



# Product Description

## MASTERColour CDM-T

Range of single-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light

### Benefits

- Stable colour impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation
- Long lamp life compared with incandescent and halogen lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types are UV-Block for reduced fading risks

### Features

- Warm or cool white colour impression
- Colour rendering good to excellent
- Allows small-size luminaire designs that give high beam intensities

### Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

### Warnings and Safety

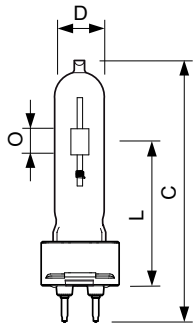
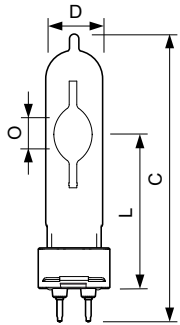
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- Lamps may use electronic or electromagnetic control gear, except 35W/942 and 20W lamps, which must use electronic control gear.
- 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.

# MASTERCcolour CDM-T

## Versions



## Dimensional drawing



Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-T 250W/942 G12 1CT/12	25 mm	12.3 mm	71.5 mm	73.5 mm	72.5 mm	135 mm
MASTERColour CDM-T 250W/830 G12 1CT/12	25 mm	12.3 mm	71.5 mm	73.5 mm	72.5 mm	135 mm

Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-T 35W/842 G12 1CT/12	20 mm	0.75 in	5 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 70W/830 G12 1CT/12	20 mm	0.75 in	7 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 35W/830 G12 1CT/12	20 mm	0.75 in	5 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 150W/830 G12 1CT	20 mm	0.75 in	9 mm	55 mm	57 mm	56 mm	110 mm
MASTERColour CDM-T 70W/942 G12 1CT/12	20 mm	0.75 in	6 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 150W/942 G12 1CT	20 mm	0.75 in	8 mm	55 mm	57 mm	56 mm	110 mm

# MASTERCcolour CDM-T

Controls and dimming	
Dimmable	No
Operating and electrical	
Re-Ignition Time (Min) (Max)	15 min
General information	
Cap-Base	G12
Operating Position	UNIVERSAL
Mechanical and housing	
Bulb Finish	Clear

## Approval and application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928082305129	MASTERCcolour CDM-T 70W/830 G12 1CT/12	80 kWh	-	4.6 mg
928083705125	MASTERCcolour CDM-T 150W/830 G12 1CT	151 kWh	14.3 mg	14.3 mg
928084505129	MASTERCcolour CDM-T 70W/942 G12 1CT/12	80 kWh	-	6.1 mg
928084605131	MASTERCcolour CDM-T 150W/942 G12 1CT	151 kWh	10.4 mg	10.4 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928089805131	MASTERCcolour CDM-T 250W/830 G12 1CT/12	250 kWh	27.5 mg	27.5 mg
928094205131	MASTERCcolour CDM-T 250W/942 G12 1CT/12	250 kWh	20 mg	20.0 mg
928083105129	MASTERCcolour CDM-T 35W/830 G12 1CT/12	43 kWh	-	3.1 mg
928094305129	MASTERCcolour CDM-T 35W/842 G12 1CT/12	43 kWh	-	2.7 mg

## Operating and electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Nom)
928082305129	MASTERCcolour CDM-T 70W/830 G12 1CT/12	0.98 A	96 V	80 V	88 V	73.2 W
928083705125	MASTERCcolour CDM-T 150W/830 G12 1CT	1.8 A	106 V	86 V	96 V	150.1 W
928084505129	MASTERCcolour CDM-T 70W/942 G12 1CT/12	0.98 A	96 V	80 V	88 V	73.2 W
928084605131	MASTERCcolour CDM-T 150W/942 G12 1CT	1.9 A	98 V	82 V	90 V	150.1 W
928089805131	MASTERCcolour CDM-T 250W/830 G12 1CT/12	2.99 A	103 V	87 V	95 V	250.0 W
928094205131	MASTERCcolour CDM-T 250W/942 G12 1CT/12	3.04 A	104 V	84 V	93 V	250.0 W
928083105129	MASTERCcolour CDM-T 35W/830 G12 1CT/12	0.53 A	90 V	76 V	82 V	39.1 W
928094305129	MASTERCcolour CDM-T 35W/842 G12 1CT/12	-	93 V	77 V	85 V	39.1 W

## General information

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928082305129	MASTERCcolour CDM-T 70W/830 G12 1CT/12	10000 h	11000 h	12000 h	9000 h
928083705125	MASTERCcolour CDM-T 150W/830 G12 1CT	10000 h	11000 h	12000 h	9000 h
928084505129	MASTERCcolour CDM-T 70W/942 G12 1CT/12	10000 h	11000 h	12000 h	9000 h
928084605131	MASTERCcolour CDM-T 150W/942 G12 1CT	10000 h	11000 h	12000 h	9000 h

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928089805131	MASTERCcolour CDM-T 250W/830 G12 1CT/12	7000 h	12000 h	15000 h	3500 h
928094205131	MASTERCcolour CDM-T 250W/942 G12 1CT/12	7000 h	12000 h	15000 h	3500 h
928083105129	MASTERCcolour CDM-T 35W/830 G12 1CT/12	10000 h	11000 h	12000 h	9000 h

# MASTERColour CDM-T

Order Code	Full Product Name	Life To	Life To	Life To	Life To 5%
		10% Failures (Nom)	20% Failures (Nom)	50% Failures (Nom)	Failures (Nom)
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	10000 h	11000 h	12000 h	9000 h

## Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	500 °C
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	650 °C
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	500 °C
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	650 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	700 °C
928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	700 °C
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	500 °C
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	500 °C

## Light technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Colour		Correlated Colour	Colour	Lumen
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation	Temperature (Nom)	Rendering Index (Nom)	Maintenance 10000 h (Nom)
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	0.432	0.395	830	Warm white (WW)	3000 K	84	70 %
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	0.434	0.398	830	Warm white (WW)	3000 K	88	60 %
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	0.377	0.376	942	Cool White (CW)	4200 K	92	65 %
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	0.371	0.366	942	Cool White (CW)	4200 K	96	70 %
928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	0.434	0.398	830	Warm white (WW)	3000 K	85	92 %
928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	0.371	0.366	942	Cool White (CW)	4200 K	91	86 %
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	0.428	0.397	830	Warm white (WW)	3000 K	83	50 %
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	0.370	0.367	842	Cool White (CW)	4200 K	84	70 %

## Light technical (2/2)

Order Code	Full Product Name	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous	Luminous	Luminous	Ratio
		Maintenance 2000 h (Min)	Maintenance 2000 h (Nom)	Maintenance 5000 h (Min)	Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)	Luminous Flux (Nom)	Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Scotopic/Photopic Lumens
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	75 %	85 %	70 %	80 %	85 lm/W	-	5600 lm	6200 lm	-
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	65 %	75 %	60 %	70 %	88 lm/W	13000 lm	11700 lm	13000 lm	-
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	75 %	85 %	65 %	75 %	85 lm/W	-	-	6200 lm	-
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	75 %	85 %	70 %	80 %	82 lm/W	12100 lm	10900 lm	12100 lm	-

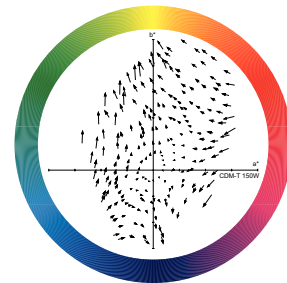
# MASTERColour CDM-T

Order Code	Full Product Name	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous	Luminous	Luminous	Ratio
		Maintenance 2000 h (Min)	Maintenance 2000 h (Nom)	Maintenance 5000 h (Min)	Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)	Luminous Flux (Nom)	Flux (Rated) (Min)	Flux (Rated) (Nom)	Scotopic/ Photopic Lumens
928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	-	98 %	-	97 %	111 lm/W	27750 lm	24780 lm	27750 lm	1.30
928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	-	98 %	-	94 %	105 lm/W	26250 lm	23400 lm	26250 lm	1.75
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	70 %	80 %	60 %	70 %	79 lm/W	-	-	3100 lm	-
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	80 %	90 %	75 %	85 %	77 lm/W	-	-	3000 lm	-

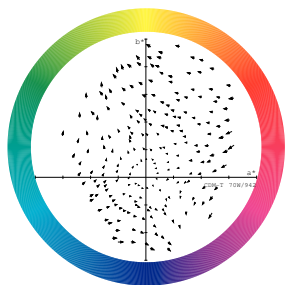
## Mechanical and housing

Order Code	Full Product Name	Bulb Shape	Order Code	Full Product Name	Bulb Shape
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	T19	928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	T24
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	T19	928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	T24
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	T19	928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	T19
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	T19	928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	T19

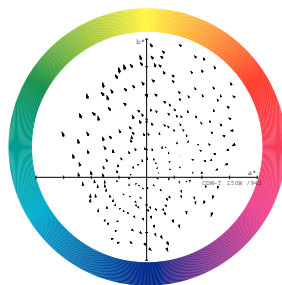
## Colour Rendering Diagrams



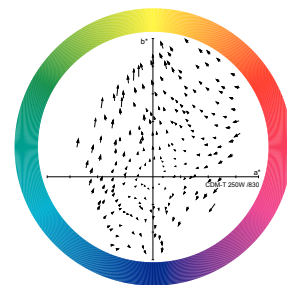
LDCR\_CDM-T\_150W\_830-Colour rendering diagram



LDCR\_CDM-T\_70W\_942-Colour rendering diagram



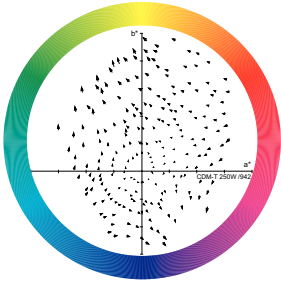
LDCR\_CDM-T\_150W\_942-Colour rendering diagram



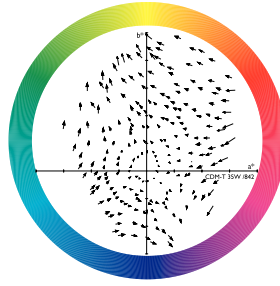
LDCR\_CDM-T\_250W\_830-Colour rendering diagram

# MASTERColour CDM-T

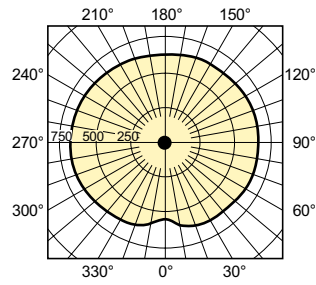
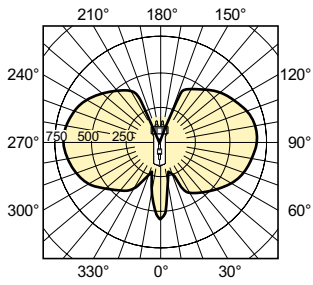
## Colour Rendering Diagrams

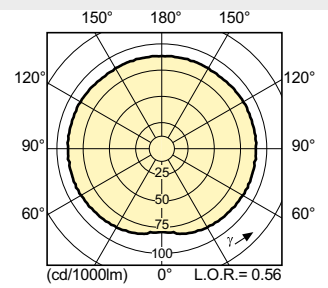
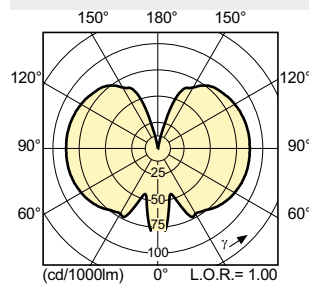
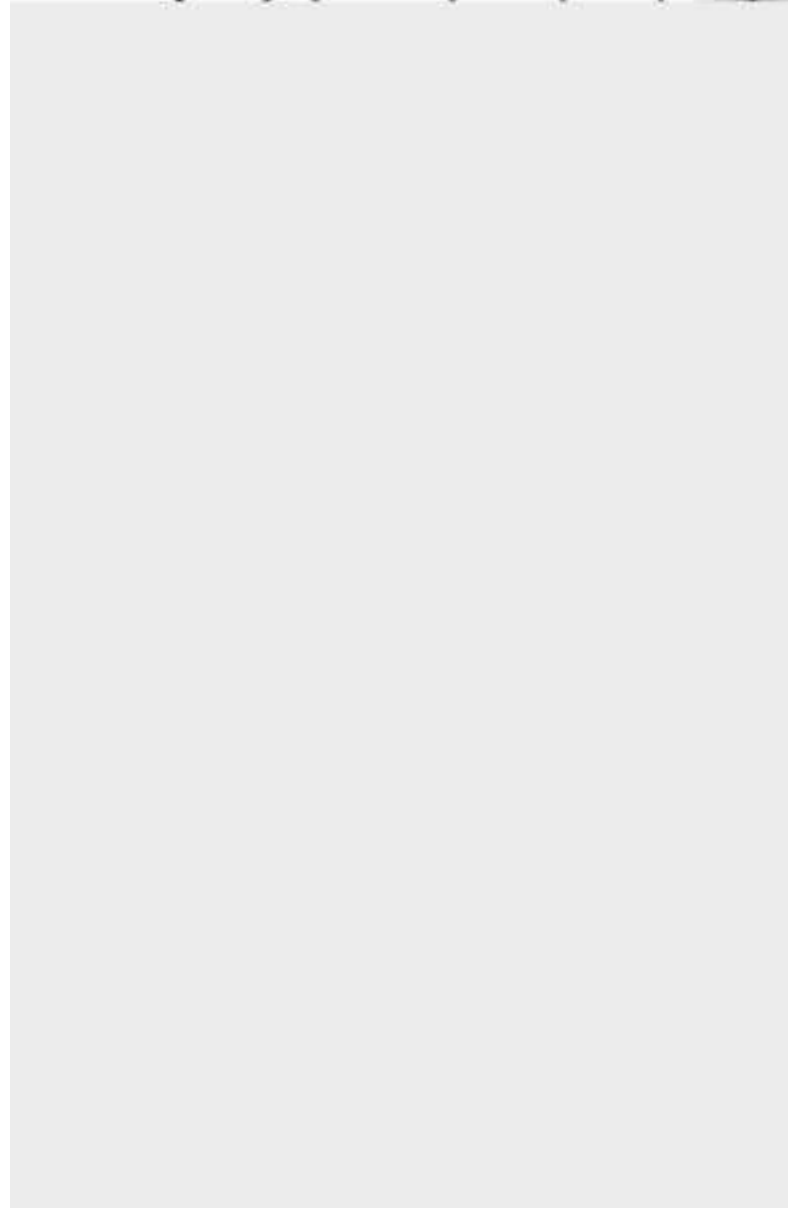
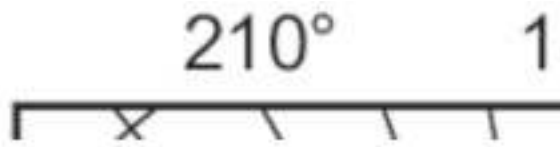


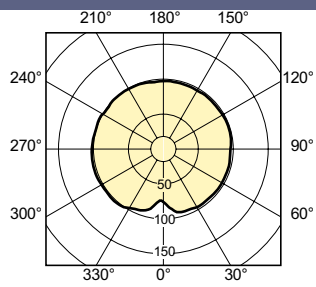
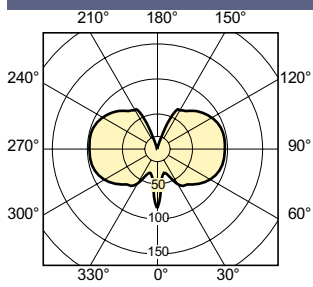
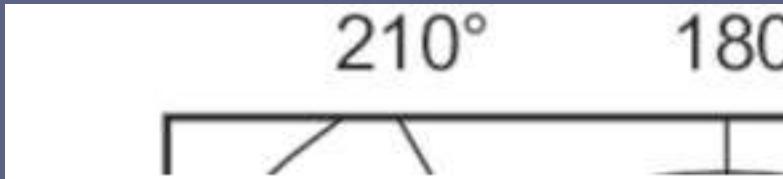
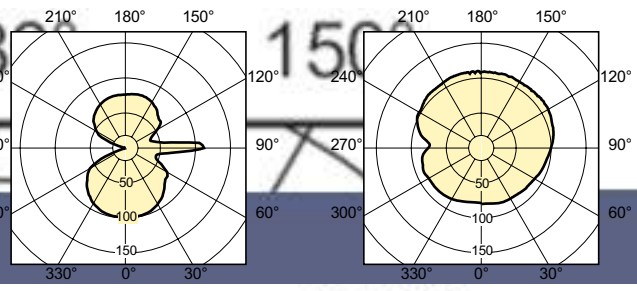
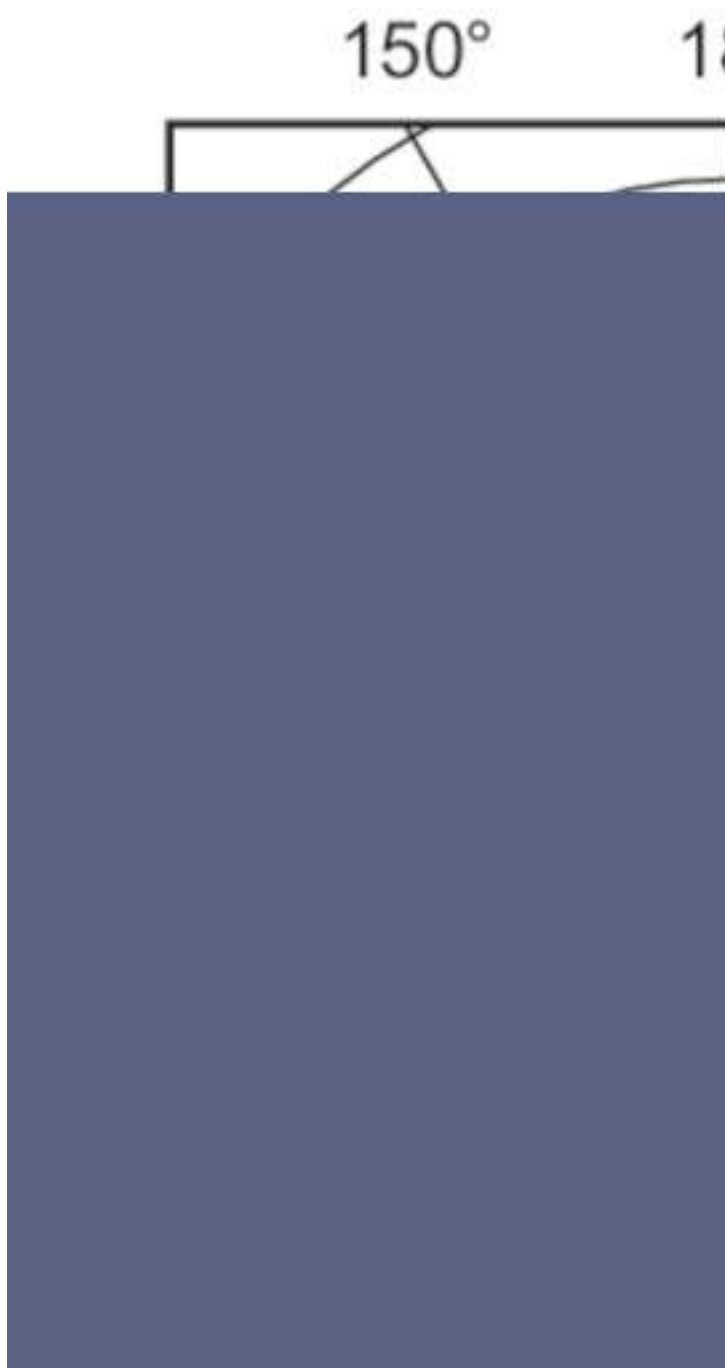
LDCR\_CDM-T\_250W\_942-Colour rendering diagram



LDCR\_CDM-T\_35W\_842\_942-Colour rendering diagram









# MASTERColour CDM-T

