



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.

PHILIPS

Warnings and Safety

- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or

other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

Related products



CDM-T, 150W, G12

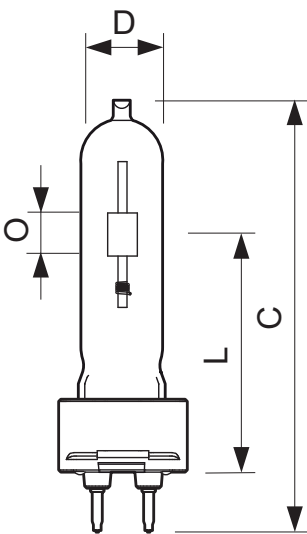


CDM-T 35W /830, /842 G12



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

Dimensional drawing



MasterColor CDM-T 70W/830 T6 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

| | | | | | | |
|--------------------|-----|----|----|----|----|---|
| CDM-T 35W/830 G12 | 103 | 20 | 55 | 56 | 57 | 5 |
| CDM-T 150W/830 G12 | 110 | 20 | 55 | 56 | 57 | 9 |
| CDM-T 70W/942 G12 | 103 | 20 | 55 | 56 | 57 | 6 |
| CDM-T 150W/942 G12 | 110 | 20 | 55 | 56 | 57 | 8 |
| CDM-T 35W/842 G12 | 103 | 20 | 55 | 56 | 57 | 5 |

General Characteristics (1/2)

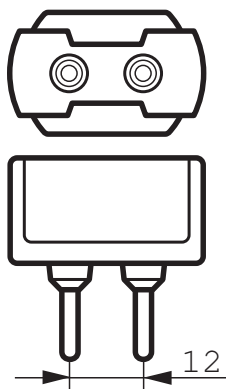
| Order code | Full product name | Base | Bulb | Bulb Finish | Operating Position | Life to 5% failures EM | Life to 5% failures EL | Life to 10% failures EM | Life to 10% failures EL | Life to 20% failures EM | Life to 20% failures EL |
|--------------|-------------------------------------|------|------|-------------|--------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 928083705115 | MasterColor CDM-T 150W/830 T6 1CT | G12 | T6 | Clear | Universal | 9000 hr | 9000 hr | 10000 hr | 10000 hr | 11000 hr | 11000 hr |
| 928084605115 | MasterColor CDM-T 150W/942 T6 1CT | G12 | T6 | Clear | Universal | 9000 hr | 9000 hr | 10000 hr | 10000 hr | 11000 hr | 11000 hr |
| 928083105115 | MASTERColour CDM-T | G12 | T6 | Clear | Universal | 8000 hr | 8000 hr | 9000 hr | 9000 hr | 10000 hr | 10000 hr |
| 928099805115 | MasterColor CDM-T 35W/842 T6 CL 1CT | G12 | T6 | Clear | Universal | 8000 hr | 8000 hr | 9000 hr | 9000 hr | 10000 hr | 10000 hr |
| 928082305115 | MasterColor CDM-T 70W/830 T6 1CT | G12 | T6 | Clear | Universal | 9000 hr | 9000 hr | 10000 hr | 10000 hr | 11000 hr | 11000 hr |
| 928084505115 | MasterColor CDM-T 70W/942 T6 CL 1CT | G12 | T6 | Clear | Universal | 9000 hr | 9000 hr | 10000 hr | 10000 hr | 11000 hr | 11000 hr |

General Characteristics (2/2)

| Order code | Full product name | Avg. Life | Avg. Hrs. Life |
|--------------|-------------------------------------|-----------|----------------|
| 928083705115 | MasterColor CDM-T 150W/830 T6 1CT | 12000 hr | 12000 hr |
| 928084605115 | MasterColor CDM-T 150W/942 T6 1CT | 12000 hr | 12000 hr |
| 928083105115 | MASTERColour CDM-T | 12000 hr | 12000 hr |
| 928099805115 | MasterColor CDM-T 35W/842 T6 CL 1CT | 12000 hr | 12000 hr |

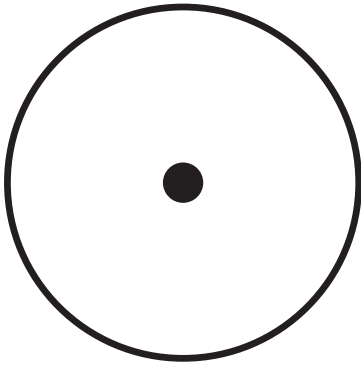
| Order code | Full product name | Avg. Life | Avg. Hrs. Life |
|--------------|-------------------------------------|-----------|----------------|
| 928082305115 | MasterColor CDM-T 70W/830 T6 1CT | 12000 hr | 12000 hr |
| 928084505115 | MasterColor CDM-T 70W/942 T6 CL 1CT | 12000 hr | 12000 hr |

Installation diagrams



G12

Installation diagrams



any

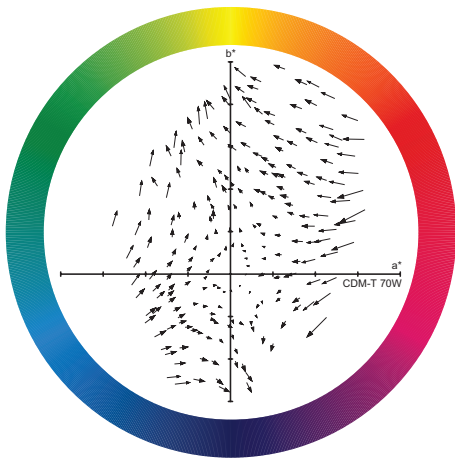
Light Technical Characteristics (1/2)

| Order code | Full product name | Color Code | Color Rendering Index | Color Designation | Color Temperature | Initial Lumens | Initial Lumens | Luminous Efficacy Lamp EM | Luminous Efficacy Lamp EL | Lumen Maintenance EM 2000h | Lumen Maintenance EL 2000h |
|--------------|-------------------------------------|------------|-----------------------|-------------------|-------------------|----------------|----------------|---------------------------|---------------------------|----------------------------|----------------------------|
| 928083705115 | MasterColor CDM-T 150W/830 T6 1CT | 830 | 88 Ra8 | Warm White | 3000 K | 13200 Lm | 13600 Lm | 90 Lm/W | 91 Lm/W | 75 % | 75 % |
| 928084605115 | MasterColor CDM-T 150W/942 T6 1CT | 942 | 96 Ra8 | Cool White | 4200 K | 12000 Lm | 12700 Lm | 83 Lm/W | 85 Lm/W | 85 % | 85 % |
| 928083105115 | MASTERCouleur CDM-T | 830 | 81 Ra8 | Warm White | 3000 K | 3000 Lm | 3150 Lm | 79 Lm/W | 81 Lm/W | 75 % | 80 % |
| 928099805115 | MasterColor CDM-T 35W/842 T6 CL 1CT | 842 | 84 Ra8 | Cool White | 4200 K | Lm | 3100 Lm | Lm/W | 79 Lm/W | % | 90 % |
| 928082305115 | MasterColor CDM-T 70W/830 T6 1CT | 830 | 84 Ra8 | Warm White | 3000 K | 6400 Lm | 6500 Lm | 88 Lm/W | 89 Lm/W | 85 % | 85 % |
| 928084505115 | MasterColor CDM-T 70W/942 T6 CL 1CT | 942 | 92 Ra8 | Cool White | 4200 K | 6300 Lm | 6300 Lm | 86 Lm/W | 86 Lm/W | 85 % | 85 % |

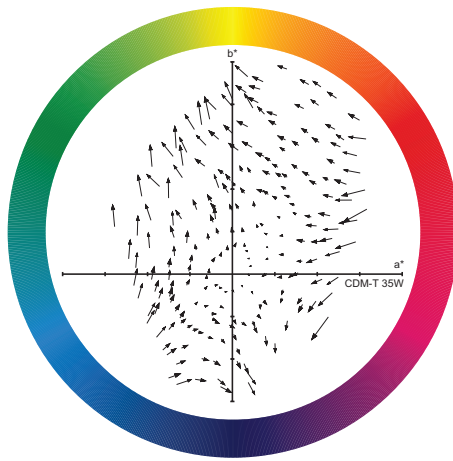
Light Technical Characteristics (2/2)

| Order code | Full product name | Lumen Maintenance EM 5000h | Lumen Maintenance EL 5000h | Lumen Maintenance EM 10000h | Lumen Maintenance EL 10000h | Lumen Maintenance EL 12000h | Design Mean Lumens EL | Design Mean Lumens EM | Chromaticity Coordinate X | Chromaticity Coordinate Y |
|--------------|-------------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|-----------------------|---------------------------|---------------------------|
| 928083705115 | MasterColor CDM-T 150W/830 T6 1CT | 65 % | 70 % | 50 % | 60 % | % | 9600 Lm | 8900 Lm | 0.436 - | 0.396 - |
| 928084605115 | MasterColor CDM-T 150W/942 T6 1CT | 75 % | 80 % | 65 % | 70 % | % | 10800 Lm | 9900 Lm | 0.375 - | 0.363 - |
| 928083105115 | MASTERCouleur CDM-T | 65 % | 70 % | 45 % | 50 % | % | 2250 Lm | 2000 Lm | 0.428 - | 0.397 - |
| 928099805115 | MasterColor CDM-T 35W/842 T6 CL 1CT | % | 85 % | % | 70 % | % | 2600 Lm | Lm | 0.365 - | 0.364 - |
| 928082305115 | MasterColor CDM-T 70W/830 T6 1CT | 75 % | 80 % | 60 % | 70 % | % | 5250 Lm | 4400 Lm | 0.432 - | 0.395 - |
| 928084505115 | MasterColor CDM-T 70W/942 T6 CL 1CT | 70 % | 75 % | 55 % | 65 % | % | 4900 Lm | 3900 Lm | 0.377 - | 0.376 - |

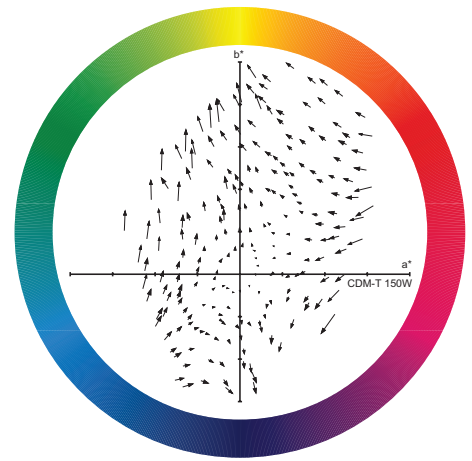
Light technical



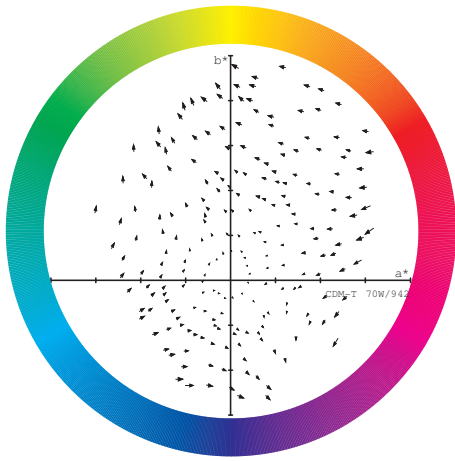
CDM-T 70W /830



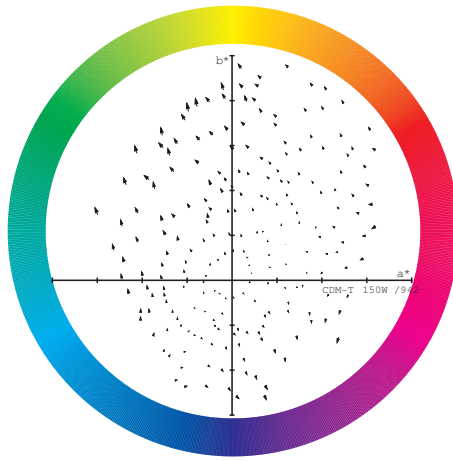
CDM-T 35W /830



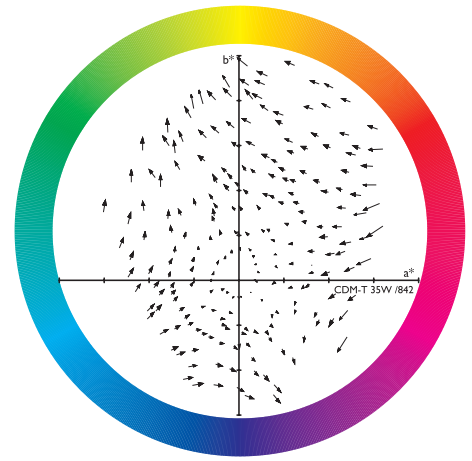
CDM-T 150W /830



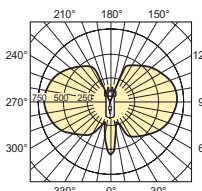
CDM-T 70W /942



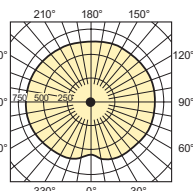
CDM-T 150W /942



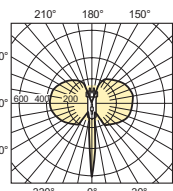
CDM-T 35W /842, /942



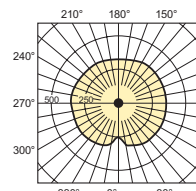
CDM-T 70W /830, /942



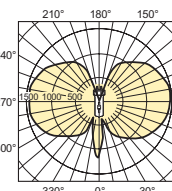
CDM-T 35W /830



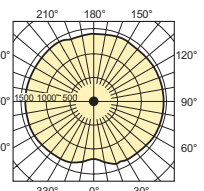
CDM-T 150W /830, /930, /942



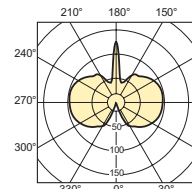
CDM-T 150W /830, /930, /942



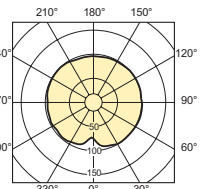
CDM-T 150W /830, /930, /942



CDM-T 150W /830, /930, /942



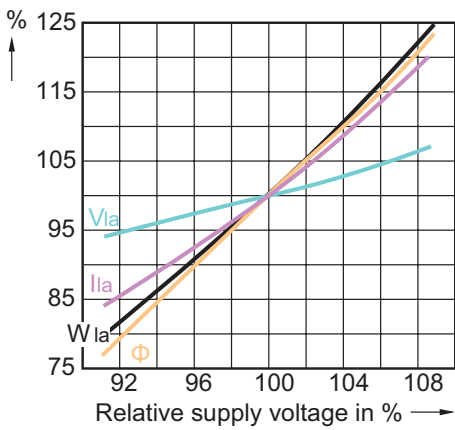
CDM-T 35W /842 lamp up



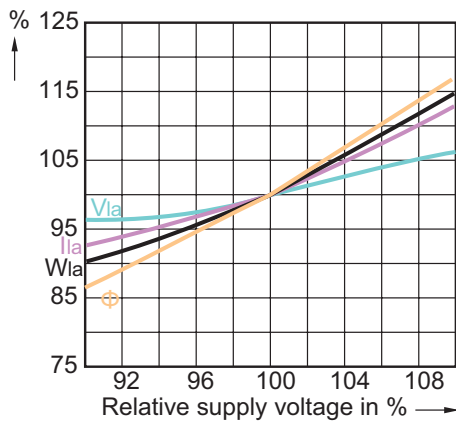
Electrical Characteristics

| Order code | Full product name | Energy Used | Lamp Wattage EM 25°C, Nominal | Lamp Wattage EM 25°C, Rated | Lamp Wattage EL 25°C, Rated | Lamp Wattage EL 25°C, Nominal | Lamp Voltage | Lamp Current EM | Lamp Current EL | Dimmable |
|--------------|-------------------------------------|-------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|--------------|-----------------|-----------------|----------|
| 928083705115 | MasterColor CDM-T 150W/830 T6 1CT | 150 W | 150.0 W | 147.0 W | 150.0 W | 150.0 W | 96 V | 1.8 A | 1.62 A | No |
| 928084605115 | MasterColor CDM-T 150W/942 T6 1CT | 150 W | 150.0 W | 145.0 W | 150.0 W | 150.0 W | 90 V | 1.9 A | 1.7 A | No |
| 928083105115 | MASTERColour CDM-T | 35 W | 35.0 W | 38.0 W | 39.0 W | 35.0 W | 88 V | 0.53 A | 0.47 A | No |
| 928099805115 | MasterColor CDM-T 35W/842 T6 CL 1CT | 35 W | W | W | 39.0 W | 35.0 W | 85 V | A | 0.46 A | No |
| 928082305115 | MasterColor CDM-T 70W/830 T6 1CT | 70 W | 70.0 W | 73.0 W | 73.0 W | 70.0 W | 88 V | 0.98 A | 0.87 A | No |
| 928084505115 | MasterColor CDM-T 70W/942 T6 CL 1CT | 70 W | 70.0 W | 73.0 W | 73.0 W | 70.0 W | 88 V | 0.98 A | 0.87 A | No |

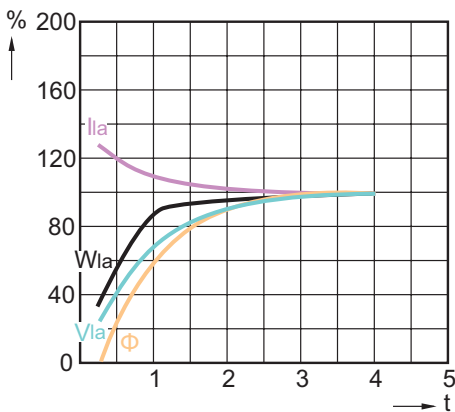
Performance diagrams



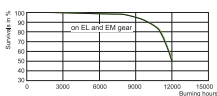
CDM-T /830



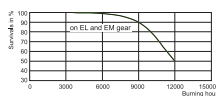
CDM-T 70W, 150W, 250W /942



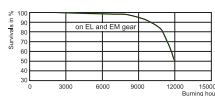
CDM-T /830, /842, /942



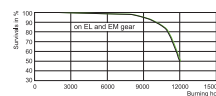
CDM-T 70W /830 on electronic & electromagnetic gear



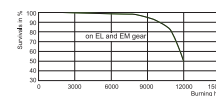
CDM-T 35W /830 on electronic & electromagnetic gear



CDM-T 150W /830 on electronic & electromagnetic gear

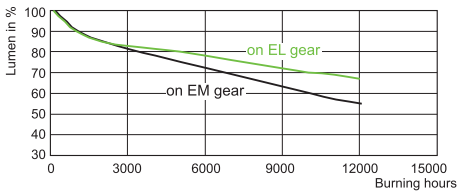


CDM-T 70W /942 on electronic & electromagnetic gear

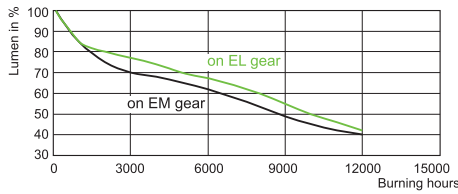


CDM-T 150W /942 on electronic & electromagnetic gear

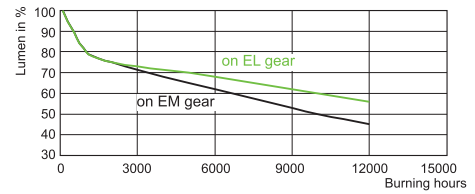
Performance diagrams



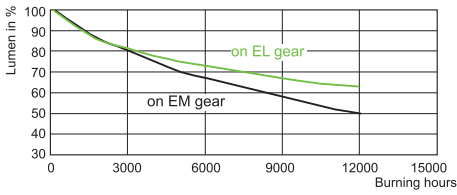
CDM-T 70W /830 on electronic & electromagnetic gear



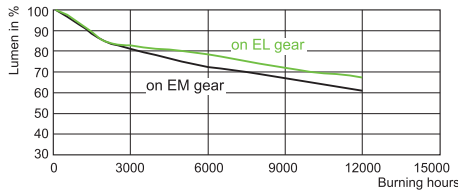
CDM-T 35W /830 on electronic & electromagnetic gear



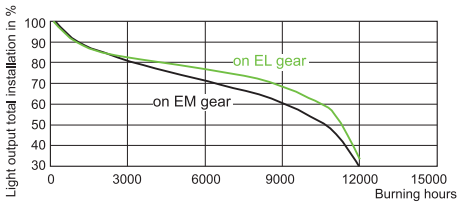
CDM-T 150W /830 on electronic & electromagnetic gear



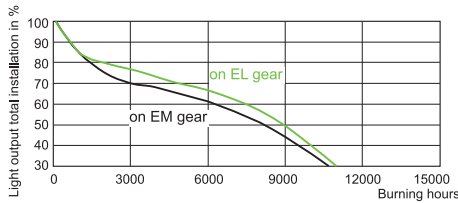
CDM-T 70W /942 on electronic & electromagnetic gear



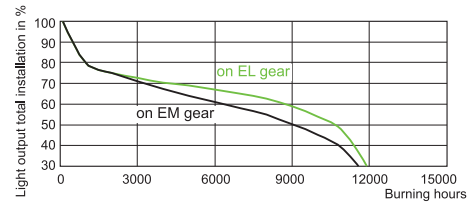
CDM-T 150W /942 on electronic & electromagnetic gear



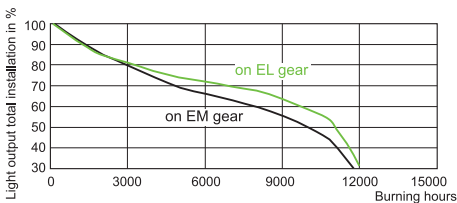
CDM-T 70W /830 on electronic & electromagnetic gear



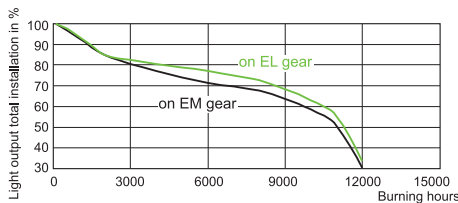
CDM-T 35W /830 on electronic & electromagnetic gear



CDM-T 150W /830 on electronic & electromagnetic gear



CDM-T 70W /942 on electronic & electromagnetic gear



CDM-T 150W /942 on electronic & electromagnetic gear

Environmental Characteristics

| Order code | Full product name | Energy Efficiency Label (EEL) | Mercury (Hg) Content | Energy consumption kWh/1000h |
|--------------|-------------------------------------|-------------------------------|----------------------|------------------------------|
| 928083705115 | MasterColor CDM-T 150W/830 T6 1CT | A+ | 14.25 mg | 165 kWh |
| 928084605115 | MasterColor CDM-T 150W/942 T6 1CT | A+ | 10.4 mg | 165 kWh |
| 928083105115 | MASTERColour CDM-T | A+ | 3.1 mg | 41 kWh |
| 928099805115 | MasterColor CDM-T 35W/842 T6 CL 1CT | A+ | 2.7 mg | 41 kWh |
| 928082305115 | MasterColor CDM-T 70W/830 T6 1CT | A+ | 4.5 mg | 80 kWh |
| 928084505115 | MasterColor CDM-T 70W/942 T6 CL 1CT | A+ | 6.1 mg | 80 kWh |

Luminaire Design Requirements

| Order code | Full product name | Cap-Base Temperature | Bulb Temperature |
|--------------|-------------------------------------|----------------------|------------------|
| 928083705115 | MasterColor CDM-T 150W/830 T6 1CT | 280 (max) C | 650 (max) C |
| 928084605115 | MasterColor CDM-T 150W/942 T6 1CT | 280 (max) C | 650 (max) C |
| 928083105115 | MASTERColour CDM-T | 280 (max) C | 500 (max) C |
| 928099805115 | MasterColor CDM-T 35W/842 T6 CL 1CT | 280 (max) C | 500 (max) C |
| 928082305115 | MasterColor CDM-T 70W/830 T6 1CT | 280 (max) C | 500 (max) C |
| 928084505115 | MasterColor CDM-T 70W/942 T6 CL 1CT | 280 (max) C | 500 (max) C |



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www.philips.com/lighting

2014, March 27
data subject to change