PHILIPS

Lighting



MASTERColour CDM MW Eco

MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40

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.

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.

Product data

General information	
Cap-Base	E40 [E40]
Operating Position	UNIVERSAL [Any or Universal (U)]
Life to 5% Failures (Nom)	12000 h
Life To 10% Failures (Nom)	16000 h
Life to 20% Failures (Nom)	20000 h
Life to 50% Failures (Nom)	30000 h
System Description	Universal
LSF 2000 h Rated	99 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	98 %
LSF 12000 h Rated	95 %
LSF 16000 h Rated	90 %
LSF 20000 h Rated	80 %
LSF 24000 h Rated	70 %
LSF 28000 h Rated	56 %
LSF 30000 h Rated	50 %
Flux measurement reference	Sphere

Light technical	
Color Code	842 [CCT of 4200K]
Luminous Flux (Nom)	20500 lm
Luminous Flux (Rated) (Nom)	20500 lm
Color Designation	Cool White (CW)
Chromaticity Coordinate X (Nom)	0.371
Chromaticity Coordinate Y (Nom)	0.366
Correlated Color Temperature (Nom)	4200 K

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Luminous Efficacy (rated) (Nom)	90 lm/W
Color Rendering Index (Min)	86
Color Rendering Index (Nom)	89
LLMF 2000 h Rated	92 %
LLMF 4000 h Rated	87 %
LLMF 6000 h Rated	84 %
LLMF 8000 h Rated	82 %
LLMF 12000 h Rated	80 %
LLMF 16000 h Rated	77 %
LLMF 20000 h Rated	75 %
Ratio Scotopic/Photopic Lumens	1.78

Operating and electrical

Power (Nom)	228.5 W
Lamp Current Run-Up (Max)	2.3 A
Lamp Current (EM) (Nom)	2.26 A
Ignition Supply Voltage (Max)	198 V
Ignition Peak Voltage (Max)	5000 V
Ignition Peak Voltage (Min)	750 V
Re-Ignition Time (Min) (Max)	900 s
Ignition Time (Max)	30 s
Voltage (Max)	127 V
Voltage (Min)	113 V
Voltage (Nom)	117 V

Controls and dimming

Dimmable	No
Run-Up Time 90% (Max)	3 min

Mechanical and housing

Bulb Finish	Coated glass
Bulb Material	Hard Glass
Bulb Shape	B90 [B 90mm]

Approval and application

Energy Efficiency Class	G
Mercury (Hg) Content (Max)	32 mg
Mercury (Hg) Content (Nom)	32.0 mg
Energy Consumption kWh/1000 h	229 kWh
EPREL Registration Number	473318

UV

Pet (Niosh) (Nom)	8 h/500lx

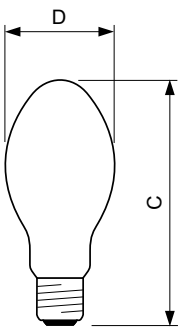
Luminaire design requirements

Bulb Temperature (Max)	350 °C
Cap-Base Temperature (Max)	250 °C

Product data

Full product code	871869659664700
Order product name	MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40
EAN/UPC - Product	8718696596647
Order code	928070419830
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928070419830
Copy Net Weight (Piece)	158.000 g

Dimensional drawing

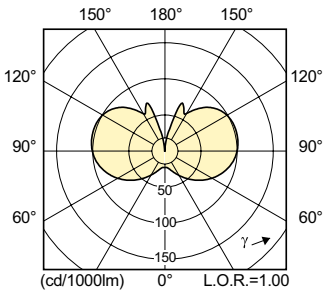


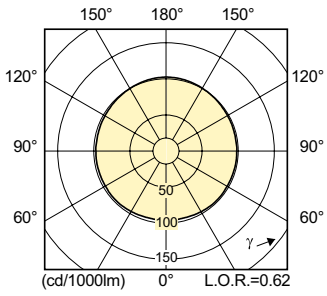
MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40

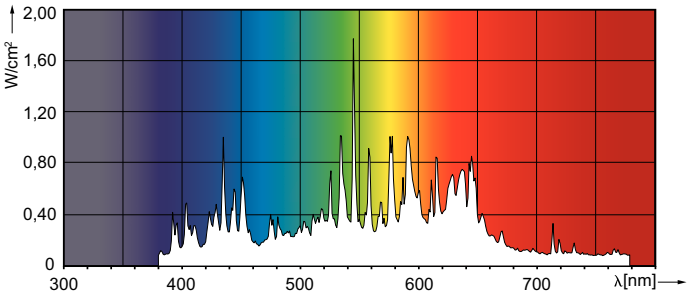
Product	D (max)	C (max)
MASTERColour MW eco MASTERColour CDM-E MW eco 230W/842 E40	91 mm	226 mm

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Photometric data



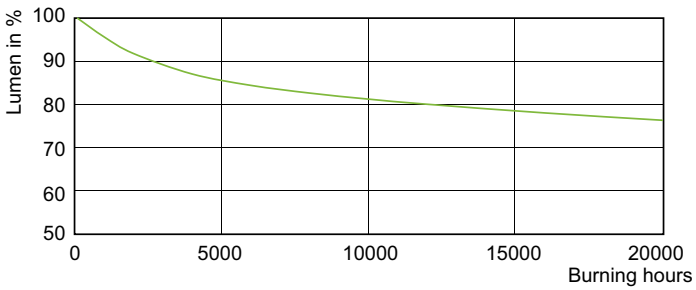


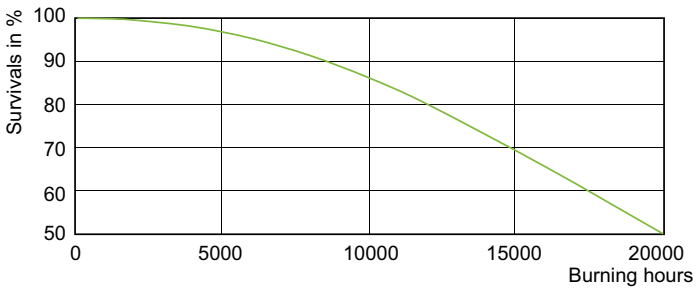


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Lifetime





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