



# MASTERColour CDM-T Elite

MASTERColour CDM-T Elite 70W/942 G12 1CT

Single-ended, very high-efficiency, long-life Ceramic Metal Halide discharge lamp producing crisp white sparkling light with high color rendering

## 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 EL  | 9000 hr                    |
| Life to 10% failures EL | 10000 hr                   |
| Life to 20% failures EL | 12000 hr                   |
| Life to 50% failures EL | 15000 hr                   |

### • Light Technical Characteristics

|                             |                        |
|-----------------------------|------------------------|
| Color Code                  | 942 [CCT of 4200K]     |
| Color Rendering Index       | 87 (min), 90 (nom) Ra8 |
| Color Designation (text)    | Cool White             |
| Color Temperature           | 4200 K                 |
| Color Temperature Technical | 4200 K                 |
| Luminous Flux Lamp EM       | 7200 Lm                |
| Luminous Flux Lamp EL       | 7500 Lm                |
| Luminous Efficacy Lamp EM   | 100 Lm/W               |
| Luminous Efficacy Lamp EL   | 103 Lm/W               |
| Lumen Maintenance EL 1000h  | 95 %                   |
| Lumen Maintenance EL 2000h  | 93 %                   |
| Lumen Maintenance EL 4000h  | 90 %                   |

|                             |         |
|-----------------------------|---------|
| Lumen Maintenance EL 5000h  | 88 %    |
| Lumen Maintenance EL 8000h  | 85 %    |
| Lumen Maintenance EL 10000h | 82 %    |
| Lumen Maintenance EL 12000h | 81 %    |
| Lumen Maintenance EL 15000h | 80 %    |
| Design Mean Lumens EL       | 6600 Lm |
| Chromaticity Coordinate X   | 0.371 - |
| Chromaticity Coordinate Y   | 0.366 - |

### • Electrical Characteristics

|                               |              |
|-------------------------------|--------------|
| System Power EL               | 80 W         |
| Lamp Wattage                  | 70 W         |
| Lamp Wattage EM 25°C, Nominal | 70.0 W       |
| Lamp Wattage EM 25°C, Rated   | 72.0 W       |
| Lamp Wattage EL 25°C, Rated   | 73.0 W       |
| Lamp Wattage EL 25°C, Nominal | 70.0 W       |
| Lamp Voltage                  | 84 V         |
| Lamp Current EM               | 1 A          |
| Lamp Current EL               | 0.89 A       |
| Ignition Time                 | 30 (max) s   |
| Run-up time 90%               | 3 (max) min  |
| Re-ignition Time [min]        | 15 (max) min |
| Dimmable                      | No           |

## • Environmental Characteristics

|                               |        |
|-------------------------------|--------|
| Energy Efficiency Label (EEL) | A+     |
| Mercury (Hg) Content          | 6.0 mg |
| Energy consumption kWh/1000h  | 80 kWh |

## • UV-related Characteristics

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| Damage Factor D/fc PET (NIOSH) | 0.4 (nom), 0.5 (max) - 8 (min), 20 (nom) h500lx |
|--------------------------------|-------------------------------------------------|

## • Luminaire Design Requirements

|                      |             |
|----------------------|-------------|
| Cap-Base Temperature | 250 (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                 | 7.15 mm                               |
| Light Center Length L [inch] | 2.16 (min), 2.20 (nom), 2.24 (max) in |
| Overall Length C [inch]      | 4 (max) in                            |
| Diameter D [inch]            | 0.79 (max) in                         |

## • Product Data

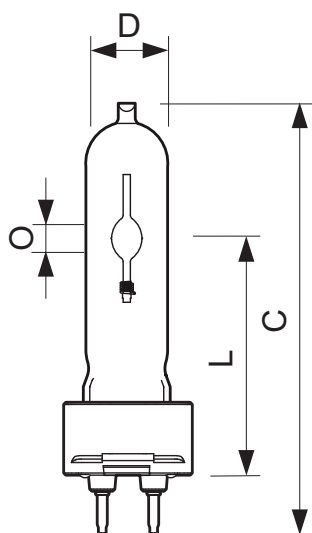
|                             |                                          |
|-----------------------------|------------------------------------------|
| Order code                  | 928193705192                             |
| Full product code           | 928193705192                             |
| Full product name           | MASTERColour CDM-T Elite 70W/942 G12 1CT |
| Order product name          | MASTERC CDM-T Elite 70W/942 G12 1CT/12   |
| Pieces per pack             | 1                                        |
| Packing configuration       | 12                                       |
| Packs per outerbox          | 12                                       |
| Bar code on pack - EAN1     | 8718291688662                            |
| Bar code on outerbox - EAN3 | 8718291688679                            |
| Logistic code(s) - 12NC     | 928193705192                             |
| ILCOS code                  | MT/UB-70/942-H-G12-20/90                 |
| Net weight per piece        | 29.000 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

- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC61167, IEC 62035)

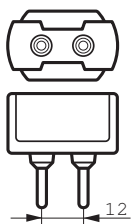
## Dimensional drawing



## MASTERColour CDM-T Elite 70W/942 G12 1CT

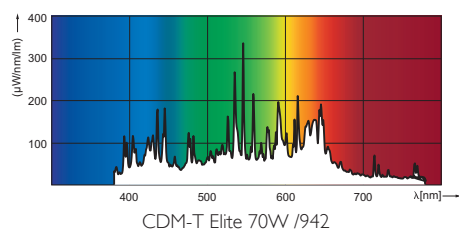
| Product                  | C (Max) | D (Max) | L (Min) | L (Norm) | L (Max) | O (Norm) |
|--------------------------|---------|---------|---------|----------|---------|----------|
| CDM-T ACCENT 70W/942 G12 | 103     | 20      | 55      | 56       | 57      | 7.15     |

## Dimensional drawing



G12

## Photometric data



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data subject to change