

enviro \rightarrow light

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Products &
Technical
Information

2010



Products



Street lighting



Solar lighting



Warehouse lighting



Luminaire circuit power

Lamp type	Circuit power
ES57	51 watts
ES85	94 watts
ES120	133 watts
ES150	155 watts



Envirolight ES57



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Envirolight ES 120



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Envirolight ES 150 Prototype



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Luminaire Features

- IP66 Rated
- Hi Tech engineering design with unique strength
- Lens cover engineered for perfect sealing and longevity
- Materials specified internationally long life UV protected
- Automotive filter system stops ingress of dust
- Micro switches provide safety in lamp & ballast compartment for routine maintenance
- Philips Lamp & Electronic Ballast combination
- Full cut off
- Lightweight < 5kg
- Fully recyclable
- Low manufacturing carbon footprint

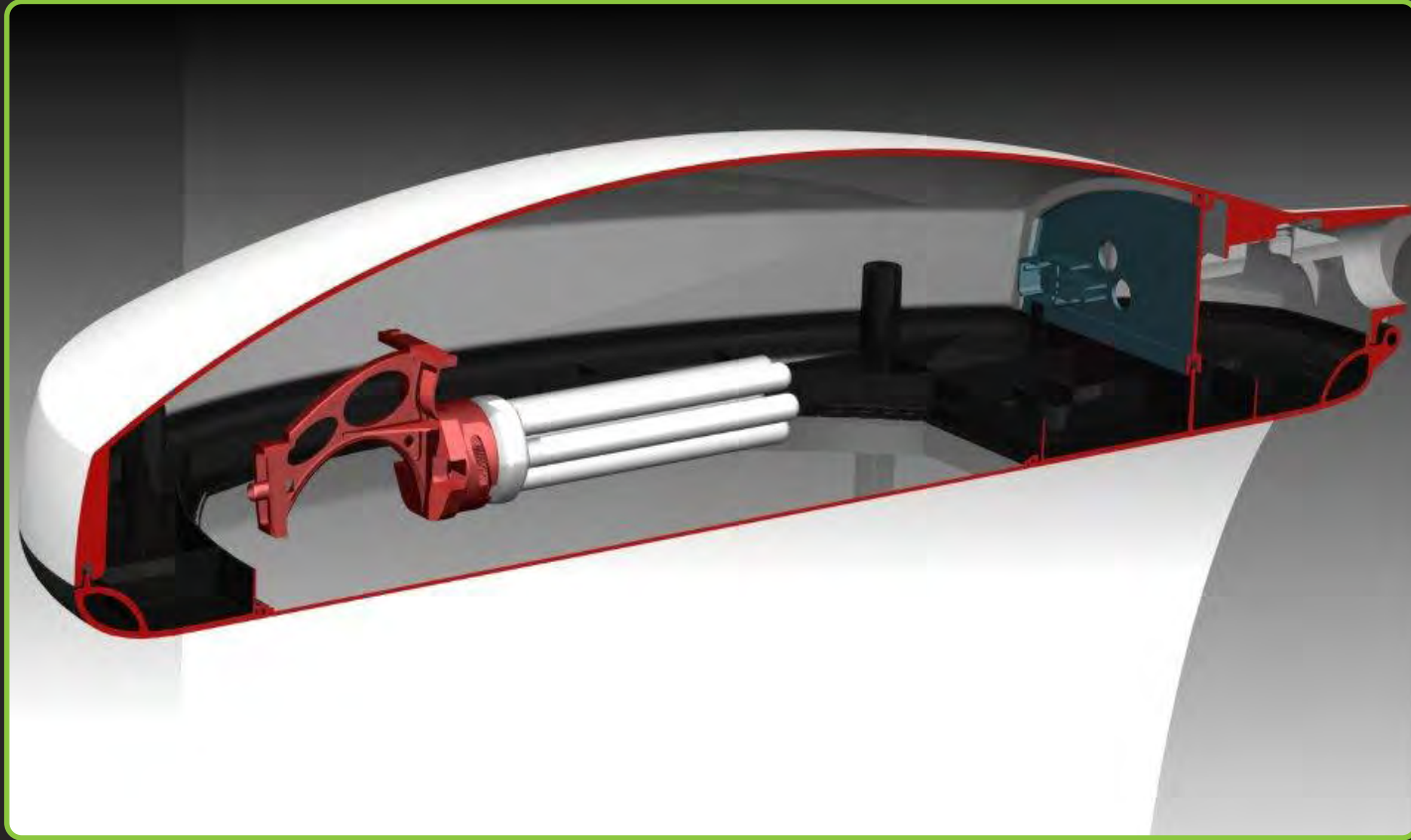


Product Tests

- SABS Testing
- Photometric Results
- Ingress Protection IP 66 certified
- Tested to SANS 60598-2-3
- Complies with ARP 035 (non mandatory)
- Manufacturing Facility – ISO 9001 / 14001



Design Engineered



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2010 Design



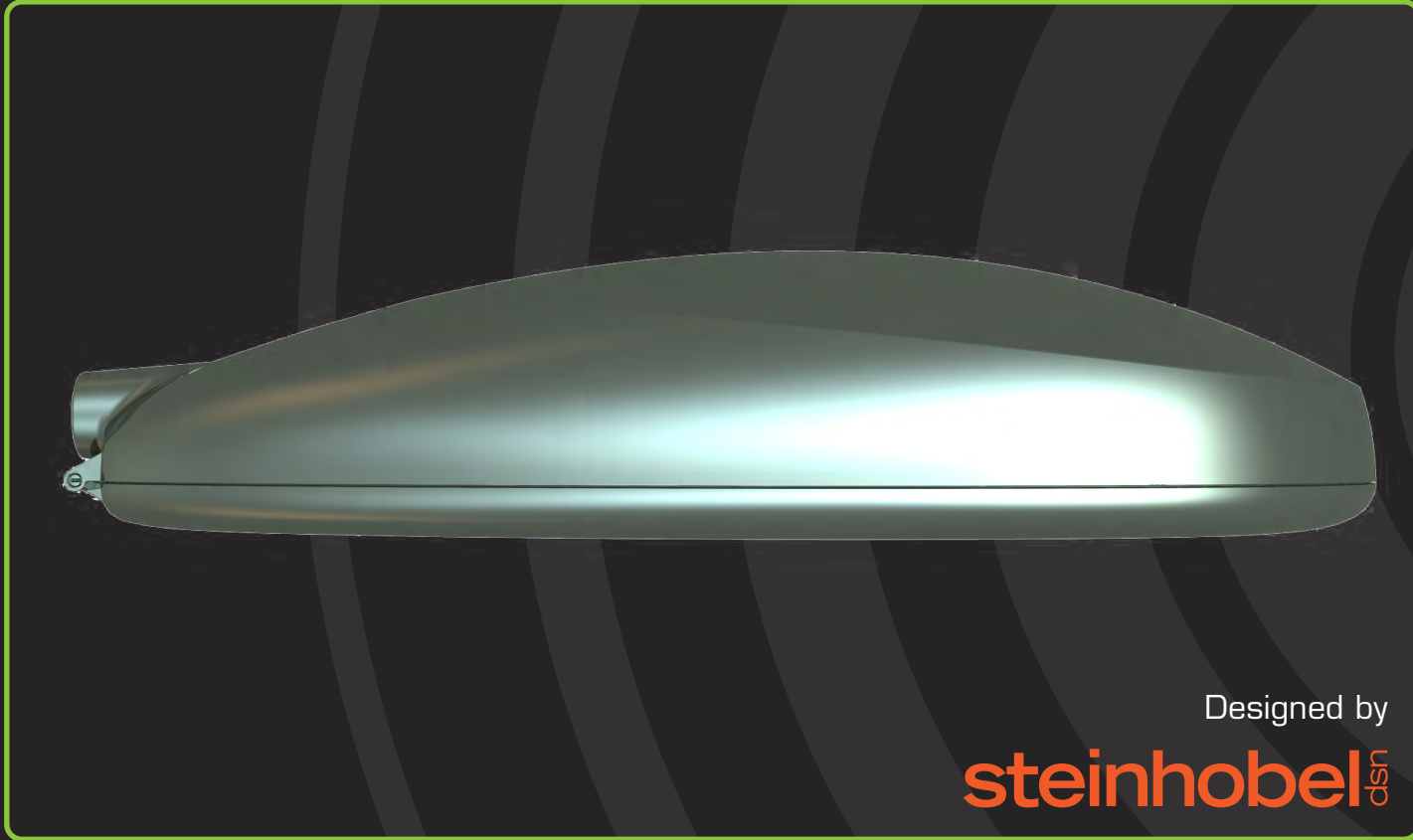
Designed by
steinhobel^{dsn}

Note: Some of the designs shown in this presentation will only be available in the last quarter of 2010.



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2010 Design



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The Reflector

Design patented reflector



Designed by

steinhobel_{dsr}



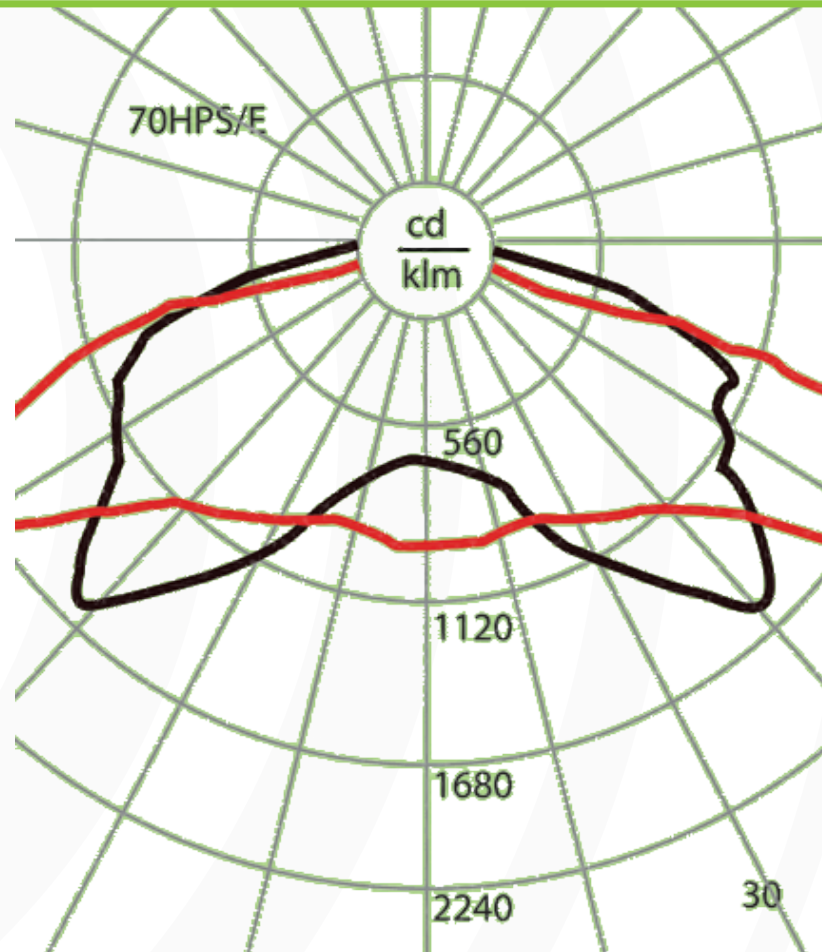
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The Reflector

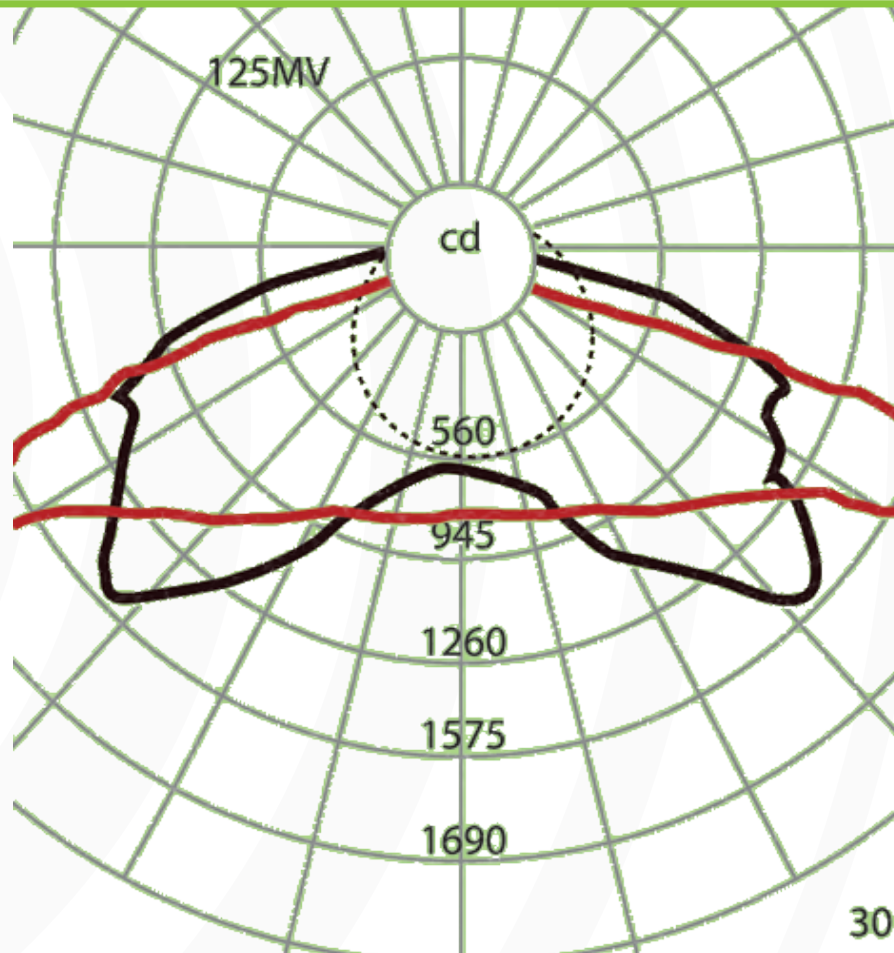
- Precision engineered for light source
- DVM coated 99,9% pure Aluminium
- Reflectivity 92%
- Homogenous
- Perfect photometrics
- Excellent Uniformity



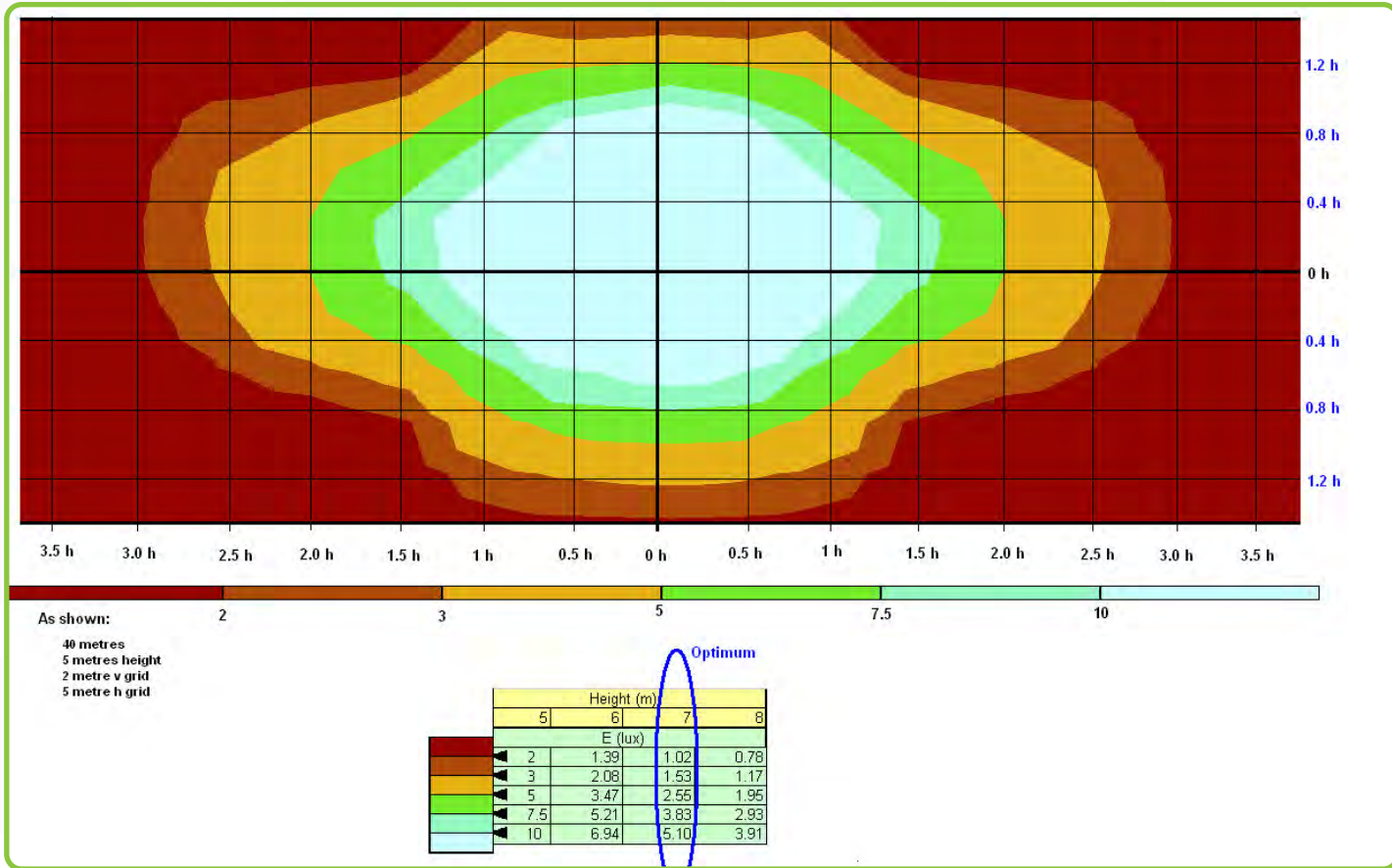
Envirolight ES57 Photometrics compared to a typical 70 Watt HPS



Envirolight ES57 Photometrics compared to a typical 125 Watt HPS



ES57 Lux Diagram



Proven Components

Philips Lamps & Ballasts



Lamps

57 Watt High Power CFL

4 300 lumens

85 Watt High Power CFL

6 000 lumens

120 Watt High Power CFL

9 000 lumens

150 Watt Ceramic Metal Halide

15 500 lumens

Lamp life

20 000 - 33 000 hours

Lamp holder

adaptor is brand interchangeable

Manufacturers

Philips, Osram, GE and others



Philips Lamp & Ballast Combinations

- Philips PL-H® Compact Fluorescent lamps combined with Philips Advance SmartMate® ballasts make a powerful alternative to HID and T5HO systems.
- Amalgam technology
 - Maximum light output over a wide operating temperature range
- Lamp performance and quality of light
 - 20,000 hours rated average life
 - 86% lumen maintenance at 5000 hours
 - 4000, 6000, 9000 lumens
- Programmed start ballasts
 - Provides extended lamp life in frequent switching applications
- Auto-restart capability
- 90°C rated ballasts
 - Ensures reliable performance in hot and cold applications
 - 90°C ballast case temperature with a low minimum starting temperature of -30°C

† This lamp is better for the environment because of its reduced mercury content.

All Philips ALTO®/Philips Advance Ballasts



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Guarantees

- **Housing Components** – 5 to 20 Years
- **Lamps** – Philips Manufacturing Warranty
- **Ballasts** – Philips Manufacturing Warranty



Maintenance

- Housing IP66 rated
- Long life lamp (20000 to 33000 hours)
- Ballast (50 000 hours +)
- Automotive filter allows air movement with no ingress of dust – No cleaning required
- Luminaires designed and engineered by municipal engineer for ease of maintenance
- Low maintenance and replacement costs



Environmental

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



Environmental



Full Cut Off
- No light
Pollution



Low Manufactur-
ing footprint



Fully Recyclable
Materials



Reduction in
Carbon
Emissions



Energy Savings using ES57

Existing lamp	70W HPS	100W HPS	125 W MV
Typical circuit power	84W	120W	144W
Envirolight ES57 replacement	51W	51W	51W
Energy savings	33W	69W	93W
Percentage saving	38.8%	57,5%	64,5%
Annual saving	138kWh	290kWh	391kWh



Energy Savings ES85, ES120 & ES150

Existing Lamp	150W HPS	250W HPS	400W MV	400W HPS
Typical circuit power	171W	285W	456W	456W
Envirolight replacement	94W	133W	133W	155W
Energy savings	77W	152W	323W	301W
Percentage saving	45%	53,3%	70,8%	66%
Annual saving	325kWh	640kWh	1361kWh	1268kWh

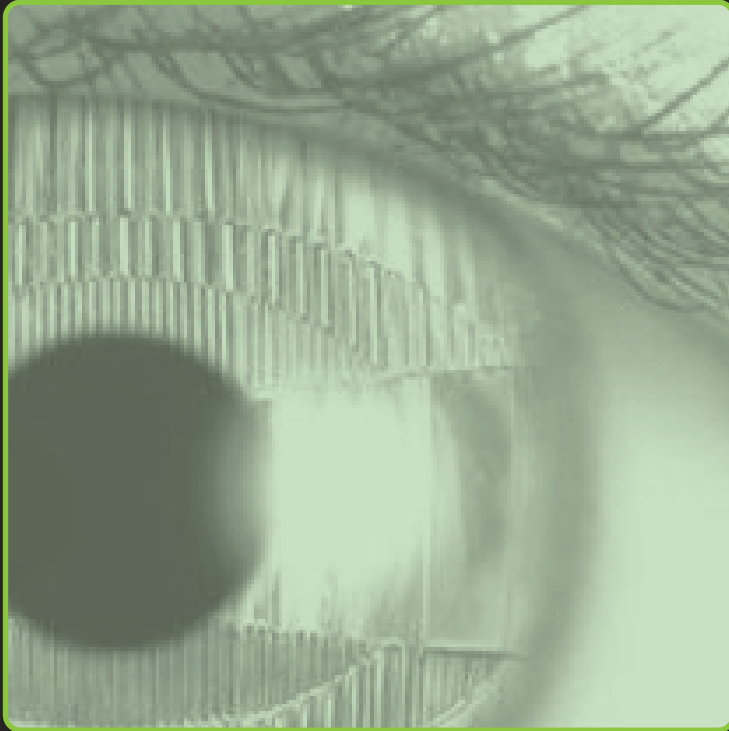


Why Envirolight is Today's Solution

- Financially **the right choice**
- Unique product strength
- 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
- Environmentally appropriate



Why aren't you using Envirolight?



Focusing on
quality



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