

CLUSTERLITE Series



MEGAMAN® installation: Gatwick North Terminal

Product Information

- 15,000 hours lamp lifetime.
- 40w - 320w available.
- 75% maintenance of lumen output throughout operating life.
- Up to 67% energy-savings.
- High colour rendering index up to Ra 82.
- Instant restrike capability.
- Excellent colour uniformity with minimal colour shift of only +/- 100k.
- Suitable for both enclosed and open luminaires.

APPLICATIONS

Street lighting, warehouses, floodlighting, retail sheds and car parks.



GREEN PRODUCT OF THE YEAR

Integral Ballast



HC01040i

*Saving (£/Year) **£12.78**
Reduced CO₂ (kg/Year) **55**

Order Code	Lamp Base	Diameter (mm)	Length (mm)	Weight (g)
821040(ww)	E27	63	166	257
807143(cw)	E27	63	166	257

40 watt

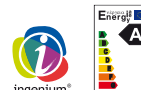
15,000 hours

Standard Pack
12 (1)

2680 lm

WARM or COOL WHITE
Colour Temp

Integral version (electronic ballast in base)



HC01060i

*Saving (£/Year) **£14.60**
Reduced CO₂ (kg/Year) **63**

Order Code	Lamp Base	Diameter (mm)	Length (mm)	Weight (g)
821060(ww)	E27	63	188	315
808140(cw)	E27	63	188	315

60 watt

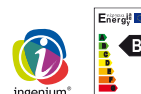
15,000 hours

Standard Pack
12 (1)

4000 lm

WARM or COOL WHITE
Colour Temp

Integral version (electronic ballast in base)



HC01080i

*Saving (£/Year) **£14.60**
Reduced CO₂ (kg/Year) **63**

Order Code	Lamp Base	Diameter (mm)	Length (mm)	Weight (g)
872378(ww)	E40	80	256	563
871691(cw)	E40	80	256	563

80 watt

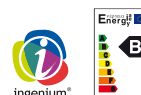
15,000 hours

Standard Pack
12 (1)

5400 lm

WARM or COOL WHITE
Colour Temp

Integral version (electronic ballast in base)



HC01100i

*Saving (£/Year) **£18.25**
Reduced CO₂ (kg/Year) **78**

Order Code	Lamp Base	Diameter (mm)	Length (mm)	Weight (g)
874611(ww)	E40	80	279	588
879981(cw)	E40	80	279	588

100 watt

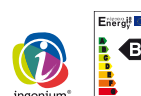
15,000 hours

Standard Pack
12 (1)

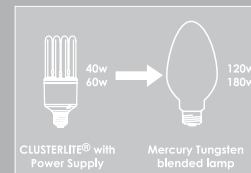
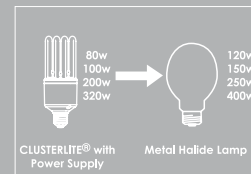
6700 lm

WARM or COOL WHITE
Colour Temp

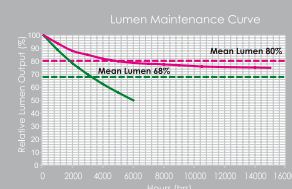
Integral version (electronic ballast in base)



Comparison of equivalent luminous flux



Lumen Maintenance Curve Comparison: CLUSTERLITE® Vs. Metal Halide Lamp

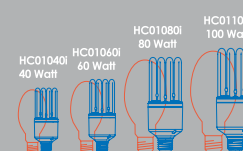


60W CLUSTERLITE® with integrated ballast

— Lumen
--- Mean Lumen Over Life

Size comparison

CLUSTERLITE® Vs. Metal Halide Lamp



Key: (WW) warm white 3000k
(CW) cool white 4000k

* For all savings calculations the MEGAMAN® CLUSTERLITE has been compared to Metal Halide lamps.

- 15,000 hrs lifetime
- 600,000 switching cycles
- shorter preheating time



CLUSTERLITE Series

External Power Supply



HC01200x

*Saving (£/Year) £18.25
Reduced CO₂ (kg/Year) 78

Order Code	Lamp Base	Diameter (mm)	Length (mm)	Weight (g)
821230 (ww)	E40	90	268	676
821200 (cw)	E40	90	268	676

200_w

15,000 hours



Standard Pack
6 (1)



14400 lm



WARM or
COOL WHITE
Colour Temp



HC01320x

*Saving (£/Year) £29.20
Reduced CO₂ (kg/Year) 126

Order Code	Lamp Base	Diameter (mm)	Length (mm)	Weight (g)
821330 (ww)	E40	110	288	1000
821320 (cw)	E40	110	288	1000
821340 (dl)	E40	110	288	1000

320_w

15,000 hours



Standard Pack
6 (1)



21850 lm



WARM WHITE,
COOL WHITE &
DAYLIGHT
Colour Temp



GHC01050i

*Saving (£/Year) £36.50
Reduced CO₂ (kg/Year) 157

Order Code	Lamp Base	Diameter (mm)	Length (mm)	Weight (g)
897979	E27	120	202	410

50_{watt}

15,000 hours



Standard Pack
12 (1)



2700 lm

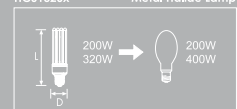


COOL WHITE
4000k
Colour Temp

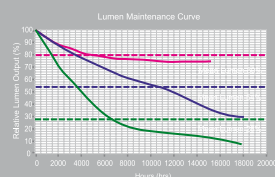


Comparison of equivalent luminous flux

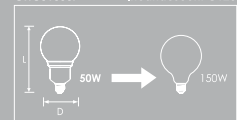
HC01200x
HC01320x



Lumen Maintenance Curve Comparison: CLUSTERLITE® Vs. Metal Halide Lamp



GHC01050i Incandescent G120



Key: (WW) warm white 3000k
(CW) cool white 4000k
(DL) day light 6000k



MEGAMAN® installation:
Gatwick North Terminal



lm = Lumen output



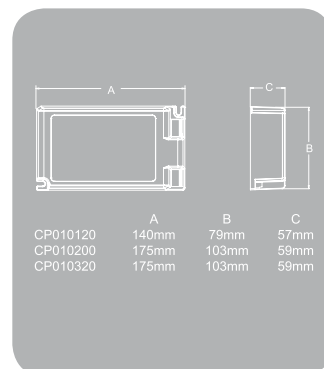
- 15,000 hrs lifetime
- 600,000 switching cycles
- shorter preheating time



CLUSTERLITE® POWER SUPPLY

Product Features

- Tailor-made for the MEGAMAN® CLUSTERLITE® series.
- Offers 50,000 hours service life.
- Wide voltage range from 180v to 260v.
- Flicker-free operation with stable light output over fluctuation of voltage supply.
- Automatic restart capability when short-circuit or overload is absent.
- Equipped with main harmonics reduced by an active harmonics filter.
- Meets international standards for electromagnetic interference, which prevents disturbance towards radio and medical equipment.
- Facilitates easier installation without need for starter and capacitor.



Order Code	Lamp Type
841120	HC01120x (120w)
841200	HC01200x (200w)
841320	HC01320x (320w)



Industry Standards	Europe
Safety	EN61347-2-3
Radio Interference	EN55015
Line Current Harmonics	EN61000-3-2
Performance	EN60969/ EN60929
Immunity	EN61547



* For CP010056
CP010080
CP010120

Model No.	CP010120	CP010200	CP010320
Mains Voltage (V)	220 ~ 240	220 ~ 240	220 ~ 240
Voltage Range (V)	180 ~ 260	180 ~ 260	180 ~ 260
Mains Frequency (Hz)	50/60	50/60	50/60
Nominal Wattage Output (W)	120	200	320
System Wattage Output (W)	142	220	350
Max. Working Voltage (U-out) [V]	300	400	300
Output Frequency (kHz)	40 ~ 42	40 ~ 42	40 ~ 42
Current Rated (mA)	650	1020	1560
Power Factor (λ)	0.98	0.98	0.98
Ta (°C)	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Tc (°C)	85	85	85
IP Protection	20	20	20
Push-in Terminals	1.0mm ² ~ 1.5mm ²	1.0mm ² ~ 2.0mm ²	1.0mm ² ~ 2.0mm ²
Energy Efficiency Index	A2	A2	A2
Protection Class	II	II	II
Life Hour with Max. Failure of 50% (at Ta Max.)(hrs)	50,000	50,000	50,000
Extension Wire (m)	18AWGX2C	18AWGX2C	18AWGX2C
Fixing Bracket for Screws	M4	M4	M4
Weight (g)	530	720	720
Dimensions (L x W x H) (mm)	140 x 79 x 57	175 x 103 x 59	175 x 103 x 59
Housing Material	Polycarbonate	Polycarbonate	Polycarbonate



The change from the existing HID lamps to MEGAMAN®'s 200W CLUSTERLITE's at Gatwick Airport's North Terminal, has helped to significantly reduce energy consumption and maintenance costs. Gatwick is the busiest single-runway airport in the world, the second largest airport in the UK and the tenth busiest international airport in the world. Its development strategy for the future focuses on the airport's expansion as a single-runway, two-terminal airport, as it aims to handle around 40 million passengers a year by 2010/2011.

With over 70,000 light fittings installed in the North Terminal, Megaman worked closely with BAA's energy consultant Adrian Laycock to carry out a thorough energy survey of lighting throughout the building. Following the results, Megaman suggested using CLUSTERLITE, an innovative, high wattage lighting solution which provides a real alternative to HID lamps. Offering up to 33% savings in energy consumption, the CLUSTERLITE combines all the virtues of compact fluorescent technology with excellent lumen maintenance after 15,000 hours of operation, superb colour rendering and uniformity plus outstanding lumen output.

Phase I of the project at Gatwick involved replacing over 500 of the original lamps within the International departure lounges. Further replacements are due to take place in Phase II, which will include more sections of the North Terminal, South Terminal plus Heathrow and Southampton airports.



GREEN PRODUCT OF THE YEAR