

454
kWh/1000h

A+
energy class

98
lumens/watt

ConstantColor™ CMH Elliptical Diffuse CMH400/E/UVC/U/830/E40 13087

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	13087
Bulb Shape	Elliptical
Bulb Finish	Diffuse
Maximum Overall Length [mm]	280
Net weight per piece [g]	229
Gross weight per piece [g]	315
Operating position	U - Universal
Mercury Content [mg]	38
UV radiance	Exempt
Brand	GE Lighting
Cap/Base	E40

Performance data

Colour Code	830
Rated Lumens [lm]	39340
Weighted energy consumption [kWh/1000h]	453.86
Nominal efficacy [LpW]	98
Rated efficacy [LpW]	95.3
Energy efficiency class (EEC)	A+
Nominal chromaticity coordinate X	0.43
Nominal chromaticity coordinate Y	0.39
Nominal correlated colour temperature (CCT) [K]	3100
Nominal lumens [lm]	39000
Colour Rendering Index (CRI) [Ra]	80

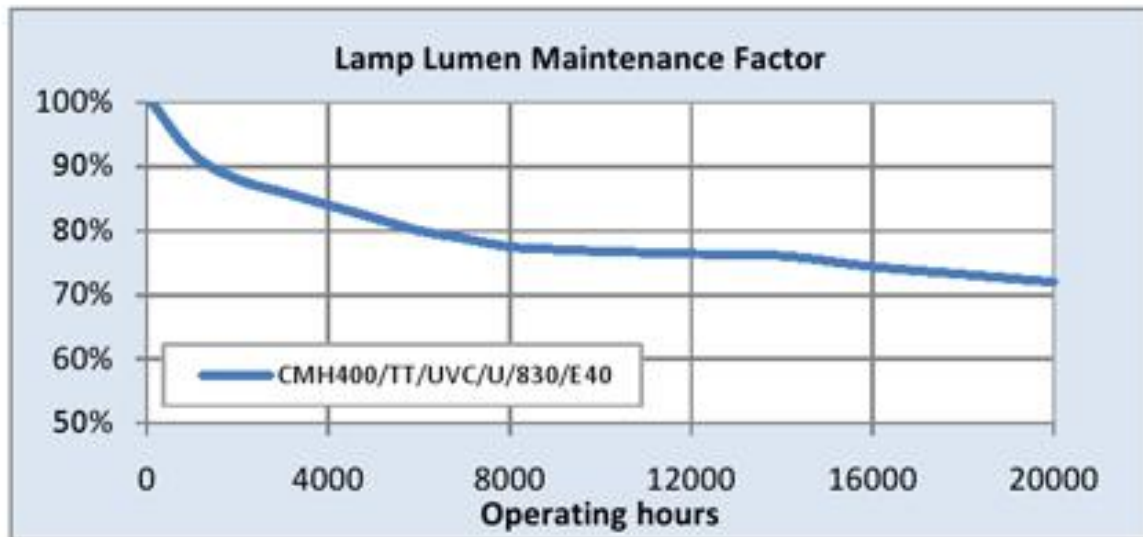
Electrical data

Rated power [W]	412.6
Lamp Current [A]	4.2
Design Ambient Temperature [°C]	25
Run-up time (sec)	240
Hot restart time (sec)	900
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	400.0
Nominal lamp voltage [V]	115

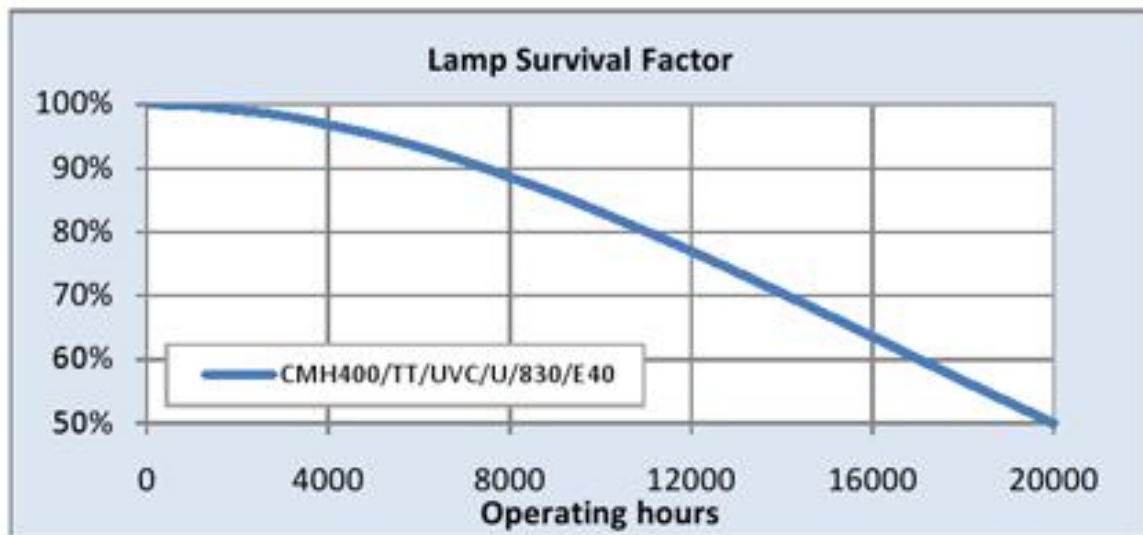
Logistic data

DUN Code	20043168130879
EAN Code	0043168130875
Pack Quantity	6
Inner pack type	SLEEVE
Layer quantity	54 EUR, 60 UK
Layer quantity EUR	54
Layer quantity UK	60
Pallet quantity EUR (PC)	162
Pallet quantity UK (PC)	180
Outer case size	380 x 255 x 302 (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 \(HTTP\)](#)

[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 \(PDF\)](#)

[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 \(PDF\)](#)