

MASTERCcolour CDM-T

MASTERCcolour CDM-T 70W/830 G12 1CT

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



Product data

• General Characteristics

| | |
|-------------------------|----------------------------|
| Cap-Base | G12 |
| Bulb | T19 [T 19mm] |
| Bulb Finish | Clear |
| Operating Position | any [Any or Universal (U)] |
| 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

| | |
|-----------------------------|--------------------|
| Color Code | 830 [CCT of 3000K] |
| Color Rendering Index | 84 Ra8 |
| Color Designation (text) | Warm White |
| Color Temperature | 3000 K |
| Color Temperature Technical | 3070 K |
| Luminous Flux Lamp EM | 6600 Lm |
| Luminous Flux Lamp EL | 6600 Lm |
| Luminous Efficacy Lamp 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 % |
| Design Mean Lumens EL | 5250 Lm |
| Design Mean Lumens EM | 4400 Lm |
| Chromaticity Coordinate X | 0.432 - |
| Chromaticity Coordinate Y | 0.395 - |

• Electrical Characteristics

| | |
|-------------------------------|--------|
| System Power EM | 88 W |
| System Power EL | 83 W |
| Lamp Wattage | 70 W |
| Lamp Wattage EM 25°C, Nominal | 70.0 W |
| Lamp Wattage EM 25°C, Rated | 71.0 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 |

PHILIPS

MASTERC colour CDM-T

| | |
|------------------------|--------------|
| 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

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

• 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 | 7 mm |
| Light Center Length L [inch] | 2.21875 |
| Overall Length C [inch] | 3.9375 (max) in |
| Diameter D [inch] | 0.75 in |

• Product Data

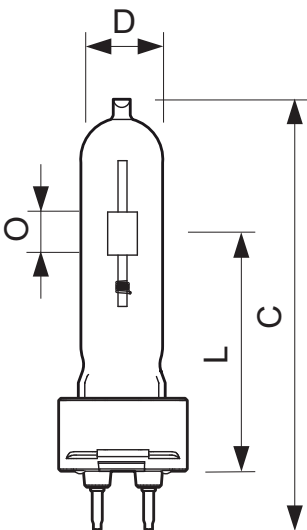
| | |
|-----------------------------|--------------------------------------|
| Order code | 928082305125 |
| Full product code | 928082305125 |
| Full product name | MASTERC colour CDM-T 70W/830 G12 1CT |
| Order product name | MASTERC CDM-T 70W/830 G12 1CT/12 |
| Pieces per pack | 1 |
| Packing configuration | 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/UB-70/830-H-G12-20/90 |
| Net weight per piece | 0.029 kg |

- 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.

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

Dimensional drawing



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

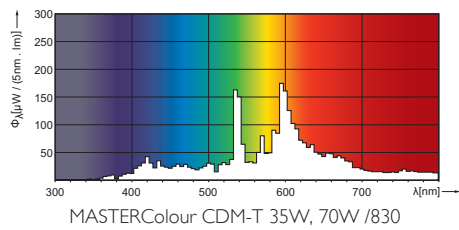
| Product | C (Max) | D (Max) | L (Min) | L (Norm) | L (Max) | O (Norm) |
|-------------------|---------|---------|---------|----------|---------|----------|
| CDM-T 70W/830 G12 | 103 | 20 | 55 | 56 | 57 | 7 |

Dimensional drawing



G12

Photometric data



© 2013 Koninklijke Philips N.V. (Royal Philips)
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

www.philips.com/lighting

2013, October 9
data subject to change