

louis poulsen

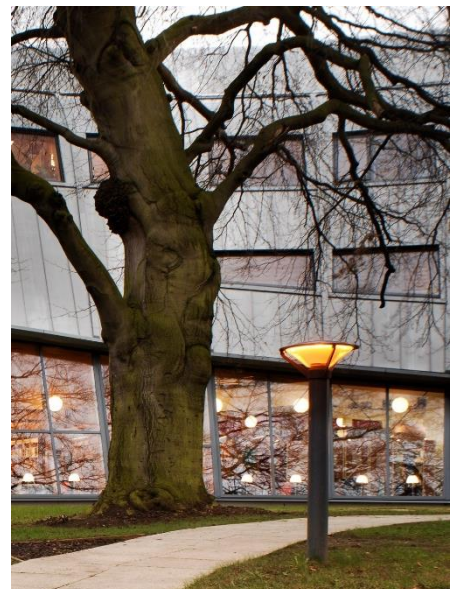


Environmental Product Specifications

— Kipp Bollard

Product description

- Cone-shaped fixture head carried on a conical console with a frame with three arms.
- Opal diffuser inside a clear enclosure.
- Top shade is curved with a flat edge.
- Entire fixture head is removable for easy access to lamp and components.
- Terse design suitable for both modern and classic design.
- Different colour variants.
- The console serves as heat sink.
- Part of a family.



Product info

Mounting

Access door: Yes. Terminal block positioning: In post. Looping: Approved, max 5x6mm². Driver: In pole top. Max. installation cable: Electric shock protection I: 1 or 2 pcs. 5x6mm² or Electric shock protection II: 1 or 2 pcs. 4x6mm². Bollard for in-ground installation: Height excluding fixture head: 1705mm, including 600mm below ground. Bollard with base plate for surface mounting: Height excluding fixture head: 1105mm. Post diameter: 115mm.

Finish

Aluminium coloured with textured surface or graphite grey, powder coated.

Light source

LED 3000K 28W, Lumen: 1454

Sizes and weights

Width x Height x Length (mm)
440 x 1105 x 440 Max 13.6 kg

Class

Ingress protection IP55. Electric shock protection I w. ground, II w/o ground. IK10.

Product family



Kipp Wall



Kipp Post



Kipp LED Upgrade Kit

Product variants

Colour	Light source	Lumen	Class	Pole type
● Aluminium colour texture	LED 3000K 28W	1454	I	POST F/IN-GROUND INSTALLATION
● Graphite grey	LED 4000K 28W	1523	II	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 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

The aluminium material is sourced from min. 90% authentic, refined, recycled aluminium. 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	DK - Denmark	21,1%
A	Painting	Powder coating	DE - Germany	0,7%
A	Painting	Wet painting	DK - Denmark	0,0%
B	Pole with base	Machined aluminium	DK - Denmark	35,6%
B	Painting	Powder coating	DE - Germany	1,2%
C	Machined aluminium	Aluzinc	DK - Denmark	6,5%
D	Stainless steel parts	Machined stainless steel	CN - China	0,1%
E	Screws	Stainless steel	CN - China	1,6%
F	Driver	Variety of components	CN - China	1,4%
G	Electrical wiring	Variety of components	IT - Italy	2,5%
H	LED	Variety of components	CN - China	0,0%
I	LED Base KIPP	Machined aluminium	DK - Denmark	2,5%
J	Fuse elements	Variety of components	DK - Denmark	0,8%
K	Plastic parts	EPDM	CN - China	0,4%
L	Plastic parts	PA	SE - Sweden	2,1%
M	Membrane grommet	PVC	DK - Denmark	0,0%
N	Main shade	PC	DK - Denmark	3,1%
O	Plastic parts	PMMA	DK - Denmark	1,5%
P	NBR rubber	CR/NBR	DK - Denmark	0,2%
Q	Silicone rubber	Silicone	DK - Denmark	0,0%
R	Membrane nipple	PE	DK - Denmark	0,0%
S	Instructions and label	Paper	DK - Denmark	0,2%
T	Packaging	Corrugated cardboard	DK - Denmark	17,2%
U	Foam insert	EPS	DK - Denmark	0,9%
V	Plastic bag and film	LDPE	LT - Lithuania	0,6%
				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:

KIPP BOLLARD, ALUMINIUM COLOURED STRUCTURE, LED 3000K 28W, CL. I

Production of the product

Average climate emission:

37 KG CO₂-e

Lower boundary: 24,8 CO₂-e

Upper boundary: 260 CO₂-e

Production of the product and use stage

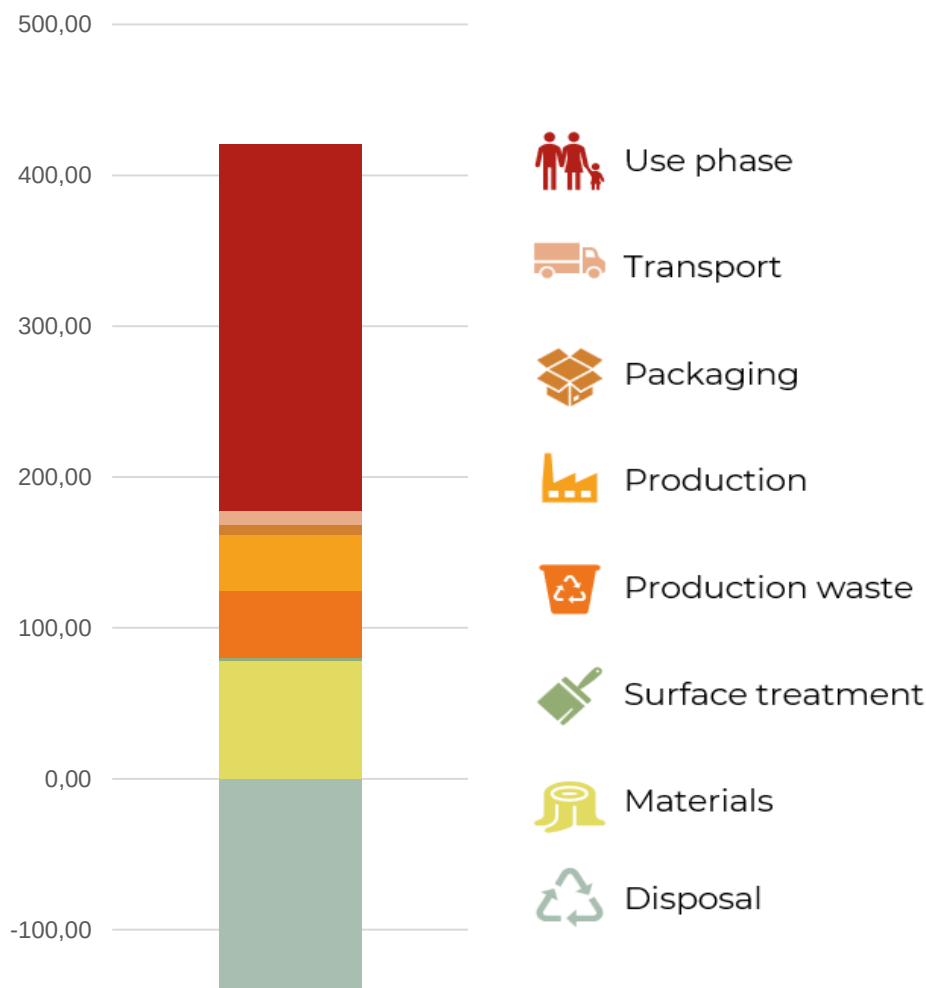
Average climate emission:

280 KG CO₂-e

Lower boundary: 220 CO₂-e

Upper boundary: 500 CO₂-e

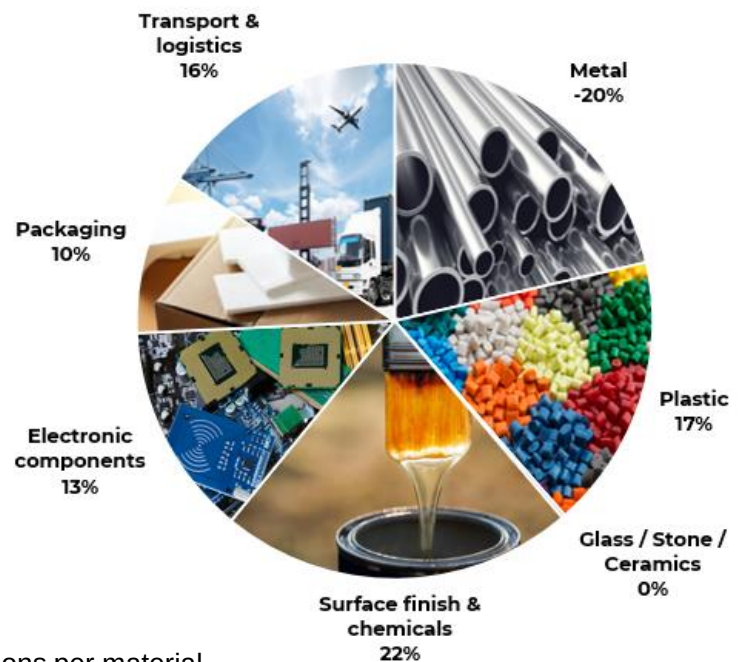
Carbon stages



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)*

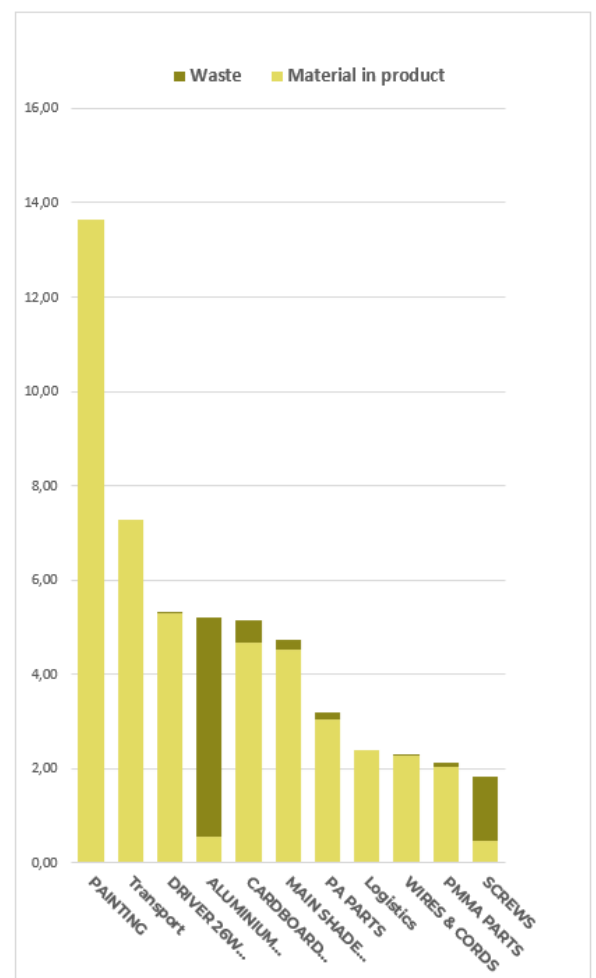
Group	Total impact		
Solid Wood	0,00	kg CO2-e	0,0%
Wood based board	0,00	kg CO2-e	0,0%
Metal	-13,15	kg CO2-e	-37,3%
Plastic	10,58	kg CO2-e	30,0%
Glass/ Stone / Ceramics	0,14	kg CO2-e	0,4%
Surface finish & chemicals	13,64	kg CO2-e	38,7%
Upholstery	0,00	kg CO2-e	0,0%
Cover	0,00	kg CO2-e	0,0%
Electronic components	8,20	kg CO2-e	23,3%
Packaging	6,19	kg CO2-e	17,6%
Transport & logistics	9,67	kg CO2-e	27,4%



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
PAINTING	Or kg powder consumed	13,63 kg CO2-e
Transport	Total emission from transport - all steps	7,27 kg CO2-e
DRIVER 26W	Power supply with cables + connectors	5,33 kg CO2-e
INVENTRONICS EUC-		
ALUMINIUM PARTS	Alu. cast	5,20 kg CO2-e
CARDBOARD BOXES	Corrugated cardboard box	5,14 kg CO2-e
MAIN SHADE KIPP MINOR	printed sustainable fiber	
WALL/BOLLARD 1	Polycarbonate PC	4,73 kg CO2-e
PA PARTS	Polyamide (PA6)	3,19 kg CO2-e
Logistics	Total emission from warehouse + own retail	2,40 kg CO2-e
WIRES & CORDS	Electric cable (PVC)	2,31 kg CO2-e
PMMA PARTS	Acrylic (PMMA)	2,12 kg CO2-e
SCREWS	Stainless steel screws/bolts	1,84 kg CO2-e
Total impact from Waste		0,51 kg CO2-e



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