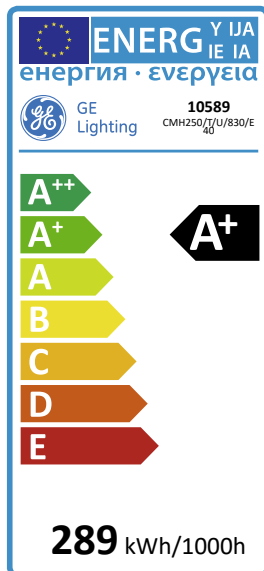




GE  
Lighting



289  
kWh/1000h

A+  
energy class

100  
lumens/watt

## ConstantColor™ CMH Tubular Clear CMH250/T/U/830/E40 10589

### 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	10589
Bulb Shape	Tubular
Bulb Finish	Clear
Maximum Overall Length [mm]	251
Light Center Length [mm]	153.5
Net weight per piece [g]	160
Gross weight per piece [g]	198
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]	25000
Weighted energy consumption [kWh/1000h]	288.2
Nominal efficacy [LpW]	100
Rated efficacy [LpW]	95.4
Energy efficiency class (EEC)	A+
Nominal chromaticity coordinate X	0.43
Nominal chromaticity coordinate Y	0.38
Nominal correlated colour temperature (CCT) [K]	3600
Nominal lumens [lm]	25000
Colour Rendering Index (CRI) [Ra]	80

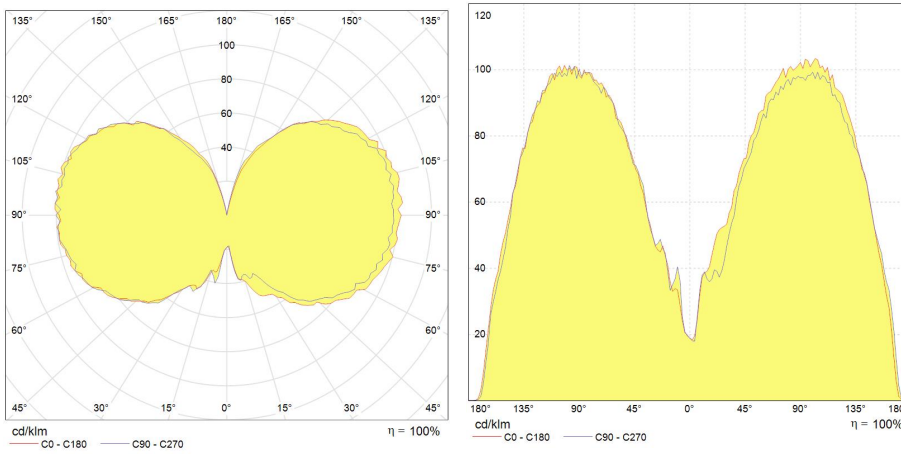
## Electrical data

Rated power [W]	262.0
Lamp Current [A]	2.7
Design Ambient Temperature [°C]	25
Run-up time (sec)	300
Hot restart time (sec)	900
Ballast Required	Yes
Nominal power [W]	250
Nominal lamp voltage [V]	110

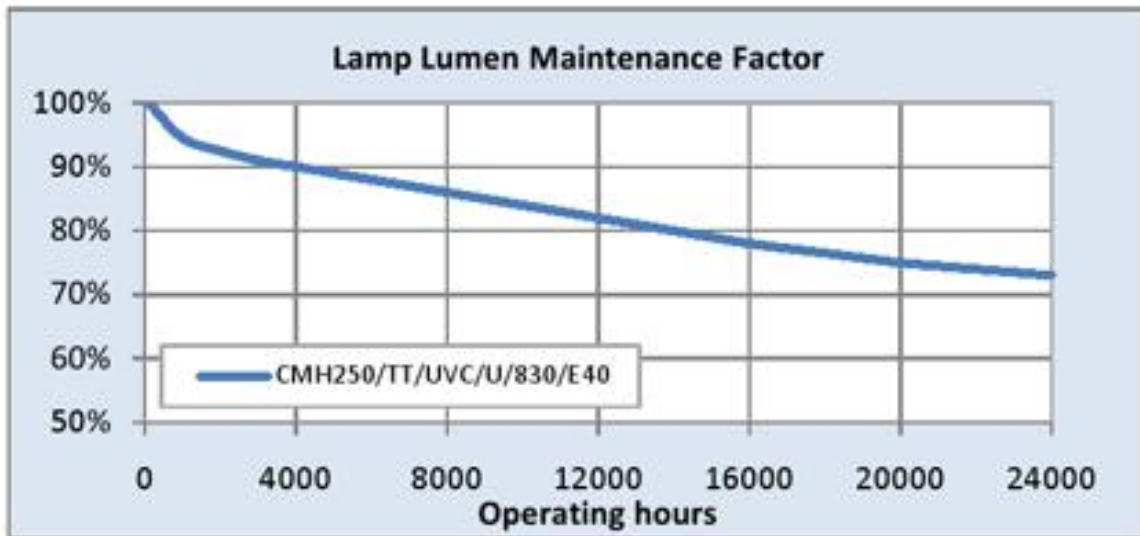
## Logistic data

DUN Code	20043168105891
EAN Code	0043168105897
Pack Quantity	12
Inner pack type	BOX
Outer pack type	OUTER BOX
Layer quantity	288 EUR, 372 UK
Layer quantity EUR	288
Layer quantity UK	372
Pallet quantity EUR (PC)	864
Pallet quantity UK (PC)	1116
Outer case size	215 x 162 x 349 (mm)
Product status	Available

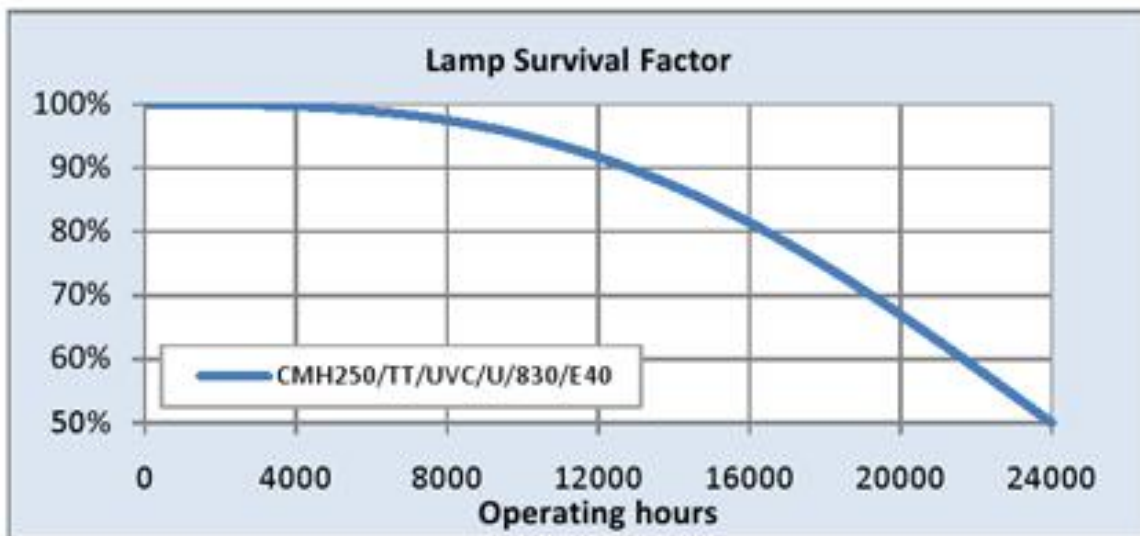
### Photometric Data



### Lumen maintenance data



## Survival data



## Downloads & Links

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

[Photometry \(IES\)](#)

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

[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 \(PDF\)](#)