

MASTERC colour CDM-T

MASTERC colour CDM-T 70W/830 G12 1CT

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



Product data

• Product Data

Order code	196996 15
Full product code	871150019699615
Full product name	MASTERC colour CDM-T 70W/830 G12 1CT
Order product name	MASTERC CDM-T 70W/830 G12 1CT/12
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8711500196996
Bar code on outerbox - EAN3	8711500197009
Logistic code(s) - 12NC	928082305125
ILCOS code	MT-70/30/1B-H-G12
Net weight per piece	0.029 kg

• General Characteristics

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

Life to 10% failures EL	10000 hr
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• Electrical Characteristics

System Power EM	88 W
System Power EL	83 W
Lamp Wattage	70 W
Lamp Wattage EM	71.0 W
Lamp Wattage EL	73 W
Lamp Voltage	88 V
Lamp Current EM	0.98 A
Lamp Current EL	0.87 A
Ignition Time	30 s
Run-up time 90%	3 min
Ignition Peak Voltage	3500 V
Re-ignition Time [min]	15 min
Dimmable	no

• Environmental Characteristics

Mercury (Hg) Content	4.5 mg
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• Light Technical Characteristics

Colour Code	830 [CCT of 3000K]
Colour Rendering Index	84 Ra8
Colour Designation	Warm white
Colour Temperature	3070 K
Colour Temperature Technical	3070 K
Chromaticity Coordinate X	0.428 -

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sense and simplicity

MASTERColour CDM-T

Chromaticity Coordinate Y	0.394 -
Lamp Luminous Flux EM	6600 Lm
Lamp Luminous Flux EL	6600 Lm
Lamp Luminous Efficacy EM	93 Lm/W
Lumen Maintenance EM 2000h	85 %
Lumen Maintenance EL 2000h	85 %
Lumen Maintenance EM 5000h	75 %
Lumen Maintenance EL 5000h	80 %
Lumen Maintenance EM 10000h	60 %
Lumen Maintenance EL 10000h	70 %

• UV-related Characteristics

PET (NIOSH)	64 h.klx
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Damage Factor D/fc	0.22 -
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• Product Dimensions

Reference Length A	90 mm
Overall Length C	103 mm
Diameter D	20 mm
Light Center Length L	55 (min), 56 (nom), 57 (max) mm
Arc Length O	7 mm
Light Center Length L [inch]	2.21875 in
Overall Length C [in]	3.9375 in
Diameter [inch]	0.75 in

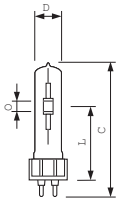
• Luminaire Design Requirements

Cap-Base Temperature	280 C
Pinch Temperature	350 C
Bulb Temperature	500 C

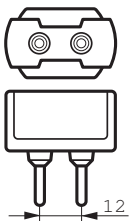
Warnings and Safety

- 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.

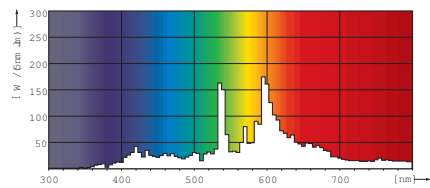
Dimensional drawing



Product	C (Max)	D (Max)	L (Min)	L (Norm)	L (Max)	O (Min)	O (Norm)	O (Max)
CDM-T 70W/830 G12	103	20	55	56	57	-	7	-



Photometric data



MASTERColour CDM-T 35 & 70W /830



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