This product is the ideal solution for relamping to serve multi-purpose usage: it meets general lighting requirements, offers significant energy savings, and special function such as Visible Light Communication.

### Benefits

- Highly energy-efficient
- Conventional form factor to fit into existing luminaires
- Easy installation
- No mercury

### Features

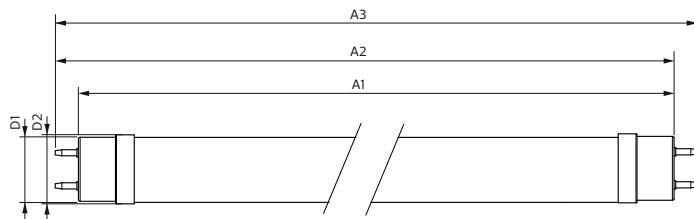
- Reduced operational cost thanks to lower energy consumption
- Fastest and easiest way to upgrade existing luminaires to LED technology, completely safe product and installation process
- Lower maintenance cost thanks to 2-3 times longer lifetime than conventional lamps

### Application

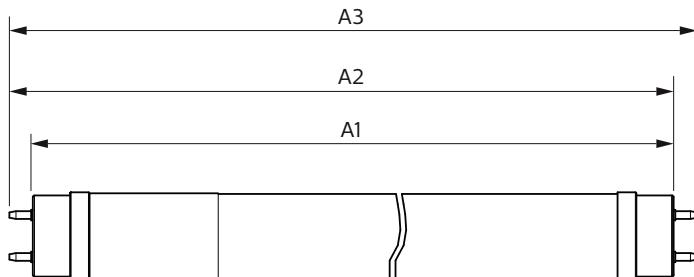
- Hospitality, retail, office, industrial applications

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## Dimensional drawing



Product	D1	D2	A1	A2	A3
Sensor LEDtube 1200mm 16W 840 T8	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
Sensor LEDtube 1200mm 16W 865 T8	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm



Product	D1	D2	A1	A2	A3
Ledtube SW DE HO 1200mm 20w 12000k T8	25.7 mm	28 mm	1,198 mm	1,205 mm	1,212 mm
Ledtube SW DE HO 600mm 8w 12000k T8	25.7 mm	28 mm	588.5 mm	595.5 mm	602.5 mm

General Information	
Cap-Base	G13
Switching Cycle	50,000
Light Technical	
Beam Angle (Nom)	240 degree(s)
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T8

General Information		
Order Code	Full Product Name	Nominal lifetime
929004578638	Ledtube SW DE HO 1200mm 20w 12000k T8	15,000 hour(s)
929004578738	Ledtube SW DE HO 600mm 8w 12000k T8	15,000 hour(s)
929003103310	Sensor LEDtube 1200mm 16W 840 T8	30,000 hour(s)
929003103410	Sensor LEDtube 1200mm 16W 865 T8	30,000 hour(s)

## Light Technical

Correlated Color					
Order Code	Full Product Name	Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929004578638	Ledtube SW DE HO 1200mm 20w 12000k T8	12000 K	70	7120	2,200 lm
929004578738	Ledtube SW DE HO 600mm 8w 12000k T8	12000 K	70	7120	880 lm

Correlated Color					
Order Code	Full Product Name	Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929003103310	Sensor LEDtube 1200mm 16W 840 T8	4000 K	80	840	1,800 lm

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Order Code	Full Product Name	Correlated Color			
		Temperature (Nom)	rendering index (CRI)	Color Code	Luminous Flux
		6500 K	80	865	1,800 lm
929003103410	Sensor LEDtube 1200mm 16W 865 T8	1200mm 16W			

## Operating and Electrical

Order Code	Full Product Name	Line Frequency	Power Consumption	Wattage Equivalent
		-	20 W	36 W
929004578638	Ledtube SW DE HO 1200mm 20w 12000k T8	1200mm 20w		
929004578738	Ledtube SW DE HO 600mm 8w 12000k T8	600mm 8w 12000k T8	8 W	18 W

Order Code	Full Product Name	Line Frequency	Power Consumption	Wattage Equivalent
		50 to 60 Hz	16 W	-
929003103310	Sensor LEDtube 1200mm 16W 840 T8	1200mm 16W 840 T8		
929003103410	Sensor LEDtube 1200mm 16W 865 T8	1200mm 16W 865 T8	50 to 60 Hz	16 W

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929004578638	Ledtube SW DE HO 1200mm 20w 12000k T8	60 °C
929004578738	Ledtube SW DE HO 600mm 8w 12000k T8	50 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003103310	Sensor LEDtube 1200mm 16W 840 T8	50 °C
929003103410	Sensor LEDtube 1200mm 16W 865 T8	50 °C

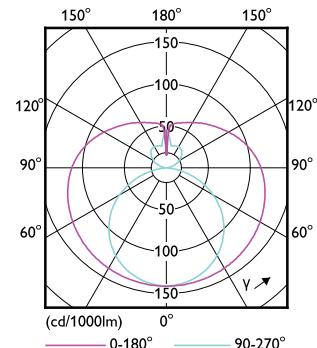
## Controls and Dimming

Order Code	Full Product Name	Dimmable
929004578638	Ledtube SW DE HO 1200mm 20w 12000k T8	No
929004578738	Ledtube SW DE HO 600mm 8w 12000k T8	No
929003103310	Sensor LEDtube 1200mm 16W 840 T8	Only with specific dimmers

Order Code	Full Product Name	Dimmable
929003103410	Sensor LEDtube 1200mm 16W 865 T8	Only with specific dimmers

## Approval and Application

Order Code	Full Product Name	Ambient temperature range
929004578638	Ledtube SW DE HO 1200mm 20w 12000k T8	-20 to +45 °C
929004578738	Ledtube SW DE HO 600mm 8w 12000k T8	-20 to +45 °C
929003103310	Sensor LEDtube 1200mm 16W 840 T8	-20 °C to 45 °C
929003103410	Sensor LEDtube 1200mm 16W 865 T8	-20 °C to 45 °C



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