



# Simply irresistible. Superior light quality from start to finish

## MasterColor CDM-T T6

MasterColor CDM lamp gives a unique combination of unbeatable light quality and consistent performance over lifetime while keeping running costs low. The Philips MasterColor Tubular Single-Ended T6 lamp is a compact, energy efficient, ceramic metal halide lamp that provides crisp, sparkling light.

### Benefits

- Energy-efficient alternative to incandescent/halogen.
- Improved lumen maintenance over standard metal halide.
- A compact solution for retail displays.

### Features

- Universal burning position.
- 81-85 CRI (color rendering index)
- Color stability over life within  $\pm 200\text{K}$ .
- Lamp to lamp color consistency over life.
- Lamps feature FadeBlock, an integrated UV blocking medium for reduced fading of fabrics and paintings.
- 22W, 39W, 70W and 150W versions.

### Application

- Ideal for retail display lighting, general and indirect lighting, wall washing and fiberoptic systems.

# MasterColor CDM-T T6

## Versions



CDM-T 70W, /830, /942 G12

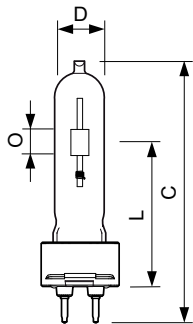


CDM-T 35W /830, /842 G12



CDM-T, 150W, G12

## Dimensional drawing



| Product                                | D (max) | D       | O    | L (min) | L (max) | L     | C (max) |
|--|---------|---------|------|---------|---------|-------|---------|
| CDM150/T6/942 12PK                     | 20 mm   | 0.75 in | 8 mm | 55 mm   | 57 mm   | 56 mm | 110 mm  |
| MasterColor CDM-T<br>70W/942 G12 T6 CL | 20 mm   | 0.75 in | 6 mm | 55 mm   | 57 mm   | 56 mm | 103 mm  |
| CDM150/T6/830 12PK                     | 20 mm   | 0.75 in | 9 mm | 55 mm   | 57 mm   | 56 mm | 110 mm  |
| MasterColor CDM-T<br>35W/830 G12 T6 CL | 20 mm   | 0.75 in | 5 mm | 55 mm   | 57 mm   | 56 mm | 103 mm  |
| MasterColor CDM-T<br>70W/830 G12 T6 CL | 20 mm   | 0.75 in | 7 mm | 55 mm   | 57 mm   | 56 mm | 103 mm  |

### Controls and Dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

### Operating and Electrical

|                              |        |
|------------------------------|--------|
| Re-ignition Time (Min) (Max) | 15 min |
|------------------------------|--------|

### General Information

|                            |           |
|----------------------------|-----------|
| Cap-Base                   | G12       |
| Life To 10% Failures (Nom) | 10000 h   |
| Life To 20% Failures (Nom) | 11000 h   |
| Life To 50% Failures (Nom) | 12000 h   |
| Life To 5% Failures (Nom)  | 9000 h    |
| Operating Position         | UNIVERSAL |

### Mechanical and Housing

|             |       |
|-------------|-------|
| Bulb Finish | Clear |
| Bulb Shape  | T19   |

## Approval and Application

| Order Code   | Full Product Name                      | Energy Consumption<br>kWh/1000 h | Energy                    |                               |
|--------------|--|----------------------------------|---------------------------|-------------------------------|
|              |  |                                  | Efficiency Label<br>(EEL) | Mercury (Hg)<br>Content (Nom) |
| 928082305115 | MasterColor CDM-T 70W/830<br>G12 T6 CL | 80 kWh                           | A+                        | 4.6 mg                        |
| 928084505115 | MasterColor CDM-T 70W/942<br>G12 T6 CL | 80 kWh                           | A+                        | 6.1 mg                        |
| 928083105115 | MasterColor CDM-T 35W/830<br>G12 T6 CL | 43 kWh                           | A                         | 3.1 mg                        |
| 928083705115 | CDM150/T6/830 12PK                     | 162 kWh                          | A+                        | 14.3 mg                       |
| 928084605115 | CDM150/T6/942 12PK                     | 162 kWh                          | A                         | 10.4 mg                       |

## Operating and Electrical (1/2)

## MasterColor CDM-T T6

| Order Code   | Full Product Name                   | Lamp               |               |               |               |
|--------------|-------------------------------------|--------------------|---------------|---------------|---------------|
|              |                                     | Current (EM) (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) |
| 928082305115 | MasterColor CDM-T 70W/830 G12 T6 CL | 0.98 A             | 96 V          | 80 V          | 88 V          |
| 928084505115 | MasterColor CDM-T 70W/942 G12 T6 CL | 0.98 A             | 96 V          | 80 V          | 88 V          |
| 928083105115 | MasterColor CDM-T 35W/830 G12 T6 CL | 0.53 A             | 90 V          | 76 V          | 82 V          |

| Order Code   | Full Product Name  | Lamp               |               |               |               |
|--------------|--------------------|--------------------|---------------|---------------|---------------|
|              |                    | Current (EM) (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) |
| 928083705115 | CDM150/T6/830 12PK | 1.8 A              | 106 V         | 86 V          | 96 V          |
| 928084605115 | CDM150/T6/942 12PK | 1.9 A              | 98 V          | 82 V          | 90 V          |

### Operating and Electrical (2/2)

| Order Code   | Full Product Name                   | Power (Rated) (Nom) |
|--------------|-------------------------------------|---------------------|
| 928082305115 | MasterColor CDM-T 70W/830 G12 T6 CL | 73 W                |
| 928084505115 | MasterColor CDM-T 70W/942 G12 T6 CL | 73 W                |
| 928083105115 | MasterColor CDM-T 35W/830 G12 T6 CL | 39 W                |

| Order Code   | Full Product Name  | Power (Rated) (Nom) |
|--------------|--------------------|---------------------|
| 928083705115 | CDM150/T6/830 12PK | 147 W               |
| 928084605115 | CDM150/T6/942 12PK | 147 W               |

### Luminaire Design Requirements

| Order Code   | Full Product Name                   | Bulb Temperature (Max) |
|--------------|-------------------------------------|------------------------|
| 928082305115 | MasterColor CDM-T 70W/830 G12 T6 CL | 500 °C                 |
| 928084505115 | MasterColor CDM-T 70W/942 G12 T6 CL | 500 °C                 |
| 928083105115 | MasterColor CDM-T 35W/830 G12 T6 CL | 500 °C                 |

| Order Code   | Full Product Name  | Bulb Temperature (Max) |
|--------------|--------------------|------------------------|
| 928083705115 | CDM150/T6/830 12PK | 650 °C                 |
| 928084605115 | CDM150/T6/942 12PK | 650 °C                 |

### Light Technical (1/3)

| Order Code   | Full Product Name                   | Chromaticity       |                    | Color |                 |
|--------------|-------------------------------------|--------------------|--------------------|-------|-----------------|
|              |                                     | Coordinate X (Nom) | Coordinate Y (Nom) | Code  | Designation     |
| 928082305115 | MasterColor CDM-T 70W/830 G12 T6 CL | 0.432              | 0.395              | 830   | Warm White (WW) |
| 928084505115 | MasterColor CDM-T 70W/942 G12 T6 CL | 0.377              | 0.376              | 942   | Cool White (CW) |

| Order Code   | Full Product Name                   | Chromaticity       |                    | Color |                 |
|--------------|-------------------------------------|--------------------|--------------------|-------|-----------------|
|              |                                     | Coordinate X (Nom) | Coordinate Y (Nom) | Code  | Designation     |
| 928083105115 | MasterColor CDM-T 35W/830 G12 T6 CL | 0.428              | 0.397              | 830   | Warm White (WW) |
| 928083705115 | CDM150/T6/830 12PK                  | 0.436              | 0.396              | 830   | Warm White (WW) |
| 928084605115 | CDM150/T6/942 12PK                  | 0.375              | 0.363              | 942   | Cool White (CW) |

### Light Technical (2/3)

| Order Code   | Full Product Name                   | Correlated Color Temperature (Nom) | Color Rendering Index (Nom)         | Lumen Maintenance 10000 h (Nom) | Lumen Maintenance 2000 h (Min) | Lumen Maintenance 2000 h (Nom) | Lumen Maintenance 5000 h (Min) | Lumen Maintenance 5000 h (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Rated) (Min) |
|--------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------|
|              |                                     | 928082305115                       | MasterColor CDM-T 70W/830 G12 T6 CL | 3000 K                          | 84                             | 70 %                           | 75 %                           | 85 %                           | 70 %                            | 80 %                        |
| 928084505115 | MasterColor CDM-T 70W/942 G12 T6 CL | 4200 K                             | 92                                  | 65 %                            | 75 %                           | 85 %                           | 65 %                           | 75 %                           | 86 lm/W                         | -                           |

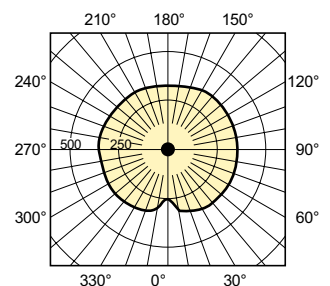
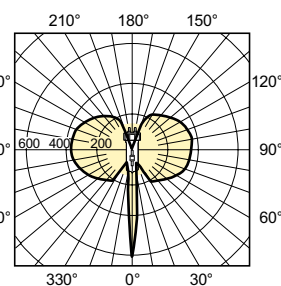
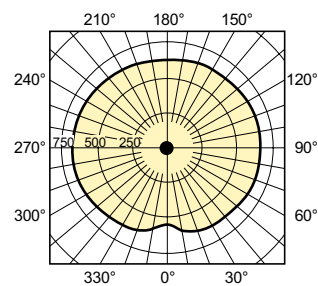
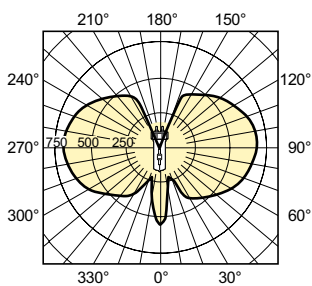
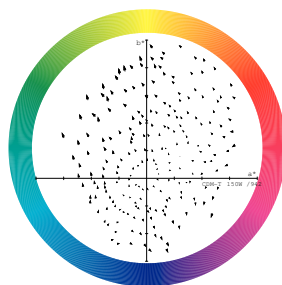
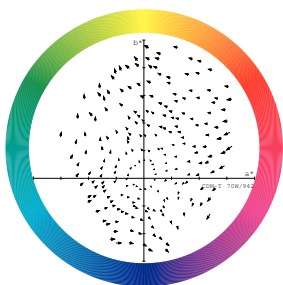
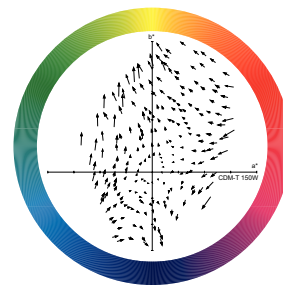
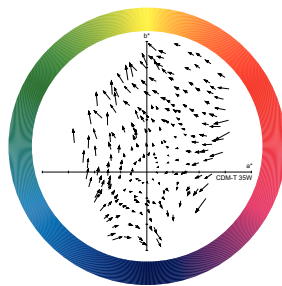
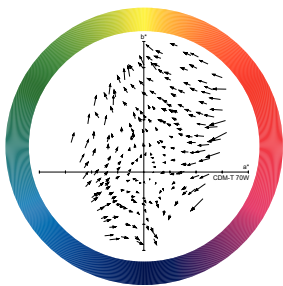
# MasterColor CDM-T T6

| Order Code   | Full Product Name                   | Correlated Color Temperature (Nom) | Color Rendering Index (Nom) | Lumen Maintenance 10000 h (Nom) | Lumen Maintenance 2000 h (Min) | Lumen Maintenance 2000 h (Nom) | Lumen Maintenance 5000 h (Min) | Lumen Maintenance 5000 h (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Rated) (Min) |
|--------------|-------------------------------------|------------------------------------|-----------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------|
|              |                                     | 3000 K                             | 83                          | 50 %                            | 70 %                           | 80 %                           | 60 %                           | 70 %                           | 79 lm/W                         | -                           |
| 928083105115 | MasterColor CDM-T 35W/830 G12 T6 CL | 3000 K                             | 83                          | 50 %                            | 70 %                           | 80 %                           | 60 %                           | 70 %                           | 79 lm/W                         | -                           |
| 928083705115 | CDM150/T6/830 12PK                  | 3000 K                             | 88                          | 60 %                            | 65 %                           | 75 %                           | 60 %                           | 70 %                           | 90 lm/W                         | 12000 lm                    |
| 928084605115 | CDM150/T6/942 12PK                  | 4200 K                             | 96                          | 70 %                            | 75 %                           | 85 %                           | 70 %                           | 80 %                           | 84 lm/W                         | 11200 lm                    |

## Light Technical (3/3)

| Order Code   | Full Product Name                   | Luminous Flux (Rated) (Nom) | Order Code   | Full Product Name  | Luminous Flux (Rated) (Nom) |
|--------------|-------------------------------------|-----------------------------|--------------|--------------------|-----------------------------|
| 928082305115 | MasterColor CDM-T 70W/830 G12 T6 CL | 6400 lm                     | 928083705115 | CDM150/T6/830 12PK | 13300 lm                    |
| 928084505115 | MasterColor CDM-T 70W/942 G12 T6 CL | 6300 lm                     | 928084605115 | CDM150/T6/942 12PK | 12400 lm                    |
| 928083105115 | MasterColor CDM-T 35W/830 G12 T6 CL | 3100 lm                     |              |                    |                             |

## Color Rendering Diagrams



# MasterColor CDM-T T6

