

22  
kWh/1000h

A  
energy class

50  
lumens/watt

## ConstantColor™ CMH MR16

CMH20/MR16/UVC/U/830/GX10/SP TU  
93102192

### Product information

**ConstantColor™ CMH lamps** combine HPS technology (providing stability, efficiency & uniformity) and 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.

### Application areas



Retail



Industrial

Product data

Product Code	93102192
Bulb Shape	Mirrored reflector
Bulb Finish	Clear
Bulb Diameter [mm]	51
Maximum Overall Length [mm]	54.5
Net weight per piece [g]	61
Gross weight per piece [g]	92
Operating position	U - Universal
Mercury Content [mg]	2.3
UV radiance	Exempt
Brand	Tungsräm
Cap/Base	GX10

## Performance data

Nominal/ Rated Beam Angle [°]	12
Nominal/ Rated Beam Angle (°)	11
Colour Code	830
Nominal center beam candlepower (CBCP) [cd]	9000
Rated peak intensity in [Cd]	9289
Rated Lumens [lm]	882
Weighted energy consumption [kWh/1000h]	21.73
Useful lumens (at 90° cone) [lm]	882
Nominal efficacy [LpW]	50
Rated efficacy [LpW]	44.7
Energy efficiency class (EEC)	A
Rated average life [h]	12000
Nominal chromaticity coordinate X	0.431
Nominal chromaticity coordinate Y	0.403
Nominal correlated colour temperature (CCT) [K]	3000
Nominal lumens [lm]	1000
Colour Rendering Index (CRI) [Ra]	80

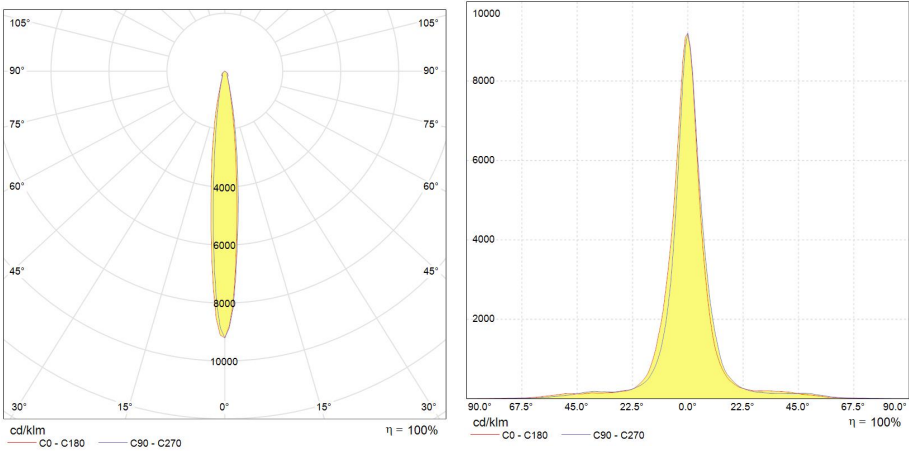
## Electrical data

Rated power [W]	19.8
Lamp Current [A]	0.2
Design Ambient Temperature [°C]	25
Run-up time (sec)	90
Hot restart time (sec)	240
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	20
Nominal lamp voltage [V]	95

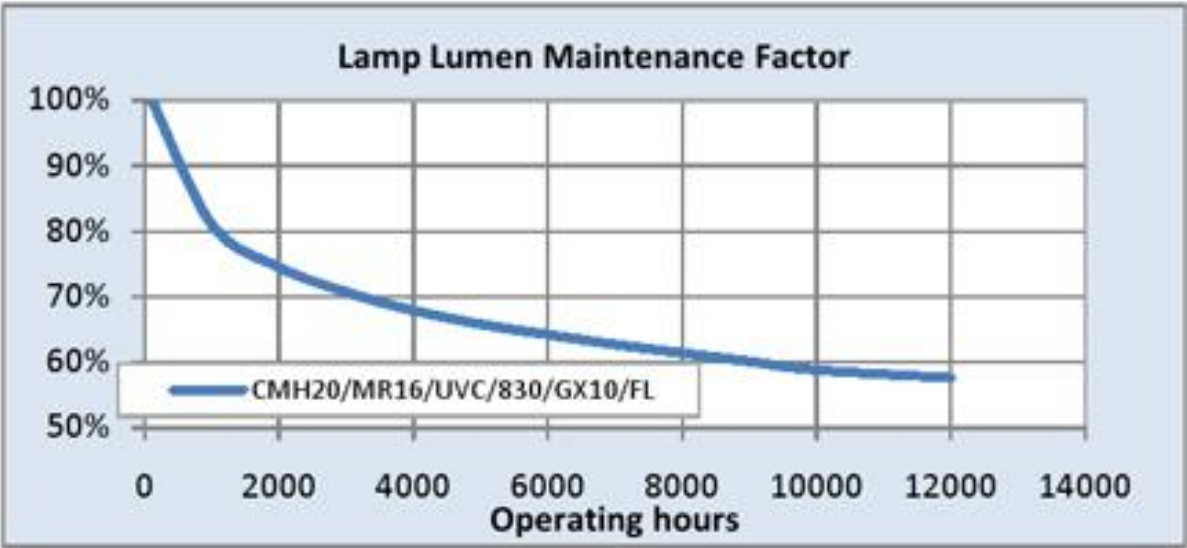
### Logistic data

DUN Code	15994100017186
EAN Code	5994100017189
Pack Quantity	12
Inner pack type	BOX
Layer quantity	288 EUR, 348 UK
Layer quantity EUR	288
Layer quantity UK	348
Pallet quantity EUR (PC)	4032
Pallet quantity UK (PC)	4872
Outer case size	226 x 171 x 77 (mm)
Product status	Available

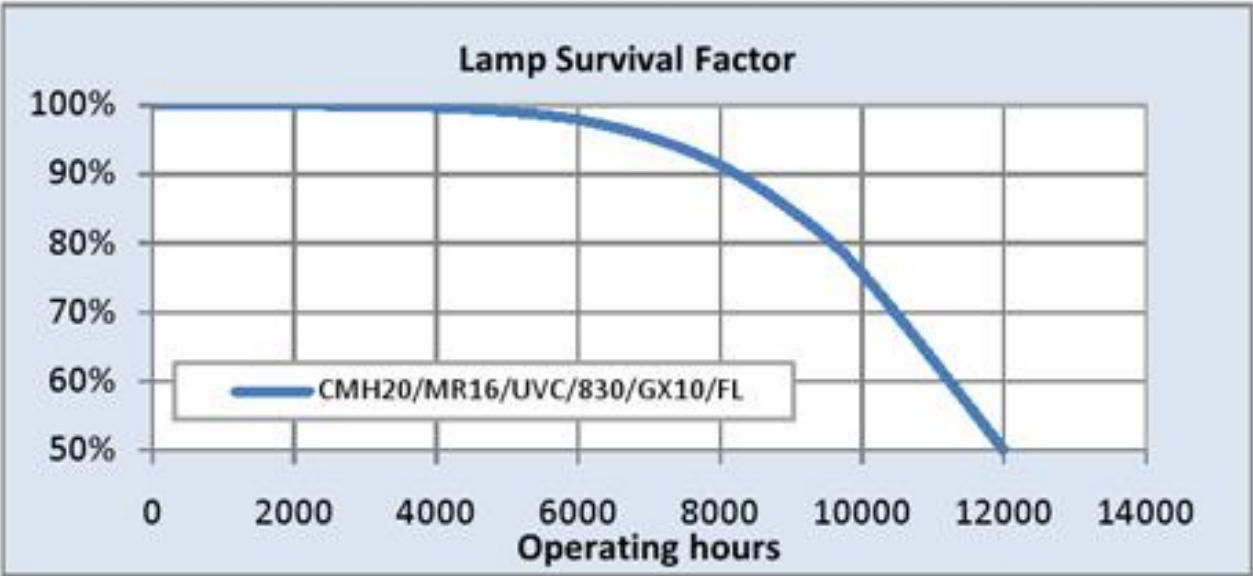
### Light distribution



Lumen maintenance data



Survival data



## Downloads & Links

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

[Photometry \(IES\)](#)

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

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