LCA

2024-09 ver. 3
Self-declared

NAPOLI desklamp

MATTING

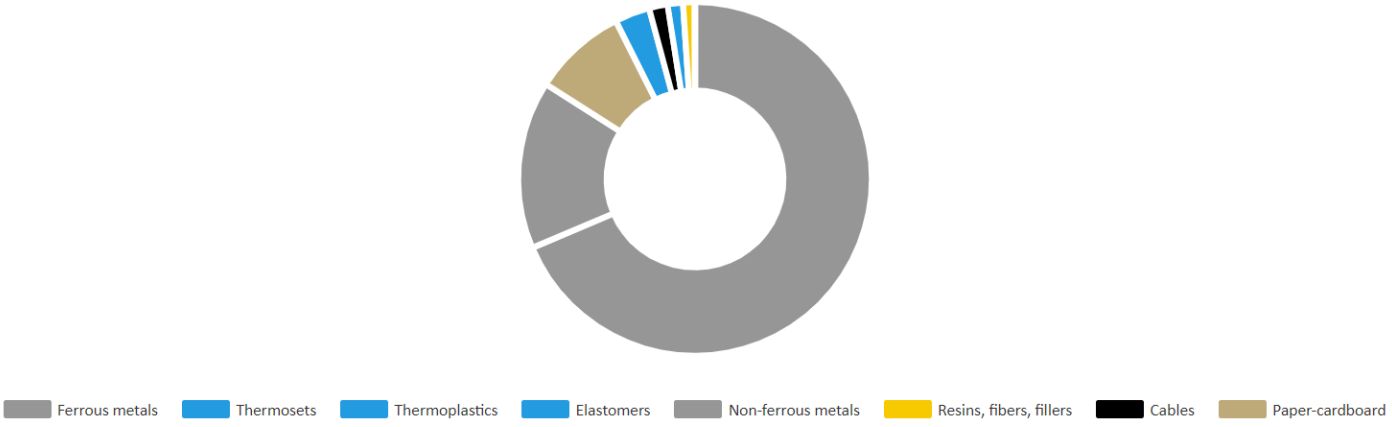
Product: **NAPOLI desklamp with base**

25.2

kg CO_2e

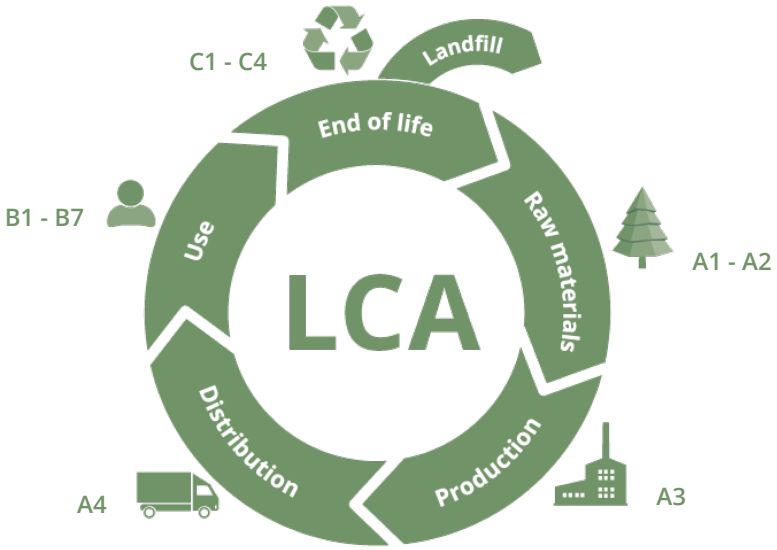
	Climate change (GWP 100) (kg CO_2 -eq)
Raw materials	5.475
Supply	0.068
Manufacturing	2.645
Distribution	1.426
Use	13.821
End-of-life	1.752*

**Calculated on Cradle to Grave. Not considering exchangeable LED which is standard for Napoli.*



	Materials allocation
Ferrous metals	2.394 kg
Thermosets	0.001 kg
Thermoplastics	0.112 kg
Elastomers	0.049 kg
Non-ferrous metals	0.537 kg
Resins, fibers, fillers	0.037 kg
Cables	0.059 kg
Paper-cardboard	0.300 kg
Net product weight (weighted sum of all components)	3.540 kg
Sum of the masses of the materials used	3.488 kg

Program: ECO Design Studio
Database: Base Impact
Packaging: Product packaging included in LCA, excl transport



PRODUCT: NAPOLI desklamp with base

NAPOLI is an asymmetrical desk lamp for offices with high demands on functionality and design. Possibility to choose automatic switch-off with timer, saving energy.

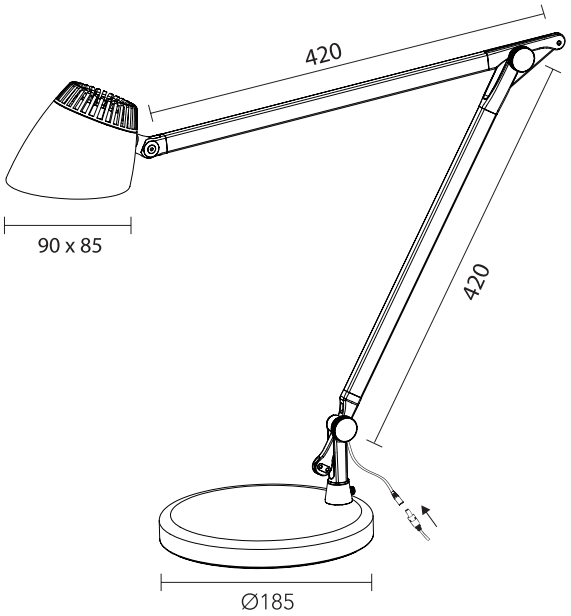
NAPOLI comes in black, silver or white colour with chrome details. 3-piece arm, adjustable lamp head, 3-step dimmer and timer make it a very flexible lamp. The timer can be set to 2, 4 or 9 hours.

Materials:	Steel, aluminium, plastic
Output/light source/luminous flux:	6W LED 665 lumens, replaceable LED
Energy efficiency:	85 lumens/watt
Colour temperature:	2700 K
Colour reproduction:	80 Ra
Lighting intensity:	1970 Lux (40 cm) / 1200 Lux (50 cm)
Energy efficiency class:	F
Dimmer:	3-stage variable touch dimmer
Timer:	2, 4, 9 h

Guarantee
2 years (fabric guarantee). Lifetime expectancy 50.000 h.

Spare parts
- LED module
- Power adaptor (AC/DC) with cord
- Lamp base
- Lamp arm with head

Accessories
- Clamp



Dangerous substances
The product contains no substances given by the REACH candidate list.

Certificates
- RoHS
- CE

COMPANY INFORMATION
Matting AB is a family-owned niche company. Through our expertise, commitment and cutting-edge product development, we offer sustainable concepts and products for public spaces, workplaces and schools. Our concepts are developed in close co-operation with designers and experts, with a clear focus on sustainability and sustainable living.

Phases included in the LCA of NAPOLI desklamp with base (see markers)

	Product stage/ Manufacturing			*Construc-tion/ Assembly*		*Use*							*End of Life*				*Resource recovery stage*
	A1 - raw mtrl	A2 - transport	A3 - production	A4 - transport	A5 - assembly	B1 - use	B2 - maintenance	B3 - repair	B4 - replacement	B5 - refurbishment	B6 - building operational during use of product use of energy	B7 - building operational use of water during use of product	C1 -Deconstruction	C2 - Transport	C3 - Waste processing	C4 - Disposal	D - Reuse-, Recovery-, Recycling-potential
Declared	X	X	X	X	X	X*	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	ND**
Region/ Origin	RER, GLO	GLO	CN	CN/SE	CN	SE								´		RER	

** Electricity consumption (kWh) = Power (W) x Lifetime expectancy (hours) / 1 000. Swedish grid mix. EN 15804, ISO EN14025.*
*** This phase is not declared in this LCA. However, spare parts are available. See page 3.*

Declaration of MATTING Life Cycle Analysis (LCA)

Mattings' DNA is built on three focus areas. Design, sustainability and knowledge. All equally as important as they give us a holistic view on our products and a responsibility in our product process.

Matting uses *Life Cycle Analysis* as an important tool in our early design process and product development phase. This is so that we can make our decisions based on the most accurate data we can to achieve the greatest and most far-reaching effects for longevity and reduced climate impact in the product's journey from cradle to cradle.

The LCA is including the following phases:
Raw material and material (UPSTREAM) – Production – Assembly – Transport/Distribution – Use (DOWNSTREAM) - End of life

HOW WE MODEL OUR LCA

- The LCA is declared in **Eco Design Studio** by Altermaker.
- We use **Base Impact database** to invent, extract and calculate the data.
- In case of not finding the exact value (i.e material etc) we always aim to find the most similar.
- We always choose the worst case scenario/data if we cannot retrieve the exact value due to different reasons (i.e Government law restrictions in reciveing data etc)
- Origin of material, energy source mix etc is declared.
- The useage phase of the product is modelled out of the guarantee date (2 years). When spare parts are available for the product we can provide comparison data.

THE LCA DECLARATION

We provide self declared LCA for several products. The Co_2-e data on products within MATTING can be compared to each other. It may be misleading to compare Matting products with products from other suppliers. The reason for this is due to that as of today there is no common standard for how to calculate an LCA. Therefore the rendering, calculation models used and different database can differ not giving a fair comparison. See the Co_2-e more as a guideline and the individual data as a map of the products impact on the ecosystem.

THIRD PARTY DUE DILIGENCE

- In some cases the LCA can be declared with a due diligence by a 3rd party. Matting uses Miljögiraff to provide these independent auditing.
- We follow the FN Global goals, Guiding principles on Business and Human Rights 3P model. People, Planet and Profit.

In order to help our customers to get the full knowledge and insight in our products we aim to provide EPD (Environmental product declaration) continously in the future. This is an ongoing process. Some of our products already have an EPD.