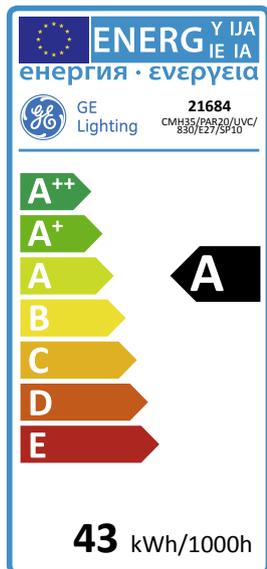




GE  
Lighting



43  
kWh/1000h

A  
energy class

60  
lumens/watt

## ConstantColor™ CMH PAR 20

CMH35/PAR20/UVC/830/E27/SP10

# 21684

### 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

 Commercial areas  Street and pedestrian

 Road and tunnel

## Product data

Cap/Base	E27
Bulb Shape	PAR
Bulb Finish	Clear
Bulb Diameter [mm]	64
Maximum Overall Length [mm]	92
Net weight per piece [g]	102
Gross weight per piece [g]	149
Operating position	U - Universal
Mercury Content [mg]	4.6
UV radiance	Exempt
Brand	General Electric (GE)

## Performance data

Colour Code	830
Colour Rendering Index (CRI) [Ra]	84
Nominal correlated colour temperature (CCT) [K]	3000
Nominal beam angle [°]	10
Rated beam angle [°]	10.6
Nominal center beam candlepower (CBCP) [cd]	22000
Rated peak intensity in [Cd]	21945
Nominal lumens [lm]	2100
Rated Lumens [lm]	2215
Nominal useful lumens [lm]	2215
Rated useful lumens [lm]	2215
Nominal efficacy [LpW]	60
Rated efficacy [LpW]	57.1
Energy efficiency class (EEC)	A
Rated average life [h]	10000
Nominal chromaticity coordinate X	0.435
Nominal chromaticity coordinate Y	0.401
Weighted energy consumption [kWh/1000h]	42.68

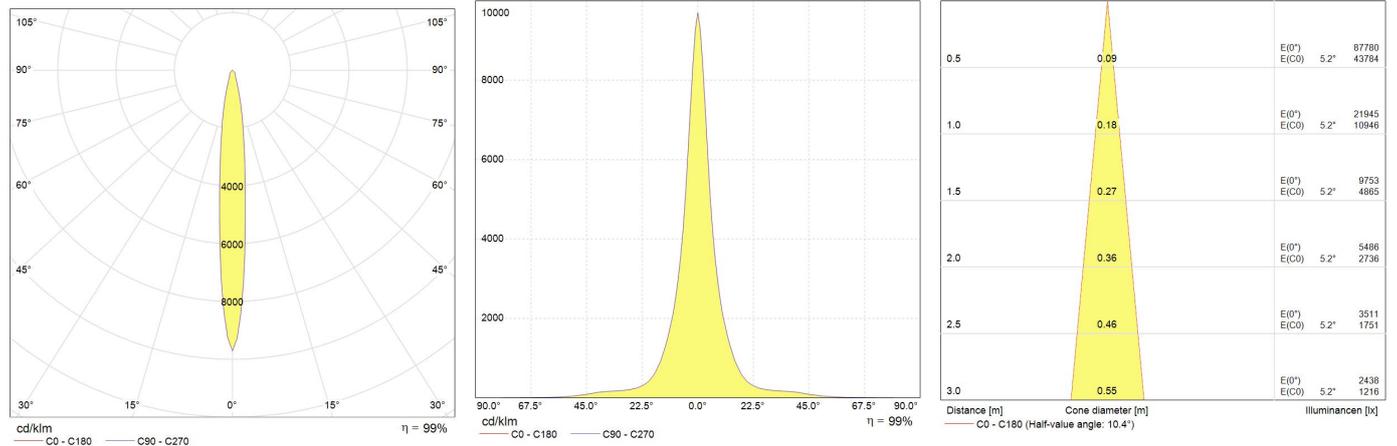
## Electrical data

Nominal power [W]	35
Rated power [W]	38.8
Nominal lamp voltage [V]	90
Lamp Current [A]	0.5
Design Ambient Temperature [°C]	25
Run-up time (sec)	180
Dimming Capability	No
Ballast Required	Yes

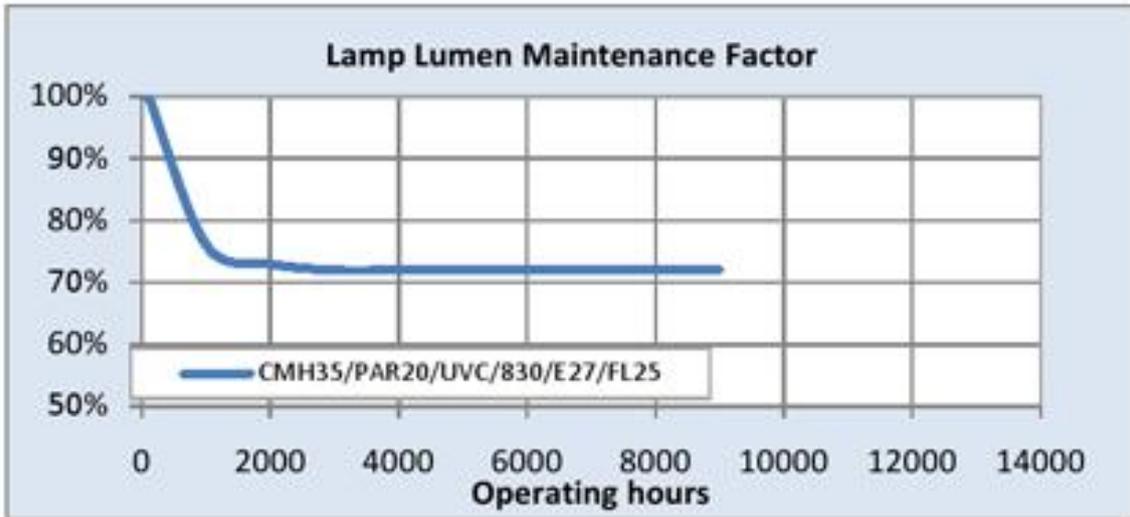
### Logistic data

DUN Code	10043168216842
EAN Code	0043168216845
Pack Quantity	15
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

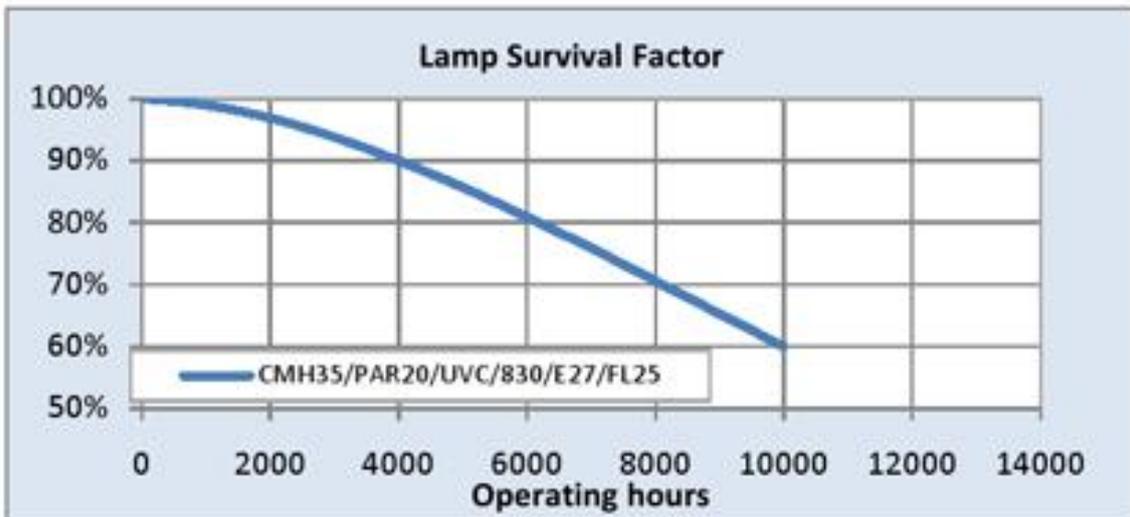
### Photometric Data



### 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 \(HTTP\)](#)

[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 \(PDF\)](#)