

43
kWh/1000h

A
energy class

56
lumens/watt

ConstantColor™ CMH PAR 20

CMH35PAR20/UVC/942/E27/SP10
44890

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

Product Code	44890
Bulb Shape	PAR
Bulb Finish	Clear
Bulb Diameter [mm]	64
Maximum Overall Length [mm]	92
Net weight per piece [g]	99
Gross weight per piece [g]	190
Operating position	U - Universal
Mercury Content [mg]	4.5
UV radiance	Exempt
Brand	GE Lighting
Cap/Base	E27

Performance data

Nominal/ Rated Beam Angle [°]	10
Nominal/ Rated Beam Angle (°)	10.6
Colour Code	942
Nominal center beam candlepower (CBCP) [cd]	19450
Rated peak intensity in [Cd]	20344
Rated Lumens [lm]	2188
Weighted energy consumption [kWh/1000h]	42.36
Useful lumens (at 90° cone) [lm]	2188
Nominal efficacy [LpW]	56
Rated efficacy [LpW]	56.8
Energy efficiency class (EEC)	A
Rated average life [h]	10000
Nominal chromaticity coordinate X	0.37
Nominal chromaticity coordinate Y	0.363
Nominal correlated colour temperature (CCT) [K]	4200
Nominal lumens [lm]	1950
Colour Rendering Index (CRI) [Ra]	90

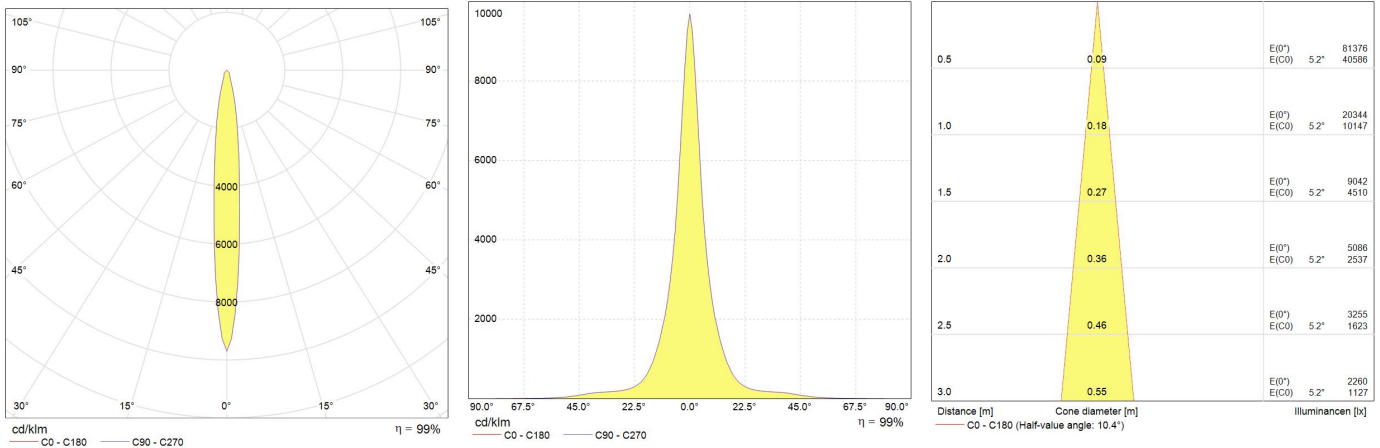
Electrical data

Rated power [W]	38.5
Lamp Current [A]	0.5
Design Ambient Temperature [°C]	25
Run-up time (sec)	180
Dimming Capability	Yes
Ballast Required	Yes
Nominal power [W]	35.0
Nominal lamp voltage [V]	92

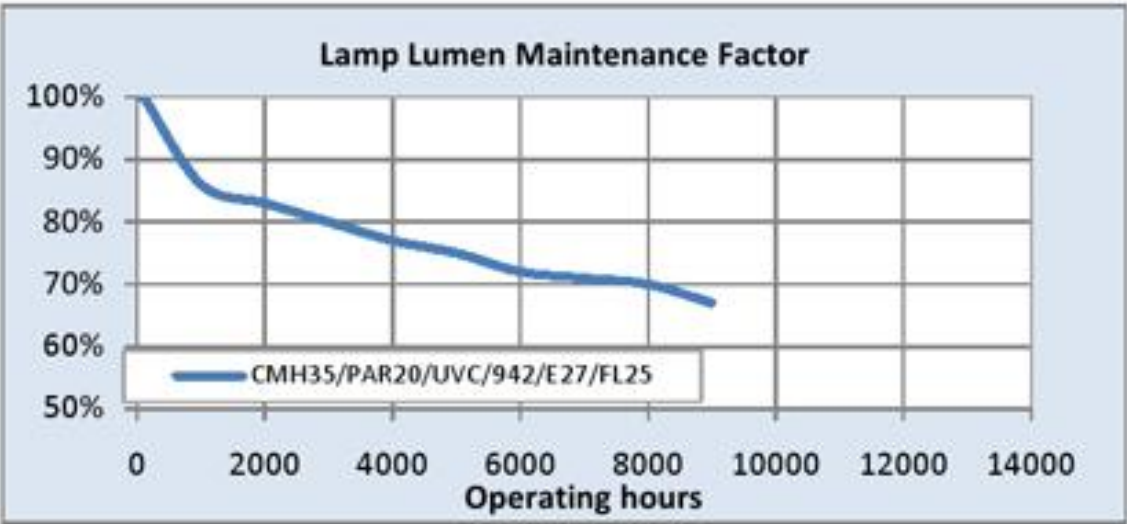
Logistic data

DUN Code	10043168448908
EAN Code	0043168448901
Pack Quantity	15
Inner pack type	BOX
Outer pack type	OUTER BOX
Layer quantity	135 EUR, 150 UK
Layer quantity EUR	135
Layer quantity UK	150
Pallet quantity EUR (PC)	810
Pallet quantity UK (PC)	900
Outer case size	253 x 383 x 161 (mm)
Product status	Available

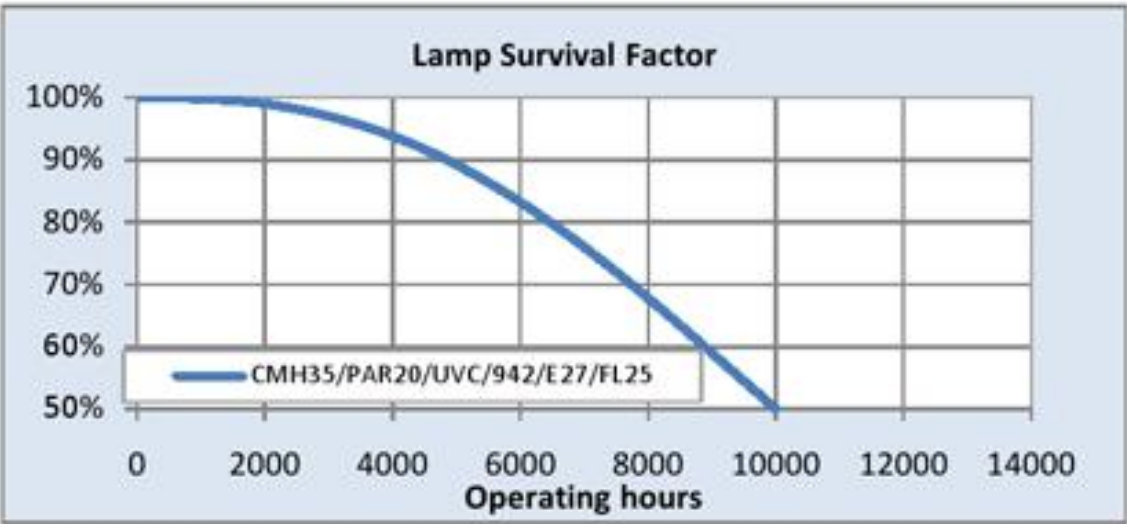
Photometric Data



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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[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 \(PDF\)](#)