

louis poulsen



Environmental Product Specifications

— Toldbod 155 Bollard

Product description

- The light is directed 100% downwards and the shade has a matt white painted interior emitting a soft, diffused, comfortable light.



Product info

Mounting

Depends on the variant

Finish

Aluminium coloured with textured surface or black with textured surface, powder coated.

Sizes and weights

Width x Height x Length (mm)
155 x 900 x 267 Max 2.4 kg

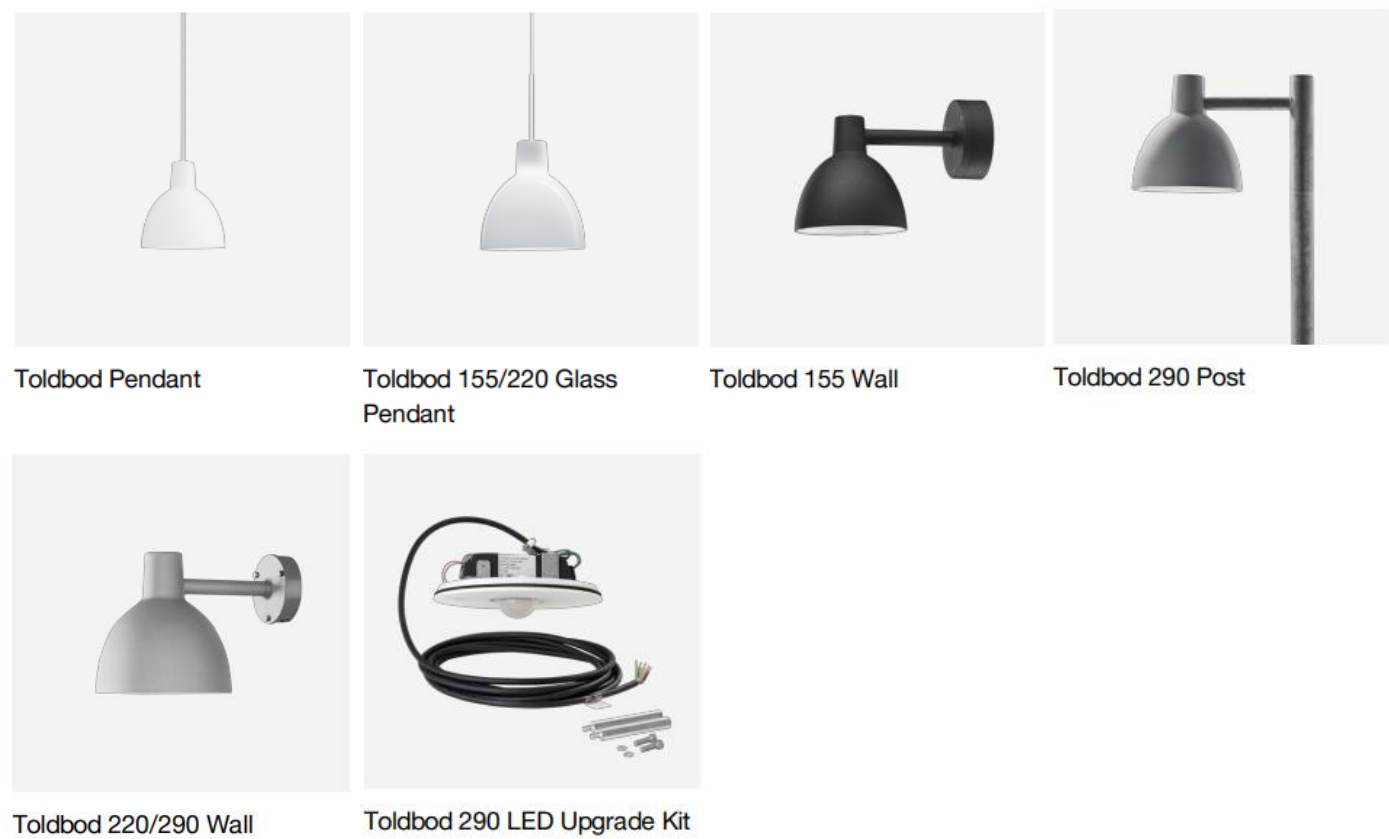
Class

Ingress protection IP20. Electric shock protection I.

Light source

E14

Product family



Product variants

Colour	Light source
☐ Aluminium colour texture	E14
☐ Black texture	

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	Aluminium parts	Die-casted aluminium	CN - China	20,0%
A	Painting	Powder coating	DE - Germany	1,8%
A	Painting	Wet painting	CH - Switzerland	0,3%
B	Pole new	Machined aluminum	LV - Latvia	27,4%
B	Painting	Powder coating	DE - Germany	8,6%
C	Socket	Variety of components.	IT - Italy	1,2%
D	Plastic shield	PMMA	DK - Denmark	1,7%
E	Socket bracket	Machined aluminum	DK - Denmark	0,1%
F	Component bracket	Machined stainless steel	DK - Denmark	2,8%
G	Terminal helag	Variety of components	SE - Sweden	3,3%
H	Stainless steel parts	Machined stainless steel	CN - China	0,3%
I	Electrical wiring	Variety of components	IT - Italy	1,7%
J	Screws	Stainless steel	CN - China	0,9%
K	O-ring	EPDM	DE - Germany	0,0%
L	Labels and instructions	Paper	DK - Denmark	0,2%
M	Packaging	Corrugated cardboard	DK - Denmark	25,3%
N	Insert	Corrugated cardboard	DK - Denmark	3,9%
O	Plastic bag	LDPE	LT - Lithuania	0,4%
P	Minigripbag	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:

TOLDBOD 155 BOLLARD, ALUMINIUM COLOURED TEXTURE, E14, 4,5 W.

Production of the product

Average climate emission:

70 KG CO2-e

Lower boundary: 42 CO2-e

Upper boundary: 240 CO2-e

Production of the product and use stage

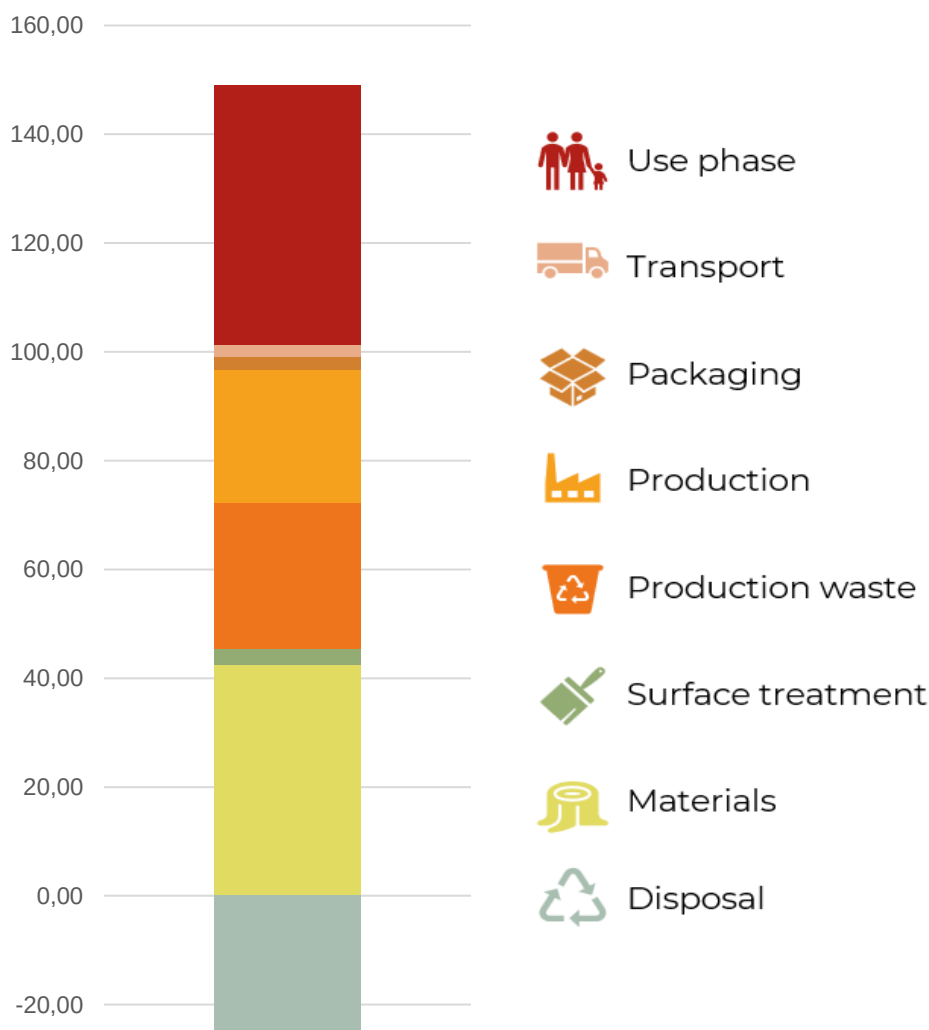
Average climate emission:

110 KG CO2-e

Lower boundary: 85 CO2-e

Upper boundary: 280 CO2-e

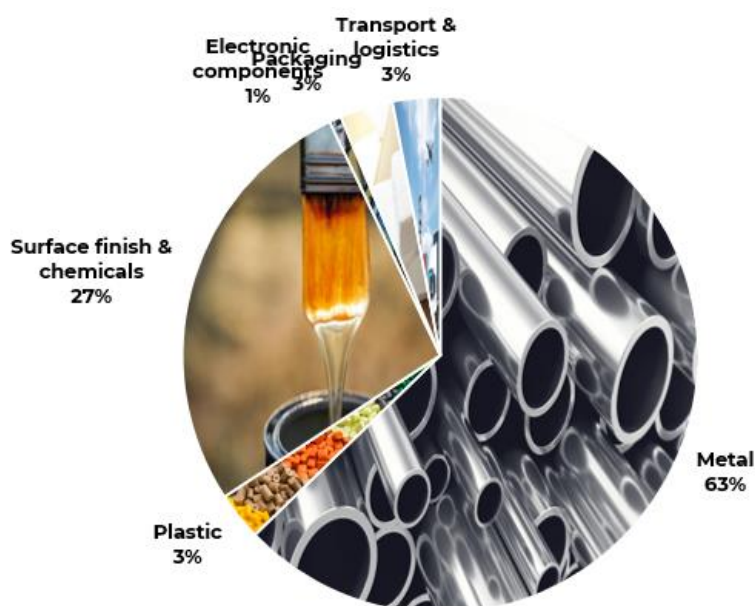
Carbon stages



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)*

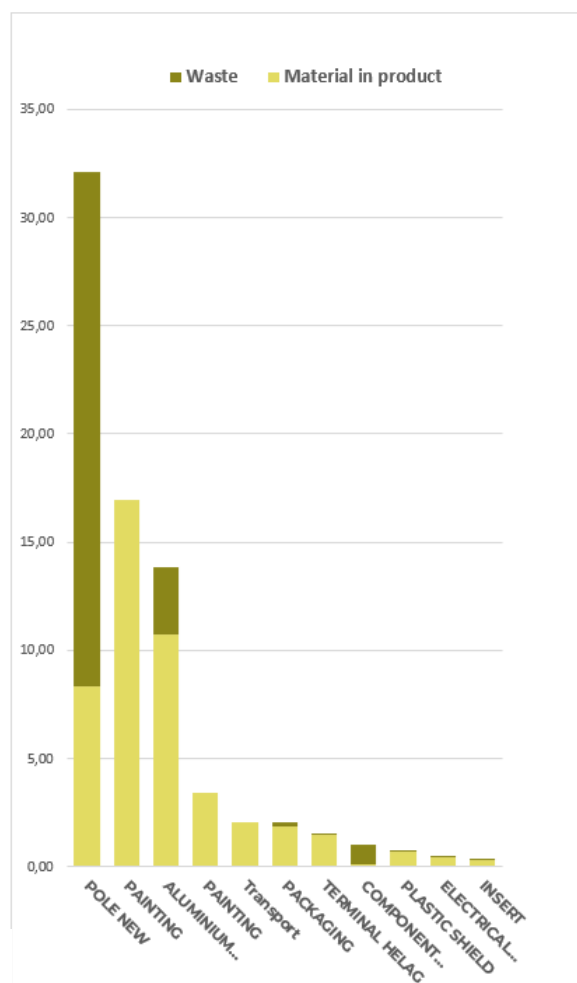
Group	Total impact	
Solid Wood	0,00 kg CO2-e	0,0%
Wood based board	0,00 kg CO2-e	0,0%
Metal	47,38 kg CO2-e	62,8%
Plastic	2,27 kg CO2-e	3,0%
Glass/ Stone / Ceramics	0,00 kg CO2-e	0,0%
Surface finish & chemicals	20,51 kg CO2-e	27,2%
Upholstery	0,00 kg CO2-e	0,0%
Cover	0,00 kg CO2-e	0,0%
Electronic components	0,56 kg CO2-e	0,7%
Packaging	2,51 kg CO2-e	3,3%
Transport & logistics	2,25 kg CO2-e	3,0%



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 NEW	Alu. machined	32,10 kg CO2-e
PAINTING	Or kg powder consumed	16,92 kg CO2-e
ALUMINIUM PARTS	Alu. cast	13,86 kg CO2-e
PAINTING	Or kg powder consumed	3,45 kg CO2-e
Transport	Total emission from transport - all steps	2,08 kg CO2-e
PACKAGING	Corrugated cardboard box printed sustainable fiber	2,06 kg CO2-e
TERMINAL HELAG	Polyamide (PA6)	1,53 kg CO2-e
COMPONENT BRACKET	Stainless steel machined	1,03 kg CO2-e
PLASTIC SHIELD	Acrylic (PMMA)	0,73 kg CO2-e
ELECTRICAL WIRING	Electric cable (PVC)	0,44 kg CO2-e
INSERT	Corrugated cardboard inlay	0,32 kg CO2-e



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