



# MASTERColour CDM-TC

MASTERColour 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 50% failures EL	12000 hr
Life to 5% failures EL	6000 hr
Life to 20% failures EL	9000 hr
Life to 10% failures EL	8000 hr

### • Electrical Characteristics

System Power EL	83 W
Lamp Wattage	70 W
Lamp Wattage EL	73 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

Mercury (Hg) Content	4.5 mg
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### • Light Technical Characteristics

Color Code	830 [CCT of 3000K]
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Color Rendering Index	80 (min), 83 (nom) Ra8
Color Designation (text)	Warm White
Color Temperature Technical	3000 K
Chromaticity Coordinate X	0.439 -
Chromaticity Coordinate Y	0.398 -
Luminous Flux Lamp EL	6500 Lm
Luminous Efficacy Lamp EL	89 Lm/W
Lumen Maintenance EL 2000h	85 %
Lumen Maintenance EL 5000h	75 %
Lumen Maintenance EL 10000h	65 %

### • UV-related Characteristics

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

### • 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 [in]	3.34375 (max) in

# PHILIPS

sense and simplicity

# MASTERCcolour CDM-TC

Diameter [inch]- D 0.5 in

• **Luminaire Design Requirements**

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

• **Product Data**

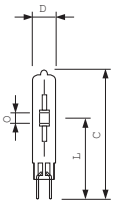
Order code 928086505131  
 Full product code 928086505131  
 Full product name MASTERCcolour CDM-TC 70W/830 G8.5 1CT

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-70/30/1B-H-G8.5  
 Net weight per piece 0.010 kg

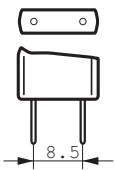
## Warnings and Safety

- 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.

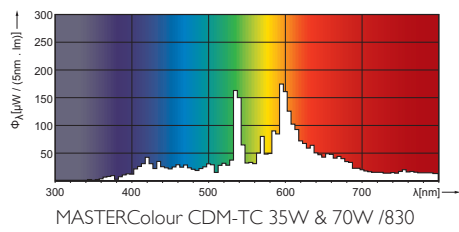
## Dimensional drawing



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



## Photometric data



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[www.philips.com/lighting](http://www.philips.com/lighting)

2011, July 12  
data subject to change