

louis poulsen



Environmental Product Specifications

— PH 80 Table

Product description

- Designed in 1974, the PH 80 is based on Poul Henningsen's iconic three-shade system.
- The shades follow the principles of the logarithmic spiral to provide glare-free and balanced light.
- Furthermore, the shades are made of opal acrylic, which offer a visual freshness and diffusing the light softly.
- The distinctive red reflector at the top emits a warm and atmospheric glow.
- The lamp's stand is made in high-gloss chrome-plated steel.
- The white version with its white top reflector, top plate and stand adds a minimalist look to the PH 80 series.



Product info

Mounting

Cord: Plastic and textile cord with plug.

Dimming: On/off switch or dimmer on the cable.

Finish

White opal acrylic shades. High-luster chrome-plated stand with textured black base. Black stand with smooth black base. White stand with smooth white base.

Light source

1x7,5W E14.

Sizes and weights

Width x Height x Length (mm)
320 x 405 x 320 Max 1,5 kg

Class

Ingress protection IP20. Electric shock protection II.

Product variants

Colour	Lightsource	Cord type
Opal white/white	1x7,5 W E14	White Cord
Opal white/high lustre crom plated	1x7,5 W E14	Black Cord

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

Part description	Included substances and materials	Country of origin	Weight in gram	Weight% (of the entire product)
Top cover, top cone and socket holder	Die casted zinc	CN - China	338	9,5
Flat ring, base bottom and base top	Casted Aluminium	CN - China	316	8,9
Threaded rod and stem	Machined stainless steel	CN - China	164	4,6
Screw cover	PP	CN - China	1	0,0
Cord pressing part and terminal	PA66	CN - China	4	0,1
Top, middle and lower shade	PMMA	CN - China	367	10,4
Outer diffuser, shade holder and leg	PC	CN - China	70	2,0
Rubber pad and protective part	Silicone rubber resin	CN - China	20	0,6
Screws and nuts	Machined stainless steel	CN - China	6	0,2
Screws	Machined steel	CN - China	4	0,1
Fixing ring	Machined steel	CN - China	13	0,4
E14 bulb holder	LED light bulb for E14 socket	CN - China	80	2,3
Internal cable	Electronic cable (PE)	CN - China	11	0,3
Cord with switch and EU plug	Electronic cable (PVC)	CN - China	160	4,5
Instructions	Paper	CN - China	43	1,2
Packaging	Corrugated cardboard	CN - China	710	20,0
Inner box	Corrugated cardboard	CN - China	714	20,1
Honey comb paper and paper board inlay	Corrugated cardboard	CN - China	528	14,9
Non-woven bag	LDPE	CN - China	54	1,5
Silica	Silica	CN - China	6	0,2
			3545 g	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.

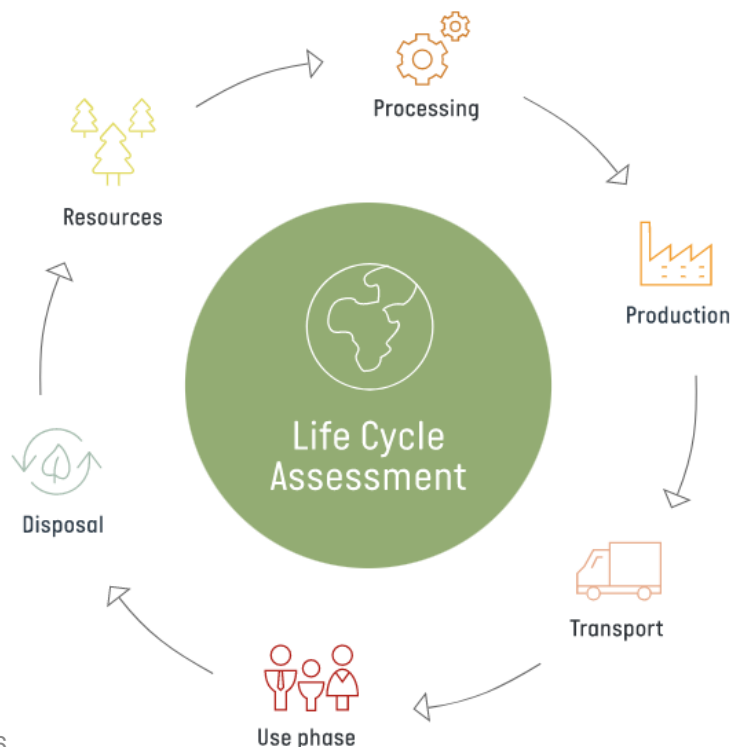
The electricity is based on the European energy mix, with data from: the European Environment Agency Greenhouse gas emission intensity of electricity generation.

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:

PH 80, OPAL WHITE/WHITE, 7W, W/ON/OFF SWITCH.

Production of the product

Average climate emission:

38 KG CO₂-e

Lower boundary: 32 CO₂-e

Upper boundary: 41 CO₂-e

Production of the product and use stage

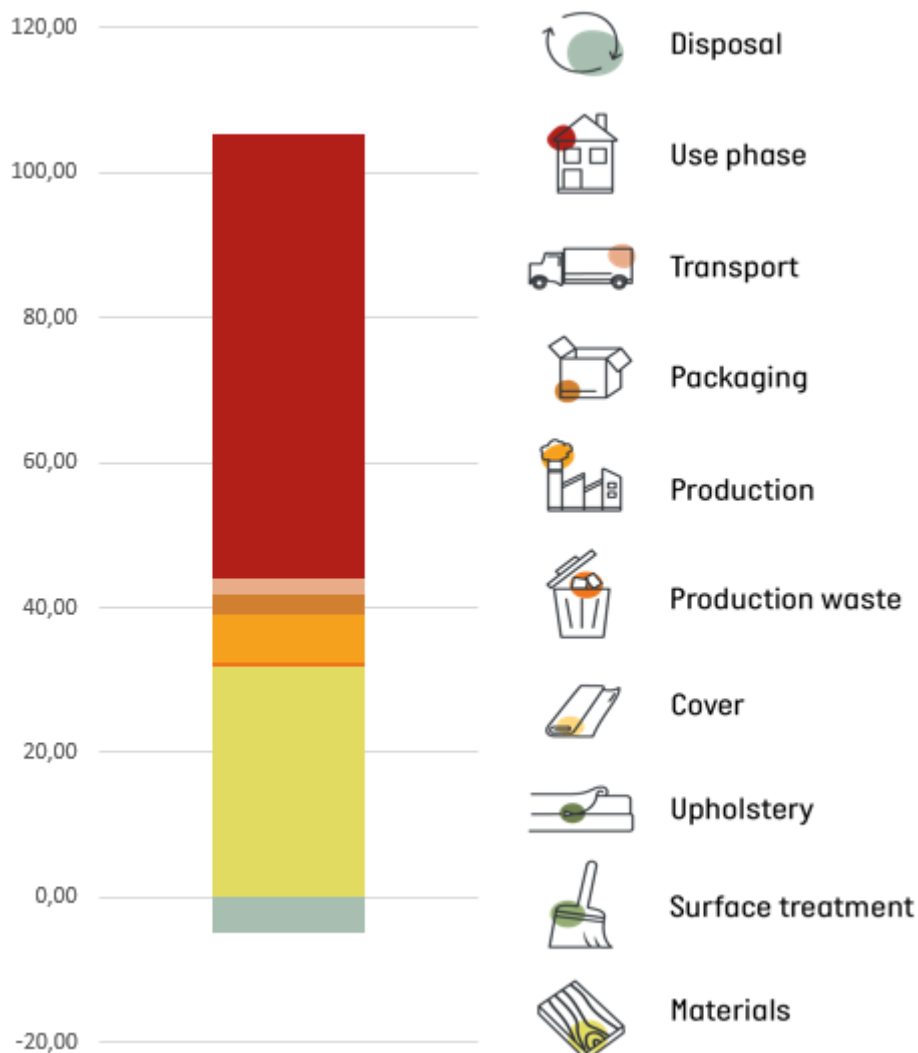
Average climate emission:

100 KG CO₂-e

Lower boundary: 95 CO₂-e

Upper boundary: 100 CO₂-e

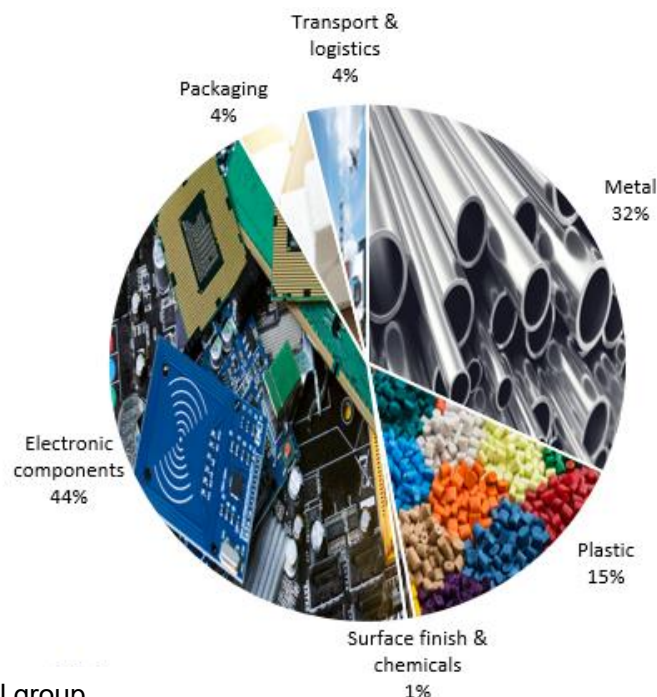
Carbon stages



The carbon footprint has been calculated using Málbar version 2.9703; 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)*

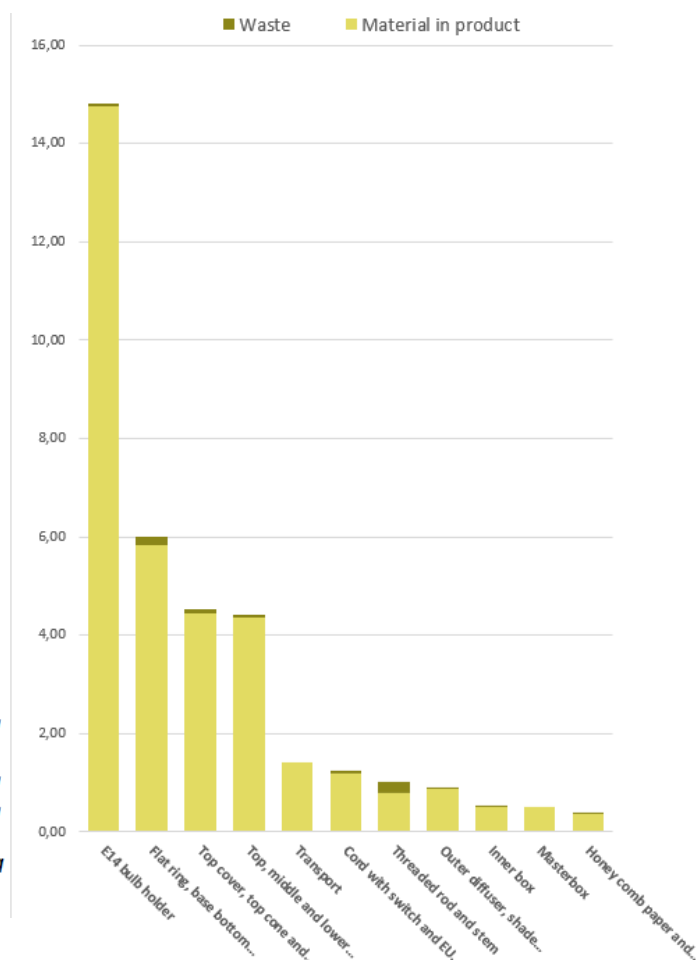
Group	Total impact	
Solid Wood	0,0 kg CO ₂ eq	0,0%
Wood based board	0,0 kg CO ₂ eq	0,0%
Metal	11,7 kg CO ₂ eq	31,9%
Plastic	5,6 kg CO ₂ eq	15,2%
Glass / Stone / Ceramics	0,0 kg CO ₂ eq	0,0%
Surface finish & chemicals	0,2 kg CO ₂ eq	0,5%
Upholstery	0,0 kg CO ₂ eq	0,0%
Cover	0,0 kg CO ₂ eq	0,0%
Electronic components	16,1 kg CO ₂ eq	44,1%
Packaging	1,6 kg CO ₂ eq	4,4%
Transport & logistics	1,4 kg CO ₂ eq	3,9%



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

Main emission sources (pr element)*

Element		
E14 bulb holder	LED light bulb for E14 socket	14,8 kg CO ₂ eq
Flat ring, base bottom and base top	Alu. cast	6,0 kg CO ₂ eq
Top cover, top cone and Socket holder	Zink diecast	4,5 kg CO ₂ eq
Top, middle and lower shade	Acrylic (PMMA)	4,4 kg CO ₂ eq
Transport	Total emission from transport - all steps	1,4 kg CO ₂ eq
Cord with switch and EU plug	Electric cable (PVC)	1,2 kg CO ₂ eq
Threaded rod and stem	Stainless steel machined	1,0 kg CO ₂ eq
Outer diffuser, shade holder and leg	Polycarbonate PC	0,9 kg CO ₂ eq
Inner box	Corrugated cardboard box printed sustainable fiber	0,52 kg CO ₂ eq
Masterbox	Corrugated cardboard box printed sustainable fiber	0,51 kg CO ₂ eq
board	Corrugated cardboard inlay sustainable	0,38 kg CO ₂ eq
Total impact from Waste		1,23 kg CO ₂ eq



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