louis poulsen



Environmental Product Specifications

— Cirque

Product description

- The fixture provides a downward glare-free soft light by means of the white lacquered inner reflector.
- CIRQUE is a play between colours and forms inspired by balloons, carrousels, colours and light.
- The idea to the colour rankings comes from the experience of colours in circular motions where they often are perceived as continuous lines.
- The shape is inspired by the well-known onion shaped domes on several of the buildings in the TIVOLI garden.





Product info

Mounting

Depends on the variant

Finish

Grey top, Copper top, Red top, Yellow top, wet painted.

Light source

1x25W E27.

Sizes and weights

Width x Height x Length (mm)
220 x 295 x 220 Max 1.6 kg
380 x 478 x 380 Max 3.9 kg
150 x 189 x 150 Max 1.1 kg

Class

Ingress protection IP20. Electric shock protection II wo. ground.

Product variants

Dimension	Colour	Light source
Ø 150	Copper top	1x25W E27
Ø 220	Grey top	1x40W E27
Ø 380	Red top	1x60W E27
	Yellow top	

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	Plastic parts	PC	DK - Denmark	**2,5%**
B	Screws	Stainless steel	CN - China	**0,3%**
C	Insulation cap	Variety of components	DE - Germany	**0,2%**
D	Socket	PET	IT - Italy	**0,8%**
E	Glue	Glue	SE - Sweden	**0,0%**
F	Aluminium parts	Machined aluminium	CN - China	**63,5%**
G	Grommet	TPE	DK - Denmark	**0,0%**
H	Terminal open	Variety of components	DK - Denmark	**0,3%**
I	Nuts	Machined stainless steel	CN - China	**0,1%**
J	Plastic parts	PA	NO - Norway	**0,1%**
K	Suspension	PBTP	DK - Denmark	**0,3%**
L	Electrical wiring	Variety of components	IT - Italy	**9,5%**
M	Labels and instructions	Paper	DK - Denmark	**0,3%**
N	Packaging	Corrugated cardboard	DK - Denmark	**16,8%**
O	Insert	Corrugated cardboard	DK - Denmark	**4,8%**
P	Bubble-film	LDPE	BE - Belgium	**0,3%**
				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.

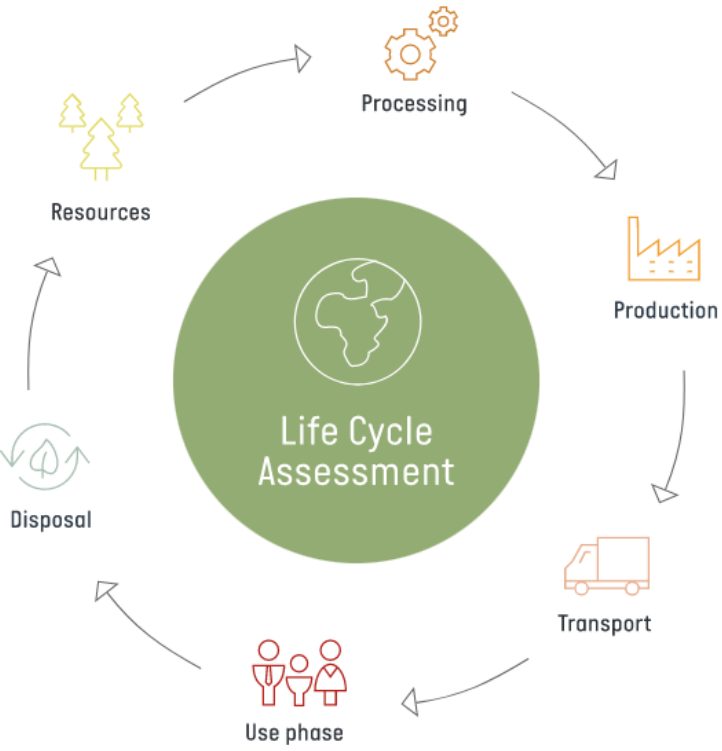
The electricity is based on the European energy mix, with data from: the European Environment Agency Greenhouse gas emission intensity of electricity generation.

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:

CIRQUE, Ø220, GREY TOP, 1X40W E27.

Production of the product

Average climate emission:

33 KG CO2-e

Lower boundary: 3,9 CO2-e
Upper boundary: 150 CO2-e

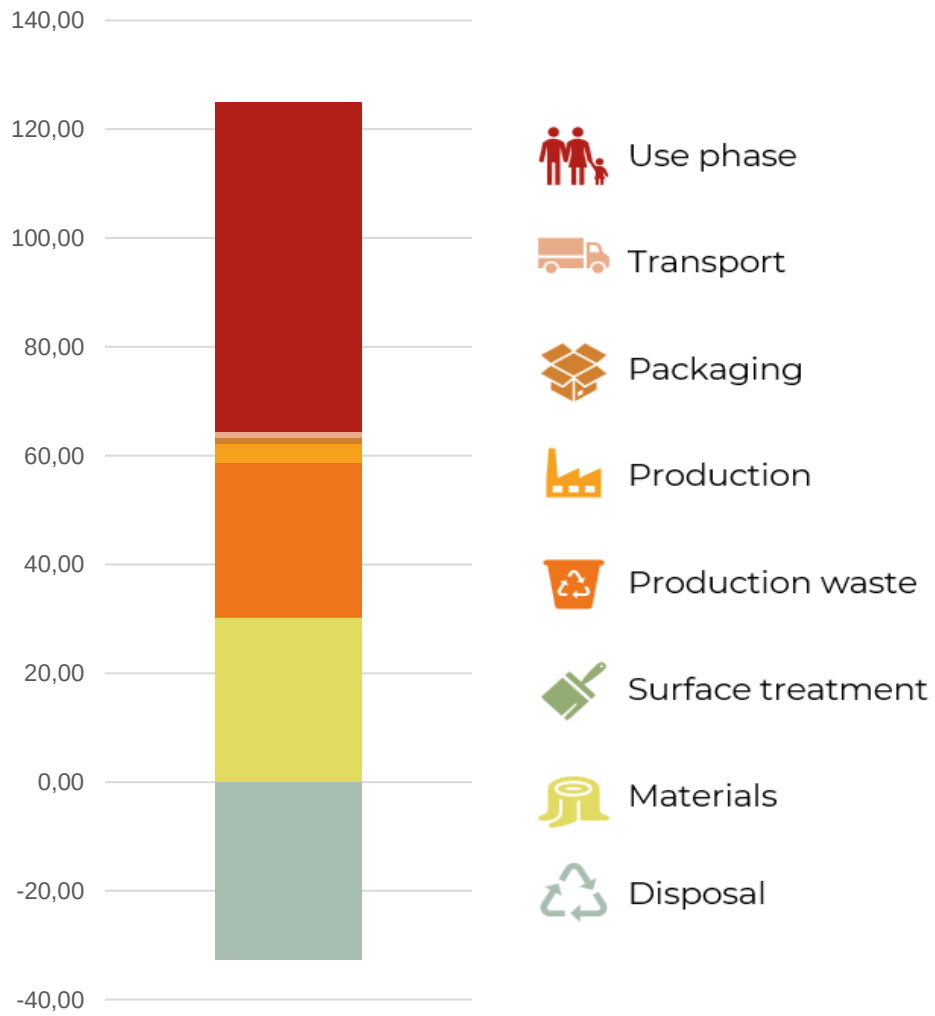
Production of the product and use stage

Average climate emission:

90 KG CO2-e

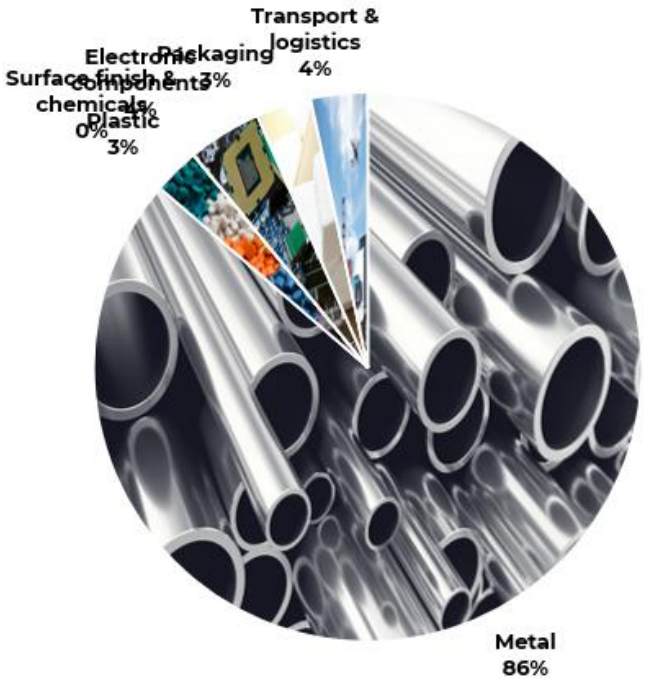
Lower boundary: 65 CO2-e
Upper boundary: 210 CO2-e

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.

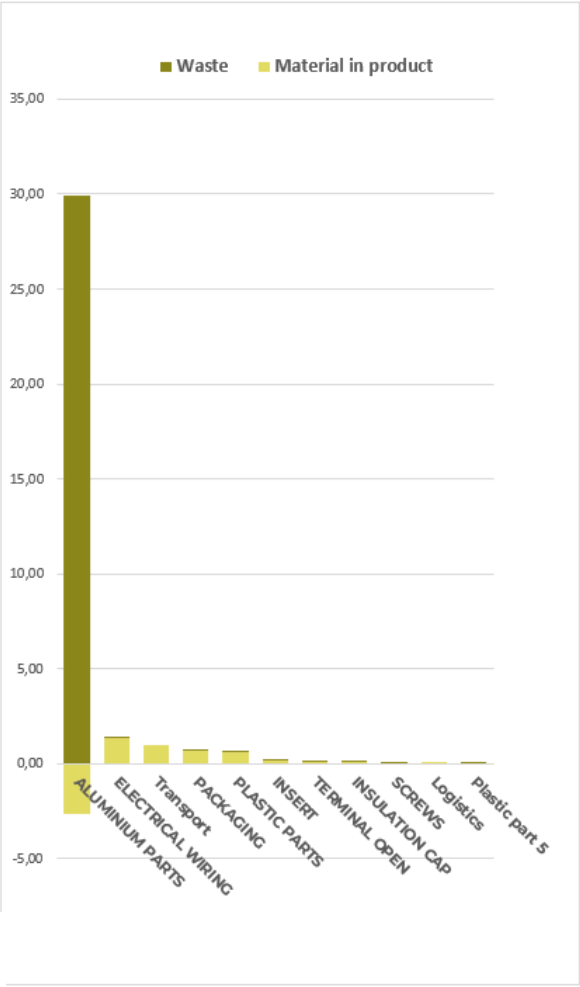
Main emission sources *(pr material group)**



Group	Total impact		
Solid Wood	**0,00**	*kg CO2-e*	**0,0%**
Wood based board	**0,00**	*kg CO2-e*	**0,0%**
Metal	**27,33**	*kg CO2-e*	**86,3%**
Plastic	**0,87**	*kg CO2-e*	**2,7%**
Glass / Stone / Ceramics	**0,00**	*kg CO2-e*	**0,0%**
Surface finish & chemicals	**0,01**	*kg CO2-e*	**0,0%**
Upholstery	**0,00**	*kg CO2-e*	**0,0%**
Cover	**0,00**	*kg CO2-e*	**0,0%**
Electronic components	**1,37**	*kg CO2-e*	**4,3%**
Packaging	**1,03**	*kg CO2-e*	**3,2%**
Transport & logistics	**1,06**	*kg CO2-e*	**3,3%**

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	
ALUMINIUM PARTS	Alu. machined	**27,25**	*kg CO2-e*
ELECTRICAL WIRING	Electric cable (PVC)	**1,33**	*kg CO2-e*
Transport	Total emission from transport - all steps	**1,01**	*kg CO2-e*
PACKAGING	Corrugated cardboard box printed sustainable fiber	**0,76**	*kg CO2-e*
PLASTIC PARTS	Polycarbonate PC	**0,63**	*kg CO2-e*
INSERT	Corrugated cardboard inlay sustainable	**0,22**	*kg CO2-e*
TERMINAL OPEN	Polyamide (PA6)	**0,09**	*kg CO2-e*
INSULATION CAP	Polyamide (PA6)	**0,06**	*kg CO2-e*
SCREWS	Stainless steel screws/bolts	**0,06**	*kg CO2-e*
Logistics	Total emission from warehouse + own retail	**0,05**	*kg CO2-e*
Plastic part 5	Polyester (PETa)	**0,05**	*kg CO2-e*

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