

111
kWh/1000h

A+
energy class

92
lumens/watt

ConstantColor™ CMH Elliptical Clear

CMH100/E/UVC/U/830/E27/C MIH
97984

Product information

ConstantColor™ CMH lamps combine the HPS technology (providing stability, efficiency & uniformity) and the Metal Halide Technology (providing bright white quality light) to produce highly efficient light sources with good colour rendering and consistent colour performance through life. This is achieved by using the ceramic arc tube material from the Lucalox™ lamp, which minimises the chemical changes inside the lamp through life. When combined with the halide doses used in Arcstream™ Metal Halide lamps then the quality and stability of the dose maintains the colour consistency.

Metal halide lamps, traditionally made with quartz arc tubes, are prone to colour shift through life and lamp-to-lamp colour variation. Some of the dose, e.g. sodium, (an important component of metal halide lamps), can migrate through quartz to cause colour shift and loss of light through life. The ceramic arc tube resists this material loss, can be manufactured to tighter tolerances and

withstands a higher temperature to provide a more constant colour.

Application areas



Road and tunnel



Street and pedestrian



Commercial areas

Product data

Light Center Length [mm]	89
Product Code	97984
Bulb Shape	Elliptical
Bulb Finish	Clear
Net weight per piece [g]	186
Gross weight per piece [g]	186
Operating position	U - Universal
Mercury Content [mg]	7.3
Brand	GE Lighting
Cap/Base	E27

Performance data

Rated Lumens [lm]	10103
Weighted energy consumption [kWh/1000h]	110.92
Nominal efficacy [LpW]	92
Rated efficacy [LpW]	100.2
Energy efficiency class (EEC)	A+
Nominal chromaticity coordinate X	0.435
Nominal chromaticity coordinate Y	0.414
Nominal correlated colour temperature (CCT) [K]	3000
Nominal lumens [lm]	9200
Colour Rendering Index (CRI) [Ra]	83

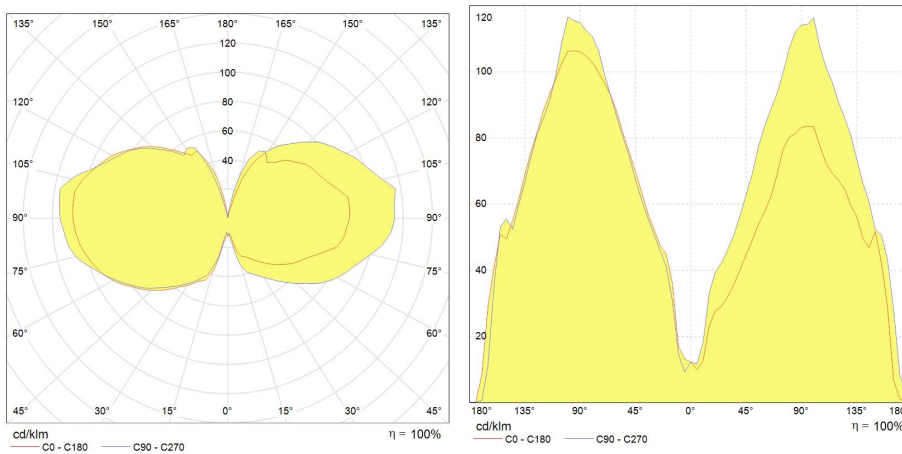
Electrical data

Rated power [W]	100.8
Run-up time (sec)	240
Hot restart time (sec)	900
Dimming Capability	No
Nominal power [W]	100.0
Nominal lamp voltage [V]	100

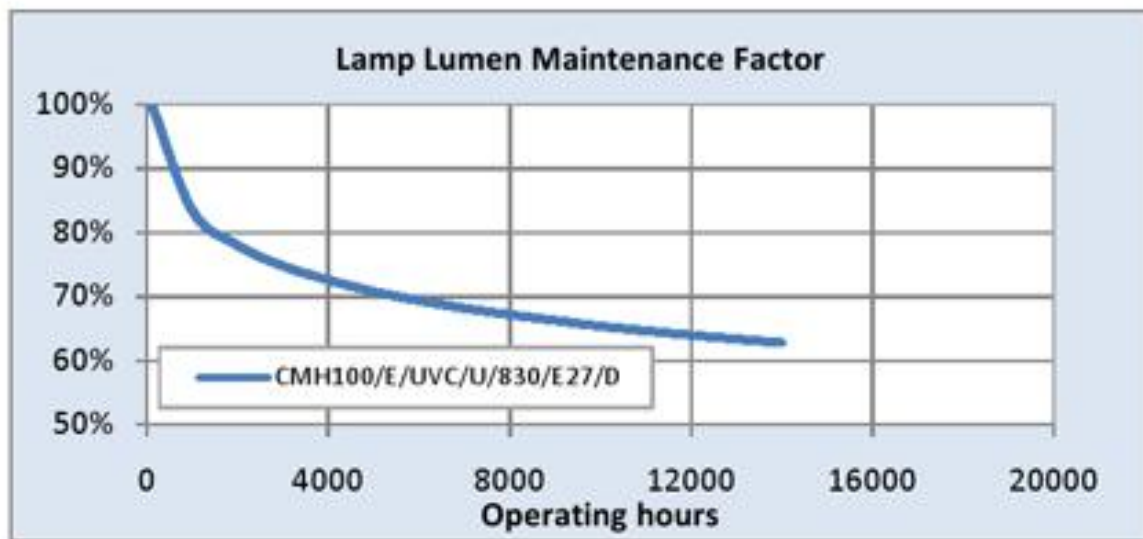
Logistic data

DUN Code	10043168979846
EAN Code	0043168979849
Pack Quantity	6
Inner pack type	SLEEVE
Outer pack type	OUTER BOX
Layer quantity	234 EUR, 300 UK
Layer quantity EUR	234
Layer quantity UK	300
Pallet quantity EUR (PC)	1404
Pallet quantity UK (PC)	1800
Outer case size	183 x 125 x 171 (mm)
Product status	Available

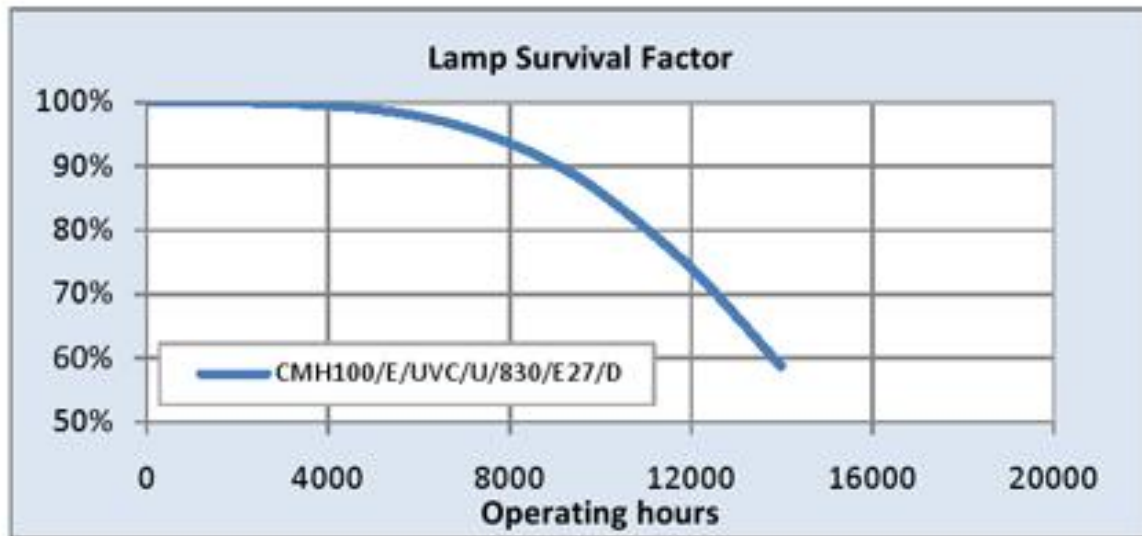
Photometric Data



Lumen maintenance data



Survival data



Downloads & Links

[Go to the catalog site \(HTTP\)](#)

[Photometry \(IES\)](#)

[HID Lamps Spectrum Catalogue \(EN\) \(PDF\)](#)

[CMH Elliptical Clear, Diffuse Data sheet \(PDF\)](#)

[Lighting design tools & calculators \(HTTP\)](#)

[HID Lamps Spectrum Catalogue \(EN\) \(PDF\)](#)

[ConstantColor™ CMH Ultra Brochure \(PDF\)](#)

[ConstantColor™ White Light CMH Brochure \(PDF\)](#)

[CMH Elliptical Clear, Diffuse Data sheet \(PDF\)](#)

[ConstantColor™ CMH Open Rated Data sheet \(PDF\)](#)

[Lighting design tools & calculators \(HTTP\)](#)

[High-res images / Technical drawings \(HTTP\)](#)

[Certificate for the Quality Management System of GE Lighting EMEA \(PDF\)](#)

[Certificate for the Environmental Management System of GE Lighting EMEA \(PDF\)](#)