



# MASTERColour CDM-TC Elite

## MASTERColour CDM-TC Elite 20W/830 G8.5 1CT/12

Single-ended, compact size, high-efficiency Ceramic Metal Halide discharge lamp

### 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
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

### Product data

| General information         |                            |                                       |                 |
|-----------------------------|----------------------------|---------------------------------------|-----------------|
| Cap base                    | G8.5 [ G8.5]               | Lamp Luminous Flux (Min)              | 1620 lm         |
| Burning Position            | UNIVERSAL [ Any/Universal] | Lamp Luminous Flux (Nom)              | 1750 lm         |
| Life to 5% failures (nom.)  | 12000 h                    | Colour Designation                    | Warm white (WW) |
| Life to 10% failures (nom.) | 14000 h                    | Lumen maintenance 12,000 hours (nom.) | 77 %            |
| Life to 20% failures (nom.) | 16000 h                    | Lumen maintenance 10,000 hours (nom.) | 78 %            |
| Life to 50% failures (nom.) | 20000 h                    | Lumen maintenance 2,000 hours (nom.)  | 87 %            |
| ANSI code HID               | -                          | Lumen maintenance 5,000 hours (nom.)  | 83 %            |
|                             | Sphere                     | Chromaticity coordinate X (nom.)      | 0.434           |
|                             |                            | Chromaticity coordinate Y (nom.)      | 0.398           |
|                             |                            | Colour Temperature, horizontal (Nom)  | 3000 K          |
|                             |                            | Lamp Luminous Efficacy EM (Nom)       | 87 lm/W         |
|                             |                            | Colour Rendering Index,horiz (Nom)    | 85              |

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## Operating and electrical

|                                |        |
|--------------------------------|--------|
| Power (Rated) (Min)            | 20.0 W |
| Power (Rated) (Nom)            | 20.1 W |
| Lamp current run-up (max.)     | 0.5 A  |
| Re-ignition time (min.) (max.) | 15 min |
| Ignition time (max.)           | 30 s   |
| Voltage (Max)                  | 100 V  |
| Voltage (Min)                  | 90 V   |
| Voltage (Nom)                  | 95 V   |

## Controls and dimming

|                        |       |
|------------------------|-------|
| Dimmable               | No    |
| Run-up time 90% (max.) | 3 min |

## Mechanical and housing

|               |                 |
|---------------|-----------------|
| Lamp Finish   | Clear           |
| Bulb material | UV-Block Quartz |
| Bulb shape    | T14 [ T 14 mm]  |

## Approval and application

|                                    |        |
|------------------------------------|--------|
| Energy Efficiency Class            | G      |
| Mercury (Hg) content (max.)        | 3.5 mg |
| Mercury (Hg) content (nom.)        | 3.5 mg |
| Energy consumption kWh/1,000 hours | 21 kWh |

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## UV

|                           |           |
|---------------------------|-----------|
| PET (NIOSH) (min.)        | 8 h/500lx |
| Damage factor D/fc (max.) | 0.4       |

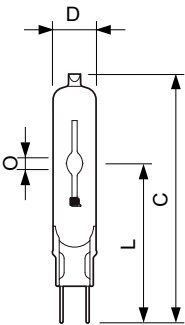
## Luminaire design requirements

|                          |        |
|--------------------------|--------|
| Bulb temperature (max.)  | 320 °C |
| Pinch temperature (max.) | 300 °C |

## Product data

|                                   |   |
|-----------------------------------|---|
| Full product code                 | 872790087158600                               |
| Order product name                | MASTERColour CDM-TC Elite 20W/830 G8.5 1CT/12 |
| EAN/UPC – product                 | 8727900871586                                 |
| Order code                        | 928183405125                                  |
| SAP numerator – quantity per pack | 1   |
| Numerator – packs per outer box   | 12  |
| SAP material                      | 928183405125                                  |
| Copy Net Weight (Piece)           | 9.000 g                                       |
| ILCOS code                        | MT/UB-20/830-H-G8.5-17/85                     |

## Dimensional drawing

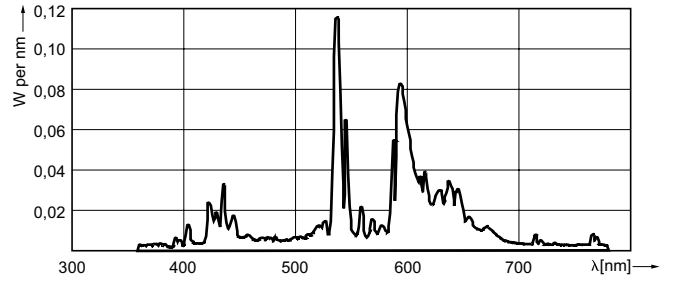


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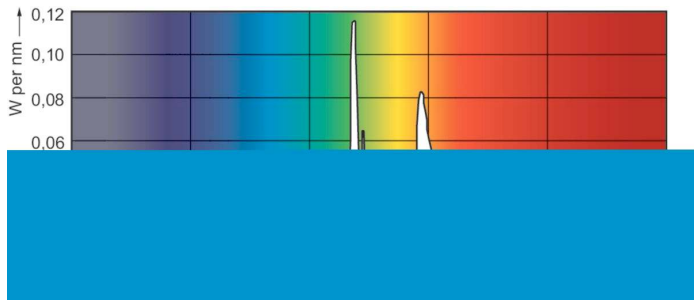
| Product                                       | D (max) | D       | O    | L (min) | L (max) | L     | C (max) |
|---|---------|---------|------|---------|---------|-------|---------|
| MASTERColour CDM-TC Elite 20W/830 G8.5 1CT/12 | 15 mm   | 0.55 in | 4 mm | 51 mm   | 53 mm   | 52 mm | 85 mm   |

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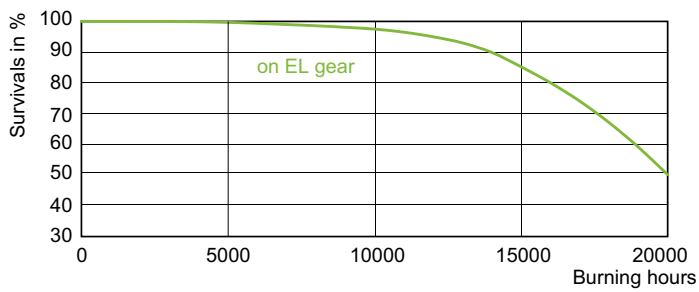
## Photometric data



LDPB\_CDM-TC\_20W\_830-Spectral power distribution B/W



## Lifetime



LDLE\_CDM-T-E\_0006-Life expectancy diagram

## MASTERCcolour CDM-TC Elite

