



# Beautiful sparkle, reliable life

## MASTERColour CDM-TP

Range of protected, high-efficiency, discharge lamps with a stable color over lifetime and a crisp, sparkling light to be used in open luminaires

### Benefits

- High lamp efficacy results in low operating costs and low heat generation
- Stable color impression over lifetime
- Long lamp life compared with incandescent and halogen lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types have UV-Block filtering for reduced fading risks

### Features

- Crisp white light
- Superior color quality
- Lamp design is well-suited to be used in luminaires for power-spots (high intensity) and high-bay general lighting
- Double UV-Block quartz sleeves and a hard-glass outer bulb

### Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

### Warnings and Safety

- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- 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.

# MASTERColour CDM-TP

## Versions



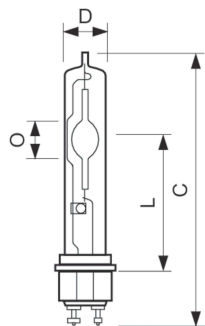
CDM-TP, PGX12-2



PGZX18., T12, Clear, Protected

## Dimensional drawing

D



Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-TP 70W/842 PG12-2 1CT/12	32.00 mm	6 mm	89 mm	93 mm	91 mm	149 mm
MASTERColour CDM-TP 150W/942 PGX12-2 1CT/12	32.00 mm	8 mm	89 mm	93 mm	91 mm	149 mm
MASTERColour CDM-TP 70W/830 PG12-2 1CT/12	32.00 mm	7 mm	89 mm	93 mm	91 mm	149 mm
MASTERColour CDM-TP 150W/830 PGX12-2 1CT/12	32.00 mm	9 mm	89 mm	93 mm	91 mm	149 mm

Product	D	D	C
GreenPowerCDM-TP 315W/T12/U/O GAV	1.5 in	38 mm	193 mm

### General information

Operating Position UNIVERSAL

### Mechanical and housing

Bulb Finish Clear

## Approval and application

## MASTERCcolour CDM-TP

Order Code	Full Product Name	Energy	Mercury	Mercury	Picogram
		Consumption	(Hg)	(Hg)	Per
		kWh/1000 h	Content	Content	Lumen
			(Max)	(Nom)	Hour
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	81 kWh	-	7.1 mg	-
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	81 kWh	-	5.2 mg	-
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	165 kWh	-	12.2 mg	-

Order Code	Full Product Name	Energy	Mercury	Mercury	Picogram
		Consumption	(Hg)	(Hg)	Per
		kWh/1000 h	Content	Content	Lumen
			(Max)	(Nom)	Hour
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	165 kWh	-	15 mg	-
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	346 kWh	28 mg	-	44.4 pg/lm.h

### Controls and dimming

Order Code	Full Product Name	Dimmable
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	No
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	No
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	No

Order Code	Full Product Name	Dimmable
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	No
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	-

### Operating and electrical

Order Code	Full Product Name	Lamp Current (EM)			Re-Ignition Time (Min)		
		(Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Nom)	(Max)
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	0.98 A	98 V	82 V	90 V	73.2 W	15 min
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	0.98 A	98 V	82 V	90 V	73.2 W	15 min
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	1.8 A	104 V	88 V	96 V	150.1 W	15 min
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	1.8 A	106 V	90 V	98 V	150.1 W	15 min
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	-	115 V	90 V	98 V	315.9 W	10 min

### General information

Order Code	Full Product Name	Life To 10%		Life To 20%	Life To 50%	Life To 5% Failures	Main Application
		Cap-Base	Failures (Nom)	Failures (Nom)	Failures (Nom)	(Nom)	
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	PG12-2	-	13000 h	16000 h	9000 h	-
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	PG12-2	-	13000 h	16000 h	9000 h	-
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	PGX12-2	-	13000 h	16000 h	9000 h	-
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	PGX12-2	-	13000 h	16000 h	9000 h	-
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	PGZX18	12000 h	-	20000 h	-	Agro

### Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	400 °C
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	400 °C
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	480 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	480 °C
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	350 °C

# MASTERCcolour CDM-TP

## Light technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color		Correlated Color	Color	Color
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Color Designation	Temperature (Nom)	Rendering Index (Min)	Rendering Index (Nom)
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	374	378	842	Cool White (CW)	4200 K	-	89
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	428	401	830	Warm White (WW)	3000 K	-	80
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	376	374	942	Cool White (CW)	4200 K	-	95
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	444	407	830	Warm White (WW)	3000 K	-	86
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	0.41	0.365	-	-	3100 K	-	92

## Light technical (2/2)

Order Code	Full Product Name	Luminous							
		Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Photosynthetic Photon Flux (PPF)
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	70 %	85 %	75 %	-	77 lm/W	-	5600 lm	-
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	65 %	80 %	70 %	-	82 lm/W	-	6000 lm	-
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	70 %	85 %	75 %	-	83 lm/W	-	12500 lm	-
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	65 %	72 %	70 %	-	88 lm/W	-	13200 lm	-
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	-	-	-	95 lm/W	104 lm/W	30000 lm	33000 lm	599 µmol/s

## Mechanical and housing

Order Code	Full Product Name	Bulb Shape
928085909230	MASTERCcolour CDM-TP 70W/842 PG12-2 1CT/12	T31
928086909230	MASTERCcolour CDM-TP 70W/830 PG12-2 1CT/12	T31
928086209230	MASTERCcolour CDM-TP 150W/942 PGX12-2 1CT/12	T31
928087009230	MASTERCcolour CDM-TP 150W/830 PGX12-2 1CT/12	T31
928493400030	GreenPowerCDM-TP 315W/T12/U/O GAV	T12

