

louis poulsen



Environmental Product Specifications

— Keglen Pendant

Product description

- Cone shaped product in a large family of variants.
- Minimalistic design with distinct design details.
- Four dimension (bottom diameter).



Product info

Mounting

Suspension type: Cable and wire, 2x0,75mm²
Canopy: Yes. Cable length: 4m.

Finish

Black or white, matt, wet painted.

Light source

LED 2700K 5.5W, Lumen: 276.

Sizes and weights

Width x Height x Length (mm)

400 x 270 x 400 Max 4.9 kg

175 x 134 x 175 Max 2.4 kg

250 x 270 x 250 Max 3.7 kg

650 x 270 x 650 Max 6.6 kg

Class

Ingress protection IP20. Electric shock protection I.

Product family



Keglen Wall



Keglen Table



Keglen Floor

Product variants

Dimension	Colour	Cable type	Light source	Lumen	Lighting control
Ø 175	● Black	Blk tex/wire	LED 2700K 21W	1195	Dali
Ø 250	○ White	Wht tex/wire	LED 2700K 31W	1231	Phase dimming (mains dimm)
Ø 400			LED 2700K 5.5W	1357	
Ø 650			LED 2700K 8W	1398	
			LED 3000K 21W	2035	
			LED 3000K 31W	2104	
			LED 3000K 5.5W	2180	
			LED 3000K 8W	2254	
				276	
				287	
				360	
				371	
				381	
				390	
				462	
				472	

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 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 fibre mass. Additional cardboard material comes from an FSC approved sources.

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	Aluminium parts	Machined aluminium	DK – Denmark	6,7%
A	Painting	Powder coating	AT – Austria	0,4%
B	Screws	Stainless steel	CN – China	0,9%
C	Wire gripper	Machined stainless steel	DE – Germany	0,1%
D	Terminals	Variety of components	DE – Germany	0,2%
E	Strain relief	PP	NO – Norway	0,0%
F	Driver	Variety of components	US – United States	1,8%
G	Nuts and washers	Machined stainless steel	CN – China	0,1%
H	Grommet	PE	DK – Denmark	0,0%
I	Stud tab	Tin plated brass	US – United States	0,0%
J	Electrical wiring	Variety of components	IT – Italy	1,1%
J	Tin solder	Tin	DK – Denmark	0,0%
K	Pendant 400 BLK	Machined aluminium	CN – China	83,5%
L	LED Board	Variety of components	CN – China	1,7%
M	Labels and instructions	Paper	DK – Denmark	0,3%
N	Packaging	Corrugated cardboard	DK – Denmark	2,0%
O	Inserts	Corrugated cardboard	DK - Denmark	1,0%
				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.



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:

Keglén Pendant, Ø400, Black, LED 2700K, 21W

Production of the product

Average climate emission:

100 KG CO₂-e

Lower boundary: 3,1 CO₂-e

Upper boundary: 530 CO₂-e

Production of the product and use stage

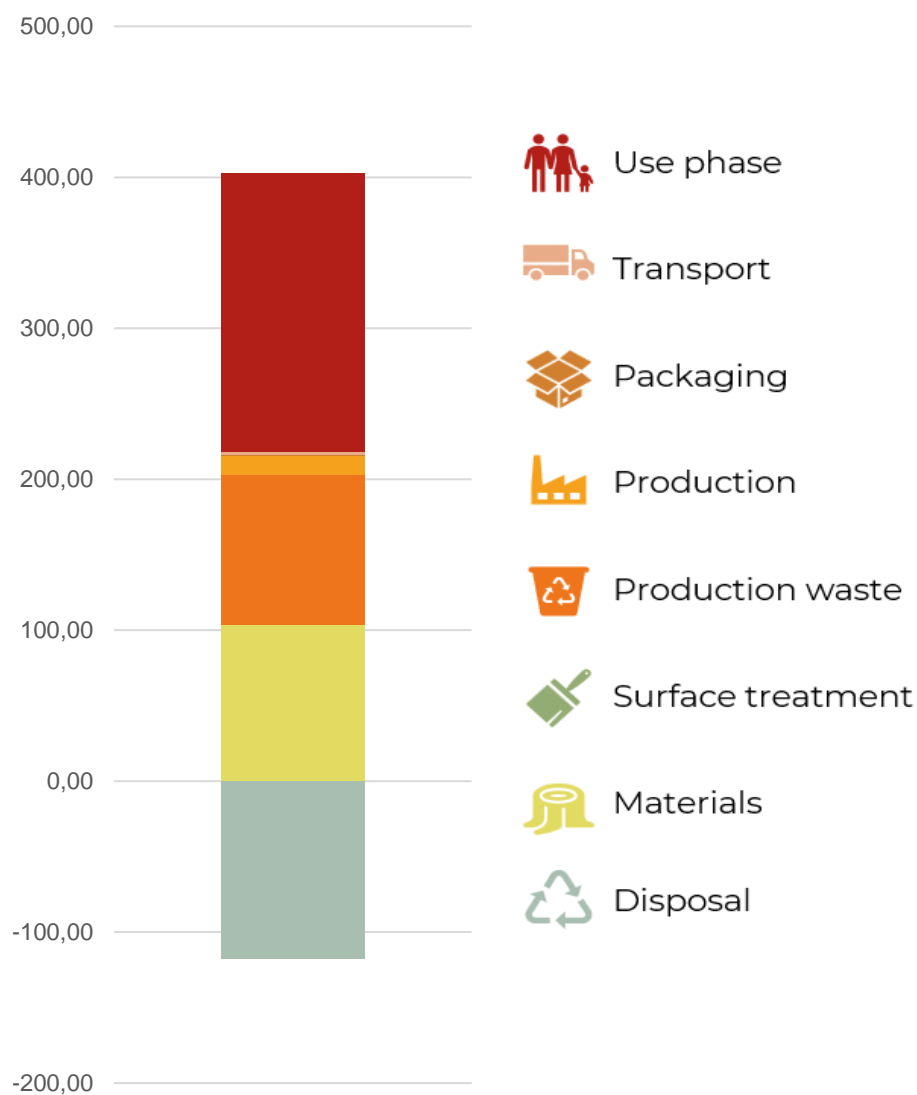
Average climate emission:

290 KG CO₂-e

Lower boundary: 180 CO₂-e

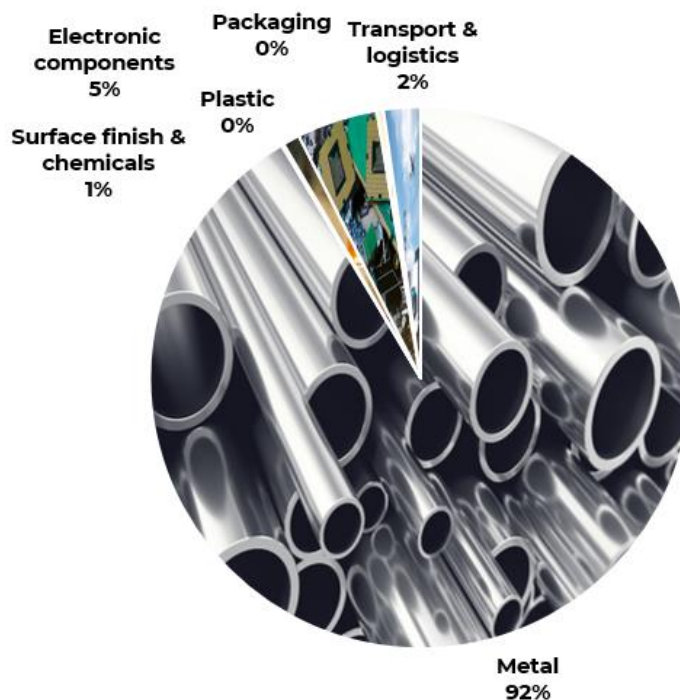
Upper boundary: 710 CO₂-e

Carbon stages



Main emission sources (pr material group)*

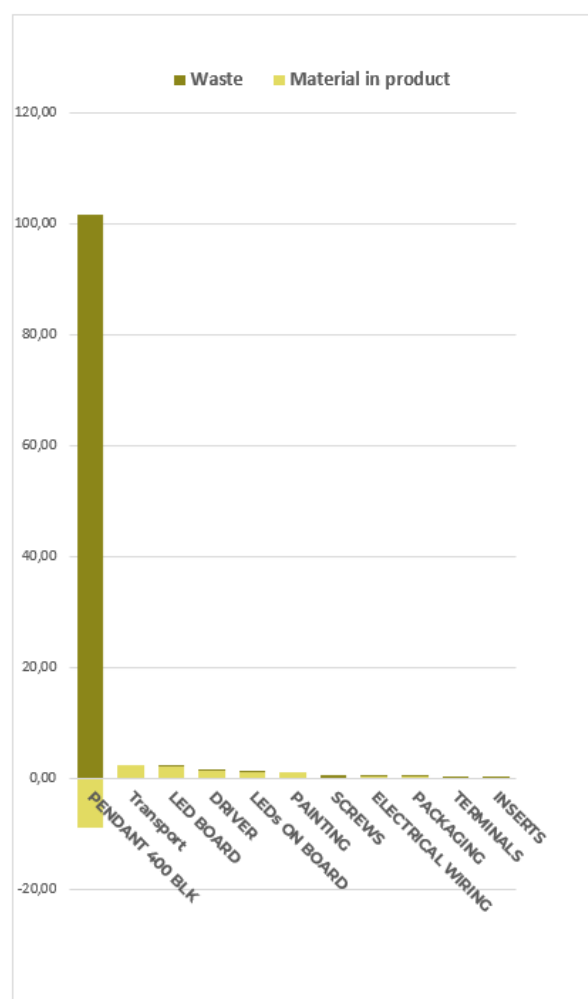
Group	Total impact		
Solid Wood	0,00	kg CO2-e	0,0%
Wood based board	0,00	kg CO2-e	0,0%
Metal	91,91	kg CO2-e	91,4%
Plastic	0,14	kg CO2-e	0,1%
Glass / Stone / Ceramics	0,00	kg CO2-e	0,0%
Surface finish & chemicals	1,02	kg CO2-e	1,0%
Upholstery	0,00	kg CO2-e	0,0%
Cover	0,00	kg CO2-e	0,0%
Electronic components	4,86	kg CO2-e	4,8%
Packaging	0,40	kg CO2-e	0,4%
Transport & logistics	2,20	kg CO2-e	2,2%



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
PENDANT 400 BLK	Alu. Machined	92,68 kg CO2-e
Transport	Total emission from transport - all steps	2,20 kg CO2-e
LED BOARD	1 layer aluminium (1,6mm thickness) PCB surface mount	2,05 kg CO2-e
DRIVER	Power supply with cables + connectors	1,30 kg CO2-e
LEDs ON BOARD	LED 3,5x3,5x2,0mm (59mg)	1,12 kg CO2-e
PAINTING	Or kg powder consumed	1,02 kg CO2-e
SCREWS	Stainless steel screws/bolts	0,41 kg CO2-e
ELECTRICAL WIRING	Electric cable (PVC)	0,39 kg CO2-e
PACKAGING	Corrugated cardboard box printed sustainable fiber	0,23 kg CO2-e
TERMINALS	Polycarbonate PC	0,13 kg CO2-e
INSERTS	Corrugated cardboard box	0,12 kg CO2-e



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

Waste)