



enviro \rightarrow light

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WHY ENVIROLIGHT

2010

Energy efficiency without light deficiency

- Patent Registration No: 2006/-1496



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The Concept

- Automotive Headlight Technology



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State of the Art Manufacturing Quality

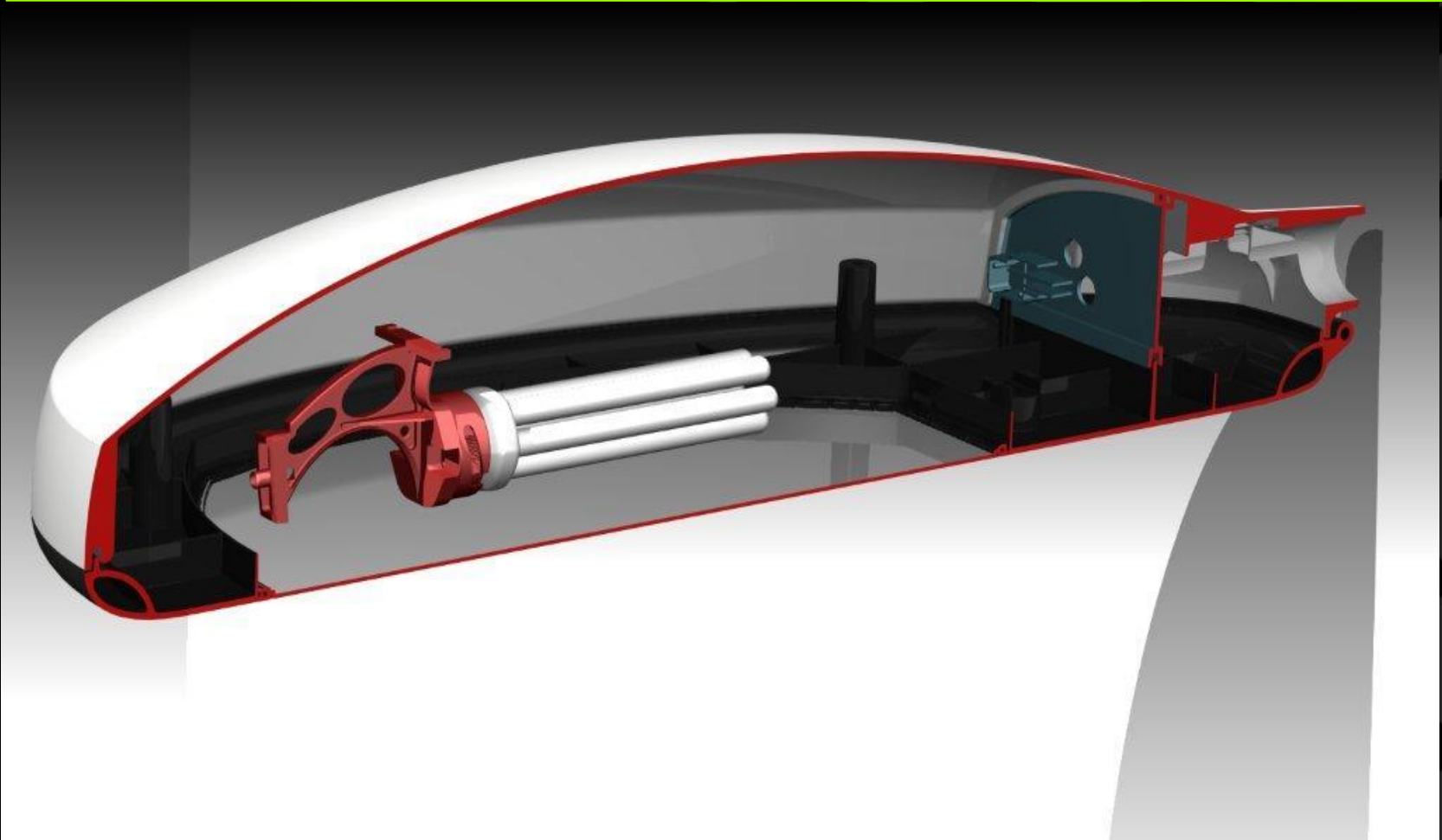
- Hi Tech engineering design
- Unique strength
- Lens cover engineered for perfect sealing and longevity
- Materials long life UV protected
- Lightweight < 5kg
- Fully recyclable
- Low manufacturing carbon footprint



Manufacturing Plant

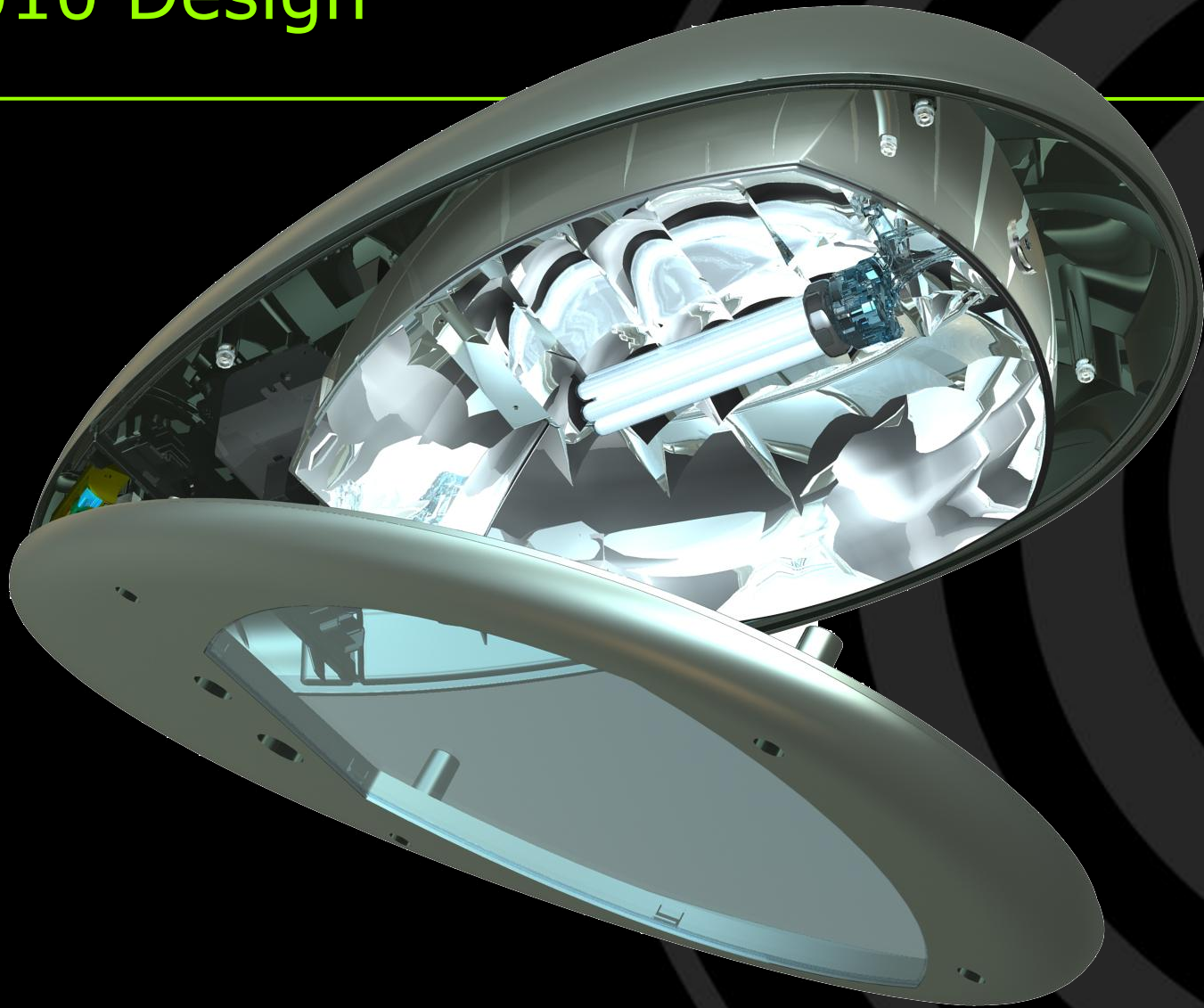


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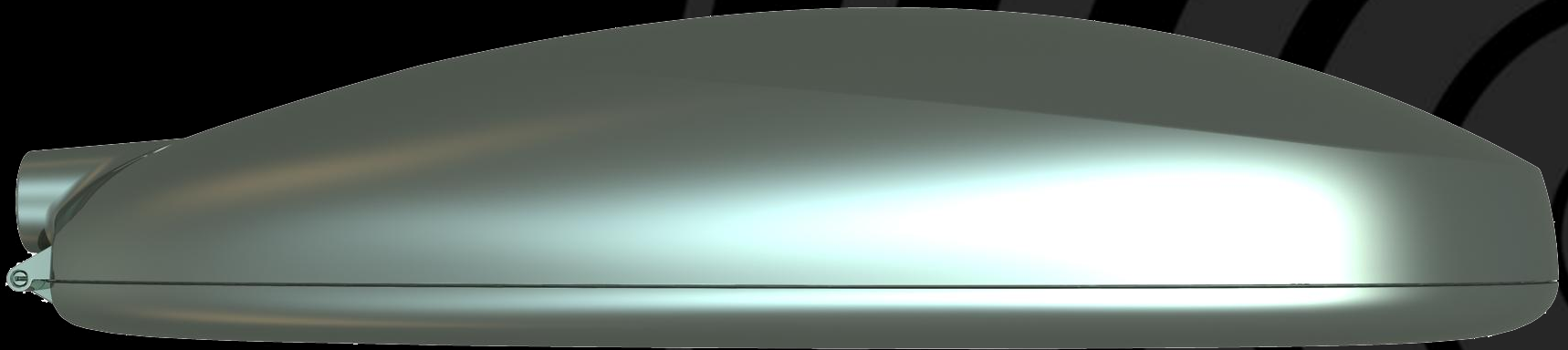
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2010 Design



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2010 Design



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The Reflector

- Design patented reflector



PRODUCTS

Street lighting



Solar Lighting



Warehouse Lighting



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Envirolight ES57



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Envirolight ES 120



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Envirolight ES 150 Prototype



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Reflector

- Precision engineered for light source
- DVM coated 99,9% pure Aluminium
- Reflectivity 92%
- Homogenous
- Perfect photometrics
- Excellent Uniformity



CRI > 82

Envirolight ES57



Compact Fluorescent

HPS 70 Watt



High pressure sodium



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Visual Color Rendition

HIGH PRESSURE SODIUM
CRI = 25



MERCURY VAPOR
CRI = 48



ENVIROLIGHT ES57, ES85
ES120 & ES150
CRI = +82



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Scotopic / Photopic Ratio

• Sun and sky	2,47
• Fluorescent	1,65
• Metal Halide	1,49
• Mercury Vapour	0,86
• High Pressure Sodium 100W	0,63
• High Pressure Sodium 250W	0,63
• Low Pressure sodium	0,38



CFL / HPS Color Rendition



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Proven Technology

- Unique automotive manufacturing quality and strengths
- Materials specified internationally
- Direct Vacuum Metalizing used in Headlight Reflectors
- Filter Technology
- Electronic Ballasts – Well Established



Proven Components

- Philips Lamps & Ballasts



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Guarantees

- Housing components – 5-20 Years
- Lamps – Manufacturing Warranty
- Ballasts – Manufacturing Warranty



Stock Holding Cost

- Envirolight spares supported by reputable manufacturer
- No heat issues hence only Lamp & Ballast replacements required



Maintenance

- Housing IP66 rated
- Long life lamp (ES57 42000 hours) and
- Ballast (50 000 hours +)
- Automotive filter allows air movement with no ingress of dust – No cleaning required
- Luminaire engineered for ease of maintenance
- Low maintenance cost



Environmental

- Carbon footprint a fraction of aluminum
- Housing materials fully recyclable
- No light pollution
- White light attracts less insects



We are all Polluting



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Light Pollution

Envirolight ES57



HPS 70 Watt



Note: two vehicles in the road in both pictures

TRUE COLOUR RENDITION AT NIGHT - CAMERA: CANON EOS 30 D @ 30 SECONDS EXPOSURE WITHOUT A FLASHLIGHT
By PROFESSIONAL PHOTOGRAPHER



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Envirolight ES57 Solar Light



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Energy Savings using ES57

Existing Lamp	70W HPS	100W HPS	125 W MV
Typical Circuit Power	84W	120W	144W
Envirolight ES57 Replacement	58W	58W	58W
Energy savings	26W	62W	86w
Percentage Saving	31%	52%	60%
Annual Saving	104kWh	249kWh	345kWh



Energy Savings ES85, ES120 & ES150

Existing Lamp	150W HPS	250W HPS	400W MV	400W HPS
Typical Circuit Power	171W	285W	456W	456W
Envirolight Replacement	133W	133W	133W	155W
Energy savings	38W	152W	323W	301W
Percentage Saving	22%	53,3%	70,8%	66%
Annual Saving	153kWh	640kWh	1361kWh	1268kWh



Why Envirolight is Today's Solution

- Financially the Right Choice
- Optimized Photometrics
- Light Uniformity
- High Color Rendition (CRI 82+)
- Excellent Lamp Life
- No Spill Light
- Increased Pole Spacing
- Lighter Cabling
- Exceptional Energy Efficiency
- Excellent Ingress Protection
- Quick Pay Back
- Low Manufacturing Carbon Footprint



Envirolight compared to LED

	Envirolight	Typical LED
Capital Cost	Low	±5 times
Energy Consumption	Comparable – often better	Comparable
Photometrics	Superior	Inferior
Maintenance	Simple	Generally more complex
Stock Holding	Substantially Cheaper	Expensive
Technology	Proven	Under development



Why aren't you using Envirolight?



Focusing on savings



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