

ENVIRONMENTAL PRODUCT DECLARATION

BASIC DATA

Product family name	Product numbers	Related numbers
Sky Panel 66		
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SUPPLIER INFORMATION

Company name Low Energy Designs Ltd. 9A Sunrise Business Park Blandford Forum, Dorset, DT11 8ST England		Telephone +44 1258 858 171 www.lowenergydesigns.com
Company description Low Energy Designs Ltd designs, manufactures and supplies LED lighting products to commercial markets. Products are typically used within industry in areas such as: Warehouses, Cold Stores, Storage Facilities, Retail, Office spaces, Schools and Hospitals. Products for external applications are found illuminating Major Roads, Streets, Car Parks, Parking Garages, Playing Fields and Public Spaces.		
Environmental certification The company is registered under the UK WEEE directive and has appointed AVC Weeeco (http://www.avcweeeco.com/) to oversee and ensure all legislative requirements are met.		

LEGAL REQUIREMENTS

This product is CE, ROHS & EMC compliant. The power supply used within the product is CE, ROHS & EMC Directive 2004/108/EC – BS EN 55015:2013, BS EN 61547:2009, BS EN 61000-3:2:2006+ A1:2009+ A2:2009 and BS EN 61000-3:3:2013 compliant. Low Voltage Directive 2006/95/EC – BS EN 61347-1:2008+ A1:2011+ A2:2013, BS EN 61347-2-13:2006 and BS EN 62493:2010 compliant. LED strips certified and tested to LM-80-2008, CE & ROHS compliant.
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PRODUCT INFORMATION

Material/part	Description	Weight (%)	Comment
Body: Aluminium	Aluminium Frame & Backing Plate	< 40%	
Powder Coating		<1%	
Power Supply	HTC-40W	< 10%	HTC-40W-02-0900-20
LED-strip Samsung	Model: SMD2835	< 7%	STK-5023 Alu Substrate
Acrylic diffuser	Polycarbonate Acrylic	< 40%	(PMMA)
Cables, halogen free	2 x 7 x 0.032	< 3%	

TRANSPORT & PACKAGING

Transport within Europe is by road or rail. Products individual boxed in fully recyclable cardboard packaging. Boxes grouped on reusable heat treated wooden or plastic pallets. Recyclable PE or nylon banding, non-recyclable outer PVC wrap.

PRODUCT ENVIRONMENTAL IMPACT

Production:

The body construction of the Sky Panel 66 is aluminium; this product is recyclable at certain locations. The lens is polycarbonate acrylic (PMMA) which is also recyclable at certain locations. The electronic components (power supply and LED strip) are fully ROHS compliant and contain recyclable aluminium casings and copper wire. These component parts are manufactured outside the UK and contribute CO₂ in transit to the UK.

Operation:

The conversion of power to useful light is more efficient in LED lighting than existing traditional sources. The 34 Watt example of this product will typically replace a 72 Watt variant of existing product with the LED output remaining above 70% of initial output after 10 years. This could lead to 33% savings of CO₂ emissions over time on a like for like usage basis.

The main impact on the environment during the products lifecycle is the energy used in the user phase.

Product Technical Lifetime:

+15 years.