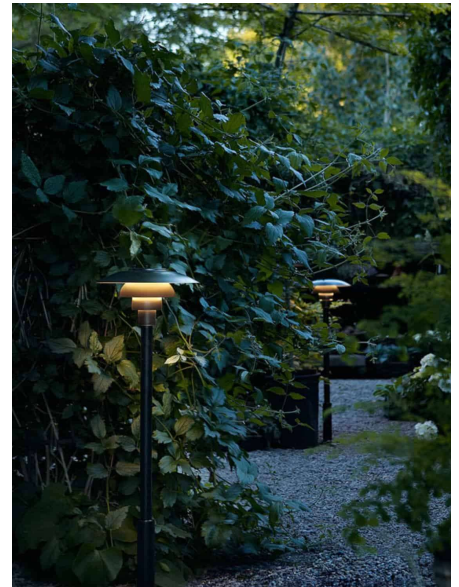# louis poulsen

Environmental Product Specifications

— PH 3-2½ Bollard

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Product description

– The fixture is designed based on the principle of a reflective three-shade system, which directs the light downwards.

– The shades have a matt white painted interior surface, diffusing the light in a comfortable way.

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Product info

Mounting

Depends on the variant.

Finish

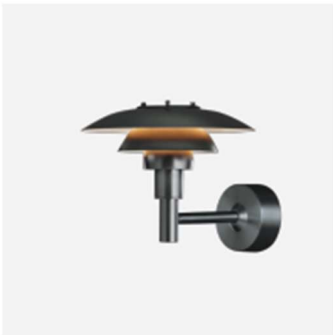Black, powder coated.

Light source

1x60W E27.

Sizes and weights

Width x Height x Length (mm)
283 x 909 x 283 Max 3.7 kg

Class

Ingress protection IP44. Electric shock protection I w. ground.

Product family

PH 3-2½ Wall

Product variants

Light source

1x60W E27

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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:

SMÅT
ELEKTRONIK

Material list

Positions number	Part description	Included substances and materials	Country of origin	Weight% (of the entire product)
A	Stainless steel parts	Machined stainless steel	LV - Latvia	38,6%
A	Painting	Powder coating	AT - Austria	3,2%
A	Painting	Powder coating	CH - Switzerland	0,1%
A	Painting	Wet painting	DK - Denmark	0,0%
B	Glass	Pressed Glass, clear.	IT - Italy	4,1%
C	Stainless steel parts	Machined stainless steel	TW - Taiwan	0,4%
D	Socket holder	Porcelain, ceramic	DE - Germany	0,8%
E	Strain relief	Variety of components	DK - Denmark	0,2%
F	Plastic parts	EPDM	DK - Denmark	0,1%
G	Component bracket	Machined stainless steel	DK - Denmark	1,5%
H	Screws	Stainless steel	CN - China	0,5%
H	Painting	Wet painting	DK - Denmark	0,0%
I	Electrical wiring	Variety of components	IT - Italy	0,9%
J	Terminal helag	Variety of components	SE - Sweden	1,7%
K	Cable binder	PA	CN - China	0,0%
L	Bracket for socket	Die-casted zinc	IT - Italy	0,2%
M	Labels and instructions	Paper	DK - Denmark	0,4%
N	Packaging	Corrugated cardboard	DK - Denmark	9,5%
O	Inserts	Corrugated cardboard	DK - Denmark	37,8%
P	Plastic bag	LDPE	LT - Lithuania	0,1%
Q	Minigripbags	LDPE	DK - Denmark	0,0%
				100%

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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.

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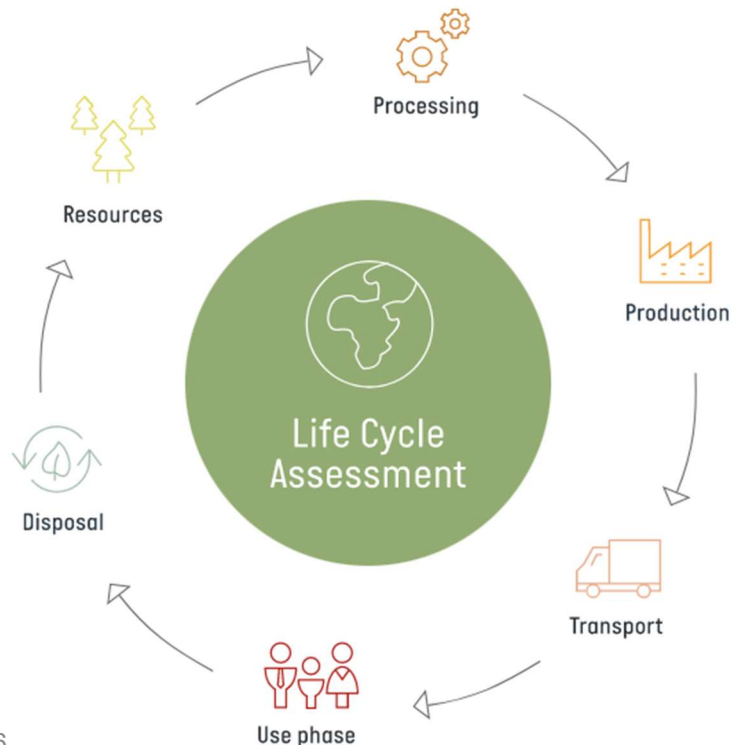
Life Cycle Screening results

Product that has been calculated as a reference for the product family:

PH 3-2½ BOLLARD, 1X7W E27.

Production of the product

Average climate emission:

60 KG CO2-e

Lower boundary:	30 CO2-e
Upper boundary:	220 CO2-e

Production of the product and use stage

Average climate emission:

120 KG CO2-e

Lower boundary:	90 CO2-e
Upper boundary:	280 CO2-e

Carbon stages

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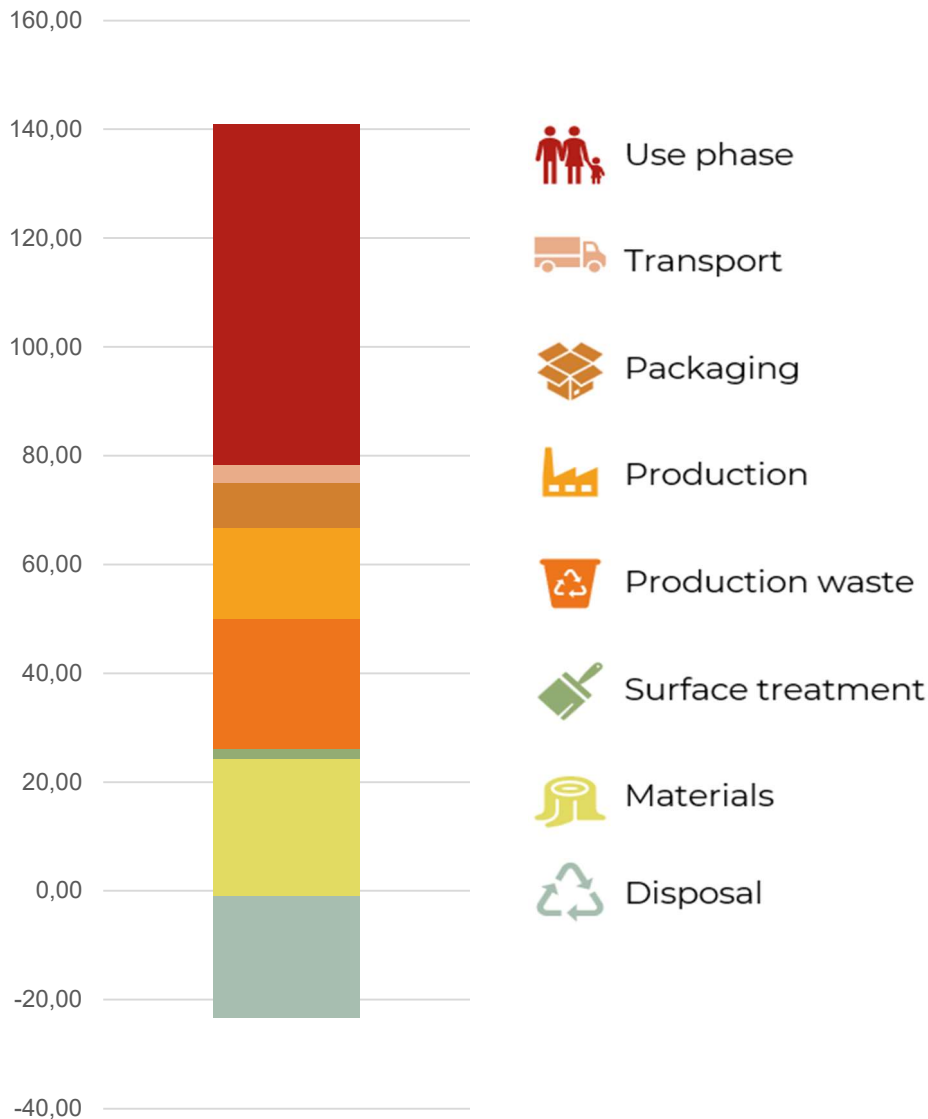
Main emission sources *(pr material group)**

Group	Total impact		
Solid Wood	0,00	kg CO2-e	0,0%
Wood based board	0,00	kg CO2-e	0,0%
Metal	29,69	kg CO2-e	53,1%
Plastic	1,61	kg CO2-e	2,9%
Glass / Stone / Ceramics	0,40	kg CO2-e	0,7%
Surface finish & chemicals	12,19	kg CO2-e	21,8%
Upholstery	0,00	kg CO2-e	0,0%
Cover	0,00	kg CO2-e	0,0%
Electronic components	0,60	kg CO2-e	1,1%
Packaging	7,64	kg CO2-e	13,7%
Transport & logistics	3,82	kg CO2-e	6,8%

Transport & logistics 7%
Packaging 13%
Electronic components 1%
Metal 53%
Surface finish & chemicals 22%
Glass / Stone / Ceramics 1%
Plastic 3%
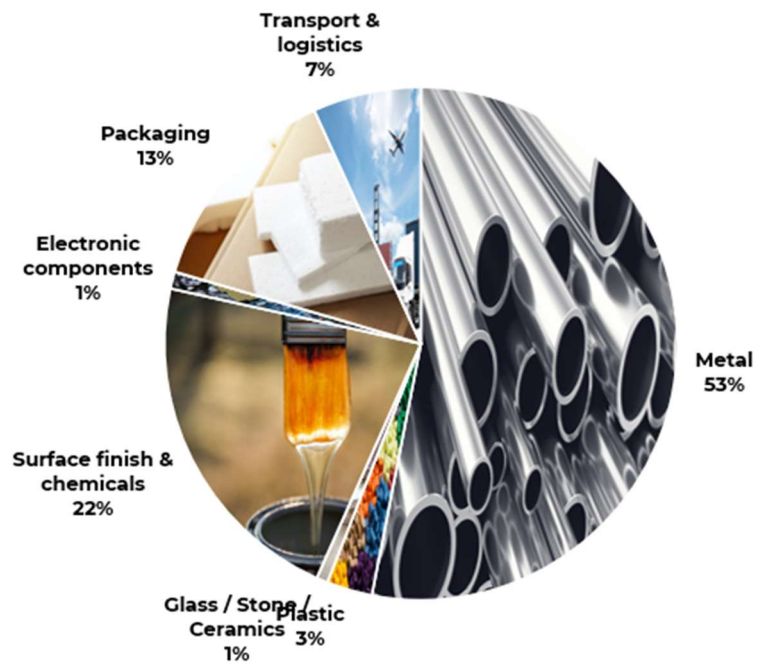
The values presented here represent total emissions per material group (incl. material, production, transport, waste, CO2e uptake)

Main emission sources *(pr element)**

Element	Material	Total impact	
STAINLESS STEEL PARTS	Stainless steel machined	27,52	kg CO2-e
PAINTING	Or kg powder consumed	11,80	kg CO2-e
INSERTS	Corrugated cardboard inlay sustainable	5,98	kg CO2-e
Transport	Total emission from transport - all steps	3,62	kg CO2-e
TERMINAL HELAG	Polyamide (PA6)	1,53	kg CO2-e
PACKAGING	Corrugated cardboard box printed sustainable fiber	1,50	kg CO2-e
COMPONENT BRACKET	Stainless steel machined	1,03	kg CO2-e
ELECTRICAL WIRING	Electric cable (PVC)	0,44	kg CO2-e
BRACKET FOR SOCKET	Zink diecast	0,43	kg CO2-e
GLASS	Virgin glass auto cast/pressed container	0,40	kg CO2-e
PAINTING	Or kg powder consumed	0,35	kg CO2-e

Legend: Waste, Material in product
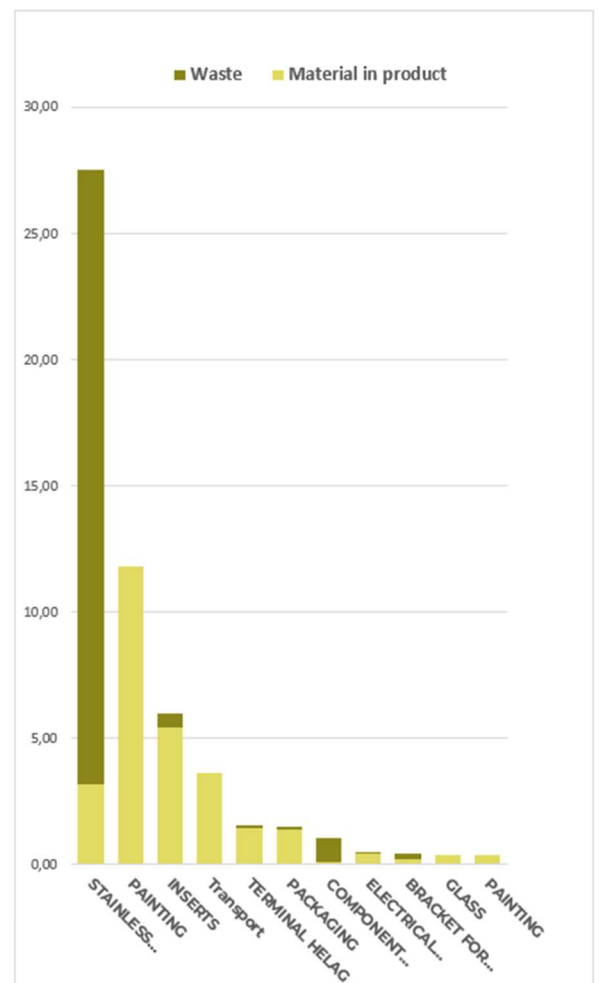
The values presented here represent total emissions per element (incl. material, production, transport, waste, CO2e uptake)