

louis poulsen



Environmental Product Specifications

— PH 80 Portable

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

Depends on the variant

Finish

Black and red painted aluminium and high lustre chrome.

Or White painted matt and polish matt aluminium

Sizes and weights

Width x Height x Length (mm)

230 x 295 x 230 Max 1,7 kg

Class

Ingress protection IP44. Electric shock protection III.

Light source

LED 3 W

Product family



Panthella 160 Portable Lampe



Panthella 250 Portable Lampe



Tomoshi Portable Lampe



VL 45 Radiohus Portable Lampe

Product variants

Colour	Lightsource	Lumen
Opal white/white	LED 3 W	100% = 240 lm, 50% = 135 lm, 20% = 55 lm, 5% = 12 lm
Opal white/high lustre crom plated	LED 3 W	100% = 174 lm, 50% = 100 lm, 20% = 41 lm, 5% = 9 lm

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 and protected by a cardboard. The packaging materials 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 heat sink	Zink die-casted	CN - China	186	9%
Base bottom and base top	Alu. casted	CN - China	148	7%
Batteries	Li-ion	CN - China	102	5%
Shades	PAMMA	CN - China	169	8%
Diffusers, shade holder, leg and inner part of base	PC	CN - China	59	3%
Treaded rod and stem	Stainless steel machined	CN - China	87	4%
LED board	LED 3,5 x 3,5 x 2,0 mm	CN - China	28	1%
Cables	Electric cables (PVC)	CN - China	50	2%
Packaging	Corrugated cardboard	CN - China	1101	52%
Non-woven bag	Polyester	CN - China	30	1%
Other	Smaller objects	CN – China	84,2	8%
			2044,2 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:

LED 2700, 4W

Production of the product

Average climate emission:

17 KG CO2-e

Lower boundary: 14 CO2-e
Upper boundary: 18 CO2-e

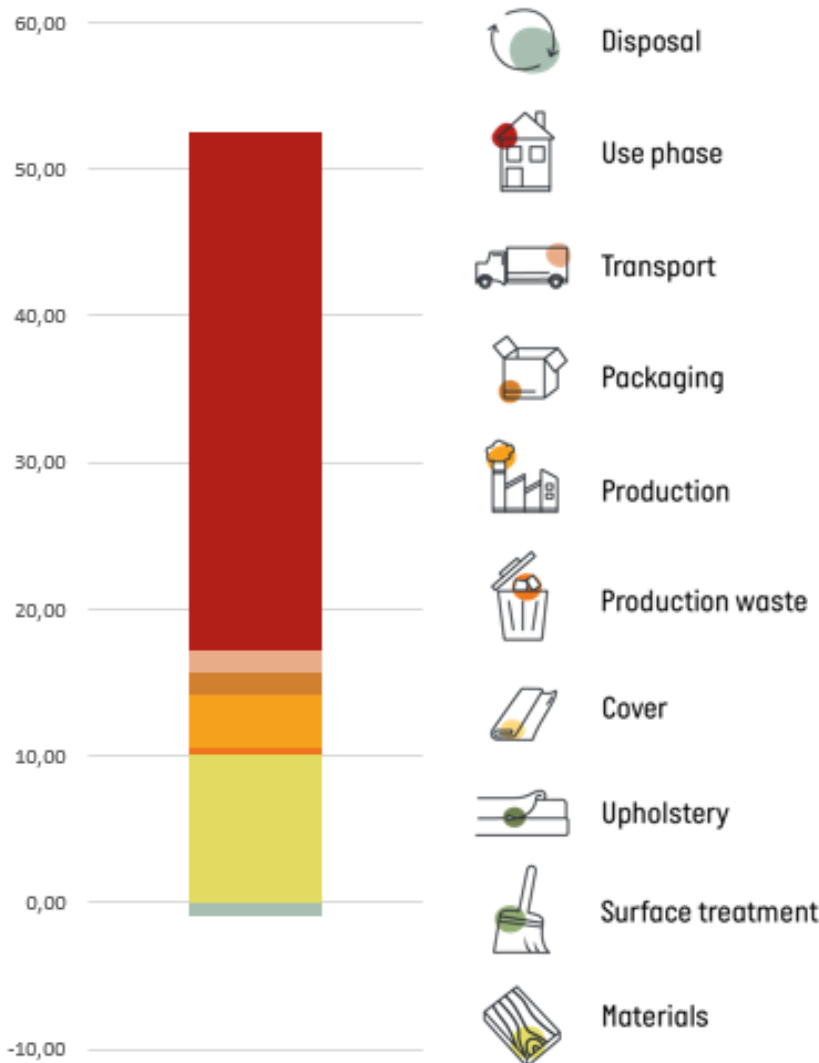
Production of the product and use stage

Average climate emission:

50 KG CO2-e

Lower boundary: 48 CO2-e
Upper boundary: 55 CO2-e

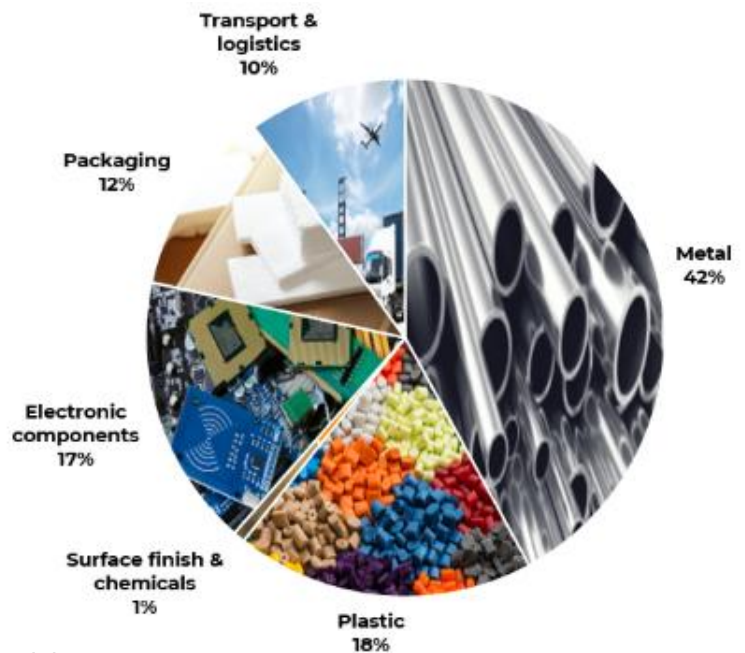
Carbon stages



The carbon footprint has been calculated using Málbar 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)*

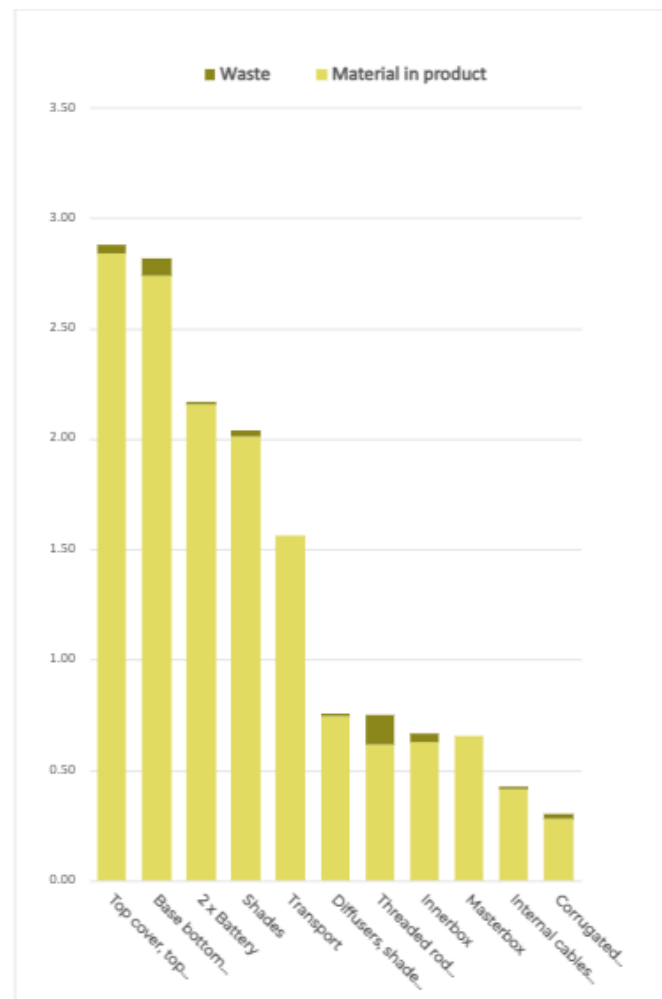
Group	Total impact			
Solid Wood	0.00	kg CO ₂ -e	0.0%	✓
Wood based board	0.00	kg CO ₂ -e	0.0%	✓
Metal	6.63	kg CO ₂ -e	42.1%	
Plastic	2.94	kg CO ₂ -e	18.6%	✓
Glass / Stone / Ceramics	0.00	kg CO ₂ -e	0.0%	✓
Surface finish & chemicals	0.11	kg CO ₂ -e	0.7%	✓
Upholstery	0.00	kg CO ₂ -e	0.0%	✓
Cover	0.00	kg CO ₂ -e	0.0%	
Electronic components	2.68	kg CO ₂ -e	17.0%	
Packaging	1.84	kg CO ₂ -e	11.7%	
Transport & logistics	1.56	kg CO ₂ -e	9.9%	



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
Top cover, top cone and heat sink	Zink diecast	2.88 kg CO ₂ -e
Base bottom and base top	Alu. cast	2.82 kg CO ₂ -e
2 x Battery	Rechargeable battery, Li-ion	2.17 kg CO ₂ -e
Shades	Acrylic (PMMA)	2.04 kg CO ₂ -e
Transport	Total emission from transport - all steps	1.56 kg CO ₂ -e
Diffusers, shade holder, leg and inner part of base	Polycarbonate PC	0.76 kg CO ₂ -e
Threaded rod and stem	Stainless steel machined	0.75 kg CO ₂ -e
Innerbox	Corrugated cardboard box printed sustainable fiber	0.67 kg CO ₂ -e
Masterbox	Corrugated cardboard box printed sustainable fiber	0.66 kg CO ₂ -e
Internal cables and charging cable	Electric cable (PVC)	0.43 kg CO ₂ -e
Corrugated cardboard	sustainable	0.30 kg CO ₂ -e
Total impact from Waste		1.31 kg CO ₂ -e



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