

## CerMH Tubular Clear

CMH400/TT/UVC/U/830/E40 TU  
93102166

### Product information

**CerMH lamps combine the HPS technology** (providing stability, efficiency & uniformity) and the Metal Halide Technology (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 Tulox lamp, which minimises the chemical changes inside the lamp through life. When combined with the halide doses used in ARC 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	93102166
Light Center Length [mm]	175
Bulb Shape	Tubular
Bulb Finish	Clear
Regulatory comment	ECODESIGN Scope 2019/2020 EU
Bulb maximum overall diameter [mm]	59
Maximum Overall Length [mm]	270
Arc Gap	21.5
Net weight per piece [g]	176
Gross weight per piece [g]	220
Operating position	U - Universal
Mercury Content [mg]	37.5
UV radiance	Exempt
RoHS compliant	Yes
Brand	Tungsräm
Cap/Base	E40

## Performance data

Colour Code	830
Weighted energy consumption [kWh/1000h]	413.0
Rated useful lumens [lm]	41600
Rated efficacy [lm/W]	100.8
Energy efficiency class (EEC)	F
Rated lumen maintenance factor (2000 hours)	0.88
Rated lumen maintenance factor (4000 hours)	0.837
Rated lumen maintenance factor (6000 hours)	0.8
Rated lumen maintenance factor (8000 hours)	0.764
Rated lumen maintenance factor (12000 hours)	0.764
Rated lumen maintenance factor (16000 hours)	0.744
Rated lumen maintenance factor (20000 hours)	0.732
Rated survival factor (2000 hours)	1
Rated survival factor (4000 hours)	0.968
Rated survival factor (6000 hours)	0.933
Rated survival factor (12000 hours)	0.77
Rated survival factor (16000 hours)	0.636
Rated survival factor (20000 hours)	0.5
Nominal chromaticity coordinate X	0.43
Nominal chromaticity coordinate Y	0.39
Nominal correlated colour temperature (CCT) [K]	3050
Nominal lumens [lm]	41600
Colour Rendering Index (CRI) [Ra]	80

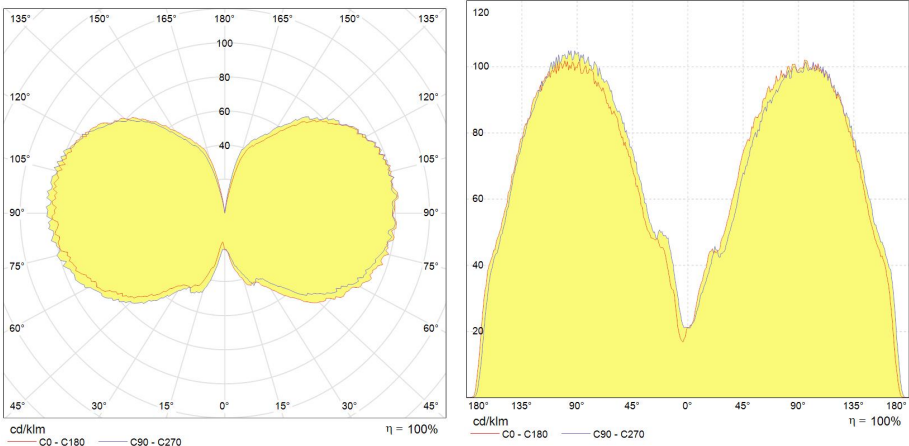
### Electrical data

Rated power [W]	413.0
Lamp Current [A]	4.2
Run-up time (sec)	<240
Starting time (sec)	<10
Hot restart time (sec)	<300
Dimming Capability	only with specific dimmers
Ballast Required	Yes
Nominal lamp voltage range [V]	110
Nominal power [W]	400
Nominal lamp voltage [V]	120

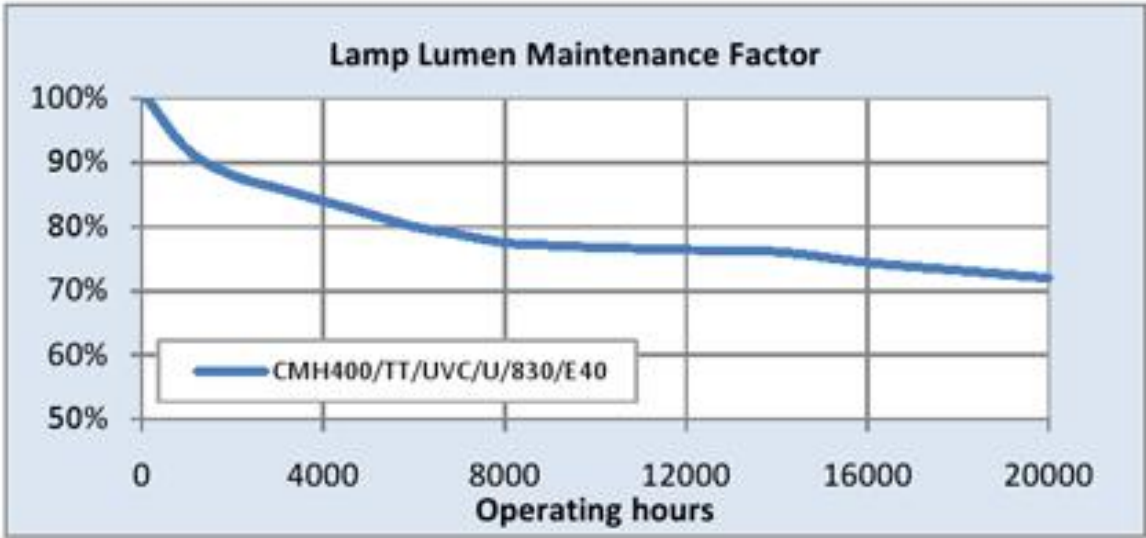
### Logistic data

Shipment	Standard
DUN Code	15994100016929
EAN Code	5994100016922
Pack Quantity	12
Layer quantity	216 EUR. 264 UK
Layer quantity EUR	216
Layer quantity UK	264
Pallet quantity EUR (PC)	648
Pallet quantity UK (PC)	792
Outer case size	256 x 194 x 322 (mm)
Product status	Available

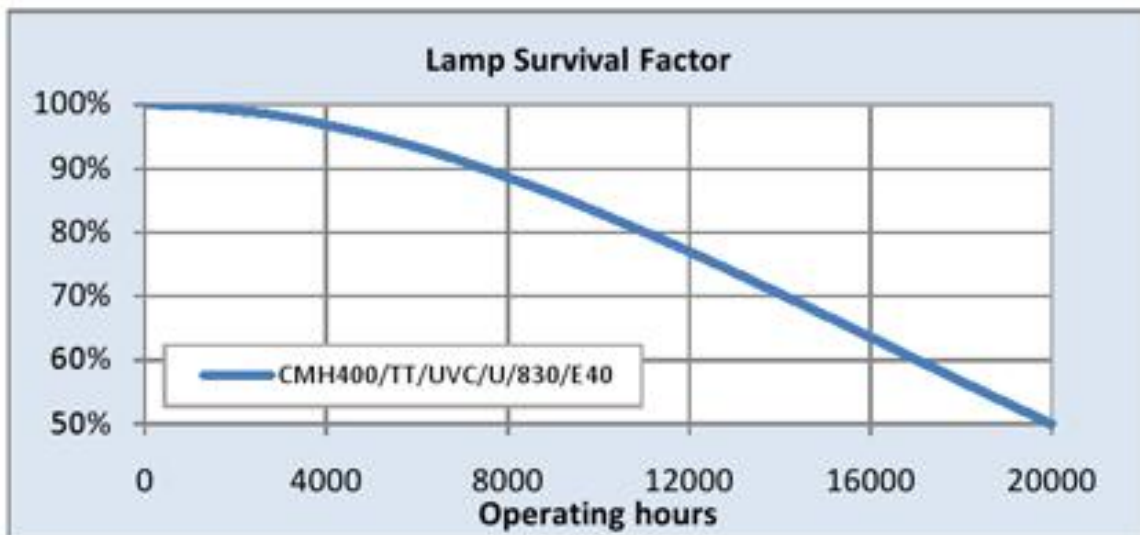
Light distribution



Lumen maintenance data



Survival data



Downloads & Links

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

[Photometry \(IES\)](#)

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

[Link to EPREL \(HTTP\)](#)

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