

# MASTERCcolour CDM

# MASTERCcolour CDM-T



CDM-T 70W G12

### Product Description

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

### Product Features

- Warm or cool white color impression
- Color rendering good to excellent
- Allows small-size luminaires designs that give high beam intensities

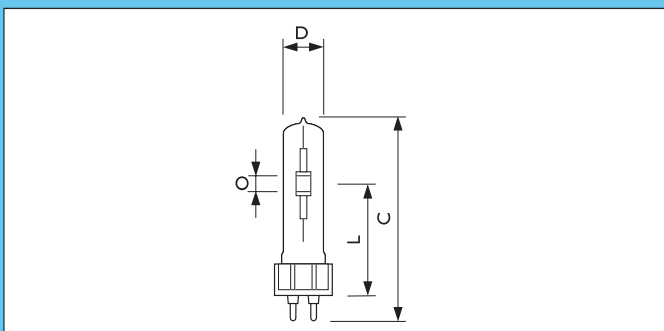
### Product Benefits

- Stable color 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

### Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas
- Must be used in closed luminaires with a proper cover (IEC 61167 and 60598)
- Must be used in combination with a ballast and an ignitor; or electrical gear
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 61167)
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- Electronic gear can be used, and increases lamp-life, improves system efficacy, and eliminates visible flicker

Dimensions in mm



Product ID	Overall length	Diameter	Light center length	Arc length
	C max.	D max.	L nom.	O nom.
35W/830	103	20	56	5
35W/942	103	20	56	5
70W/830	103	20	56	7
70W/942	103	20	56	6
150W/830	110	20	56	9
150W/942	110	20	56	8

### Preferred selection

Product ID	Lamp Wattage EL (W)	Lamp Current EL (A)	System Power EL	Lamp Voltage (V)	Mains Voltage Stable Operation min. (V)	Cap/ Base	Color Temperature (k)	Color Rendering Index (Ra)
MASTERCcolour CDM-T 35W/830 G12	38	0.53	44	88	198	G12	3000	81
MASTERCcolour CDM-T 35W/942 G12*	38	0.53	44	88	198	G12	4200	86
MASTERCcolour CDM-T 70W/830 G12	71	0.98	88	88	198	G12	3000	84
MASTERCcolour CDM-T 70W/942 G12	72	0.98	88	88	198	G12	4200	92
MASTERCcolour CDM-T 150W/830 G12	147	1.80	165	96	198	G12	3000	85
MASTERCcolour CDM-T 150W/942 G12	145	1.90	165	90	198	G12	4200	96

Product ID	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Flux Lamp (lm)	Luminous Efficacy Lamp (lm/W)	Operating Position	Ignition Peak Voltage max. (V)	Ignition Supply Voltage min. (V)
MASTERCcolour CDM-T 35W/830 G12	428	397	Clear	3300	87	ANY	5000	198
MASTERCcolour CDM-T 35W/942 G12*	365	364	Clear	3300	81	ANY	5000	198
MASTERCcolour CDM-T 70W/830 G12	428	394	Clear	6600	93	ANY	5000	198
MASTERCcolour CDM-T 70W/942 G12	372	369	Clear	6600	92	ANY	5000	198
MASTERCcolour CDM-T 150W/830 G12	436	396	Clear	14000	95	ANY	5000	198
MASTERCcolour CDM-T 150W/942 G12	375	363	Clear	12700	88	ANY	5000	198

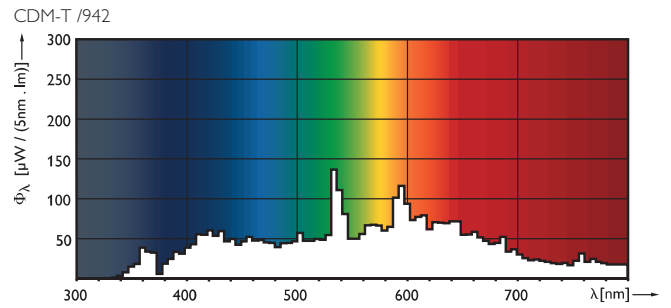
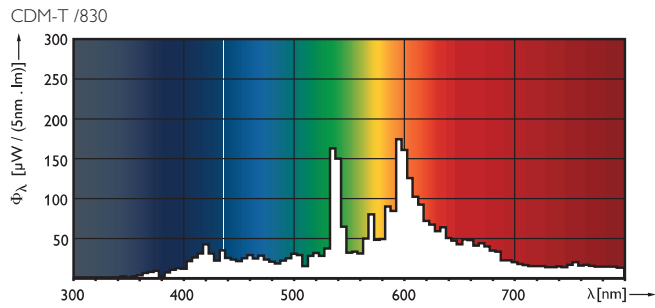
Product ID	Ignition Time max. (sec)	Re-ignition Time max. (min)	Run-up Time 90% max. (min)	Cap-Base Temperature max. (°C)	Bulb Temperature max. (°C)	Pinch Temperature max. (°C)	Net Weight Per Piece (g)
MASTERCcolour CDM-T 35W/830 G12	30	15	3	280	500	350	27
MASTERCcolour CDM-T 35W/942 G12*	30	15	3	280	500	350	27
MASTERCcolour CDM-T 70W/830 G12	30	15	3	280	500	350	29
MASTERCcolour CDM-T 70W/942 G12	30	15	3	280	500	350	29
MASTERCcolour CDM-T 150W/830 G12	30	15	3	280	650	350	33
MASTERCcolour CDM-T 150W/942 G12	30	15	3	280	650	350	33

Note: \* Electronic ballast only.

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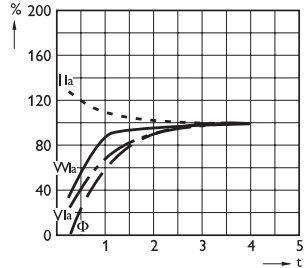
## Spectral power distribution



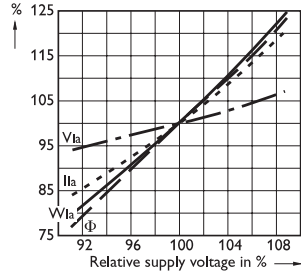
## Performance diagrams

### MASTERColour CDM-T /830

#### Lamp performance during run up



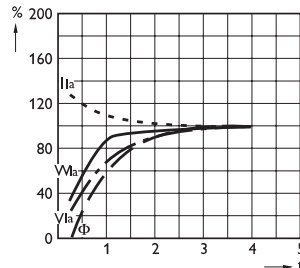
#### Effects of mains voltage variations



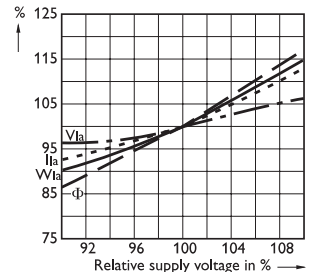
- $I_{la}$  = Lamp current
- $\Phi$  = Luminous Flux
- $V_{la}$  = Lamp Voltage
- $W_{la}$  = Lamp Wattage

### MASTERColour CDM-T /942

#### Lamp performance during run up



#### Effects of mains voltage variations



- $I_{la}$  = Lamp current
- $\Phi$  = Luminous Flux
- $V_{la}$  = Lamp Voltage
- $W_{la}$  = Lamp Wattage

