



# **Product Description**

## **MASTER TL5 High Efficiency**

Low-pressure mercury discharge lamps with a tubular 16 mm envelope

#### **Benefits**

- · Allows system miniaturisation and maximum luminaire design freedom
- · Lamp lengths enable easy fitting into ceiling module systems
- $\boldsymbol{\cdot}$  Offers higher efficiencies and energy savings compared with TL-D lamps
- · Virtually constant lumen level with excellent lumen maintenance
- · Good colour rendering

#### **Features**

- 40% thinner than TL-D lamps
- · High lamp efficacies up to 104 lm/W
- · Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- · Can be ignited from -15 to +50 °C

#### **Application**

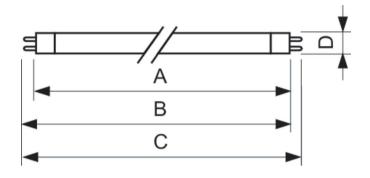
 Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry, wherever high-quality, energy-effective lighting is required

#### **Warnings and Safety**

• A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

# **MASTER TL5 High Efficiency**

## Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HE 14W/830	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
SLV/40					
MASTER TL5 HE 14W/840	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
SLV/40					
MASTER TL5 HE 14W/865	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
SLV/40					
MASTER TL5 HE 21W/830	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
SLV/40					
MASTER TL5 HE 21W/840	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
SLV/40					
MASTER TL5 HE 21W/865	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
SLV/40					
MASTER TL5 HE 28W/830	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
SLV/40					
MASTER TL5 HE 28W/840	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
SLV/40					
MASTER TL5 HE 28W/840	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
UNP/40					
MASTER TL5 HE 28W/865	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
SLV/40					
MASTER TL5 HE 35W/830	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
SLV/40					
MASTER TL5 HE 35W/840	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
SLV/40					
MASTER TL5 HE 35W/865	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
SLV/40					

General Information	
Cap-Base	G5
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb Shape	T5
Approval and Application	
Mercury (Hg) Content (Nom)	1.2 mg

## Light Technical

		Chromaticity	Chromaticity			Color		
		Coordinate X	Coordinate Y		Correlated Color	rendering	Luminous Efficacy	
Order Code	Full Product Name	(Nom)	(Nom)	Color Designation	Temperature (Nom)	index (CRI)	(rated) (Nom)	Luminous Flux
927926083055	MASTER TL5 HE 14W/830	0.44	0.403	Warm White (WW)	3000 K	82	86 lm/W	1,200 lm
	SLV/40							
927926084055	MASTER TL5 HE 14W/840	0.38	0.38	Cool White (CW)	4000 K	80	86 lm/W	1,200 lm
	SLV/40							

# **MASTER TL5 High Efficiency**

		Chromaticity Coordinate X	Chromaticity Coordinate Y		Correlated Color	Color rendering	Luminous Efficacy	
Order Code I	Full Product Name	(Nom)	(Nom)	Color Designation		index (CRI)	(rated) (Nom)	Luminous Flux
	MASTER TL5 HE 14W/865	0.313	0.337	Cool Daylight	6500 K	82	80 lm/W	1.125 lm
	SLV/40	0.5.5	0.557	coor buying no	050011	02	55 till, 11	1,125
	MASTER TL5 HE 21W/830	0.44	0.403	Warm White (WW)	3000 K	82	90 lm/W	1.900 lm
	SLV/40	0.11	0.103		300011	02	30 tilly 11	.,500
	MASTER TL5 HE 21W/840	0.38	0.38	Cool White (CW)	4000 K	80	90 lm/W	1,900 lm
	SLV/40	0.50	0.50	coot mile (cm)		-	30 tilly 11	1,500 111
	MASTER TL5 HE 21W/865	0.313	0.337	Cool Daylight	6500 K	82	84 lm/W	1.750 lm
	SLV/40	0.5.5	0.557	coor Baytigili		02	3 1 111 11	1,750 1111
	MASTER TL5 HE 28W/830	0.44	0.403	Warm White (WW)	3000 K	82	96 lm/W	2.675 lm
	SLV/40			,			,	,
	MASTER TL5 HE 28W/840	0.38	0.38	Cool White (CW)	4000 K	80	96 lm/W	2,675 lm
ı	UNP/40							
927926584055	MASTER TL5 HE 28W/840	0.38	0.38	Cool White (CW)	4000 K	80	96 lm/W	2,675 lm
9	SLV/40							
927926586555	MASTER TL5 HE 28W/865	0.313	0.337	Cool Daylight	6500 K	82	90 lm/W	2,500 lm
9	SLV/40							
927927083055	MASTER TL5 HE 35W/830	0.44	0.403	Warm White (WW)	3000 K	82	94 lm/W	3,315 lm
S	SLV/40							
927927084055	MASTER TL5 HE 35W/840	0.38	0.38	Cool White (CW)	4000 K	80	94 lm/W	3,315 lm
9	SLV/40							
927927086555	MASTER TL5 HE 35W/865	0.313	0.337	Cool Daylight	6500 K	82	87 lm/W	3,100 lm
9	SLV/40							

### Operating and Electrical

		Lamp Current	
Order Code	Full Product Name	(Nom)	Power Consumption
927926083055	MASTER TL5 HE 14W/830	0.165 A	14.0 W
	SLV/40		
927926084055	MASTER TL5 HE 14W/840	0.165 A	14.0 W
	SLV/40		
927926086555	MASTER TL5 HE 14W/865	0.165 A	14.0 W
	SLV/40		
927926283055	MASTER TL5 HE 21W/830	0.165 A	20.8 W
	SLV/40		
927926284055	MASTER TL5 HE 21W/840	0.165 A	20.8 W
	SLV/40		
927926286555	MASTER TL5 HE 21W/865	0.165 A	20.8 W
	SLV/40		
927926583055	MASTER TL5 HE 28W/830	0.170 A	28.1 W
	SLV/40		

		Lamp Current	
Order Code	Full Product Name	(Nom)	Power Consumption
927926584018	MASTER TL5 HE 28W/840	0.170 A	28.1 W
	UNP/40		
927926584055	MASTER TL5 HE 28W/840	0.170 A	28.1 W
	SLV/40		
927926586555	MASTER TL5 HE 28W/865	0.170 A	28.1 W
	SLV/40		
927927083055	MASTER TL5 HE 35W/830	0.175 A	34.9 W
	SLV/40		
927927084055	MASTER TL5 HE 35W/840	0.175 A	34.9 W
	SLV/40		
927927086555	MASTER TL5 HE 35W/865	0.175 A	34.9 W
	SLV/40		

#### **Approval and Application**

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926083055	MASTER TL5 HE 14W/830 SLV/40	14 kWh
927926084055	MASTER TL5 HE 14W/840 SLV/40	14 kWh
927926086555	MASTER TL5 HE 14W/865 SLV/40	14 kWh
927926283055	MASTER TL5 HE 21W/830 SLV/40	21 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926284055	MASTER TL5 HE 21W/840 SLV/40	21 kWh
927926286555	MASTER TL5 HE 21W/865 SLV/40	21 kWh
927926583055	MASTER TL5 HE 28W/830 SLV/40	29 kWh
927926584018	MASTER TL5 HE 28W/840 UNP/40	29 kWh

## **MASTER TL5 High Efficiency**

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926584055	MASTER TL5 HE 28W/840 SLV/40	29 kWh
927926586555	MASTER TL5 HE 28W/865 SLV/40	29 kWh
927927083055	MASTER TL5 HE 35W/830 SLV/40	35 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927927084055	MASTER TL5 HE 35W/840 SLV/40	35 kWh
927927086555	MASTER TL5 HE 35W/865 SLV/40	35 kWh



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