



# MasterColor CDM ED28 Elite

## MHC100/U/HR/4K ED28 - Elite

Philips MasterColor Ceramic Metal Halide Pulse Start ED28 Lamps are a better value than quartz metal halide, with longer life, higher lumen maintenance, and energy efficiency.

### Warnings and Safety

- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

### Product data

General information	
Cap-Base	E39 [ Single Contact Mogul Screw]
Operating Position	UNIVERSAL [ Any or Universal (U)]
Main Application	General Lighting (G)
Life to 50% Failures (Nom)	20000 h
ANSI Code HID	C90/E
Features	ELITE
System Description	Hot Restrike

Light technical	
Color Code	940 [ CCT of 4000K]
Luminous Flux (Rated) (Min)	9000 lm
Luminous Flux (Rated) (Nom)	10000 lm
Color Designation	Natural (N)
Design Mean Lumens	8000 lm

Chromaticity Coordinate X (Nom)	0.379
Chromaticity Coordinate Y (Nom)	0.375
Correlated Color Temperature (Max)	4280 K
Correlated Color Temperature (Min)	3880 K
Correlated Color Temperature (Nom)	4080 K
Luminous Efficacy (Rated) (Min)	91 lm/W
Luminous Efficacy (rated) (Nom)	100 lm/W
Color Rendering Index (Nom)	90

Operating and electrical	
Power (Nom)	100.4 W
Lamp Current (Nom)	1.1 A
Ignition Supply Voltage (Min)	235 V
Re-Ignition Time (Min) (Max)	1 s
Ignition Time (Max)	10 s

# MasterColor CDM ED28 Elite

Voltage (Max)	114 V
Voltage (Min)	90 V
Voltage (Nom)	102 V

## Mechanical and housing

Bulb Finish	Clear
Cap-Base Information	Brass Cap
Bulb Material	Hard Glass
Bulb Shape	ED28

## Approval and application

Picogram Per Lumen Hour	61 pg/lm.h
Mercury (Hg) Content (Max)	9.9 mg

## Luminaire design requirements

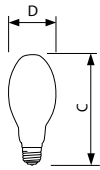
Bulb Temperature (Max)	400 °C
------------------------	--------

Cap-Base Temperature (Max)	190 °C
Cap-Base Temperature (Max)-DUP(do not use)	374 °F

## Product data

Order product name	MHC100/U/HR/4K ED28 - Elite
EAN/UPC - Product	046677430702
Order code	928601178501
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928601178501
Net Weight (Piece)	0.001 kg

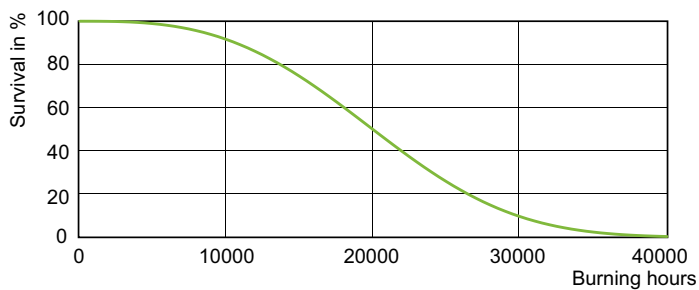
## Dimensional drawing



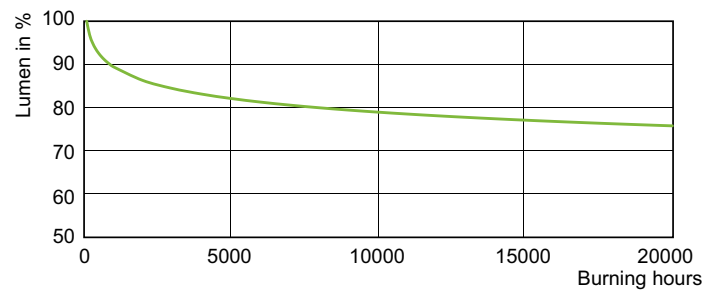
Product	D	C (max)
MHC100/U/HR/4K ED28 - Elite	3.5 in	8.313 in

MHC100/U/HR/4K ED28 - Elite

## Lifetime



LDLE\_D-MHC-HR\_0001-Life expectancy diagram



LDLM\_D-MHC-HR\_0001-Lumen maintenance diagram

## MasterColor CDM ED28 Elite

