

**louis poulsen**



# Environmental Product Specifications

— AJ Royal

## Product description

- The pendant comes in three sizes and is characterised by the ridges on top that allow a gentle light to exude upwards.
- The new, energy-saving LED version comes with a diffuser, which offers a smoother, 100% glare-free lighting.



## Product info

### Mounting

Depends on the variant

### Finish

White or black, wet painted.

### Light source

LED 2700K 8W, Lumen: 508.

### Sizes and weights

Width x Height x Length (mm)

370 x 181 x 370 Max 1.9 kg

500 x 225 x 500 Max 5.8 kg

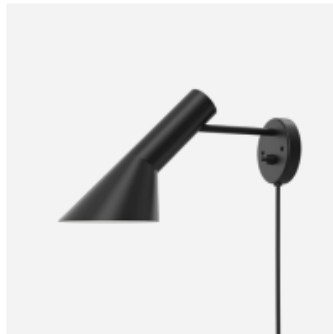
### Class

Ingress protection IP20. Electric shock protection I w/ ground.

## Product family



AJ Table



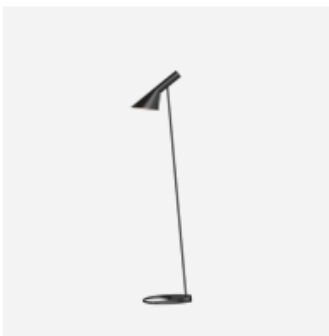
AJ Wall



AJ 50 Wall



AJ Mini Table



AJ Floor

## Product variants

Dimension	Farve	Ledningstype	Lyskilde	Lumen	Lysstyring
Ø 370	● Black	Hvid stoffledning	LED 2700K 16W	1100	Dali
Ø 500	○ White	Sort stoffledning	LED 2700K 30W	1125	Fase dæmp (mains dimm)
			LED 3000K 16W	1898	
			LED 3000K 30W	1955	
				2242	
				2309	
				930	
				961	

## 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.

### 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:



# 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

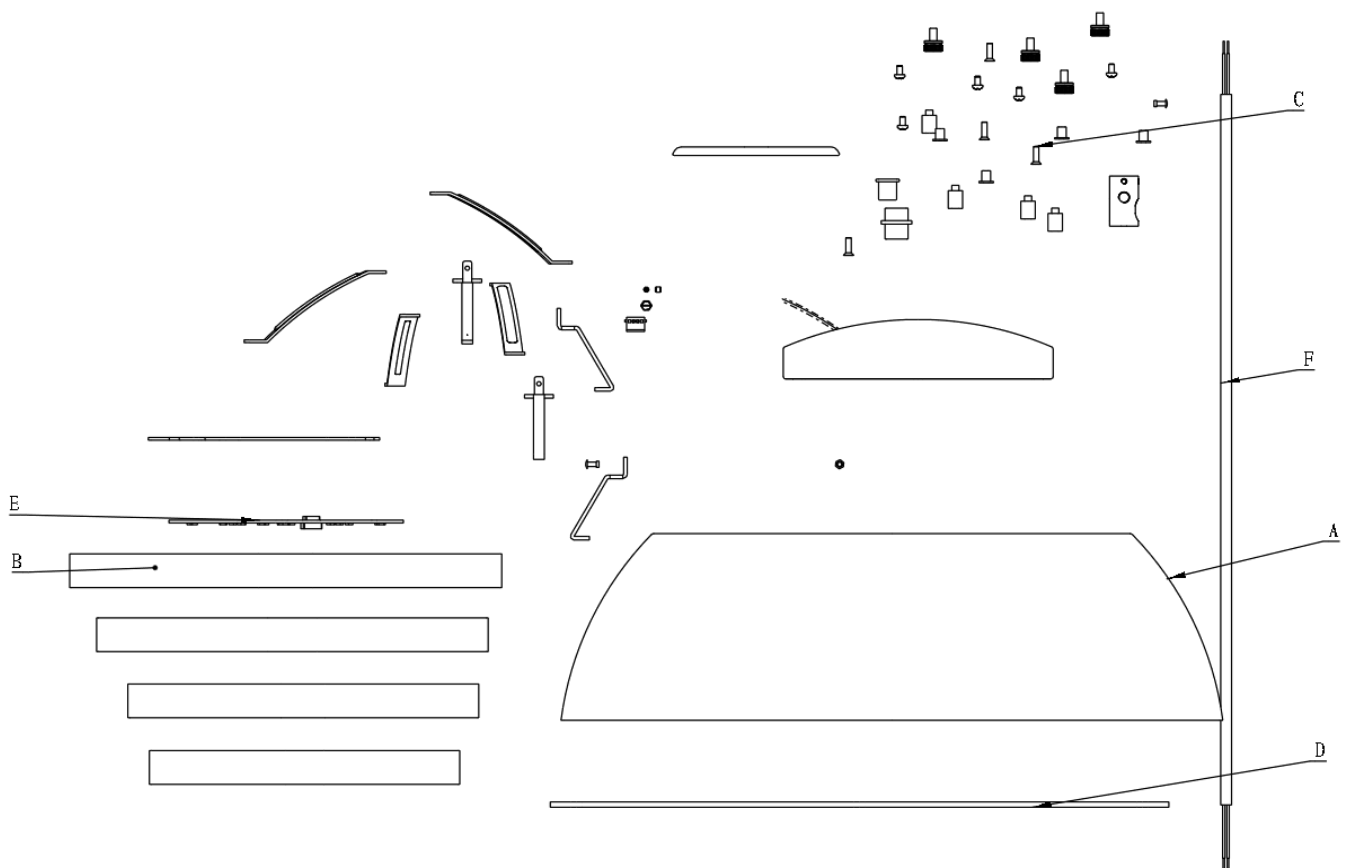
Calculation of emission levels is associated with uncertainty. This means that results may vary from actual levels. By using the PEF method, uncertainties are embedded in the Life Cycle Screening result using statistical methods.



# AJ Royal 500

## Material list

Positions number	Part description	Included substances and materials	Country of origin	Weight% (of the entire product)
A	Aluminium parts	Machined aluminium	CN - China	26,4%
A1	Painting	Wet painting	CN - China	0,3%
B	Lamp shade	Machined stainless steel	CN - China	15,7%
C	Steel screws, bolts and nuts	Machined stainless steel	CN - China	0,3%
D	Diffuser	PMMA	CN - China	12,0%
E	LED	Variety of components	CN - China	2,0%
F	Electrical wiring	TPE and copper	CN - China	3,9%
G	Labels and instructions	Paper	CN - China	0,1%
H	Packaging	Corrugated cardboard	CN - China	29,5%
I	Foam insert	EPS	CN - China	9,8%
				<b>100%</b>



## Life Cycle Screening results

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

AJ ROYAL, Ø500, BLACK, BLK TEX, LED 2700K 30W.

### Production of the product

Average climate emission:

**55 KG CO<sub>2</sub>-e**

Lower boundary: 20 CO<sub>2</sub>-e

Upper boundary: 270 CO<sub>2</sub>-e

### Production of the product and use stage

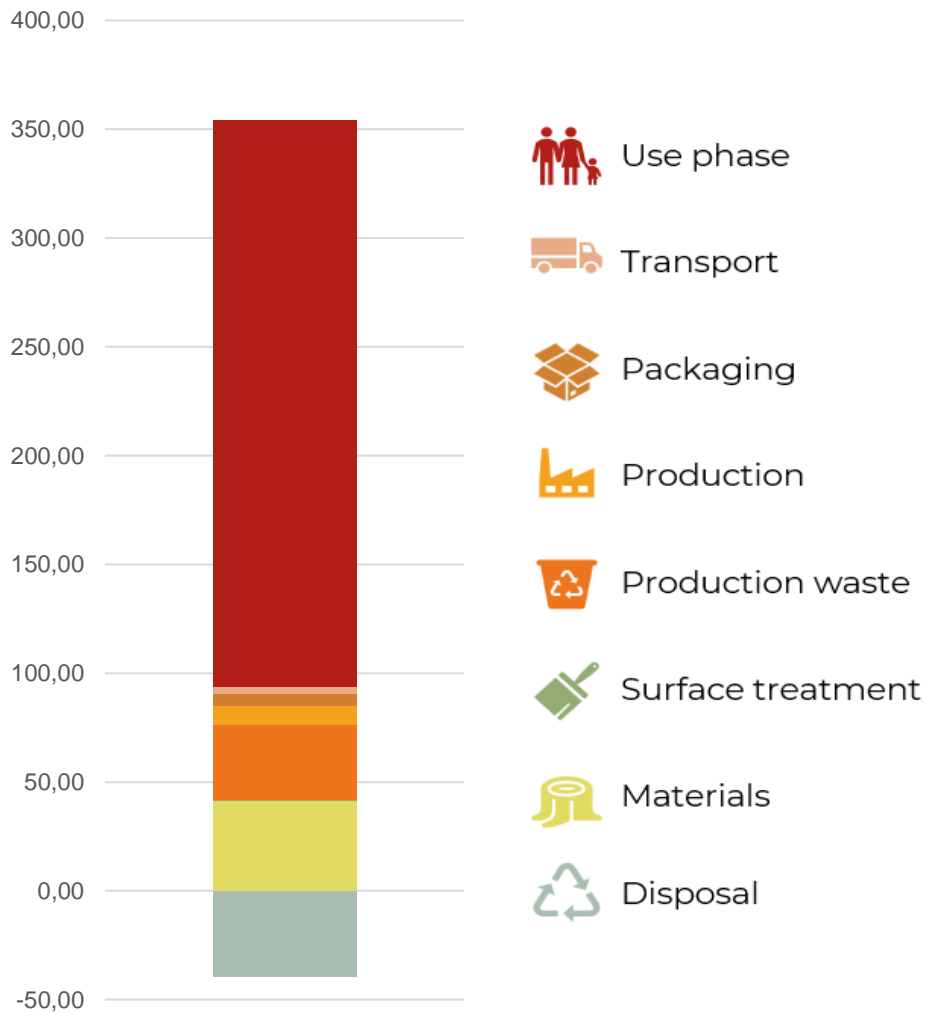
Average climate emission:

**310 KG CO<sub>2</sub>-e**

Lower boundary: 280 CO<sub>2</sub>-e

Upper boundary: 530 CO<sub>2</sub>-e

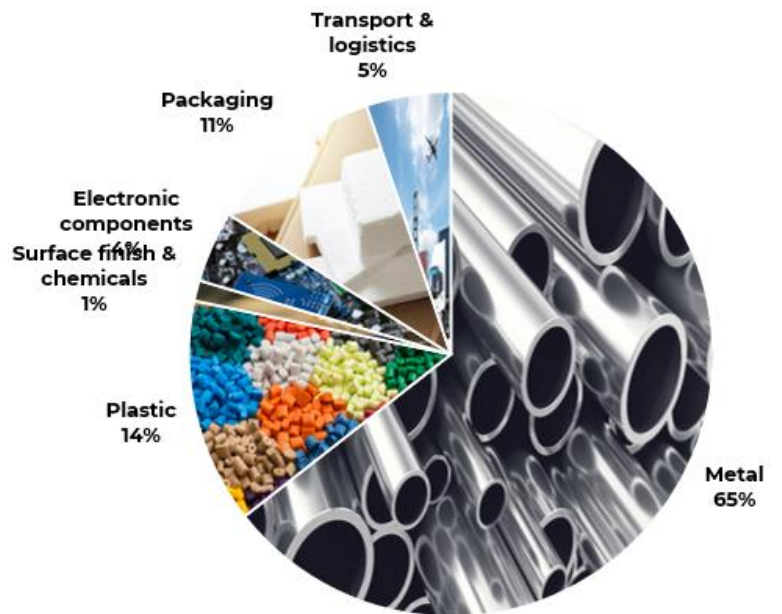
### Carbon stages



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)\***

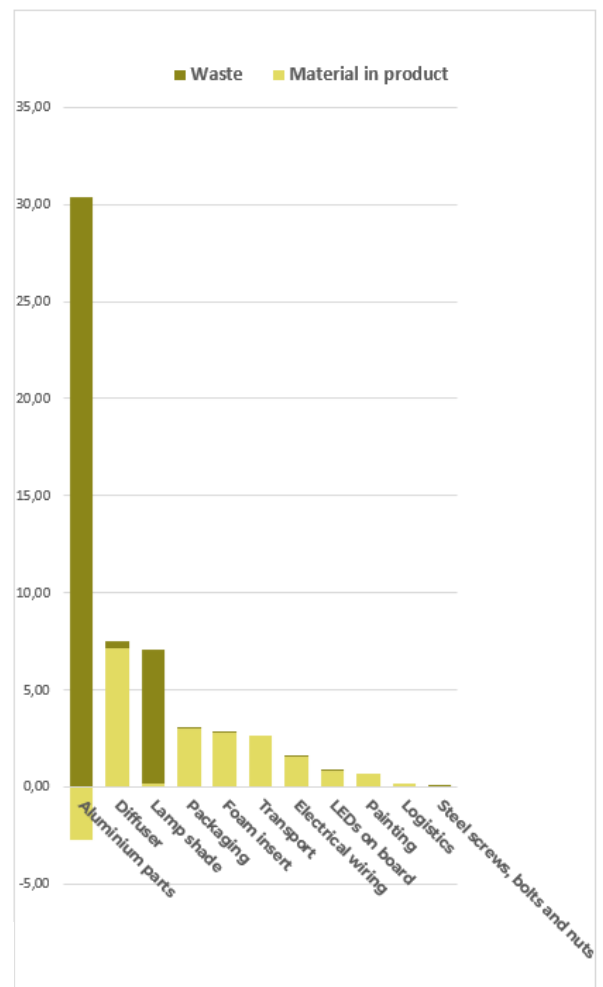
Group	Total impact		
Solid Wood	0,00	kg CO2-e	0,0%
Wood based board	0,00	kg CO2-e	0,0%
Metal	34,88	kg CO2-e	64,4%
Plastic	7,51	kg CO2-e	13,9%
Glass/Stone/Ceramics	0,00	kg CO2-e	0,0%
Surface finish & chemicals	0,68	kg CO2-e	1,3%
Upholstery	0,00	kg CO2-e	0,0%
Cover	0,00	kg CO2-e	0,0%
Electronic components	2,38	kg CO2-e	4,4%
Packaging	5,88	kg CO2-e	10,9%
Transport & logistics	2,82	kg CO2-e	5,2%



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
Aluminium parts	Alu. machined	27,70 kg CO2-e
Diffuser	Acrylic (PMMA)	7,51 kg CO2-e
Lamp shade	Stainless steel machined	7,05 kg CO2-e
Packaging	Corrugated cardboard box printed sustainable fiber	3,02 kg CO2-e
Foam insert	Polystyrene foam (EPS)	2,79 kg CO2-e
Transport	Total emission from transport - all steps	2,64 kg CO2-e
Electrical wiring	Electric cable (PVC)	1,58 kg CO2-e
LEDs on board	LED 3,5x3,5x2,0mm (59mg)	0,80 kg CO2-e
Painting	Or kg powder consumed	0,68 kg CO2-e
Logistics	Total emission from warehouse + own retail	0,18 kg CO2-e
Steel screws, bolts and nuts	Stainless steel machined	0,13 kg CO2-e



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