



MASTERColour CDM-TC Elite

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

Compact, single-ended, very high-efficiency, long-life ceramic metal-halide discharge lamp producing crisp white sparkling light with high color rendering

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] | Luminous flux (nom.) | 1750 lm |
| Operating position | UNIVERSAL [Any or Universal (U)] | Luminous flux (rated) (min.) | 1620 lm |
| Life to 5% failures (nom.) | 12000 h | Luminous flux (rated) (nom.) | 1750 lm |
| Life to 10% failures (nom.) | 14000 h | Colour designation | Warm White (WW) |
| Life to 20% failures (nom.) | 16000 h | Lumen maintenance 12,000 hours (nom.) | 77 % |
| Life to 50% failures (nom.) | 20000 h | Lumen maintenance 10,000 hours (nom.) | 78 % |
| ANSI code HID | - | Lumen maintenance 2,000 hours (nom.) | 87 % |
| | Sphere | Lumen maintenance 5,000 hours (nom.) | 83 % |
| | | Chromaticity coordinate X (nom.) | 0.434 |
| | | Chromaticity coordinate Y (nom.) | 0.398 |
| | | Correlated Colour Temperature (Nom) | 3000 K |
| | | Luminous efficacy (rated) (nom.) | 87 lm/W |
| Light Technical | | | |
| Colour Code | 830 [CCT of 3,000 K] | | |

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| Colour rendering index (nom.) | 85 |
|-------------------------------|----|

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 |
| | 473254 |

UV

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

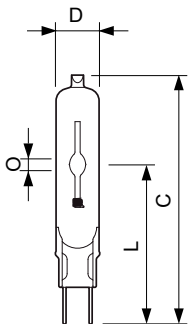
Luminaire Design Requirements

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

Product Data

| | |
|-----------------------------------|---|
| Full product code | 872790087158600 |
| Order product name | MASTERCLOUR CDM-TC Elite 20W/830 G8.5 1CT/12 |
| EAN/UPC – product | 8727900871586 |
| Order code | 87158600 |
| SAP numerator – quantity per pack | 1 |
| Numerator – packs per outer box | 12 |
| SAP material | 928183405125 |
| SAP net weight (piece) | 9.000 g |
| ILCOS code | MT/UB-20/830-H-G8.5-17/85 |

Dimensional drawing

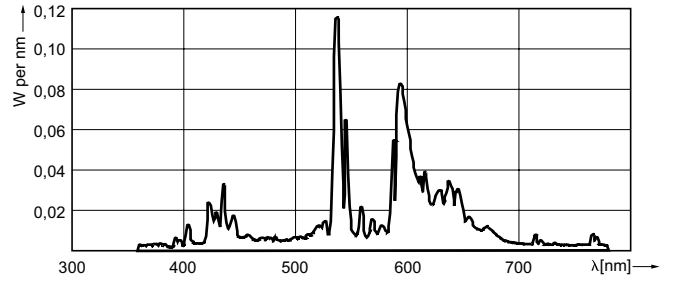
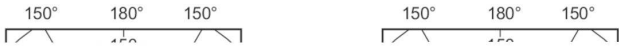


CDM-TC 20W/830 G8.5

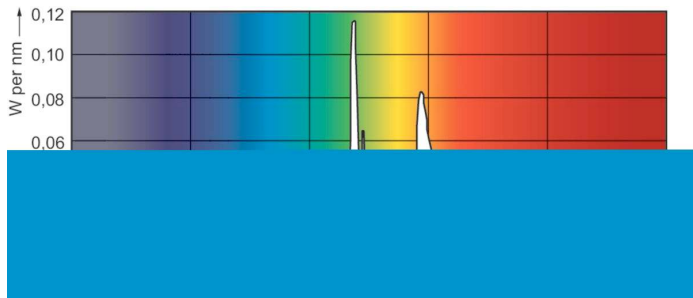
| Product | D (max) | D | O | L (min) | L (max) | L | C (max) |
|---------------------------------------|---------|---------|------|---------|---------|-------|---------|
| MASTERCLOUR CDM-TC Elite 20W/830 G8.5 | 15 mm | 0.55 in | 4 mm | 51 mm | 53 mm | 52 mm | 85 mm |
| 1CT/12 | | | | | | | |

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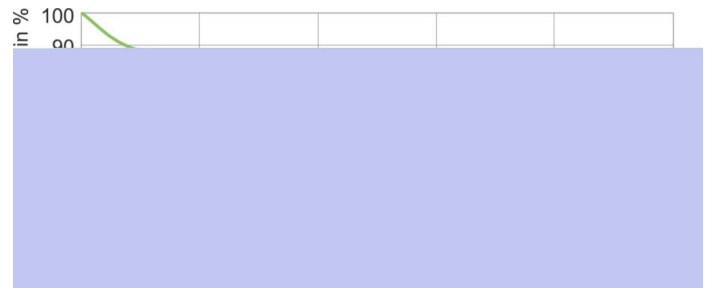
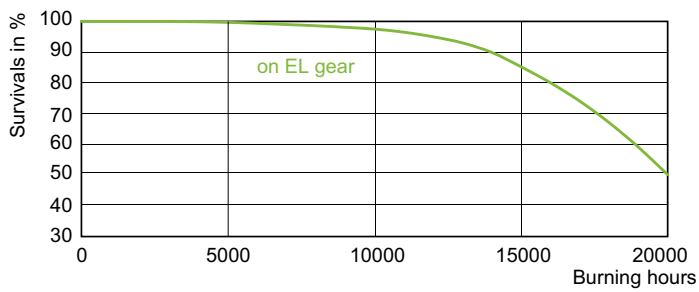
Photometric data



LDPB_CDM-TC_20W_830-Spectral power distribution B/W



Lifetime



LDLE_CDM-T-E_0006-Life expectancy diagram

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