

**COLLEGE BUSINESS & TECHNOLOGY PARK,
BLANCHARDSTOWN,
CO. DUBLIN**



ENVIRONMENTAL SENSE

White Light Ireland Ltd LED's come with a 5 year guarantee; they use less power, require less maintenance and contain no mercury or heavy metals. During their operational life, the disposal of LED's will not further pollute landfill sites with hazardous waste.

SAFER AND BRIGHTER

LED light is white compared with conventional street lighting which is yellow/orange. A standard 100 Watt LED light scores over 80 on the CRI (Colour rendering Index) compared a score of less than 20 for the equivalent sodium lighting. Not only is the pure white LED more pleasing to the eye, it also increases the amount of image information captured on security cameras. For example. A red car positioned under an LED street light will appear red, however located under sodium light, the red car appears brown.

For areas that require a lot of light such as College campuses and pedestrian areas LED lights will illuminate the area considerably more.



At White Light Ireland Limited our LED Street Lights use the latest High Power LED's, we recently replaced 250W high press sodium lights with 90W LED street lights. In the LED color spectrum there is no ultra-violet light, no infrared light, and little-to-no heat produced. As a result, LED products are "green" lighting sources. They are ideal for public squares, streets and roads.

Urban and suburban planners take note: the unavoidable future of street-lighting is here today!

IDA Ireland in conjunction with Fingal County Council liaised with White Light Ireland Ltd to install 90 Watt LED lights instead of 250 Watt high pressure sodium lamp fittings at College Business and Technology Park and the results are phenomenal!

Incorporating White Light Ireland's experience and expertise with conventional street lighting, White Light Ltd was very keen to demonstrate the benefits of LED lighting compared to high pressure sodium fittings.

LED LONG LIFE

LED lights maintain over 70% of the original luminous flux at 50,000 hours - long after conventional outdoor light sources have burned out.

Conventional street light fixtures waste approximately 20 - 50% of the light generated due to the lack of direction of the light source. LED based fixtures overcome this by making use of a directional point light source.



Standard 100W LED Street Light

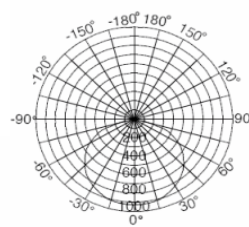


College Business & Technology Park,
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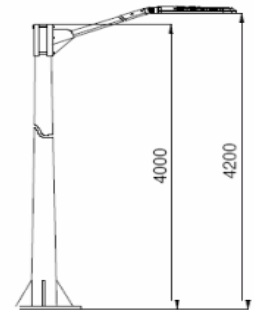
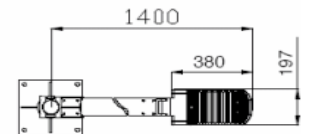


Digiweb Building, College Business & Technology Park, Blanchardstown, Dublin

90W LED Streetlight (Single Head)



Candle Power Distribution
Max Light Intensity: 931.18 cd
Beam Angle: 120°



Comparison Between High Power LED Streetlights and Traditional Streetlights					
Street Light Type	High Pressure Mercury Light	Metal Halide Lamp	High Pressure Sodium Lamp	Low-Pressure Sodium Lamp	90 LED STREET LIGHT
Lamp Power (Watt)	500	400	400		90
Circuit Power (Watt)	545	460	450		125
Power Consumption / Year (kWh)	2188	1847	1807		502
Luminous Efficiency	40-61	66-108	68-150		23
Economic Life (Whrs)	1000-12000	4000-10000	16000-32000		100000

FACT

To save energy and to protect the environment LED lighting is the future for outdoor lighting. LED lights help to conserve natural resources and save taxpayers money. Local government and businesses are turning to LED street lights after realising that today the easiest and best way to start saving money and energy is by installing LED lights instead of standard sodium light fittings.

COST COMPARISON OF A 250 WATT SODIUM LIGHT AND A 90 WATT LED LIGHT

250 Watt Bulb.

0.286 (Billable Wattage) x 4166 burn hours (average per annum for a street light) = 1191.476 units per annum
1191.476 x 0.1094 (ESB unit cost) = €130.347 plus VAT @ 13.5% = €147.94 per Street light with a 250 Watt bulb.

90 Watt LED Bulb

0.116 (Billable Wattage) x 4166 burn hours (average per annum for a street light) = 483.256 units per annum
483.256 x 0.1094 (ESB unit cost) = €52.868 plus VAT @ 13.5% = €60.00 per LED Street light with a 90 Watt bulb

(Calculations based on ESB Dusk til Dawn figure of 4166 burn hours per annum)

HIGH PRESSURE SODIUM 250W Street Light

ELECTRICITY ANNUAL COST **CARBON EMISSIONS** **TREES REQUIRED**

€147.94

0.56 tonnes of CO₂

0.86

LED 90W Street Light

ELECTRICITY ANNUAL COST **CARBON EMISSIONS** **TREES REQUIRED**

€60.00

0.29 tonnes of CO₂

0.44



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