

82
kWh/1000h

A
energy class

67
lumens/watt

ConstantColor™ CMH PAR 30

CMH70/PAR30/UVC/830/E27/SP15
21683

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.

Application areas



Road and tunnel



Street and
pedestrian



Commercial
areas

Product data

Light Center Length [mm]	33
Product Code	21683
Bulb Shape	PAR
Bulb Finish	Clear
Bulb Diameter [mm]	95.5
Maximum Overall Length [mm]	124
Net weight per piece [g]	102
Gross weight per piece [g]	262
Operating position	U - Universal
Mercury Content [mg]	8
UV radiance	Exempt
Brand	GE Lighting
Cap/Base	E27

Performance data

Nominal/ Rated Beam Angle [°]	15
Nominal/ Rated Beam Angle (°)	13.2
Colour Code	830
Nominal center beam candlepower (CBCP) [cd]	43000
Rated peak intensity in [Cd]	42999
Rated Lumens [lm]	4614
Weighted energy consumption [kWh/1000h]	81.79
Useful lumens (at 90° cone) [lm]	4614
Nominal efficacy [LpW]	67
Rated efficacy [LpW]	62.1
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

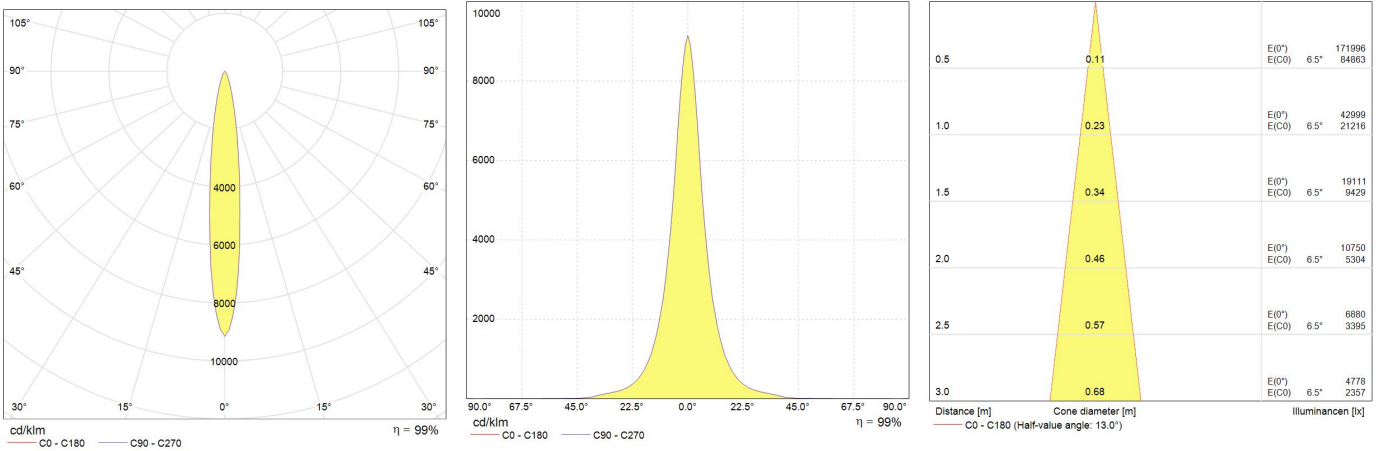
Electrical data

Rated power [W]	74.4
Lamp Current [A]	1
Design Ambient Temperature [°C]	25
Run-up time (sec)	180
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	70.0
Nominal lamp voltage [V]	90

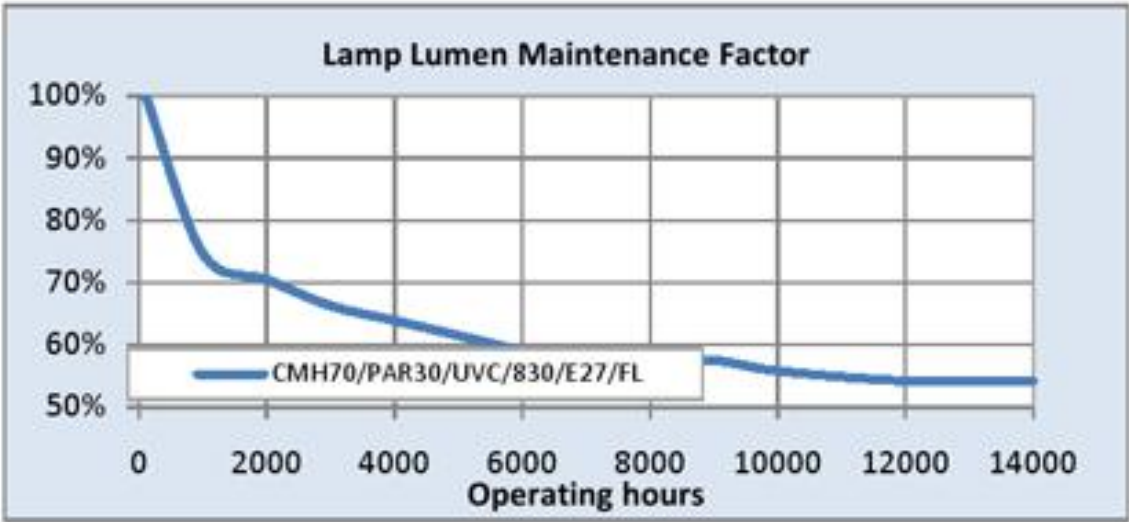
Logistic data

DUN Code	10043168216835
EAN Code	0043168216838
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

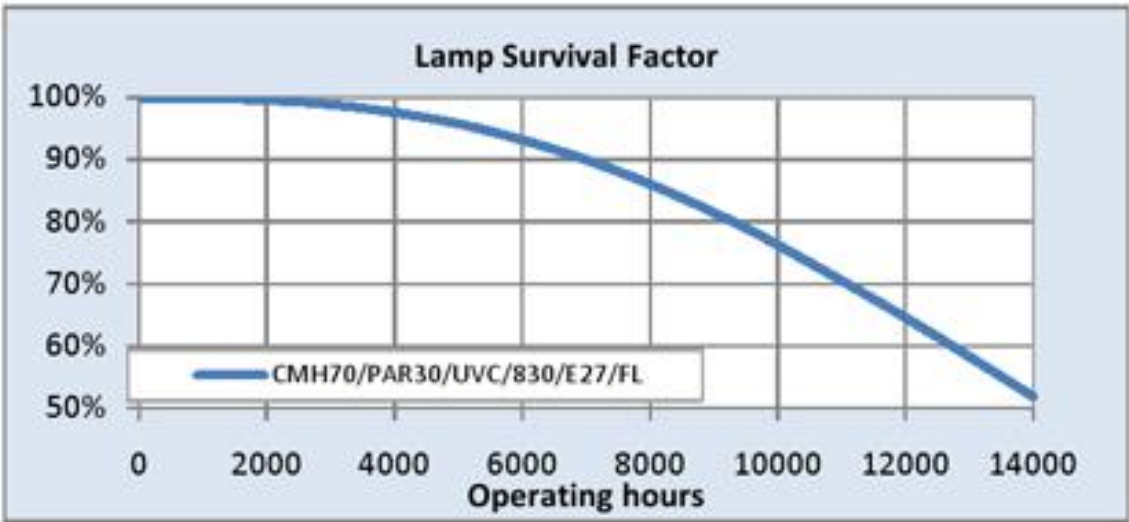
Photometric Data



Lumen maintenance data



Survival data



Downloads & Links

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

[Photometry \(IES\)](#)

[HID Lamps Spectrum Catalogue \(EN\) \(PDF\)](#)

[ConstantColor™ CMH Ultra Brochure \(PDF\)](#)

[ConstantColor™ White Light CMH Brochure \(PDF\)](#)

[CMH PAR20 and PAR30 Data sheet \(PDF\)](#)

[CMH Product Safety Data Sheet \(PDF\)](#)

[Lighting design tools & calculators \(HTTP\)](#)

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[Lighting design tools & calculators \(HTTP\)](#)

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

[Certificate for the Quality Management System of GE Lighting EMEA \(PDF\)](#)

[Certificate for the Environmental Management System of GE Lighting EMEA \(PDF\)](#)