MASTERColour CDM-T

MASTERColour CDM-T 70W/942 G12 1CT

Range of single-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light

Product data

• General Characteristics

Cap-Base	G12
Bulb	T19 [T 19mm]
Bulb Finish	Clear
Burning Position	any [Any/Universal]
Life to 5% failures EM	9000 hr
Life to 5% failures EL	9000 hr
Life to 10% failures EM	10000 hr
Life to 10% failures EL	10000 hr
Life to 20% failures EM	11000 hr
Life to 20% failures EL	11000 hr
Life to 50% failures EM	12000 hr
Life to 50% failures EL	12000 hr

• Light Technical Characteristics

Colour Code	942 [CCT of 4200K]
Colour Rendering Index	92 Ra8
Colour Designation	Cool White
Colour Temperature	4200 K
Colour Temperature Technical	4185 K
Lamp Luminous Flux EM	6600 Lm
Lamp Luminous Flux EL	6600 Lm
Lamp Luminous Efficacy EM	92 Lm/W
Lamp Luminous Efficacy EL	92 Lm/W
Lumen Maintenance EM 2000h	85 %
Lumen Maintenance EL 2000h	85 %
Lumen Maintenance EM 5000h	70 %
Lumen Maintenance EL 5000h	75 %
Lumen Maintenance EM 10000h	55 %
Lumen Maintenance EL 10000h	65 %
Design Mean Lumens EL	4900 Lm
Design Mean Lumens EM	3900 Lm
Chromaticity Coordinate X	0.377 -
Chromaticity Coordinate Y	0.376 -

• Electrical Characteristics

System Power EM	88 W
System Power EL	80 W
Lamp Wattage	70 W
Lamp Wattage EM 25°C, Nominal	70.0 W
Lamp Wattage EM 25°C, Rated	72.0 W
Lamp Wattage EL 25°C, Rated	73.0 W
Lamp Wattage EL 25°C, Nominal	70.0 W
Lamp Voltage	88 V
Lamp Current EM	0.98 A
Lamp Current EL	0.87 A

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Ignition Time	30 (max) s
Run-up time 90%	3 (max) min
Ignition Peak Voltage	3500 (min) V
Re-ignition Time [min]	15 (max) min
Dimmable	no

- Environmental Characteristics

Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content	6.1 mg
Energy consumption kWh/1000h	80 kWh

- UV-related Characteristics

PET (NIOSH)	35 h.klx
Damage Factor D/fc	0.35 -

- Luminaire Design Requirements

Cap-Base Temperature	280 (max) C
Pinch Temperature	350 (max) C
Bulb Temperature	500 (max) C

- Product Dimensions

Reference Length A	90 (max) mm
Overall Length C	103 (max) mm
Diameter D	20 (max) mm
Light Center Length L	55 (min), 56 (nom), 57 (max) mm
Arc Length O	6 mm
Light Center Length L [inch]	2.21875 in
Overall Length C [inch]	3.9375 (max) in
Diameter D [inch]	0.75 in

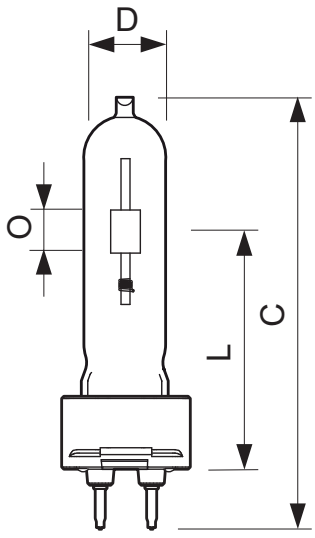
- Product Data

Order code	199270 15
Full product code	871150019927015
Full product name	MASTERColour CDM-T 70W/942 G12 1CT
Order product name	MASTERC CDM-T 70W/942 G12 1CT/12
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8711500199270
Bar code on outerbox - EAN3	8711500199287
Logistic code(s) - 12NC	928084505131
ILCOS code	MT/UB-70/942-H-G12-20/90
Net weight per piece	0.029 kg

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
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- Lamps may use electronic or electromagnetic control gear, except 35W/942 and 20W lamps, which must use electronic control gear.

Dimensional drawing



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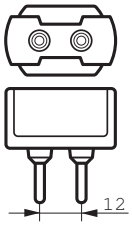
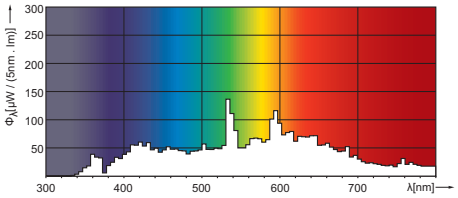
Product	C (Max)	D (Max)	L (Min)	L (Norm)	L (Max)	O (Norm)
CDM-T 70W/942 G12	103	20	55	56	57	6

Dimensional drawing



G12

Photometric data



MASTERColour CDM-T 70W, 150W /942

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2013, October 8
data subject to change