

**164**  
kWh/1000h

**A**  
energy class

**88**  
lumens/watt

## ConstantColor™ CMH Elliptical Clear

CMH150/E/UVC/O/U/942/E27/C TU  
93102198

### 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.

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### Application areas



Road and tunnel



Street and  
pedestrian



Commercial  
areas

## Product data

Product Code	93102198
Light Center Length [mm]	86
Bulb Shape	Elliptical
Bulb Finish	Clear
Maximum Overall Length [mm]	137
Net weight per piece [g]	86
Gross weight per piece [g]	95
Operating position	U - Universal
Mercury Content [mg]	9
UV radiance	Exempt
Brand	Tungsräm
Cap/Base	E27

## Performance data

Colour Code	942
Rated Lumens [lm]	12700
Weighted energy consumption [kWh/1000h]	163.27
Nominal efficacy [LpW]	88
Rated efficacy [LpW]	86
Energy efficiency class (EEC)	A
Nominal chromaticity coordinate X	0.373
Nominal chromaticity coordinate Y	0.371
Nominal correlated colour temperature (CCT) [K]	4200
Nominal lumens [lm]	13200
Colour Rendering Index (CRI) [Ra]	90

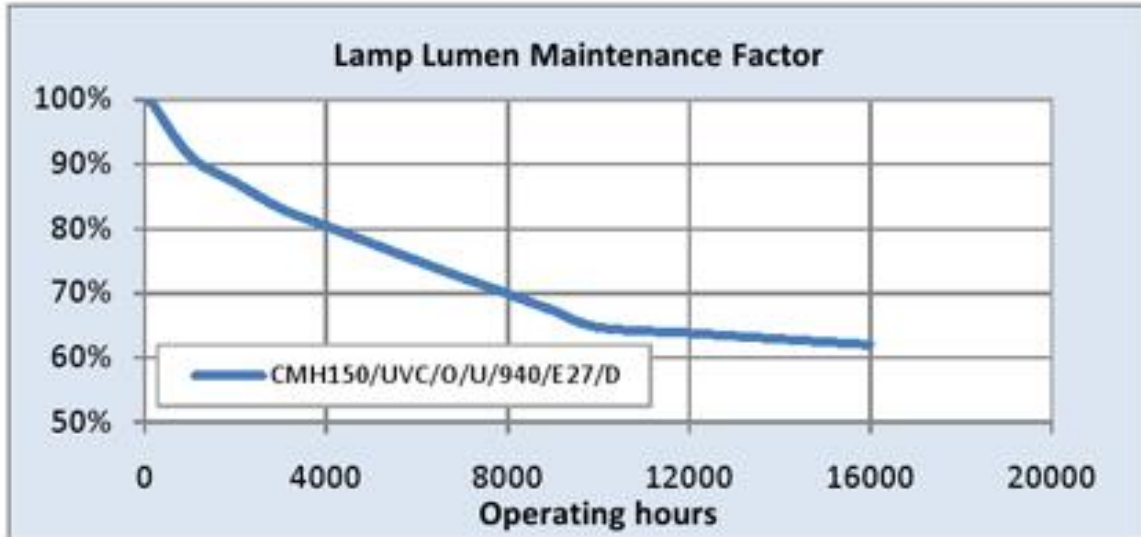
## Electrical data

Rated power [W]	148.4
Lamp Current [A]	1.8
Design Ambient Temperature [°C]	25
Run-up time (sec)	180
Hot restart time (sec)	900
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	150
Nominal lamp voltage [V]	96

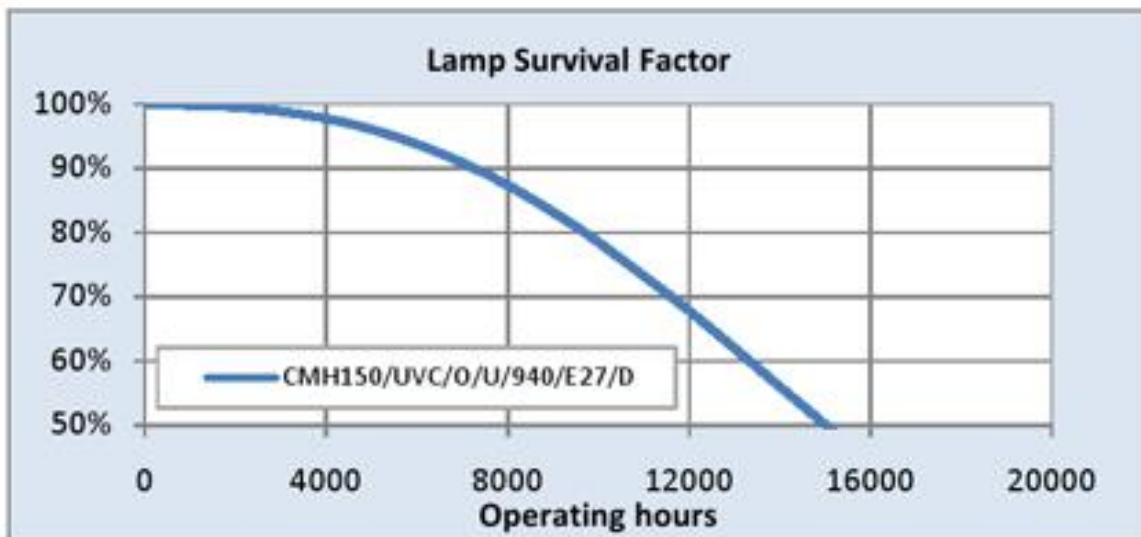
## Logistic data

DUN Code	15994100017247
EAN Code	5994100017240
Pack Quantity	6
Layer quantity	132 EUR, 174 UK
Layer quantity EUR	132
Layer quantity UK	174
Pallet quantity EUR (PC)	792
Pallet quantity UK (PC)	1044
Outer case size	236 x 166 x 167 (mm)
Product status	Available

## Lumen maintenance data



## Survival data



## Downloads & Links

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

[Product datasheet \(PDF\)](#)

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