The Helia Street Lamp

Making it cost and carbon effective to Light Your Streets

MAIN BENEFITS

- **ENERGY SAVINGS**
  Significantly reduce carbon emissions and energy consumption.
- **OPTIMUM LIGHTING CONDITIONS**
  Cooling fins are downward facing to prevent the build up of debris.
- **REDUCED MAINTENANCE**
  Advanced temperature control technology significantly extends the life of the unit, reducing replacement and maintenance.
- **ENVIRONMENTALLY FRIENDLY**
  As well as a huge reduction in carbon emissions, this lamp contains no lead or mercury and is 99% recyclable.
- **FAST RETURN ON INVESTMENT**
  Return on investment via energy savings is generally estimated at 4 to 6 years. Each installation is protected by a five year warranty.

This revolution in street lamp design offers a fresh new look to our streets and neighbourhoods. The **Helia Street Lamp** is designed and manufactured by Carbon Reduction Technology and generates 107 Lumens per Watt.

The Helia lamp has been designed to utilise the latest Cree XML2 LEDs and state of the art optics. This creative combination ensures that the streets are efficiently lit to the correct EU Standard. Our Aluminium luminaire heat sink ensures long life for the LED and enables energy efficient lighting. High efficacy performance has been tested and confirmed by Independent, UKAS registered, test laboratories. Helia offers excellent build quality rarely seen in an LED street lamp at cost effective pricing.

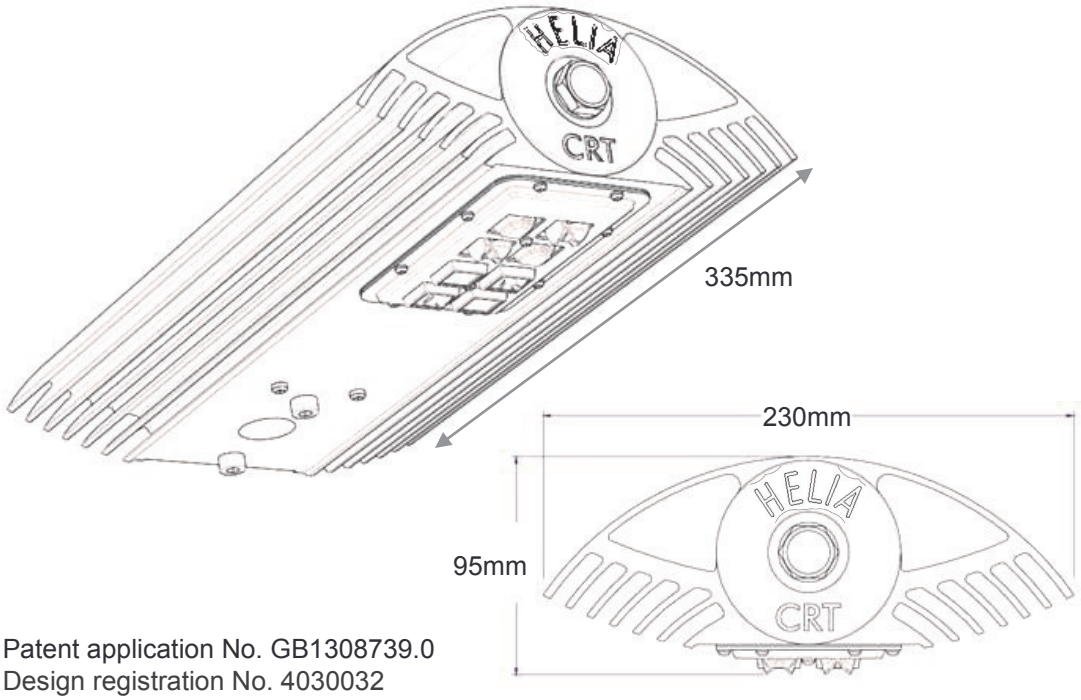
- LM80 results suggest LED lifecycles in excess of **100,000 hours**
- UMSUG coding for 23Watt, 30Watt and soon 36Watts
- IES files are available for all our units (supporting Lighting Reality Software)
- We offer a **5 year replacement warranty** with no hidden agendas
- IP67 rated power supply, fully potted casing
- IP66 housing
- Colour Temperatures in warm, neutral and cool white (2600°K up to 8300°K)
- LED and MPCB are removable, allowing upgrade and replacement options
- Photocell sensors available in Zodion or Selc mini cells
- Side entry poles of 32mm to 60mm accommodated
- Top post entry available up to 76mm diameter poles
- The product is extruded aluminium and anodized with 15 microns of protection
- The luminaire is available with a full colour range in gloss or matt anodized finishes which will never need painting

Carbon Reduction Technology

FOR MORE INFORMATION OR A COMPLIMENTARY QUOTATION PLEASE CONTACT:

18B TOWN HALL STREET | SOWERBY BRIDGE | HALIFAX | HX6 2EA TEL: 01422 833 578 WWW.CARBONREDUCTIONTECHNOLOGY.COM

DESIGNED IN THE UK TO MEET LOCAL AUTHORITY REQUIREMENTS



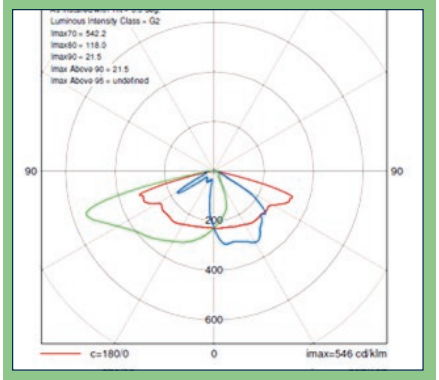
Patent application No. GB1308739.0
Design registration No. 4030032

FINANCIAL

- Energy savings up to 75%
- Simple installation
- Zero maintenance
- Useful lifetime of Helia is greater than 20 years
- Instant switch on and off
- Step dimming available
- Potential payback under 5 years
- Volume discount available

Helia is eligible for Salix funding. Contact us for more information.

HELIA POLAR DIAGRAM



The Helia is designed to meet the **BS EN 13201-2:2003** and **BS 5489-2013** standards. Helia Offers an exceptional uniformity with minimal light pollution and glare, therefore optimising energy efficiency within the S Class standards.

Wide and narrow distribution is available to match road dimensions.

Carbon Reduction Technology

POWER SPECIFICATION

System Power	23 Watts	30 Watts	36 Watts
Operating Current IDC	800mA	1.05A	1.2A
Input Voltage	90 - 264 Vac		
Input Frequency	47 - 63 Hz		
System Efficiency	85%		
Operating Temperature	-30°C to +50°C		
Working Humidity	0 ≈ 95%		
Turn On Time	100ns		

LIGHTING SPECIFICATION

System Power	23 Watts	30 Watts	36 Watts
Light Source	Cree XML2	Cree XML2	Cree XML2
LED Quantity	8	8	8
Total Lumens	107 Lm / Watt	107 Lm / Watt	103 Lm / Watt
LED Colour	Cool, Neutral or Warm White		
CRI	Ra > 70		
LED Tj °K	<80°C		
LED Lifespan	100,000 @ LM80		

COLOUR TEMP °K

LED Colour	Cool White	Neutral White	Warm White
	CCT Range		
Minimum	5,000 K	3,700 K	2,600 K
Maximum	8,300 K	5,000 K	3,700 K

Contact us to find out your estimated energy reduction and ROI period