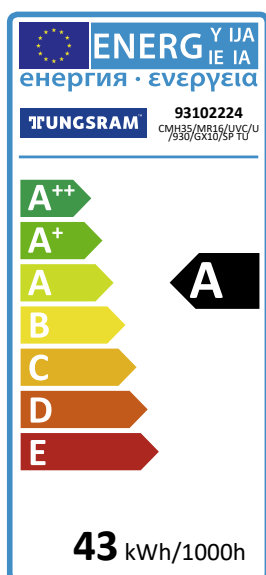


# TUNGSRAM™

Innovation is our heritage  
EST. 1896



43  
kWh/1000h

A  
energy class

56  
lumens/watt

## ConstantColor™ CMH MR16

CMH35/MR16/UVC/U/930/GX10/SP TU  
93102224

### 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	93102224
Bulb Shape	Mirrored reflector
Bulb Finish	Clear
Bulb Diameter [mm]	51
Maximum Overall Length [mm]	54.5
Net weight per piece [g]	64
Gross weight per piece [g]	100
Operating position	U - Universal
Mercury Content [mg]	4.5
UV radiance	Exempt
Brand	Tungsräm
Cap/Base	GX10

## Performance data

Nominal/ Rated Beam Angle [°]	12
Nominal/ Rated Beam Angle (°)	13
Colour Code	930
Nominal center beam candlepower (CBCP) [cd]	16000
Rated peak intensity in [Cd]	16826
Rated Lumens [lm]	2066
Weighted energy consumption [kWh/1000h]	42.21
Useful lumens (at 90° cone) [lm]	2066
Nominal efficacy [LpW]	56
Rated efficacy [LpW]	53.8
Energy efficiency class (EEC)	A
Rated average life [h]	10000
Nominal chromaticity coordinate X	0.444
Nominal chromaticity coordinate Y	0.401
Nominal correlated colour temperature (CCT) [K]	3000
Nominal lumens [lm]	2200
Colour Rendering Index (CRI) [Ra]	90

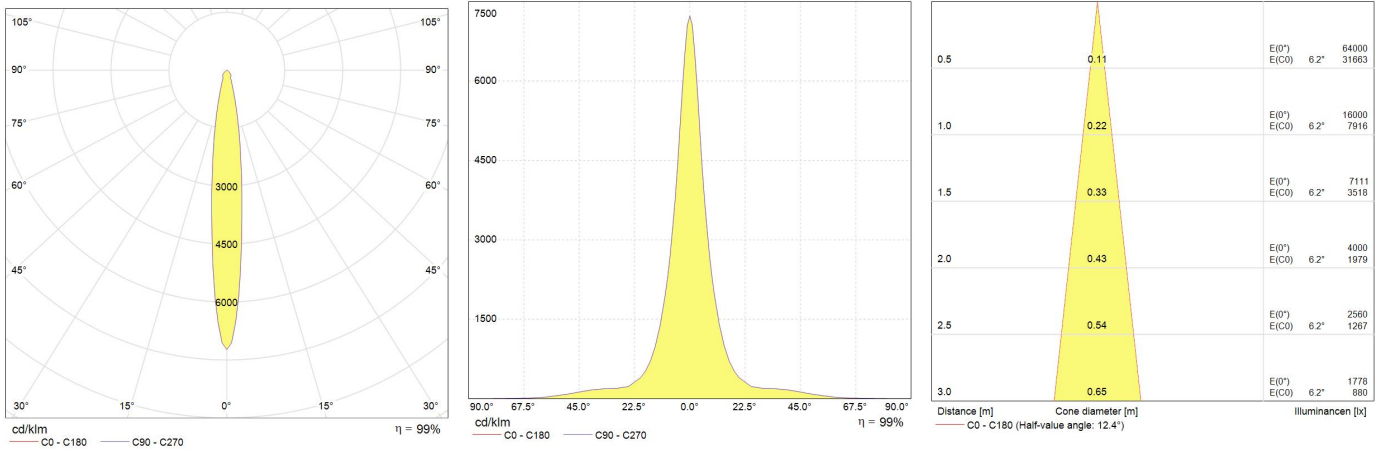
## Electrical data

Rated power [W]	38.4
Lamp Current [A]	0.4
Design Ambient Temperature [°C]	25
Run-up time (sec)	90
Hot restart time (sec)	390
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	39
Nominal lamp voltage [V]	90

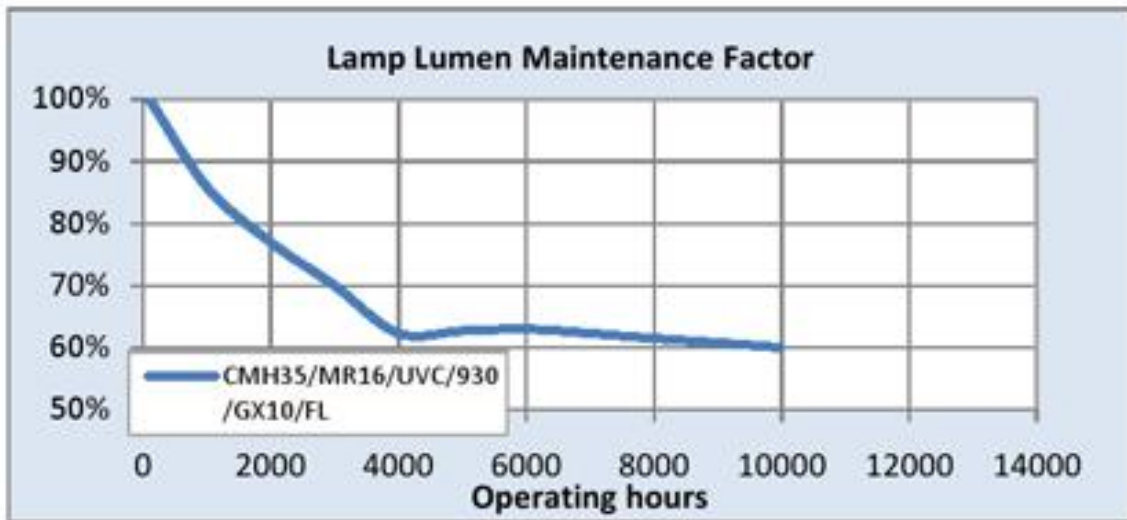
### Logistic data

DUN Code	15994100017506
EAN Code	5994100017509
Pack Quantity	12
Inner pack type	BOX
Outer pack type	OUTER 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

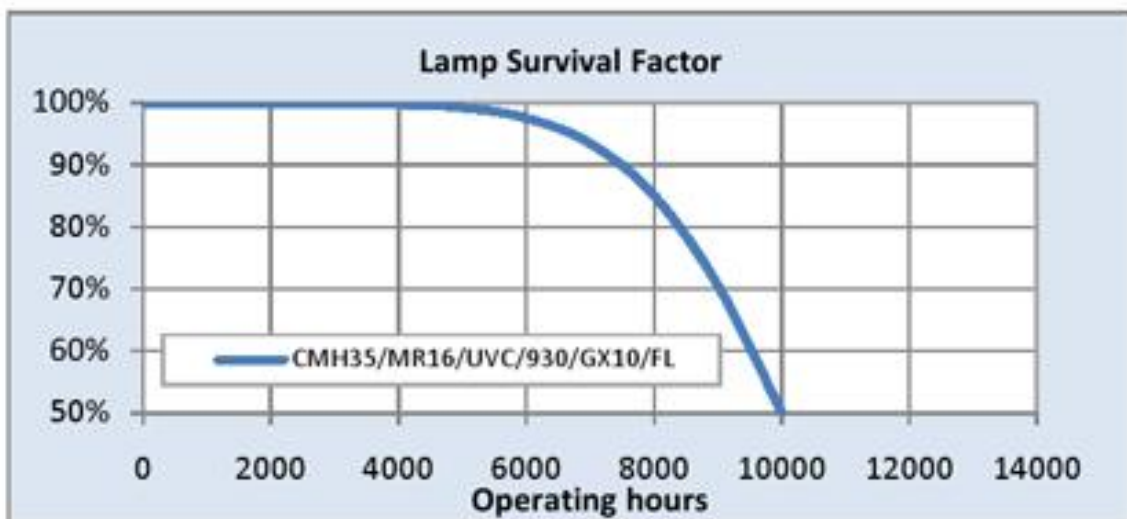
### Light distribution



## Lumen maintenance data



## Survival data



## Downloads & Links

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

[Photometry \(IES\)](#)

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

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



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