



Direct retrofit with immediate energy savings for quartz metal halide

MASTERCcolour CDM MW Eco

Ceramic metal halide lamps with clear tubular or coated ellipsoid outer bulb, tailor-made to replace and outperform quartz metal halide lamps on existing gear.

Benefits

- Direct retrofit for various quartz metal halide lamps, operates on existing control gear (Mercury and HPS)
- Lowest total cost of ownership when relamping due to energy savings and long service life as a result of high lumen maintenance

Features

- Proven Philips ceramic technology (CDM) offering
- High efficacy for energy savings and more initial light
- Excellent lumen maintenance resulting in long service life
- Excellent color rendering, meeting EN1246-1

Application

- Sports lighting, floodlighting of buildings and monuments, area lighting e.g. harbors and building sites, canopy lighting e.g. petrol stations
- High-bay lighting e.g. industrial workshops, exhibition halls, hypermarkets, shopping malls, DIY stores, churches, airports and train stations

MASTERColour CDM MW Eco

Versions

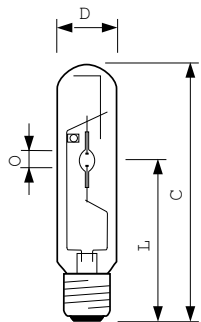
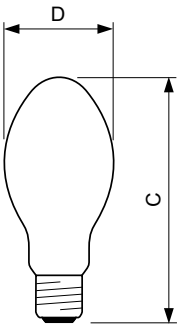


CDM-T MW eco



CDM-E MW eco

Dimensional drawing



Product	D (max)	C (max)
MASTERColour CDM-E MW eco 360W/842 E40	91 mm	226 mm
MASTERColour CDM-E MW eco 230W/842 E40	91 mm	226 mm

Product	D (max)	O	L	C (max)
MASTERColour CDM-T MW eco 230W/842 E40	47 mm	12.4 mm	157 mm	257 mm
MASTERColour CDM-T MW eco 360W/842 E40	47 mm	11.9 mm	161 mm	257 mm

MASTERCcolour CDM MW Eco

Approval and Application

Energy Efficiency Label (EEL) A+

Controls and Dimming

Dimmable No

Operating and Electrical

Re-Ignition Time (Min) (Max) 900 s

General Information

Life To 10% Failures (Nom) 16000 h

Life To 20% Failures (Nom) 20000 h

Life To 50% Failures (Nom) 30000 h

Life To 5% Failures (Nom) 12000 h

LSF 12000 h Rated 95 %

LSF 16000 h Rated 90 %

LSF 2000 h Rated 99 %

LSF 20000 h Rated 80 %

LSF 24000 h Rated 70 %

LSF 30000 h Rated 50 %

LSF 4000 h Rated 99 %

LSF 6000 h Rated 99 %

LSF 8000 h Rated 98 %

Light Technical

Color Code 842

Color Designation Cool White (CW)

Correlated Color Temperature (Nom) 4200 K

LLMF 12000 h Rated 80 %

LLMF 16000 h Rated 77 %

LLMF 2000 h Rated 92 %

LLMF 20000 h Rated 75 %

LLMF 4000 h Rated 87 %

LLMF 6000 h Rated 84 %

LLMF 8000 h Rated 82 %

Mechanical and Housing

Bulb Material Hard Glass

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg) Content
		1000 h	(Nom)
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	250 kWh	32.0 mg
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	397 kWh	51.0 mg
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	396 kWh	51.0 mg
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	251 kWh	32.0 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp	Voltage (Max)	Voltage (Min)	Voltage (Nom)
		Current (EM) (Nom)			
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	2.14 A	132 V	118 V	125 V
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	3.42 A	133 V	115 V	124 V

Order Code	Full Product Name	Lamp	Voltage (Max)	Voltage (Min)	Voltage (Nom)
		Current (EM) (Nom)			
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	3.52 A	127 V	109 V	118 V
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	2.26 A	127 V	113 V	120 V

Operating and Electrical (2/2)

MASTERCcolour CDM MW Eco

Order Code	Full Product Name	Power (Rated) (Nom)
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	227.0 W
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	361.0 W

Order Code	Full Product Name	Power (Rated) (Nom)
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	360.0 W
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	228.0 W

General Information

Order Code	Full Product Name	Operating		System
		Cap-Base	Position	Description
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	E40	UNIVERSAL	Universal
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	E40	P45	Horizontal Operating Position

Order Code	Full Product Name	Operating		System
		Cap-Base	Position	Description
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	E40/45	UNIVERSAL	Universal
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	E40	UNIVERSAL	Universal

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	550 °C
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	600 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	350 °C
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	350 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Color	Luminous
		Coordinate X	Coordinate Y	Rendering Index	Efficacy
		(Nom)	(Nom)	(Nom)	(rated)
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	354	351	88	96.5 lm/W
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	376	374	88	98 lm/W

Order Code	Full Product Name	Chromaticity		Color	Luminous
		Coordinate X	Coordinate Y	Rendering Index	Efficacy
		(Nom)	(Nom)	(Nom)	(rated)
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	375	376	88	95 lm/W
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	366	363	90	93 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	21900 lm
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	35270 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	34100 lm
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	21140 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928070119230	MASTERCcolour CDM-T MW eco 230W/842 E40	Clear	T46
928070319230	MASTERCcolour CDM-T MW eco 360W/842 E40	Clear	T46

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928070219830	MASTERCcolour CDM-E MW eco 360W/842 E40	Coated glass	B90
928070419830	MASTERCcolour CDM-E MW eco 230W/842 E40	Coated glass	B90

Light Distribution Diagrams

