

## INTRODUCTION

### LED-BASED STREET LIGHTING

Dutch company Innolumis has been created by Imtech and Lemnis Lighting to develop and produce sustainable and economically feasible street lighting. The result is the LED-based LUMIS-LED.

Peek Traffic Ltd., sister company of Innolumis and part of the Imtech Group of companies, introduces the LUMIS-LED in the United Kingdom and Ireland.

The LUMIS-LED is successfully introduced and installed in multiple projects in The Netherlands and the United Kingdom.



## LESS IS MORE

The LUMIS-LED combines the knowledge of human visual perception and the latest developments in LED and optical technologies. LUMIS-LED makes use of less light to create more sight. The product offers the following key-benefits:

- Lower energy costs
- Less light pollution
- Less carbon emission
- Lower maintenance costs
- More uniformity
- More lifetime (80,000 hours)
- More environmentally friendly
- More sustainable



### Example

Country:  
The Netherlands

City:  
Leeuwarden

Light type:  
Ecowhite 16 Watt

Column height:  
5 metre

## CONCEPT

The new concept is green, in terms of both sustainability and light colour. The use of base green coloured LEDs makes it possible to create excellent visibility using relatively little light. The colour recognition remains accurate by using a colour composition in LEDs. This is an important element for social safety; seeing and being seen.

The new lighting design allows light levels to be lowered even further whilst visibility and colour recognition suffer minimal decrease. This principle, known as 'mesopic vision', may be used to achieve further energy savings of up to 70%.

Peek and Innolumis are setting a new trend with their LED lighting by anticipating the sensitivity of the human eye in dark conditions. TNO, an independent Dutch Contract Research Organization, has ascertained that the light sources developed by Innolumis generate more visibility compared to any other light sources in mesopic situations.



### Example

Country:  
The Netherlands

City:  
Provincial Road

Light type:  
Ecowhite 36 Watt

Column height:  
8 metre

Column spacing:  
25-30 metre

## TICKING THE BOXES

### UK requirements

Elxon UMS code

Design software

Received permanent charge codes

**First in UK for LED-based street light!**

In Lighting Reality, update Feb. 2009

Photometric files also available by e-mail

### General specifications

Power

EcoWhite: 16, 24 and 36 Watt

Green: 8, 14 and 22 Watt

Light colours

Green and EcoWhite

Certifications

CE/ENEC in progress

Environmental compliance

RoHS Compliant

Environmental friendly

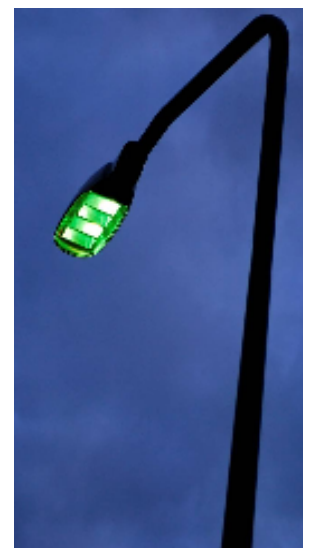
100% recyclable, no phosphorus

Materials

Recyclable aluminium/glass

IP class

66 (sealed for life)



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