



High Intensity
Discharge Lamps



High Intensity Discharge Lamps

Exceptional light quality, indoors and outdoors

Our advanced HID ranges encompass ConstantColor™ Ceramic Metal Halide (CMH), Quartz Metal Halide (QMH) and Lucalox™ High Pressure Sodium (HPS) technologies, enabling us to offer the right solution across a wide range of applications.

These ultra-efficient lighting solutions combine high efficacy with a long life to deliver the optimum lighting solution for a range of commercial and industrial applications.

ConstantColor™ CMH

Light quality

Colour is a vital part of lighting in so many ways. Retail displays need to be lit to show products' colours. Security cameras need to be able to identify colours accurately. And in modern cities that never sleep, buildings, sculptures and parks look their best when lighting brings out their true colours. ConstantColor™ CMH Lamps deliver the quality of light that these situations demand.

Reliability

It is also important that this high performance is maintained, and GE's ConstantColor™ technology delivers the best possible lumen maintenance to ensure that merchandise, streets and statues are lit better for longer and with no deterioration of light quality as lamps approach the end of their life.

Low cost of ownership

The excellent lumen maintenance of ConstantColor™ CMH Lamps means extended replacement cycles and, therefore, savings on maintenance cost. An extension of at least one year can be assumed when calculating relamping cycles.

- High efficacy – more lumens per Watt
- Long rated life: up to 24 000 hours
- High lumen maintenance

Why CMH?

- Highly controllable point source
- Superb colour rendition and stability
- Reliability, efficiency and longevity
- Superb lumen maintenance
- Instant replacement of less eco friendly products



Wide choice

GE's ConstantColor™ CMH range is second to none in the variety that is on offer for both indoor and outdoor applications. Indoors, these include retail display lighting and industrial high bay lighting, and outdoors, street lighting and city beautification. The range includes lamps for all the common formats - GU6.5, G8.5, G12, E27/E40 and Rx7s, as well as AR111, MR16 and PAR reflectors. Lighting designers can choose from 3000K and 4200K colours and their needs are also catered for by the flexibility of ballasts that can be used. GE works closely with customers and offers a list of top ballast manufacturers. GE ConstantColor™ CMH Lamps provide high quality light with low cost of ownership for every type of application, but there are also products specially developed for particular uses.

GE ConstantColor™ CMH Standard

CMH Standard is the widest product range, one that offers great performance and value for replacement applications.

GE ConstantColor™ CMH Precise™

Developed for the retail environment, CMH Precise™ is GE's premium CMH range, with enhanced colour and improved lumen maintenance.

GE ConstantColor™ CMH StreetWise™

CMH StreetWise™ combines dimmable white light with high efficiency for street lighting. Long life and high lumen maintenance ensure maintenance is minimised.



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CMH Indoors

GE ConstantColor™ CMH Standard Lamps combine great performance and best-in-class rated life to offer an attractive, value for money solution for replacement applications. Energy efficiency and longer relamping cycles ensure a low total cost of ownership.

- Complete range of retail lamps for wide range of applications
- Energy efficient replacement solution on existing installations
- Reduced energy bills and extended maintenance cycles
- Reduced cost of ownership through longer life
- Enables planned lighting maintenance for fixed interval replacement, optimised labour costs and reduced lamp failures

Why Precise™?

- Greatly improved lumen output (4000lm – 35W and 7800lm – 70W)
- Excellent lumen maintenance (70W 80% @ 12 000 h)
- Outstanding useful life (B10: 12 000 h)
- Superb light quality and colour rendering of CRI 90+
- Improved rendering of deep red colours (R9)
- Improved lamp-to-lamp colour control
- Universal burning position
- Robust and reliable performance initially and through life



LONGER LIFE
AND MORE LUMENS
OVER USEFUL LIFE



EXCELLENT LUMEN
MAINTENANCE – 30% MORE
LUMENS AT 15 000 HOURS LIFE
THAN STANDARD LAMPS



COST EFFECTIVE DIRECT
RETROFIT FOR EXISTING
RETAIL INSTALLATIONS

Our ConstantColor™ CMH Precise™ range is an innovative lighting solution designed to ensure the best possible results in the retail environment with significantly improved lumen maintenance and enhanced quality of light. The range allows retailers to choose the best option for their visual requirements.

- Cost effective direct retrofit for existing retail installations
- Longer life and more lumens over useful life
- Outstanding lumen output – up to 110 LPW
- Excellent lumen maintenance – 30% more lumens at 15 000 hours life than standard lamps
- Compatible with existing GE electronic ballasts and other major GE-validated manufacturers

CMH Outdoors

Lighting accounts for more than 20% of energy consumption around the world. Reduce consumption per luminaire, and everybody benefits.

Our energy efficient ConstantColor™ CMH StreetWise™ range has the potential to significantly reduce global energy consumption, while at the same time improving road safety.

An outstanding combination of bright white light and energy efficiency makes these lamps the ideal solution for street and roadway lighting. This outstanding quality of light – much closer to natural daylight – promotes safer driving through easier recognition of shapes and colour, makes pedestrians feel more comfortable and secure, and enhances the urban environment.



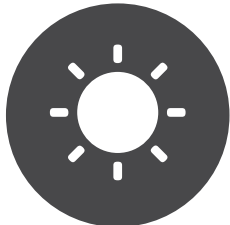
GE's new generation of CMH StreetWise™ Lamps especially designed for outdoor lighting offers the best of both worlds. Bright, white, 'natural' light and low costs for both running and maintenance.

With CMH lighting, streets and other public spaces can feel safer for pedestrians. More than that, their "daylight" colour rendering improves the ability of drivers to recognise shapes and colours, especially in peripheral vision. This also promotes quicker driver response times.

StreetWise™



HIGH EFFICIENCY
AND LONG LIFE
UP TO 24 000 HOURS



VIVID COLOUR,
BRIGHTER LIGHT



DIMMABLE FOR EXTRA
ENERGY SAVING

Other products in our Outdoor ranges include GE Lucalox™ High Pressure Sodium Lamps and a choice of Quartz Metal Halide Lamps from 70 – 2000 W and rated life up to 60 000 hours.

- High efficiency and long life – up to 24 000 hours
- Dimmable for extra energy saving
- Uniform lighting for roadways
- Vivid colour, brighter light
- Lower running cost, lower CO₂ emissions
- Improved safety and security for pedestrians and vehicles
- Ideal for integrated systems with dimming, remote monitoring and remote control



John Lewis ^{UK}
GE SOLUTIONS:
ConstantColor™ CMH



Erzsébet Bridge ^{Budapest}
GE SOLUTIONS:
CMH 250W

High Intensity Discharge Lamps

Product overview



Single Ended Supermini Precise™, Ultra and Standard (GU6.5)

Cap: GU6.5
Wattages: 20 – 35W
Colours: 830, 930, 942
Rated life: 10 000 – 18 000 h



Single Ended Mini Precise™, Ultra, Ultra White and Standard (TC)

Cap: G8.5
Wattages: 20 – 70W
Colours: 830, 930, 942
Rated life: 12 000 – 18 000 h



Single Ended Precise™, Ultra, Ultra White and Standard (T)

Cap: G12
Wattages: 20 – 150W
Colours: 830, 930, 942
Rated life: 12 000 – 18 000 h



Open Rated Elliptical

Cap: E27
Wattages: 70 – 150W
Colours: 942, 940
Finish: Clear or Diffuse
Rated life: 15 000 h



Elliptical

Cap: E27, E40
Wattages: 70 – 400W
Colours: 830
Finish: Clear or Diffuse
Rated life: 10 000 – 24 000 h



StreetWise™

StreetWise™

Cap: E27, E40
Wattages: 50 – 150W
Colours: 730
Finish: Clear
Rated life: 24 000 h



Double Ended (TD)

Cap: RX7s or RX7s-24
Wattages: 35 – 150W
Colours: 830, 942
Rated life: 15 000 h



Tubular

Cap: E27, E40
Wattages: 70 – 400W
Colours: 830, 842, 942
Finish: Clear
Rated life: 10 000 – 24 000 h



Open Rated Tubular

Cap: E40
Wattages: 150W
Colours: 830, 942
Finish: Clear
Rated life: 12 000 h

ConstantColor™ CMH (Ceramic Metal Halide) GU6.5, TC, T, TD

ConstantColor™ CMH (Ceramic Metal Halide) Elliptical and Tubular



MR16 Precise™, and Standard

Cap: GX10
Wattages: 20 – 35W
Colours: 830, 930, 942
Rated life: 10 000 – 18 000 h
Beam spread: 12 – 40°



AR111

Cap: GX8.5
Wattages: 35 – 70W
Colours: 930
Rated life: 12 000 h
Beam spread: 10 – 40°



PAR20

Cap: E27
Wattages: 20 – 35W
Colours: 830, 942
Rated life: 10 000 – 12 000 h
Beam spread: 10 – 25°



PAR30

Cap: E27
Wattages: 20 – 70W
Colours: 830, 942
Rated life: 10 000 – 13 000 h
Beam spread: 10 – 40°



CMH Standard Ballasts

A range of standard ballasts for 35 – 70W CMH lamps



CMH Miniature Ballasts

A range of miniature ballasts for 20 – 35W CMH lamps

ConstantColor™ CMH (Ceramic Metal Halide) Reflectors

CMH Ballasts





High Intensity Discharge Lamps

Product overview



Single Ended

Cap: G12
Wattages: 70 — 150W
Colours: 3000 — 4200K
CRI: 70 — 80
Rated life: 6 000 h



Double Ended

Cap: Rx7s-Fc2
Wattages: 70 — 250W
Colours: 3000 — 6500K
CRI: 75 — 90
Rated life: 8 000 — 12 000 h



Double Ended Coloured

Cap: RX7s-24
Wattages: 150W
Colours: Green, Blue, Magenta
Rated life: 6 000 h



Tubular

Cap: E40
Wattages: 250 — 400W
Colours: 4200 — 6000K
CRI: 70 — 90+
Finish: Clear
Rated life: 12 000 h



Elliptical

Cap: E40
Wattages: 250W
Colours: 4000 — 6000K
CRI: 70 — 90
Finish: Clear or Diffuse
Rated life: 12 000 — 14 000 h

Arcstream Metal Halide Operates on suitable metal halide/high pressure sodium ballast and metal halide ignitor



Standard - Elliptical

Cap: E40
Wattages: 250 — 1000W
Colours: 3700 — 4200K
CRI: 65 — 70
Finish: Clear or Diffuse
Rated life: 10 000 — 20 000 h



High Output - Elliptical

Cap: E40
Wattages: 250 — 400W
Colours: 3200 — 4200K
CRI: 65 — 70
Finish: Clear or Diffuse
Rated life: 20 000 h

Multi-Vapour Metal Halide Operates from CWA Control Gear



Tubular

Cap: E40
Wattages: 400W
Colours: 6000K
CRI: 90
Finish: Clear
Rated life: 14 000 h



Elliptical

Cap: E40
Wattages: 400W
Colours: 4000 — 6000K
CRI: 65 — 90
Finish: Clear or Diffuse
Rated life: 14 000 h

Kolorarc™ Metal Halide Operates from suitable mercury or metal halide ballast rated 3.5A and metal halide ignitor



Lucalox™ XO Superlife

Cap: E27, E40
Wattages: 70 — 400W
Feature: Extra high lumen output and Twin Arctubes for extra life
Finish: Tubular Clear or Elliptical Diffuse
Rated life: 50 000 — 60 000 h



Lucalox™ XO

Cap: E27, E40
Wattages: 50 — 600W
Feature: Extra high lumen output
Finish: Tubular Clear or Elliptical Diffuse
Rated life: 32 000 — 45 000 h



Lucalox Superlife

Cap: E27, E40
Wattages: 50 — 250W
Feature: Twin Arctubes for extra life
Finish: Elliptical Diffuse
Rated life: 40 000 — 60 000 h



Lucalox™ Standard

Cap: E27, E40
Wattages: 70 — 1000W
Finish: Tubular Clear or Elliptical Diffuse
Rated life: 24 000 — 28 500 h



Lucalox™ Internal Ignitor

Cap: E27
Wattages: 50 — 70W
Feature: Internal ignitor
Finish: Elliptical Clear or Diffuse
Rated life: 12 000 — 17 500 h

Lucalox™ High Pressure Sodium



Linear

Cap: RX7SM - spec
Wattages: 1500 — 2000W
Colours: 5200K
CRI: 65
Rated life: 6 000 h



Tubular Clear

Cap: E40
Wattages: 1000 — 2000W
Colours: 4000 — 6000K
CRI: 65 — 93
Rated life: 2 000 — 8 000 h



Internal Ignitor

Cap: E40
Wattages: 2000W
Colours: 4000 — 6000K
CRI: 65 — 93
Rated life: 2 000 — 5 000 h

Sportlight™ Metal Halide For sports and floodlighting



Kolorlux™ Mercury Standard*

Cap: E27, E40
Wattages: 50 — 400W
Rated life: 16 000 — 20 000 h

* only direct shipment



Mixed Light*

Cap: E27, E40
Wattages: 160 — 500W
Voltage: 230 — 240V
Rated life: 8 000 h

* only direct shipment

Mercury Lamps

High Intensity Discharge Lamps

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
Arcstream™ Single Ended ⚠️ RG-2																
1	150	95	G12	ARC150/G12/830*	88654	12 000	3000	80	U	6 000	6 000	76	21.5	165	A	10
1	150	95	G12	ARC150/G12/842	88655	11 500	4200	80	U	6 000	6 000	76	21.5	165	A	10

* Will be phased out
WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product.

Arcstream™ Single Ended UVC ⚠️

2	70	95	G12	ARC70/T/U/730/G12*	97286	5 200	3000	70	U	6 000	6 000	87	23	77	A	10
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* Will be phased out

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
Arcstream™ Double Ended UVC 															
3	70	95	RX7s	ARC70/UVC/TD/730/Rx7s	34530	5 500	3000	75	HOR±45°	12 000	114	19	82.5	A	12
3	70	95	RX7s	ARC70/UVC/TD/742/Rx7s	34536	5 500	4200	75	HOR±45°	12 000	114	22	82.5	A	12
3	150	95	RX7s-24	ARC150/UVC/TD/732/Rx7s-24	34527	12 000	3200	75	HOR±45°	12 000	132	22	165	A	12
3	150	95	RX7s-24	ARC150/UVC/TD/742/Rx7s-24	34535	12 000	4200	75	HOR±45°	12 000	132	25	165	A	12

Arcstream™ Double Ended ⚠️ RG-3

3	150	95	RX7s-24	ARC150/AQUA/TD/865/Rx7s-24	35284	11 000	6500	85	HOR±45°	8 000	132	25	165	A	12
4	150	110	RX7s-24	ARC150/TD/952/Rx7s-24	93772	11 000	5200	90	HOR±45°	8 000	132	25	165	A	12
4	250	114	Fc2	ARC250/TD/832/Fc2	30099	20 000	3200	75	HOR±45°	12 000	163	25	275	A	12
4	250	115	Fc2	ARC250/TD/842/Fc2	30101	20 000	4200	75	HOR±45°	8 000	163	25	275	A	12

WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product.

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Colour	Operating position	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
Arcstream™ Double Ended Coloured UVC ⚠️													
5	150	95	RX7S-24	ARC150/UVC/TD/GREEN/RX7S-24	12181	Green	HOR±45°	6 000	132	25	165	B	12
5	150	95	RX7S-24	ARC150/UVC/TD/BLUE/RX7S-24	12182	Blue	HOR±45°	6 000	132	25	165	C	12
5	150	95	RX7S-24	ARC150/UVC/TD/MAGENTA/RX7S-24	12184	Magenta	HOR±45°	6 000	132	25	165	B	12



High Intensity Discharge Lamps

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
Arcstream™ Tubular Clear																
250	100	E40	ARC250/T/H/960/E40	32664	19 000	6000	90	HOR±45°	—	12 000	220	47	299.6	A	12	6
250	100	E40	ARC250/T/VBU/960/E40	32665	19 000	6000	90	BU±45°	12 000	—	220	47	295.7	A	12	6
250	112	E40	ARC250/T/H/742/E40	42357	21 000	4200	70	HOR±15°	—	12 000	220	48	294.9	A	12	6
400	105	E40	ARC400/T/H/742/E40	42369	35 000	4200	70	HOR±15°	—	12 000	260	47	444.2	A	12	6

The lamp shall be operated only in a luminaire provided with a protective shield.

Arcstream™ Elliptical Diffuse

250	100	E40	ARC250/D/H/740/E40	16870	19 500	4000	70	HOR±15°	—	14 000	227	90	294.2	A	10	7
250	100	E40	ARC250/D/H/960/E40	30047	17 000	6000	90	HOR±45°	—	12 000	227	91	295	B	12	7
250	100	E40	ARC250/D/VBU/960/E40	32666	17 000	6000	90	VBU±45°	12 000	—	227	90	294.8	A	12	7

Operating from suitable metal halide / high pressure sodium (HPS) ballast and metal halide ignitor. Arcstream™ lamps are only suitable for operation in fully enclosed fixtures where lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C).

Multi-Vapor™ Elliptical Clear

175**	132	E40	MVR175/U/40*	85973	13 600	4000	55	U	10 000	10 000	211	90	192.5	A	—	8
250**	133	E40	MVR250/U/40*	85952	20 800	4200	65	U	10 000	10 000	211	90	274.9	A	12	8
400**	135	E40	MVR400/U/40*	85944	40 000	4000	65	U	20 000	20 000	292	117	440	A+	6	8
1000**	V250 H245	E40	MVR1000/U/40	85924	108 000	4000	65	U	15 000	15 000	390	178	1188	A+	6	8

* Not CE compliant product
** Performance data claimed for vertical position

Multi-Vapor™ Elliptical Diffuse

175**	132	E40	MVR175/C/U/40*	85974	12 900	3900	55	U	10 000	10 000	211	90	192.5	A	—	9
250**	133	E40	MVR250/C/U/40*	85953	20 000	3900	70	U	10 000	10 000	211	90	275	A	12	9
400**	135	E40	MVR400/C/U/40	85951	40 000	3700	70	U	20 000	20 000	292	117	440	A+	6	9

* Not CE compliant product
** Performance data claimed for vertical position

Multi-Vapor™ High Output Elliptical Clear

250	133	E40	MVR250/VBU/40	86004	22 000	4200	65	VBU±15°	10 000	—	216	89	275	A	12	10
400	135	E40	MVR400/VBU/40	86000	41 000	4000	65	VBU±15°	20 000	—	295	117	440	A+	6	10

