louis poulsen

Environmental Product Specifications

— Tomoshi

Product description

– This portable table lamp emits a soft, glare-free light, that illuminates the surface below and provides some ambient light. The replaceable LED light source is contained towards the base of the design. With a minimalistic expression and quality materials, it is designed

Product info

Info

Please note that Tomoshi Portable comes with a USB cable but without adapter. Compatible with standard USB C adapters.

Materials

Lamp and body: Polymer
Strap: Retractable strap in Genuine Leather.

Finish

Painted White or Brown, mat finish.

Light source

LED 2700-2000K Dim to warm

Class

Indoor IP20.

Sizes and weights

Width x Height x Length (mm)
63 x 170 x 63 Max 0,7 kg

Spare parts & accessories

Product	Variant number
Tomoshi Portable Light Brown leather strap	5744171300
Tomoshi Portable Dark Brown leather strap	5744171313
Tomoshi Portable rep. kit battery	5744171326
Tomoshi Portablel rep. kit PCB	5744171339
Tomoshi Portable rep. kit D2W board	5744171342

Material information

RoHS

This product is compliant with the requirements contained in the European Directives, RoHS Directive 2011/65 and 2015/863.

REACH candidate List

To the best of our knowledge and based on the information provided by our suppliers, the product does not contain more than 0.1 percent (in weight terms) of any deliberately added SVHCs.

Packaging

The product is packaged in a plastic bag with a cardboard. The packaging material can be easily sorted and treated in waste recycling channels. The packaged product is delivered on a returnable wooden pallet.

Recycled raw material

Cardboard is made from min. 65% recycled fiber mass. Additional cardboard material comes from an FSC approved sources.

The product is made of 15% GRS certified recycled plastic.

Recycling

We encourage everyone to take care of the product - even at the end of the product's lifetime. We also offer spare parts, so that we can extend the product lifetime even further.

The luminaires contain valuable materials. They therefore have to be decommissioned and dismantled for reuse of materials in other products.

This product is designed so that 100% of the product can be disassembled and reused.

Louis Poulsen is part of ELRETUR which ensures that electronic waste (WEEE) across of Europa is reused.

This product must be treated as electronic waste:

Material list

Positions number	Part description	Included substances and materials	Country of origin	Weight% (of the entire product)
A	Plastic parts	PC	CN - China	16,8%
B	Shade	PC	CN - China	16,7%
C	Metal part	Stainless steel	CN - China	4,4%
D	Metal parts	Zinc alloy	CN - China	4,7%
E	Silicone ring and sleeve	Silicon	CN - China	1,3%
F	Leather strap	Leather	CN - China	0,5%
G	PCB and LED	FR4	CN - China	2,73%
H	Battery pack	Battery	CN - China	6,9%
I	Screws	Stainless steel	CN - China	0,5%
J	Electrical wiring	Cord	CN - China	2,73%
K	Packaging	Cardboard	CN - China	42%
L	Non woven bag	PP	CN - China	0,7%
M	Desiccant	Silica	CN - China	0,4%
				100%

Life Cycle Screening

Background

Our carbon footprint is the total quantity of greenhouse gas (GHG) emissions associated with the full lifecycle of the product. This includes the impacts associated with raw materials and emissions from manufacturing (materials and resources), transport, in use (cleaning) impacts and impacts at end of life (reuse, recycling, incineration, landfill etc.).

Basis of calculation

This is calculated according to the EU Product Environmental Footprint and presented according to ISO 14067 (Carbon footprint of products).

EU Product Environmental Footprint (PEF)

The PEF methodology is a new standard, introduced by the European Commission.
The mission: to strengthen the (European) market for green alternatives and ensure that environmental impact is transparently assessed.

European Commission

Use stage

The product use stage is calculated for a lifetime of 15 years with 1,000 hours of use each year in Europa, as required by the reference in PEF.

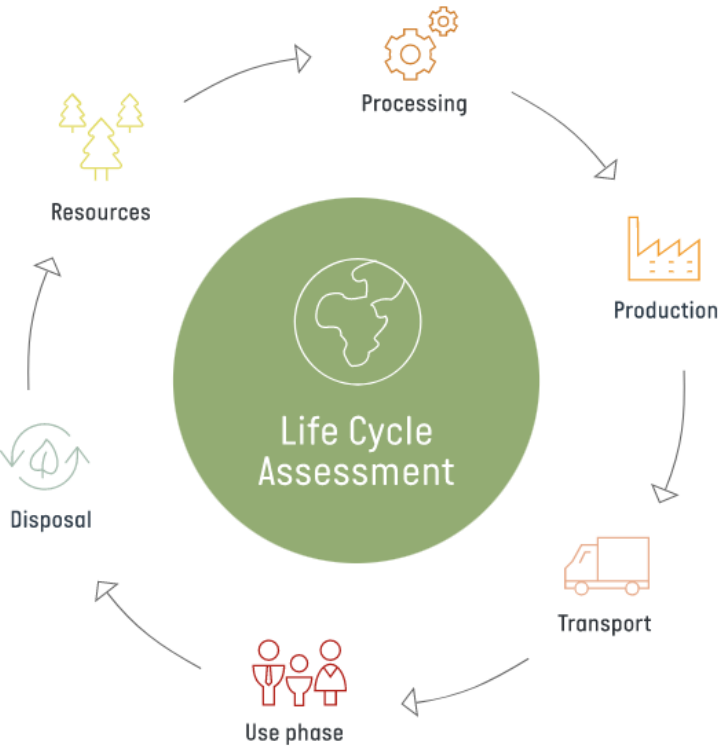
The electricity is based on the European energy mix, with data from: the European Environment Agency Greenhouse gas emission intensity of electricity generation.

Transport

1.200 km national or 3.500 km for export transport is calculated for the product from factory to end customer as required by the reference in PEF.

Uncertainties associated with these calculations

Calculation of emission levels is associated with uncertainty. This means that results may vary from actual levels. By using the PEF method, uncertainties are embedded in the Life Cycle Screening result using statistical methods.



Life Cycle Screening results

Product that has been calculated as a reference for the product family:

Tomoshi Portable Lamp, Dark Brown, III

Production of the product

Average climate emission:

22 KG CO2-e

Lower boundary: 20 CO2-e
Upper boundary: 29 CO2-e

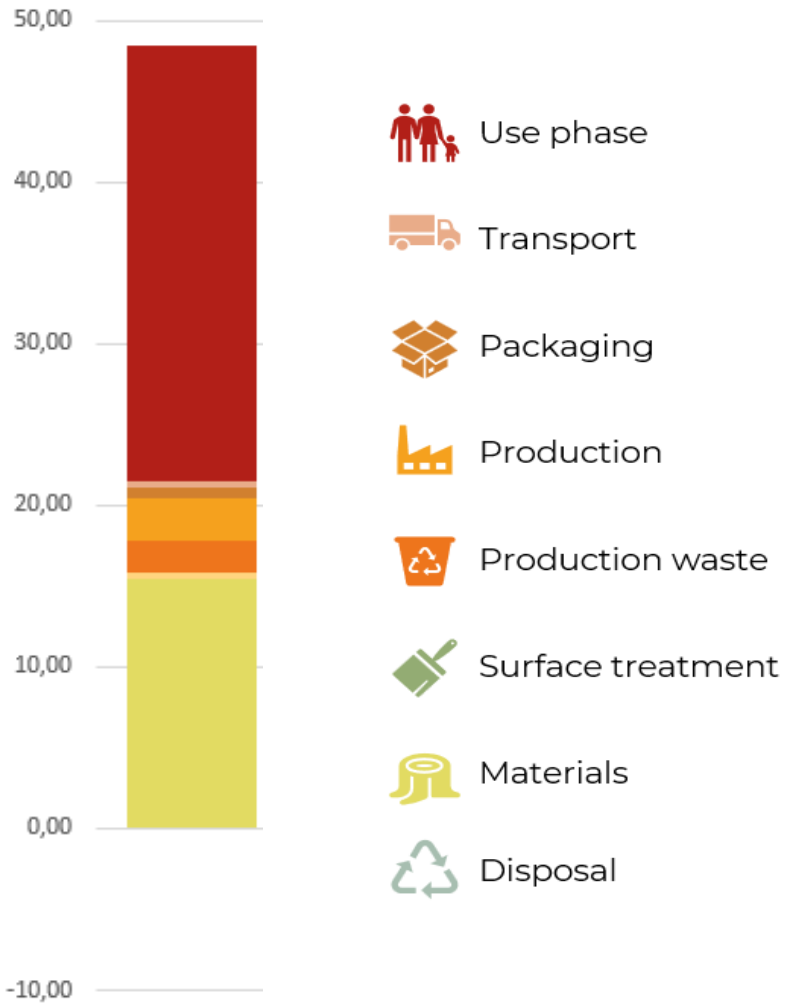
Production of the product and use stage

Average climate emission:

48 KG CO2-e

Lower boundary: 46 CO2-e
Upper boundary: 55 CO2-e

Carbon stages

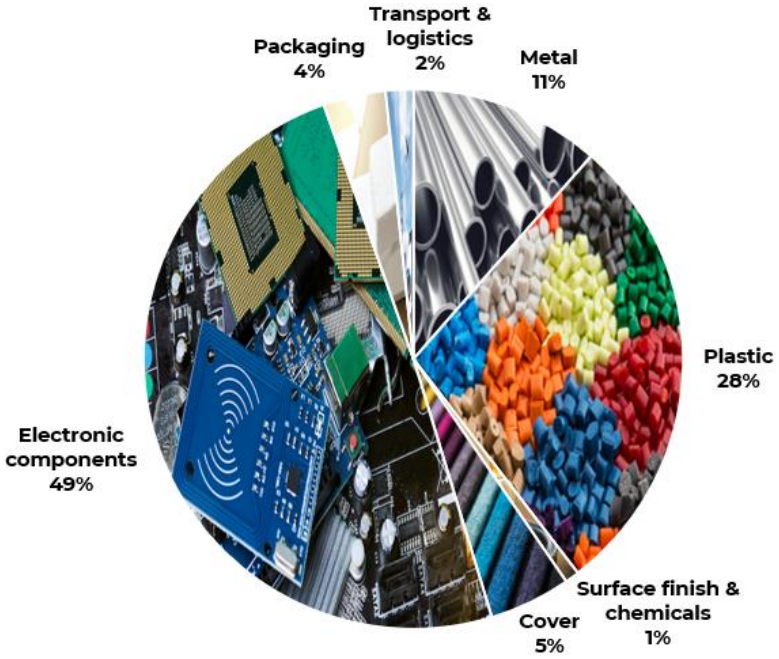


The carbon footprint has been calculated using Målbar version 2.9612; in accordance with the Product Environmental Footprint.
The carbon footprint has not been third-party verified. Only to be used for B2B, as comparing alternative results.
Comparing data across methodologies is likely to result in inaccurate representations.

Main emission sources *(pr material group)**

Main emission sources *(pr material group)* *

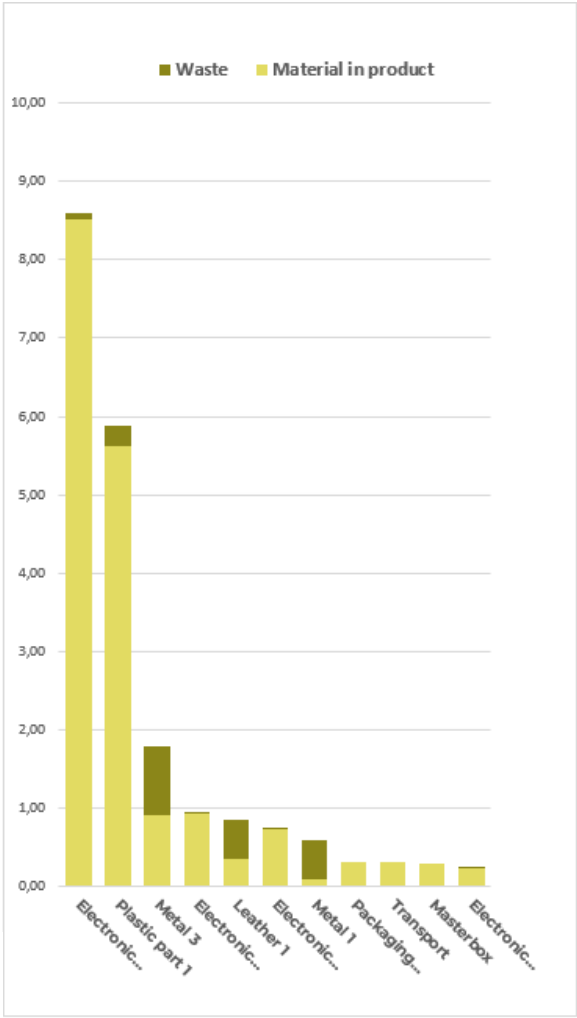
Group	Total impact		
Solid Wood	**0,00**	*kg CO2-e*	**0,0%**
Wood based board	**0,00**	*kg CO2-e*	**0,0%**
Metal	**2,45**	*kg CO2-e*	**11,4%**
Plastic	**6,03**	*kg CO2-e*	**28,1%**
Glass / Stone / Ceramics	**0,00**	*kg CO2-e*	**0,0%**
Surface finish & chemicals	**0,18**	*kg CO2-e*	**0,9%**
Upholstery	**0,00**	*kg CO2-e*	**0,0%**
Cover	**1,05**	*kg CO2-e*	**4,9%**
Electronic components	**10,57**	*kg CO2-e*	**49,3%**
Packaging	**0,80**	*kg CO2-e*	**3,7%**
Transport & logistics	**0,35**	*kg CO2-e*	**1,7%**



The values presented here represent total emissions per material group (incl. material, production, transport, waste, CO2e uptake)

Main emission sources *(pr element)**

Element	Material	Total impact	
Electronic component 3	Unspecified PCB surface mounted	**8,60**	*kg CO2-e*
Plastic part 1	Polycarbonate PC	**5,89**	*kg CO2-e*
Metal 3	Zink diecast	**1,79**	*kg CO2-e*
Electronic component 2	Rechargable battery, Li-ion	**0,94**	*kg CO2-e*
Leather 1	Leather for upholstery & automotive - 100% meat cattle	**0,85**	*kg CO2-e*
Electronic component 4	LED 3,5x3,5x2,0mm (59mg)	**0,75**	*kg CO2-e*
Metal 1	Stainless steel machined	**0,60**	*kg CO2-e*
Packaging materials 1	Corrugated cardboard box printed sustainable fiber	**0,32**	*kg CO2-e*
Transport	Total emission from transport - all steps	**0,31**	*kg CO2-e*
Masterbox	Corrugated cardboard box printed sustainable fiber	**0,30**	*kg CO2-e*
Electronic component 1	Electric cable (PE)	**0,24**	*kg CO2-e*



The values presented here represent total emissions per element (incl. material, production, transport, waste, CO2e uptake)