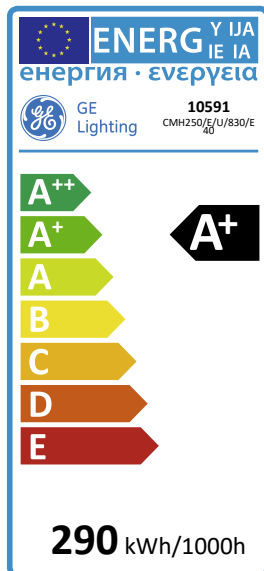




GE
Lighting



290
kWh/1000h

A+
energy class

94
lumens/watt

ConstantColor™ CMH Elliptical Diffuse CMH250/E/U/830/E40 10591

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. Hence the name ConstantColor™ CMH. Metal halide lamps, traditionally made with quartz arc tubes, are prone to colour shift through life and lampto-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

Product Code	10591
Bulb Shape	Elliptical
Bulb Finish	Diffuse
Maximum Overall Length [mm]	251
Net weight per piece [g]	154
Gross weight per piece [g]	203
Operating position	U - Universal
Mercury Content [mg]	29
UV radiance	Exempt
Brand	General Electric (GE)
Cap/Base	E40

Performance data

Colour Code	830
Rated Lumens [lm]	23810
Weighted energy consumption [kWh/1000h]	289.38
Nominal efficacy [LpW]	94
Rated efficacy [LpW]	90.5
Energy efficiency class (EEC)	A+
Nominal chromaticity coordinate X	0.43
Nominal chromaticity coordinate Y	0.39
Nominal correlated colour temperature (CCT) [K]	3600
Nominal lumens [lm]	23500
Colour Rendering Index (CRI) [Ra]	80

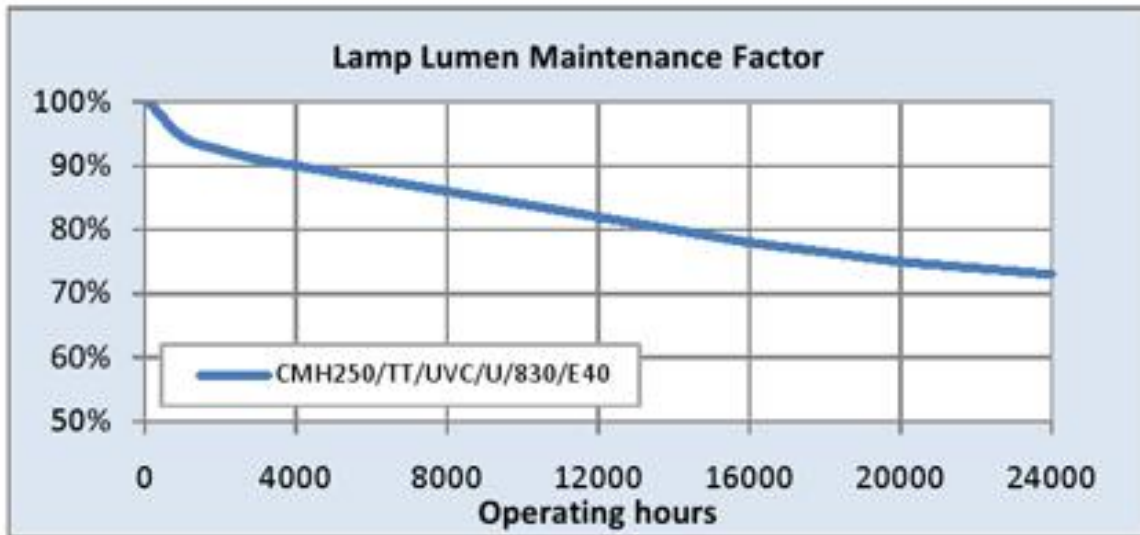
Electrical data

Rated power [W]	263.1
Lamp Current [A]	2.7
Design Ambient Temperature [°C]	25
Run-up time (sec)	300
Hot restart time (sec)	900
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	250
Nominal lamp voltage [V]	107

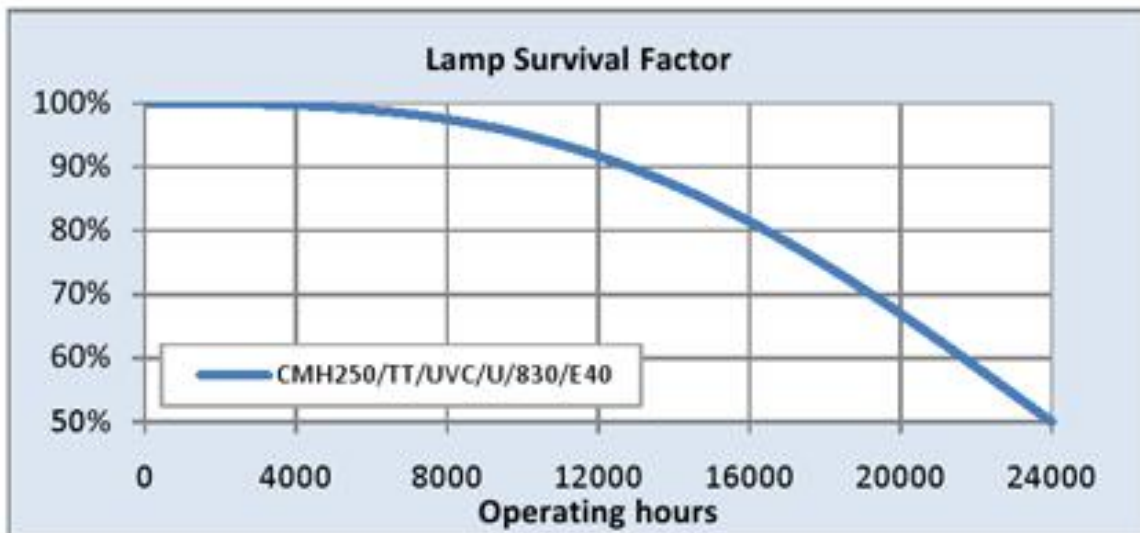
Logistic data

DUN Code	20043168105914
EAN Code	0043168105910
Pack Quantity	12
Layer quantity	96 EUR, 120 UK
Layer quantity EUR	96
Layer quantity UK	120
Pallet quantity EUR (PC)	384
Pallet quantity UK (PC)	480
Outer case size	391 x 295 x 255 (mm)
Product status	Available

Lumen maintenance data



Survival data



Downloads & Links

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

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

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

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

[ConstantColor™ CMH High watt. datasheet \(PDF\)](#)

[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 \(PDF\)](#)