louis poulsen

Environmental Product Specifications

— Flindt Plaza

Product description

- The fixture emits a glare-free downward directed light.
- The light source is hidden at the top, inside the asymmetric carving on the side of the post, where the gradient serves as a reflector that softens the light and forms a pleasant organic shape on the ground below.
- To optimise the flexibility in the lighting design, the illumination is adjustable with plus/minus 5° vertical and 360° horizontal, allowing for a more varied light distribution.
- The fixture is based on a modular principle and can in some configurations be built with up to four highly flexible light heads on one pole.

Product info

Mounting

Depends on the variant

Finish

Aluminum coloured or corten coloured.
Textured surface, powder coated.

Light source

LED 2700K / 3000K / 4000K, 33W

Sizes and weights

Width x Height x Length (mm)
Light module: 140 x 500 x 140 Max 6.9 kg
Pole: 140 x 2500 x 140 Max 21.0 kg
Pole: 140 x 3500 x 140 Max 27.0 kg
Pole: 140 x 4500 x 140 Max 35.0 kg
Top: 140 x 150 x 140 Max 1.6 kg
Spacer: 140 x 500 x 140 Max 4.5 kg

Class

Ingress protection IP66. Electric shock protection I w. ground, II w/o ground. IK10.

Product family


Flindt Bollard


Flindt Wall


Flindt Garden Bollard

Product variants

Dimension	Colour	Light source	Lumen	Class	Light technique	Pole type	Lighting control
-	Aluminium colour texture	-	-	-	-	-	-
2.5M	Corten colour	LED 2700K 33W	1844	I	15°	POLE F/IN-GROUND INSTALL	Dali + clo dac
3.5M		LED 3000K 33W	1923	II	15° W/HONEYCOMB	POST W/BASE PLATE	For sr zhaga
4.5M		LED 4000K 33W	1960		35°		Nightdim + clo dpc
			1973		35° W/HONEYCOMB		Sc zhaga (smart city)
			2044				
			2097				
			2577				
			2588				
			2608				
			2667				
			2686				
			2698				
			2719				
			2756				
			2768				
			2780				
			2789				
			2854				

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. 75% recycled fibre 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	Cord and wires	Variety of components	IT – Italy	0,9%
B	Driver	Variety of components	CN – China	0,9%
C	LED COB	Variety of components	JP – Japan	0,3%
C	Cords	Variety of components	CN – China	0,0%
D	Aluminium	Machined aluminium	DK – Denmark	77,4%
E	Aluminium	Die casted aluminium	DK - Denmark	9,2%
E	Surface finish	Powder coating	GB – United Kingdom	0,5%
F	Reflector	Aluminium	CN – China	0,2%
G	Stainless steel parts	Machined	CN – China	0,8%
H	Stainless steel parts	Machined	DK – Denmark	3,0%
I	Plastic parts	PA	DE – Germany	0,1%
J	Plastic parts	EPDM	IT – Italy	1,2%
K	Plastic parts	PP	NO – Norway	0,0%
L	Plastic parts	PC	DK – Denmark	0,6%
M	Plastic parts	PC	CN – China	0,2%
N	Plastic parts	Silicone	DE – Germany	0,4%
O	Instructions and labels	Paper	DK – Denmark	0,1%
P	Packaging	Corrugated cardboard	DK – Denmark	2,5%
Q	Inserts	Corrugated cardboard	DK – Denmark	2,2%
R	Plastic bags	LDPE	LT – Lithuania	0,0%
S	Tube film	LDPE	NL – Netherlands	0,2%
				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.

European Commission

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.

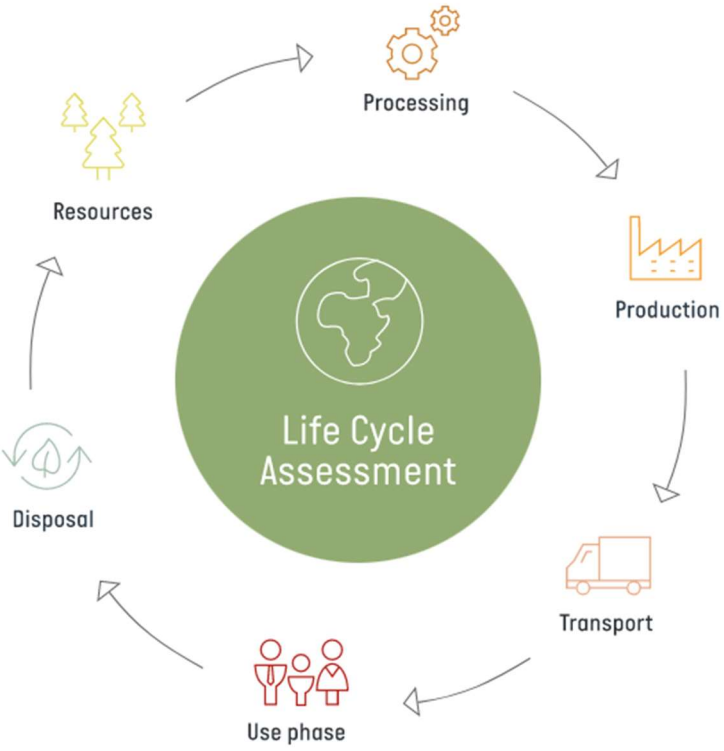
The electricity is based on the European energy mix, with data from: the European Environment Agency Greenhouse gas emission intensity of electricity generation.

Transport

1,000 km of 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:

Flindt Plaza, one unit, with one light module LED 2700K 2x33W and 2,5 meter pole.

Production of the product

Total climate emission:

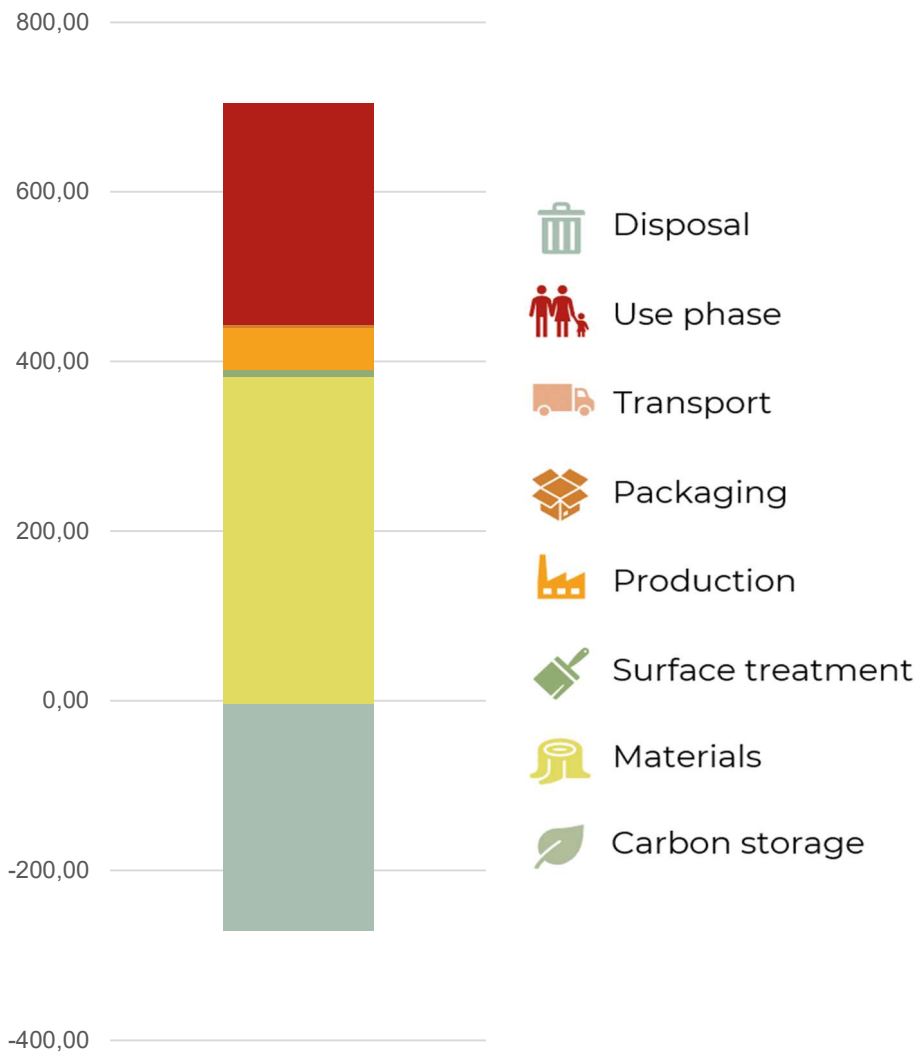
180 KG CO2-e

Production of the product and use stage

Total climate emission:

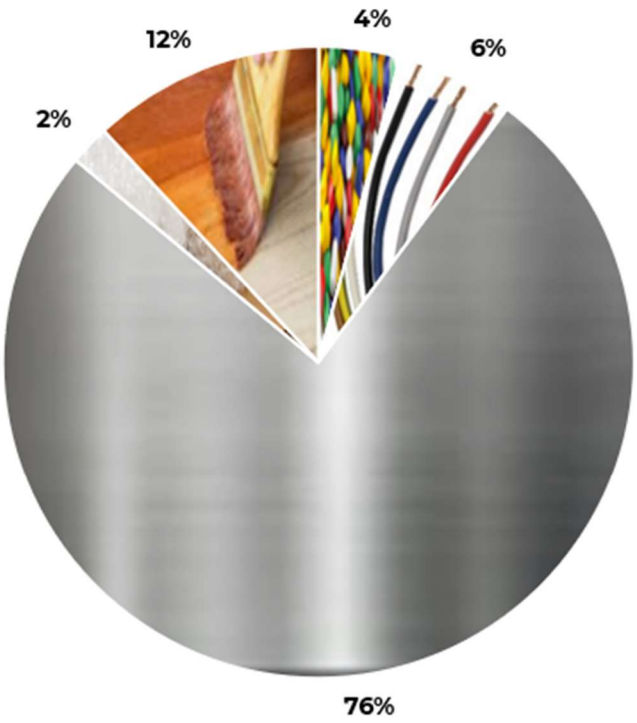
430 KG CO2-e

Carbon stages



Main emission sources *(pr material group)**

Group	Total impact
Solid Wood	**0,00** *kg CO2-e*
Plastic	**7,69** *kg CO2-e*
Cover	**0,00** *kg CO2-e*
Standard Components	**0,00** *kg CO2-e*
Electronics	**11,04** *kg CO2-e*
Metal	**139,60** *kg CO2-e*
Packaging	**3,77** *kg CO2-e*
Upholstery	**0,00** *kg CO2-e*
Wood Based Board	**0,00** *kg CO2-e*
Surface Finish & Chemicals	**21,88** *kg CO2-e*
Glass / Stone / Ceramics	**0,00** *kg CO2-e*

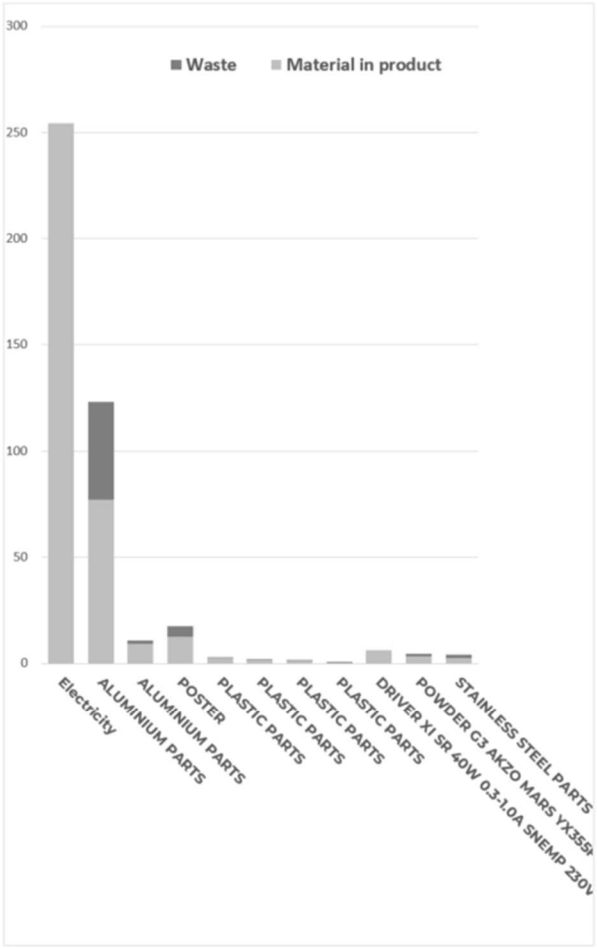


The values presented here represent total emissions per material group (incl. material, production, transport, waste, CO2e uptake)

Main emission sources *(pr element)**

Main emission sources *(pr element)**

Element	Material	Total impact
Electricity	0	**254,16** *kg CO2-e*
ALUMINIUM PARTS	Alu. tube/profile	**123,24** *kg CO2-e*
ALUMINIUM PARTS	Alu. cast	**10,98** *kg CO2-e*
POSTER	Or kg powder consumed	**17,49** *kg CO2-e*
PLASTIC PARTS	EPDM rubber, molded	**2,82** *kg CO2-e*
PLASTIC PARTS	PC, molded	**2,09** *kg CO2-e*
PLASTIC PARTS	Silicone rubber pressed	**1,63** *kg CO2-e*
PLASTIC PARTS	Polyamide (PA6), molded	**0,42** *kg CO2-e*
DRIVER XI SR 40W 0.3-1.0A SNEMP 230V C13	Power supply with cables + connectors kg	**6,08** *kg CO2-e*
POWDER G3 AKZO MARS YX355F (954)	Or kg powder consumed	**4,34** *kg CO2-e*
STAINLESS STEEL PARTS	Stainless steel machined	**4,08** *kg CO2-e*
	Total impact from Waste	**57,78** *kg CO2-e*



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