

louis poulsen

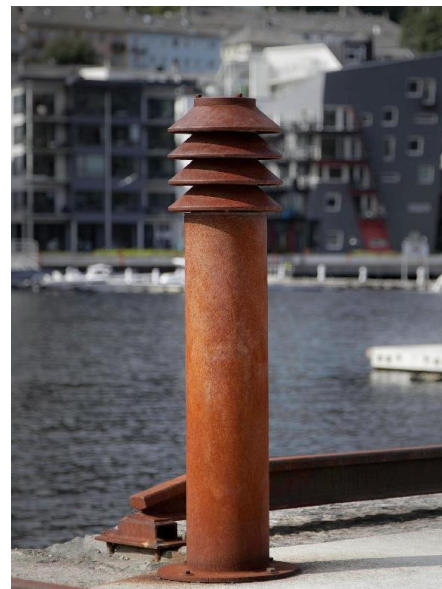
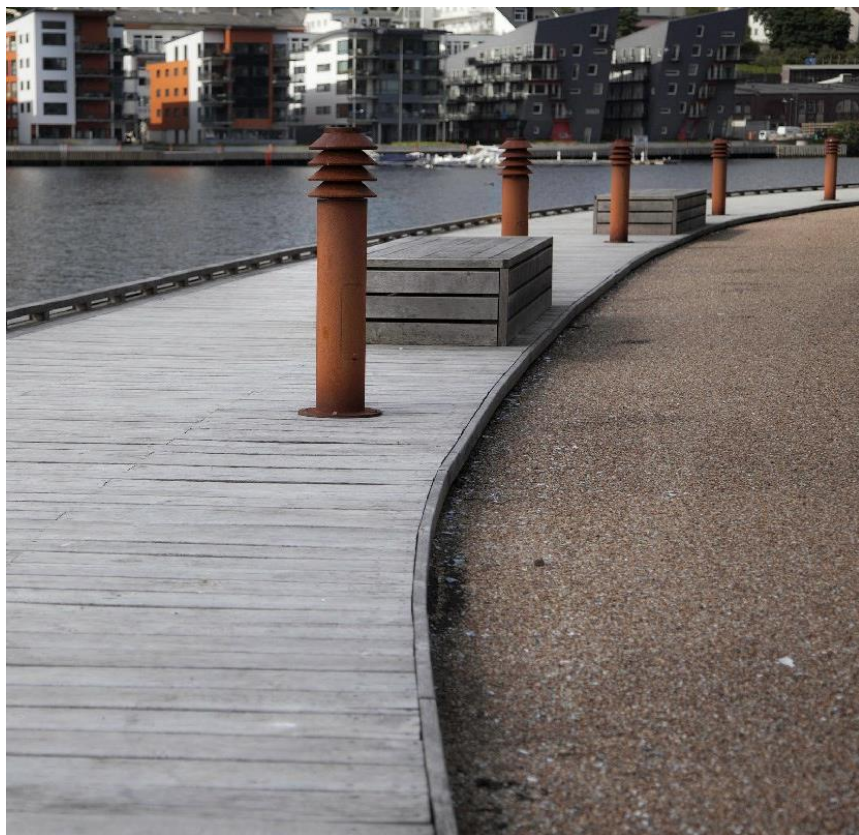


Environmental Product Specifications

— Bysted Bollard

Product description

- The fixture emits light directed downwards.
- The shades have a white painted undersurface to achieve optimal light reflection and produce a characteristic symmetric light pattern around the fixture.
- Post for base plate installation supplied without anchor bolts. Anchor bolts to be sourced locally.
- Oxidation of both corten steel and cast iron gives a rough and "rusty" looking surface which protects the material from further corrosion. The speed of the oxidation process is faster for corten than it is for cast iron.
- Supplied with hole bracket for junction box.
- LED: CLO, integrated fuse and SPD as standard.
- A Retrofit Kit is available for updating conventional Bysted variants to LED variants.
- The innovation of the LED technology is constant. The specifications mentioned are based on present technology. Please contact Louis Poulsen for 2700K, LED Replacement Kit and more info about supported Light Management Systems.



Product info

Mounting

In-ground struts: Yes. Terminal block positioning: In post. Looping: Approved, max 5x6mm². Driver position: In pole top. Max. installation cable: Depending on junction box. Post f/in-ground installation: H: 1445mm excl. fixture head, in-ground part: 600mm. Post w/base plate for surface mounting: H: 845mm excl. fixture head. Post dia. 200mm.

Finish

Corten steel, raw.

Light source

LED 3000K 24W, Lumen: 696.

Sizes and weights

Width x Height x Length (mm)
280 x 1130 x 280 Max 44.8 kg

Class

Ingress protection IP65. Electric shock protection II w/o ground. IK09.

Product family



Bysted LED Upgrade Kit



Bysted Garden

Product variants

Light source

LED 3000K 24W

Pole type

POST F/IN-GROUND INSTALLATION
POST W/BASE PLATE

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 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	Carbon steel parts	Casted carbon steel	DK - Denmark	41,2%
B	Stainless steel parts	Machined stainless steel	TW – Taiwan	2,5%
C	Stainless steel parts	Machined stainless steel	CN – China	1,5%
C	Painting	Powder coating	CH – Switzerland	0,0%
D	Aluzinc parts	Aluzinc	DK – Denmark	1,8%
E	Heat sink	Die-casted aluminium	CN – China	2,1%
F	Pole	Steel	DK – Denmark	44,6%
G	Washers and screws	Stainless steel	CN - China	0,8%
H	Nuts and screws	Stainless steel	TW – Taiwan	0,1%
I	LED board	Variety of components	JP – Japan	0,0%
J	Cords and wires	Variety of components	IT – Italy	0,4%
K	Driver	Variety of components	NL – Netherlands	0,4%
L	Sleeve	SCS sleeve	FR – France	0,0%
M	Ceramic fuse	Variety of components	CN – China	0,0%
N	Plastic parts	PMMA	DK – Denmark	1,4%
O	Plastic parts	NBR	DE – Germany	0,0%
P	Plastic parts	EPDM	DK – Denmark	0,0%
Q	Plastic parts	PA	SE – Sweden	0,2%
R	Plastic parts	PA	CN – China	0,0%
S	Plastic parts	Silicone	DK – Denmark	0,1%
T	Protection plug	PE	SE – Sweden	0,0%
U	Enclosure	ABS	DK – Denmark	0,3%
V	Labels and instructions	Paper	DK – Denmark	0,1%
W	Packaging	Corrugated cardboard	DK – Denmark	2,4%
X	Plastic bag	LDPE	DK - Denmark	0,0%
				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:

BYSTED BOLLARD, LED 3000K 24W

Production of the product

Average climate emission:

120 KG CO₂-e

Lower boundary: 85 CO₂-e

Upper boundary: 250 CO₂-e

Production of the product and use stage

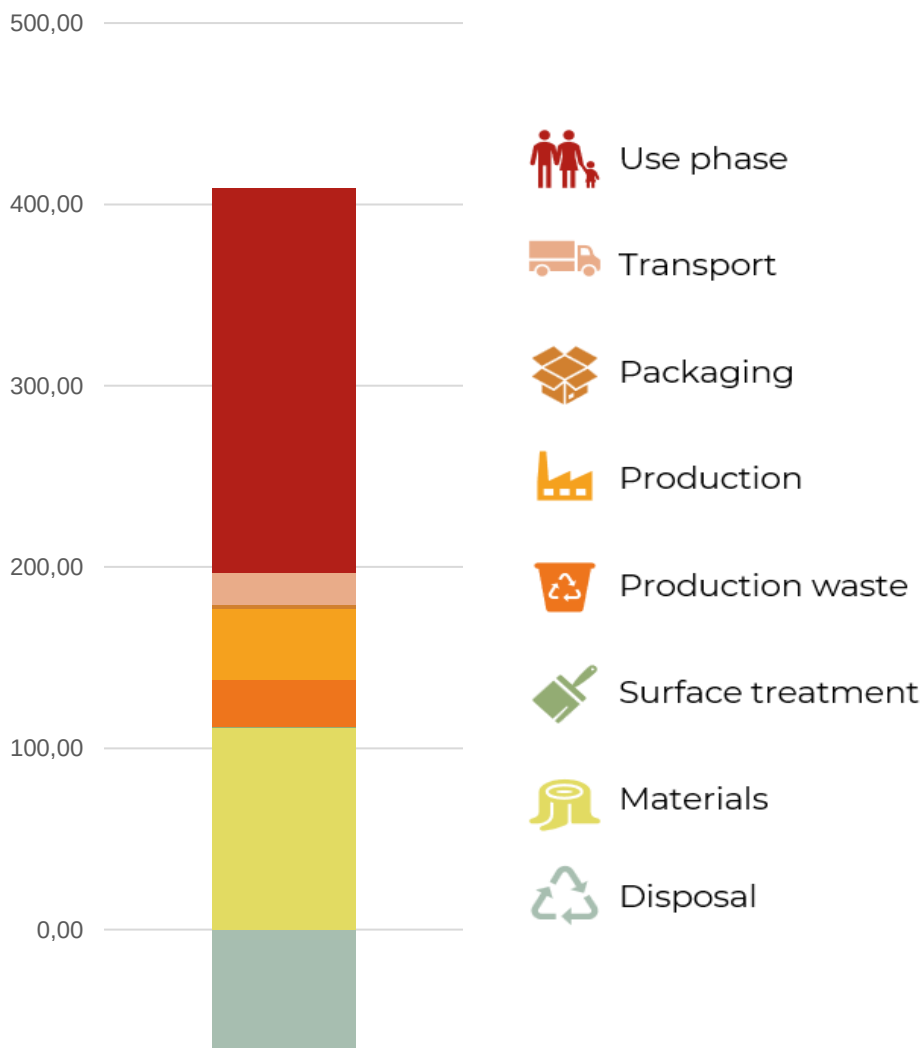
Average climate emission:

320 KG CO₂-e

Lower boundary: 290 CO₂-e

Upper boundary: 460 CO₂-e

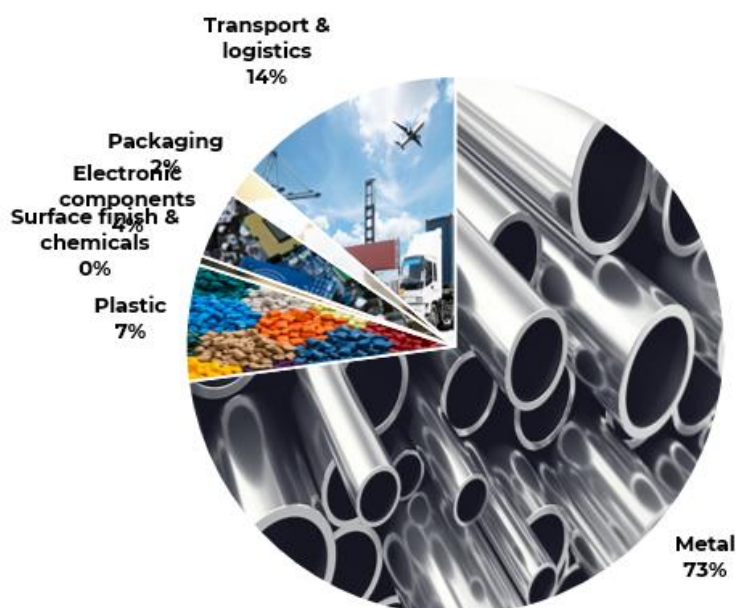
Carbon stages



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)*

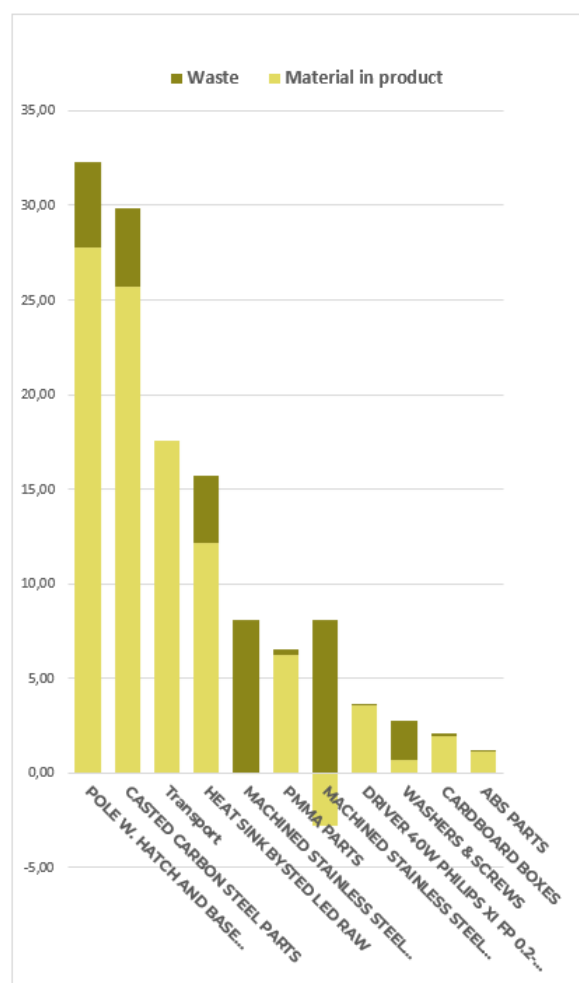
Group	Total impact		
Solid Wood	0,00	kg CO2-e	0,0%
Wood based board	0,00	kg CO2-e	0,0%
Metal	93,37	kg CO2-e	72,9%
Plastic	8,95	kg CO2-e	7,0%
Glass/Stone/Ceramics	0,00	kg CO2-e	0,0%
Surface finish & chemicals	0,70	kg CO2-e	0,5%
Upholstery	0,00	kg CO2-e	0,0%
Cover	0,00	kg CO2-e	0,0%
Electronic components	5,21	kg CO2-e	4,1%
Packaging	2,27	kg CO2-e	1,8%
Transport & logistics	17,56	kg CO2-e	13,7%



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
POLE W. HATCH AND BASE		
PLATE BYSTED	Cast iron	32,26 kg CO2-e
CASTED CARBON STEEL PARTS	Cast iron	29,83 kg CO2-e
Transport	Total emission from transport - all steps	17,56 kg CO2-e
HEAT SINK BYSTED LED RAW	Alu. cast	15,71 kg CO2-e
MACHINED STAINLESS STEEL PARTS	Stainless steel machined	8,09 kg CO2-e
PMMA PARTS	Acrylic (PMMA)	6,56 kg CO2-e
MACHINED STAINLESS STEEL PARTS	Stainless steel machined	5,31 kg CO2-e
DRIVER 40W PHILIPS XI FP 0.2-0.7A S175	Power supply with cables + connectors	3,59 kg CO2-e
WASHERS & SCREWS	Stainless steel screws/bolts	2,74 kg CO2-e
CARDBOARD BOXES	Corrugated cardboard box	2,12 kg CO2-e
ABS PARTS	printed sustainable fiber ABS/ASA	1,15 kg CO2-e



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