

MASTERCcolour CDM-TC

MASTERCcolour CDM-TC 70W/830 G8.5 1CT

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



Product data

• General Characteristics

Cap-Base	G8.5
Bulb	T14 [T 14 mm]
Bulb Material	UV-Block Quartz
Bulb Finish	Clear
Operating Position	any [Any or Universal (U)]
Life to 5% failures EL	6000 hr
Life to 10% failures EL	8000 hr
Life to 20% failures EL	9000 hr
Life to 50% failures EL	12000 hr

• Light Technical Characteristics

Color Code	830 [CCT of 3000K]
Color Rendering Index	80 (min), 83 (nom) Ra8
Color Designation (text)	Warm White
Color Temperature	3000 K
Color Temperature Technical	2915 K
Luminous Flux Lamp EL	6400 Lm
Luminous Efficacy Lamp EL	88 Lm/W
Lumen Maintenance EL 2000h	85 %
Lumen Maintenance EL 5000h	75 %
Lumen Maintenance EL 10000h	65 %
Design Mean Lumens EL	5100 Lm

Chromaticity Coordinate X	0.439 -
Chromaticity Coordinate Y	0.398 -

• Electrical Characteristics

System Power EL	83 W
Lamp Wattage	70 W
Lamp Wattage EL 25°C, Rated	73.0 W
Lamp Wattage EL 25°C, Nominal	70.0 W
Lamp Voltage	83 V
Lamp Current EL	0.87 A
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	4.5 mg
Energy consumption kWh/1000h	80 kWh

• UV-related Characteristics

Damage Factor D/fc PET (NIOSH)	0.3 (max) - 8 (min) h500lx
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MASTERColour CDM-TC

• Luminaire Design Requirements

Pinch Temperature	300 (max) C
Bulb Temperature	550 (max) C

• Product Dimensions

Overall Length C	85 (max) mm
Diameter D	15 (max) mm
Light Center Length L	51 (min), 52 (nom), 53 (max) mm
Arc Length O	7 mm
Light Center Length L [inch]	2 in
Overall Length C [inch]	3.34375 (max) in
Diameter D [inch]	0.5 in

• Product Data

Order code	928086505131
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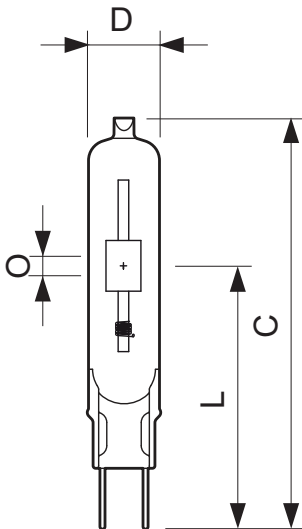
Full product code	928086505131
Full product name	MASTERColour CDM-TC 70W/830 G8.5 1CT
Order product name	MASTERC CDM-TC 70W/830 G8.5 1CT/12
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8711500201676
Bar code on outerbox - EAN3	8711500201683
Logistic code(s) - 12NC	928086505131
ILCOS code	MT/UB-70/830-H-G8.5-17/85
Net weight per piece	0.010 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)
- Use only with electronic control gear. 35W/830 lamps may also use electromagnetic gear.

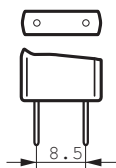
Dimensional drawing



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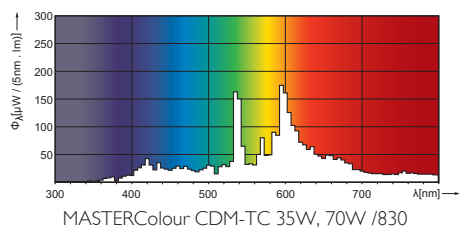
Product	C (Max)	D (Max)	L (Min)	L (Norm)	L (Max)	O (Norm)
CDM-TC 70W/830 G8.5	85	15	51	52	53	7

Dimensional drawing



G8.5

Photometric data



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2014, April 10
data subject to change