



# Direct retrofit with immediate energy savings for quartz metal halide

## MASTERColour 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

## Warnings and Safety

- For use with control gear designed for high pressure mercury or high-pressure sodium lamps with external ignitor
- A lamp breaking is extremely unlikely to have an 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.
- Warm restart time can be up to 15 minutes; T15 ignitors therefore advised.

## Versions

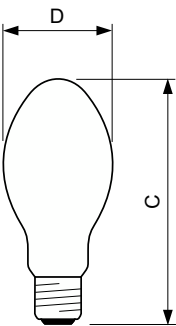
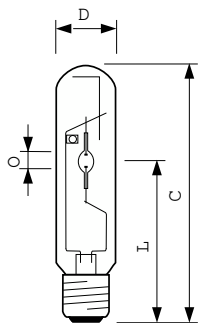


LPPR CDO-TT 0003



Mastercolor CDM-EP MW eco  
360W/840 E40

## Dimensional drawing

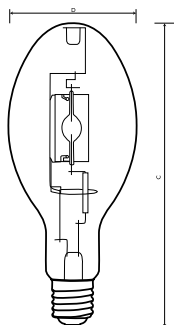


| Product                                | D (max) | O       | L      | C (max) |
|----------------------------------------|---------|---------|--------|---------|
| MASTERColour CDM-T MW eco 230W/842 E40 | 47 mm   | 12.4 mm | 157 mm | 257 mm  |
| MASTERColour CDM-T MW eco 360W/842 E40 | 47 mm   | 11.9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

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

# MASTERColour CDM MW Eco

## Dimensional drawing



| Product                                 | D (max) | C (max) |
|-----------------------------------------|---------|---------|
| MSTColour CDM-EP MW eco 360W/840 E40 CL | 121 mm  | 290 mm  |

| General Information    |                 |
|------------------------|-----------------|
| Cap-Base               | E40             |
| Light Technical        |                 |
| Color Designation      | Cool White (CW) |
| Mechanical and Housing |                 |
| Bulb Material          | Hard Glass      |

## General Information

| Order Code | Full Product Name                                          | Operating Position |
|------------|------------------------------------------------------------|--------------------|
| 59568800   | MASTERColour MW eco MASTERColour CDM-E MW eco 360W/842 E40 | UNIVERSAL          |
| 59664700   | MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40 | UNIVERSAL          |
| 59681400   | MASTERColour MW eco MASTERColour CDM-T MW eco 230W/842 E40 | UNIVERSAL          |

| Order Code | Full Product Name                                           | Operating Position |
|------------|-------------------------------------------------------------|--------------------|
| 64610600   | MASTERColour MW eco MASTERColour CDM-T MW eco 360W/842 E40  | P45                |
| 73481000   | MASTERColour MW eco MASTERColour CDM-EP MW eco 360W/840 E40 | UNIVERSAL          |

## Light Technical

| Order Code | Full Product Name                                           | Chromaticity Coordinate X (Nom) | Chromaticity Coordinate Y (Nom) | Correlated Color Temperature (Nom) | Color rendering index (CRI) | Luminous Efficacy (Rated) (Min) | Luminous Efficacy (rated) (Nom) | Luminous Flux |
|------------|-------------------------------------------------------------|---------------------------------|---------------------------------|------------------------------------|-----------------------------|---------------------------------|---------------------------------|---------------|
| 59568800   | MASTERColour MW eco MASTERColour CDM-E MW eco 360W/842 E40  | 0.371                           | 0.366                           | 4200 K                             | 88                          | -                               | 90 lm/W                         | 32,400 lm     |
| 59664700   | MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40  | 0.371                           | 0.366                           | 4200 K                             | 89                          | -                               | 90 lm/W                         | 20,500 lm     |
| 59681400   | MASTERColour MW eco MASTERColour CDM-T MW eco 230W/842 E40  | 0.371                           | 0.366                           | 4200 K                             | 88                          | -                               | 94 lm/W                         | 21,400 lm     |
| 64610600   | MASTERColour MW eco MASTERColour CDM-T MW eco 360W/842 E40  | 0.371                           | 0.366                           | 4200 K                             | 88                          | -                               | 98.06 lm/W                      | 35,400 lm     |
| 73481000   | MASTERColour MW eco MASTERColour CDM-EP MW eco 360W/840 E40 | 386                             | 395                             | 4000 K                             | 90                          | 83 lm/W                         | 93 lm/W                         | -             |

## Operating and Electrical

# MASTERColour CDM MW Eco

| Order Code | Full Product Name                                          | Voltage (Nom) | Power Consumption |
|------------|------------------------------------------------------------|---------------|-------------------|
| 59568800   | MASTERColour MW eco MASTERColour CDM-E MW eco 360W/842 E40 | 118 V         | 360.0 W           |
| 59664700   | MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40 | 117 V         | 228.5 W           |
| 59681400   | MASTERColour MW eco MASTERColour CDM-T MW eco 230W/842 E40 | 127 V         | 227.0 W           |

| Order Code | Full Product Name                                           | Voltage (Nom) | Power Consumption |
|------------|-------------------------------------------------------------|---------------|-------------------|
| 64610600   | MASTERColour MW eco MASTERColour CDM-T MW eco 360W/842 E40  | 123 V         | 361.0 W           |
| 73481000   | MASTERColour MW eco MASTERColour CDM-EP MW eco 360W/840 E40 | 118 V         | 356 W             |

## Controls and Dimming

| Order Code | Full Product Name                                          | Dimmable |
|------------|------------------------------------------------------------|----------|
| 59568800   | MASTERColour MW eco MASTERColour CDM-E MW eco 360W/842 E40 | No       |
| 59664700   | MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40 | No       |
| 59681400   | MASTERColour MW eco MASTERColour CDM-T MW eco 230W/842 E40 | No       |

| Order Code | Full Product Name                                           | Dimmable |
|------------|-------------------------------------------------------------|----------|
| 64610600   | MASTERColour MW eco MASTERColour CDM-T MW eco 360W/842 E40  | No       |
| 73481000   | MASTERColour MW eco MASTERColour CDM-EP MW eco 360W/840 E40 | -        |

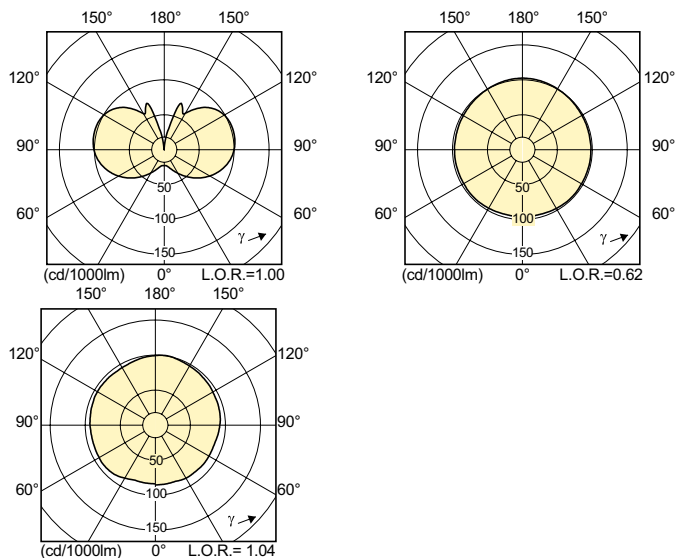
## Mechanical and Housing

| Order Code | Full Product Name                                          | Bulb Finish  | Bulb Shape |
|------------|------------------------------------------------------------|--------------|------------|
| 59568800   | MASTERColour MW eco MASTERColour CDM-E MW eco 360W/842 E40 | Coated glass | B90        |
| 59664700   | MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40 | Coated glass | B90        |
| 59681400   | MASTERColour MW eco MASTERColour CDM-T MW eco 230W/842 E40 | Clear        | T46        |

| Order Code | Full Product Name                                           | Bulb Finish | Bulb Shape |
|------------|-------------------------------------------------------------|-------------|------------|
| 64610600   | MASTERColour MW eco MASTERColour CDM-T MW eco 360W/842 E40  | Clear       | T46        |
| 73481000   | MASTERColour MW eco MASTERColour CDM-EP MW eco 360W/840 E40 | Clear       | BD120      |

## Approval and Application

| Order Code | Full Product Name                                           | Energy Consumption kWh/1000 h | Mercury (Hg) Content (Max) | Mercury (Hg) Content (Nom) |
|------------|-------------------------------------------------------------|-------------------------------|----------------------------|----------------------------|
| 59568800   | MASTERColour MW eco MASTERColour CDM-E MW eco 360W/842 E40  | 360 kWh                       | 48 mg                      | 48.0 mg                    |
| 59664700   | MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40  | 229 kWh                       | 32 mg                      | 32.0 mg                    |
| 59681400   | MASTERColour MW eco MASTERColour CDM-T MW eco 230W/842 E40  | 227 kWh                       | 32 mg                      | 32.0 mg                    |
| 64610600   | MASTERColour MW eco MASTERColour CDM-T MW eco 360W/842 E40  | 361 kWh                       | 48 mg                      | 48.0 mg                    |
| 73481000   | MASTERColour MW eco MASTERColour CDM-EP MW eco 360W/840 E40 | 392 kWh                       | -                          | 44.6 mg                    |



## MASTERC colour CDM MW Eco

