D900 S LED downlight
Environmental report

4.164kg Carbon generated

4.164kg Carbon abated

Carbon generated

Part name	Material	Part mass	Qty	Notes	CO2
Wiring	cable	1g	3	Notes	125g
GU10 Pins	Nickel	0.6g	3	Notes	22.6g
M3 Screw to hold in GU10	Steel, Low alloyed grades	0.3g	4	Notes	10.8g
GU10 Pin plate	Polycarbonate	6.47g	1	Notes	62.2g
PCB ICs	integrated circuit, IC, logic type, at plant	0.2g	2	Notes	418g
PCB SMDs	Resistor,surface mount SMD type	0.2g	5	Notes	88.5g
PCB	PCB board only	2g	1	Notes	569g
LED	LED, light emitting diode	1g	1	Notes	262g
LED Cover	Polycarbonate	4g	1	Notes	38.5g
Lens Vanity Cover	Polycarbonate	16.36g	1	Notes	157g
Lens	PMMA (Acrylic), Recycled	25.6g	1	Notes	175g
Diffuser Glass	Glass, Float	30g	1	Notes	108g
Lens Retaining Ring	Aluminium, Virgin	16g	1	Notes	737g
Main Body	Aluminium, Cast Alloy	124g	1	Notes	881g
Totals:		233g			3660g

Junction Bracket *Manufactured in: Asia*

Part name	Material	Part mass	Qty	Notes	CO2
m2.5 cap screw	Steel, Low alloyed grades	0.47g	1	Notes	4.25g
Mounting Screws	Steel, Low alloyed grades	2.59g	3	Notes	70.3g
Terminal Blocks	Brass	2.74g	3	Notes	26.1g
Junction Cap	Polycarbonate	3.72g	1	Notes	35.8g
Top Housing	Polycarbonate	15.35g	1	Notes	148g
Back Housing	Polycarbonate	22.81g	1	Notes	219g
Totals:		58.3g			504g

Karnataka wind energy project

Brightgreen has partnered with the Karnataka wind energy project in India to offset the embodied energy used in the manufacturing and transportation of D900 S Curve.

The Karnataka project is a large scale wind power generation project that involves the installation of 0.8 MW wind turbine generators. Energy generated as part of the project is supplied to each wind turbine's respective local grids in the following areas: Samana (India) – supplying power to North-East-West-North East (NEWNE) grid and Saundatti (India) – supplying power to the Southern grid of India.