



# MASTERCcolour CDM-T Elite



## MASTERCcolour CDM-T Elite 20W/830 G12 1CT/12

Single-ended, high-efficiency Ceramic Metal Halide discharge lamp

### Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear. 35W & 70W lamps may also use electromagnetic 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.

### Product data

General Information	
Cap base	G12 [ G12]
Burning Position	UNIVERSAL [ Any/Universal]
Life to 5% failures (nom.)	12000 h
Life to 10% failures (nom.)	14000 h
Life to 20% failures (nom.)	16000 h
Life to 50% failures (nom.)	20000 h
ANSI code HID	C156/E
	Sphere
Light Technical	
Colour Code	830 [ CCT of 3,000 K]
Lamp Luminous Flux 25°C EL (Nom)	1800 lm
Lamp Luminous Flux (Min)	1620 lm
Lamp Luminous Flux (Nom)	1800 lm

Colour Designation	Warm white (WW)
Lumen maintenance 12,000 hours (nom.)	77 %
Lumen maintenance 10,000 hours (nom.)	78 %
Lumen maintenance 2,000 hours (nom.)	87 %
Lumen maintenance 5,000 hours (nom.)	83 %
Chromaticity coordinate X (nom.)	0.434
Chromaticity coordinate Y (nom.)	0.398
Colour Temperature, horizontal (Nom)	3000 K
Lamp Luminous Efficacy EM (Nom)	90 lm/W
Colour Rendering Index,horiz (Nom)	84
Operating and Electrical	
Power (Rated) (Min)	20.0 W
Power (Rated) (Nom)	20.1 W
Lamp current run-up (max.)	0.5 A

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Re-ignition time (min.) (max.)	15 min
Ignition time (max.)	30 s
Voltage (Max)	100 V
Voltage (Min)	90 V
Voltage (Nom)	95 V

## Controls and Dimming

Dimmable	No
Run-up time 90% (max.)	3 min

## Mechanical and Housing

Lamp Finish	Clear
Bulb shape	T19 [ T 19mm]

## Approval and Application

Energy Efficiency Class	G
Mercury (Hg) content (max.)	3.5 mg
Mercury (Hg) content (nom.)	3.5 mg
Energy consumption kWh/1,000 hours	21 kWh
	473252

## UV

PET (NIOSH) (min.)	8 h/500lx
Damage factor D/fc (max.)	0.4

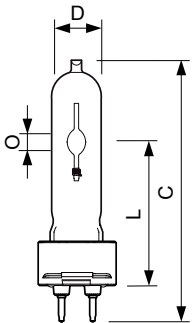
## Luminaire Design Requirements

Bulb temperature (max.)	250 °C
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## Product Data

Full product code	872790087156200
Order product name	MASTERCcolour CDM-T Elite 20W/830 G12
	1CT/12
EAN/UPC – product	8727900871562
Order code	928183305125
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928183305125
SAP net weight (piece)	27.000 g
ILCOS code	MT/UB-20/830-H-G12-20/90

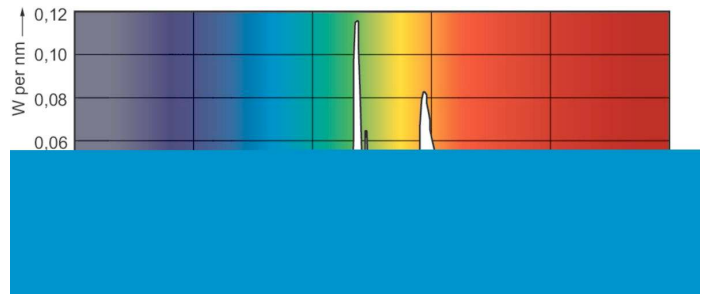
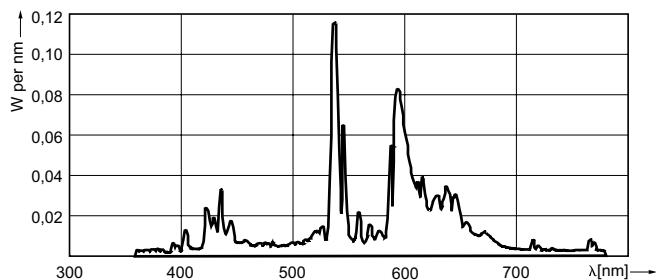
## Dimensional drawing



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Product	D (max)	D O	L (min)	L (max)	L	C (max)
MASTERCcolour CDM-T Elite 20W/830 G12 1CT/12	20 mm	4 mm	55 mm	57 mm	56 mm	103 mm

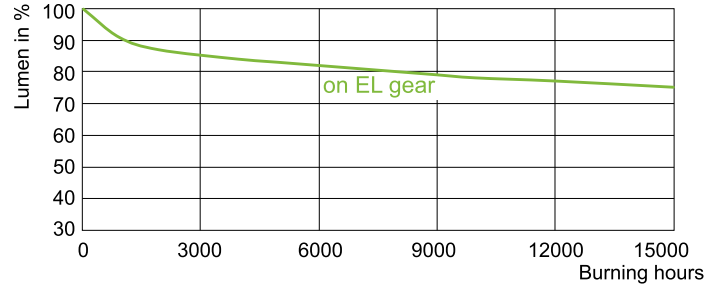
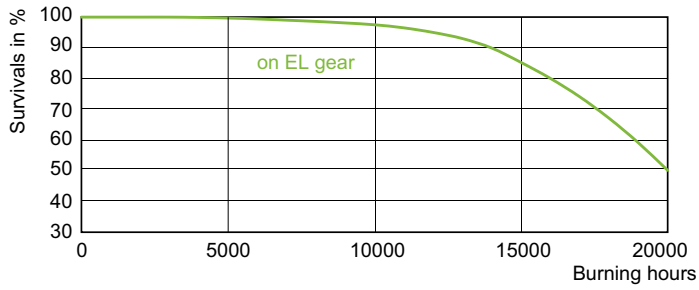
## Photometric data



LDPB\_CDM-T\_20W\_830-Spectral power distribution B/W

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## Lifetime



LDLE\_CDM-T-E\_0006-Life expectancy diagram

LDLM\_CDM-T\_20W\_830-Lumen maintenance diagram

