

82  
kWh/1000h

A  
energy class

67  
lumens/watt

## ConstantColor™ CMH PAR 30

CMH70/PAR30/UVC/U/830/E27/WFL TU  
93104649

### Product information

**ConstantColor™ CMH 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 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 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	93104649
Light Center Length [mm]	33
Bulb Shape	PAR
Bulb Finish	Clear
Bulb Diameter [mm]	95.5
Maximum Overall Length [mm]	124
Net weight per piece [g]	217
Gross weight per piece [g]	262
Operating position	U - Universal
Mercury Content [mg]	8
UV radiance	Exempt
Brand	Tungsräm
Cap/Base	E27

## Performance data

Nominal/ Rated Beam Angle [°]	40
Nominal/ Rated Beam Angle (°)	36.7
Colour Code	830
Nominal center beam candlepower (CBCP) [cd]	10000
Rated peak intensity in [Cd]	10000
Rated Lumens [lm]	4402
Weighted energy consumption [kWh/1000h]	81.72
Useful lumens (at 90° cone) [lm]	4402
Nominal efficacy [LpW]	67
Rated efficacy [LpW]	59.2
Energy efficiency class (EEC)	A
Rated average life [h]	13000
Nominal chromaticity coordinate X	0.436
Nominal chromaticity coordinate Y	0.41
Nominal correlated colour temperature (CCT) [K]	3000
Nominal lumens [lm]	4700
Colour Rendering Index (CRI) [Ra]	80

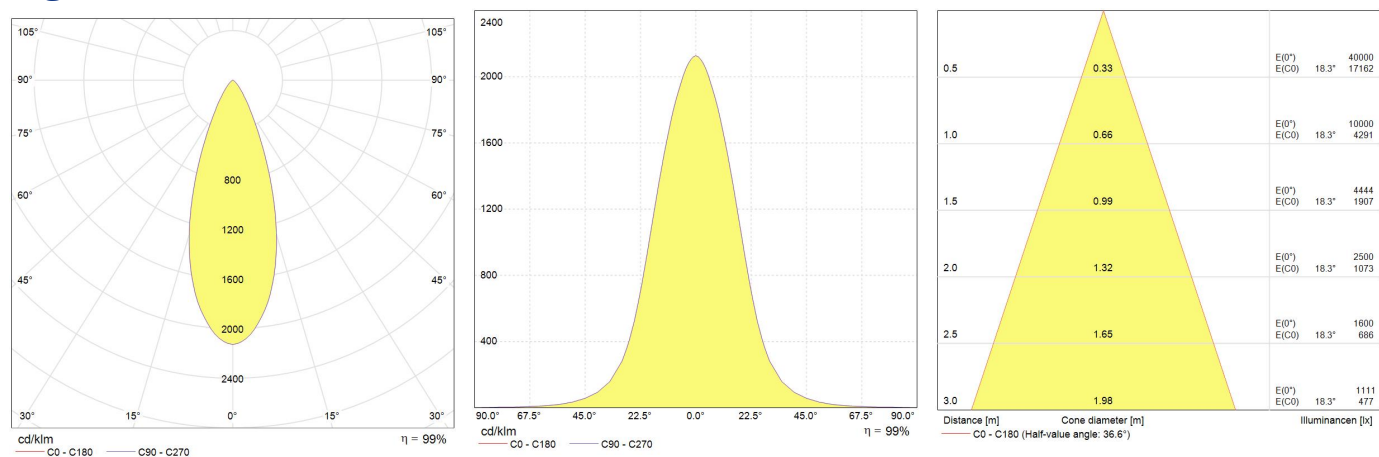
## Electrical data

Rated power [W]	74.3
Lamp Current [A]	1
Design Ambient Temperature [°C]	25
Run-up time (sec)	180
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	70
Nominal lamp voltage [V]	90

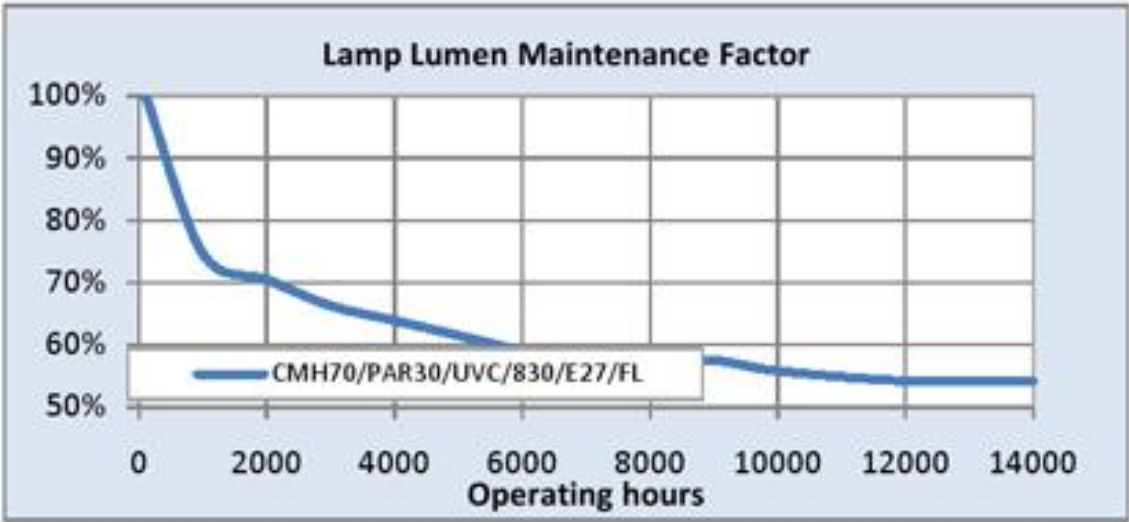
## Logistic data

DUN Code	15994100019159
EAN Code	5994100019152
Pack Quantity	6
Inner pack type	BOX
Layer quantity	96 EUR, 120 UK
Layer quantity EUR	96
Layer quantity UK	120
Pallet quantity EUR (PC)	672
Pallet quantity UK (PC)	840
Outer case size	278 x 188 x 143 (mm)
Product status	Available

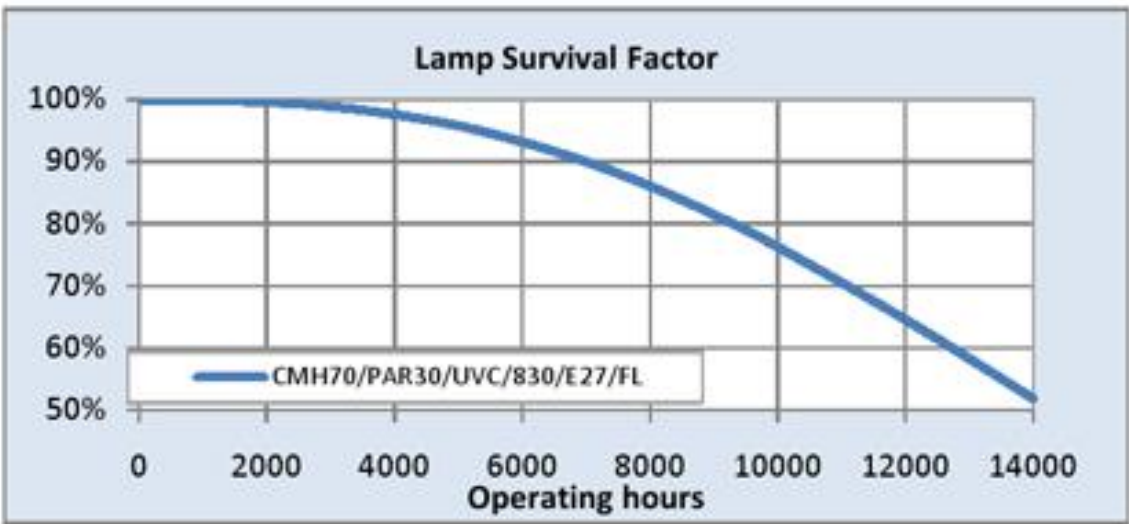
## Light distribution



Lumen maintenance data



Survival data



## Downloads & Links

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

[Photometry \(IES\)](#)

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

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



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