

louis poulsen



Environmental Product Specifications

— VL Ring Crown 1

Product description

- The pendant emits light directed primarily downwards.
- The opal glass provides a comfortable and uniform illumination of the area around the fixture.



Product info

Mounting

Depends on the variant

Finish

Glossy, mouthblown white opal glass. Satin polished brass, untreated.

Light source

1x40W E27.

Sizes and weights

Width x Height x Length (mm)
190 x 342 x 190 Max 1.2 kg

Class

Ingress protection IP20. Electric shock protection II w/o ground.

Product family



VL Ring Crown 3-5-7



VL Ring Crown Wall

Product variants

Light source

1x40W E27

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.

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	Glass	Glass	IT - Italy	40,7%
B	Plastic parts	PBT	DK - Denmark	3,4%
C	Brass parts	Machined brass	TW - Taiwan	5,1%
D	Grommet	ABS	DK - Denmark	0,2%
E	Nuts	Machined stainless steel	CN - China	0,1%
E	Screws	Stainless steel	CN - China	0,3%
E	Strain relief	PA	NO - Norway	0,0%
E	Canopy	PC	DK - Denmark	2,2%
E	Terminal helag	Variety of components	DK - Denmark	0,3%
F	Relief screw	POM	DK - Denmark	0,1%
G	Socket	Variety of components	IT - Italy	2,1%
H	Electrical wiring	Variety of compnents	IT - Italy	2,9%
I	Cotton gloves	Cotton	PK - Pakistan	1,1%
J	Fiber cloth	PE/PA	CN - China	1,9%
K	Dry bag	PE	DK - Denmark	1,2%
L	Labels and instructions	Paper	DK - Denmark	1,4%
M	Packaging	Corrugated cardboard	DK - Denmark	21,6%
N	Inserts	Corrugated cardboard	DK - Denmark	14,6%
O	Plastic bag	LDPE	LT - Lithuania	0,7%
				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:

VL RING CROWN 1, 1X40W E27.

Production of the product

Average climate emission:

29 KG CO₂-e

Lower boundary: 25 CO₂-e

Upper boundary: 32 CO₂-e

Production of the product and use stage

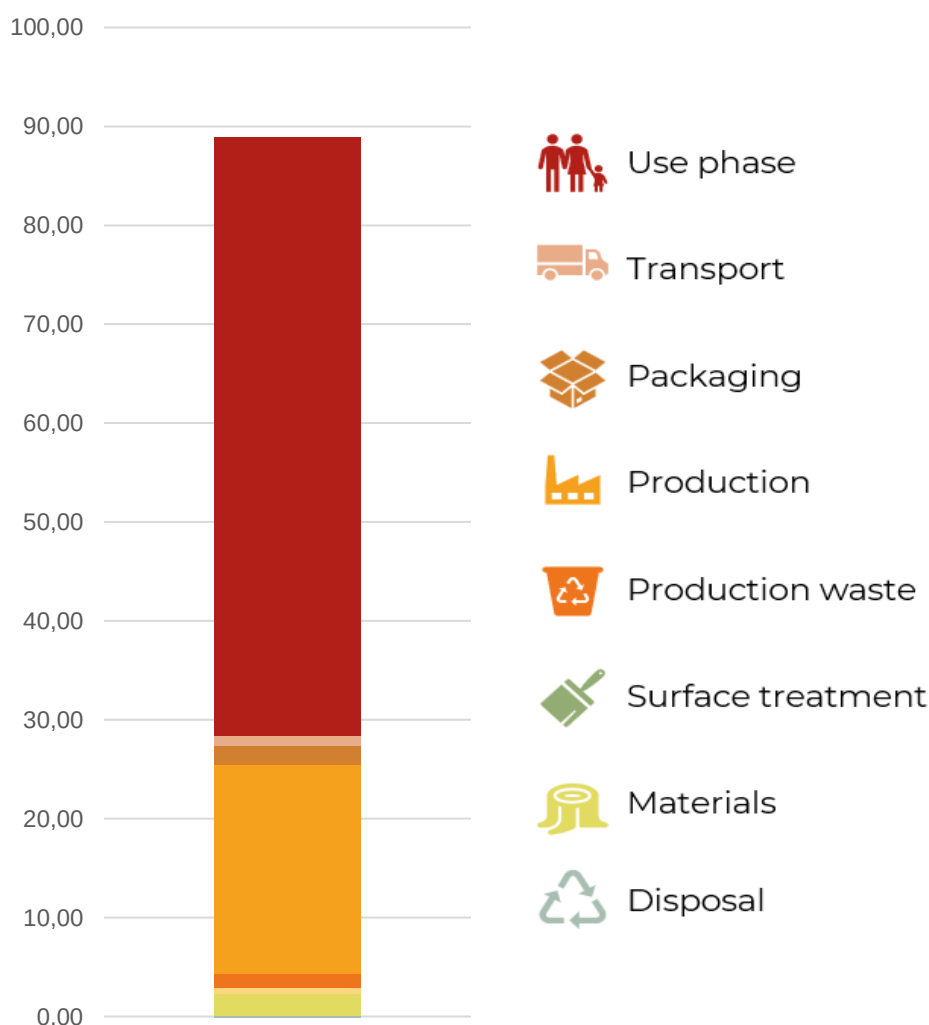
Average climate emission:

90 KG CO₂-e

Lower boundary: 85 CO₂-e

Upper boundary: 90 CO₂-e

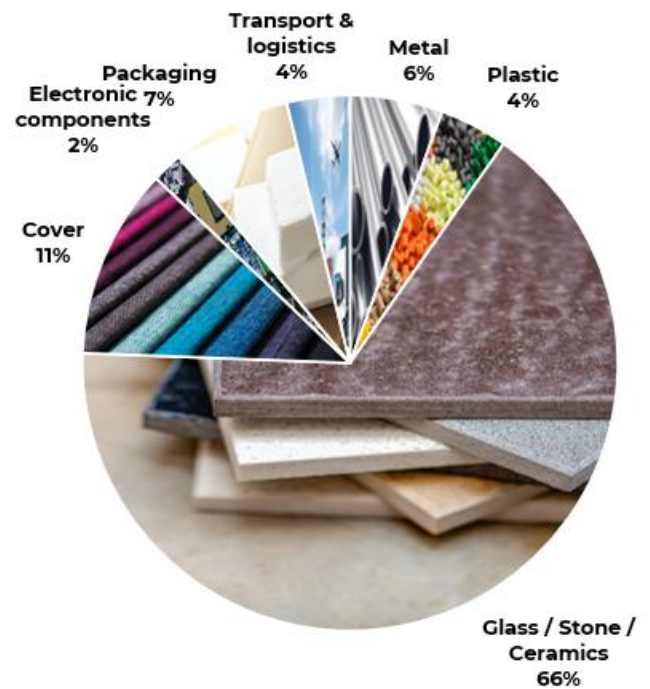
Carbon stages



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)*

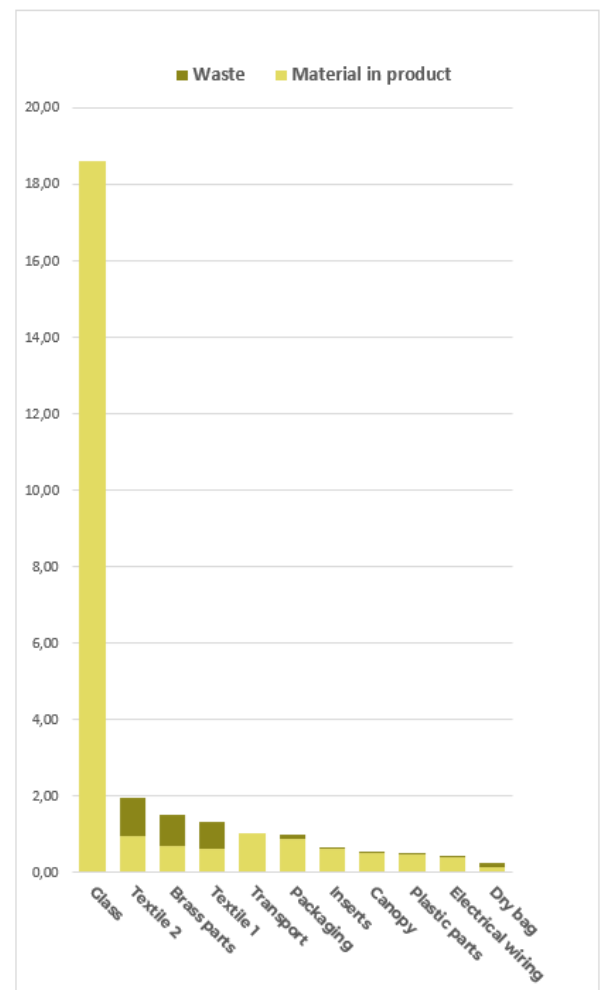
Group	Total impact		
Solid Wood	0,00	kg CO2-e	0,0%
Wood based board	0,00	kg CO2-e	0,0%
Metal	1,58	kg CO2-e	5,6%
Plastic	1,17	kg CO2-e	4,1%
Glass / Stone / Ceramics	18,62	kg CO2-e	65,8%
Surface finish & chemicals	0,00	kg CO2-e	0,0%
Upholstery	0,00	kg CO2-e	0,0%
Cover	3,26	kg CO2-e	11,5%
Electronic components	0,53	kg CO2-e	1,9%
Packaging	2,04	kg CO2-e	7,2%
Transport & logistics	1,08	kg CO2-e	3,8%



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
Glass	Virgin glass hand made	18,62 kg CO2-e
Textile 2	Polyamide (PA), Polyester nonwoven, Area of cover,	1,94 kg CO2-e
Brass parts	Brass machined	1,50 kg CO2-e
Textile 1	Cotton	1,32 kg CO2-e
Transport	Total emission from transport - all steps	1,02 kg CO2-e
Packaging	Corrugated cardboard box printed sustainable fiber Corrugated cardboard inlay sustainable	0,98 kg CO2-e
Inserts		0,66 kg CO2-e
Canopy	Polycarbonate PC	0,55 kg CO2-e
Plastic parts	Polyester (PETa)	0,48 kg CO2-e
Electrical wiring	Electric cable (PVC)	0,40 kg CO2-e
Dry bag	Foamed polyethylene (PE-LD)	0,26 kg CO2-e



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