louis poulsen

Environmental Product Specifications

— LP Circle

Product description

- The fixture emits diffused light via a high-efficiency acrylic diffuser.
- The diffuser, which is encircled by a voluminous colored or white ring, is hidden when viewed from low angles.
- Angling the inner side of the reflector ring 5° creates a comfortable and decorative graduation of the light from the diffuser.
- The luminaire ‚floats' 34 mm below the ceiling, creating a visual lightness.

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Product info

Mounting

Depends on the variant

Finish

White, Black, Pale Petroleum or Yellow.
Powder coated.

Light source

LED

Sizes and weights

Width x Height x Length (mm)

267 x 133 x 267 Max 2.9 kg

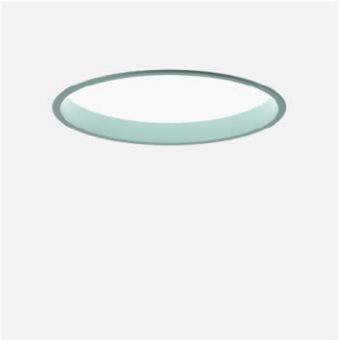
458 x 140 x 458 Max 5.2 kg

Class

Ingress protection IP20. Electric shock protection I.

Product family

LP Circle Suspended



LP Circle Recessed

LP Circle Semi Recessed

LP Circle Surface Mounted

Product variants

Dimension	Colour	Mounting	Cable type	Light source	Lumen	Shield	Lighting control
Ø 260	Black	Suspended	BLK PL	LED 3000K (ra90)	-	OPAL	Dali high output
Ø 450	Colour of your choice	SUSPENDED	BLK TEX	LED 3000K 13W	1020	PRISMATIC	Dali kelvin adjustable
	Pale petroleum		WHT PL	LED 3000K 25W	1083		Dali/switch-dim
	White		Wht tex	LED 3000K 35W	1194		
	Yellow		WHT TEX	LED 4000K (ra90)	1251		
				LED 4000K 13W	1315		
				LED 4000K 25W	1357		
				LED 4000K 35W	2320		
				LED KELVIN ADJUSTABLE	2356		
					2424		
					2564		
					2655		
					2659		
					2741		
					3631		
					3748		

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 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.

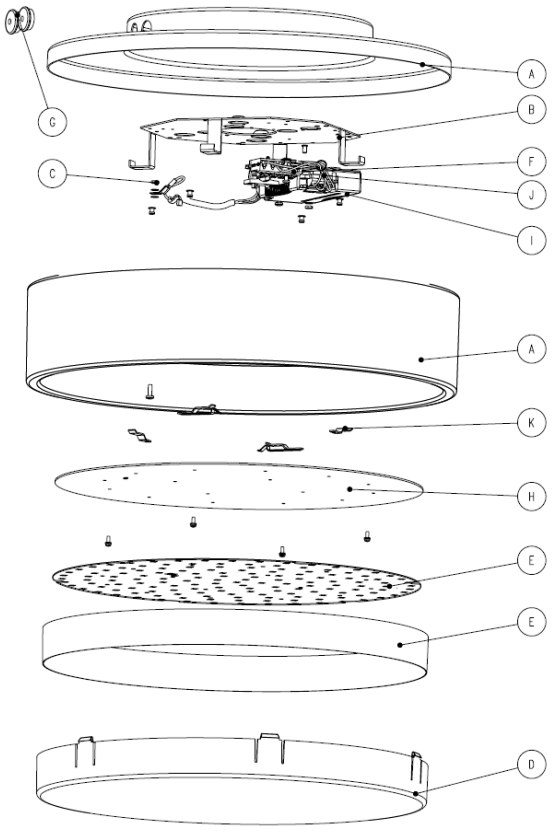
This product is designed so that 100% of the product can be disassembled and reused.

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	Steel plate	Aluzinc	DK - Denmark	45,5%
A	Painting	Powder coating	AT - Austria	1,4%
B	Steel plate	Steel	DK - Denmark	8,8%
C	Steel screws, bolts and nuts	Steel	CN - China	0,5%
D	Diffuser	Plastic – PMMA	DK - Denmark	12,6%
E	Plastic ribbon	Plastic – PET	GB - Great Britain	0,5%
F	Plastic parts	Plastic – Polyamide	CN - China	0,3%
G	EPDM Plug	Rubber – EPDM	DK - Denmark	0,3%
H	LED board	Variety of components	CN - China	8,6%
I	Driver	Variety of components	FI - Finland	2,4%
J	Wires	Silicone and copper	IT - Italy	0,7%
K	Steel plate	Aluzinc	DK - Denmark	0,2%
L	Instruction and labels	Paper	DK - Denmark	0,4%
M	Packaging	Corrugated cardboard	DK - Denmark	16,8%
N	Plastic bag	Plastic - LDPE	LT - Lithuania	1,1%
				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.

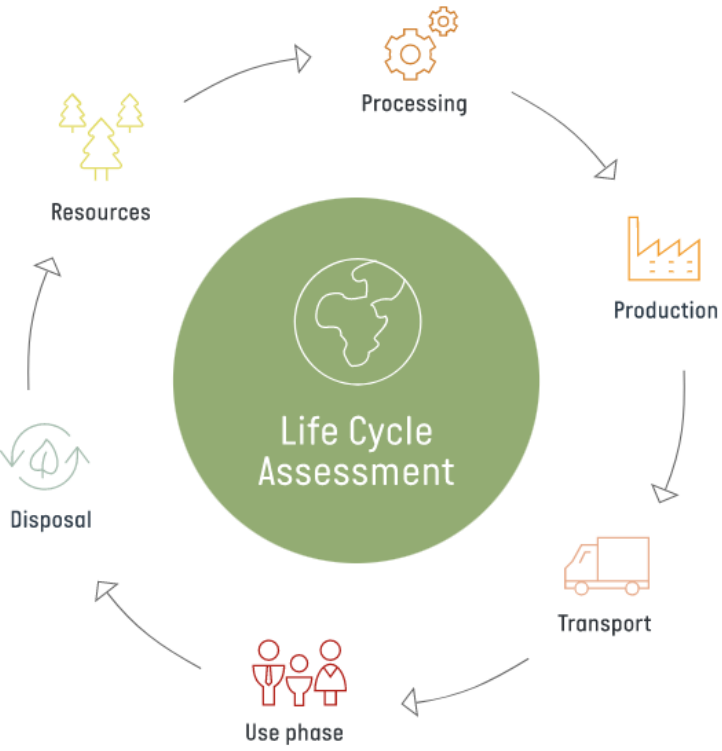
The electricity is based on the European energy mix, with data from: the European Environment Agency Greenhouse gas emission intensity of electricity generation.

Transport

1.200 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:

LP CIRCLE EXTENSION, Ø450, BLACK, LED 3000K 25W

Production of the product

Average climate emission:

40 KG CO2-e

Lower boundary: 33 CO2-e
Upper boundary: 77 CO2-e

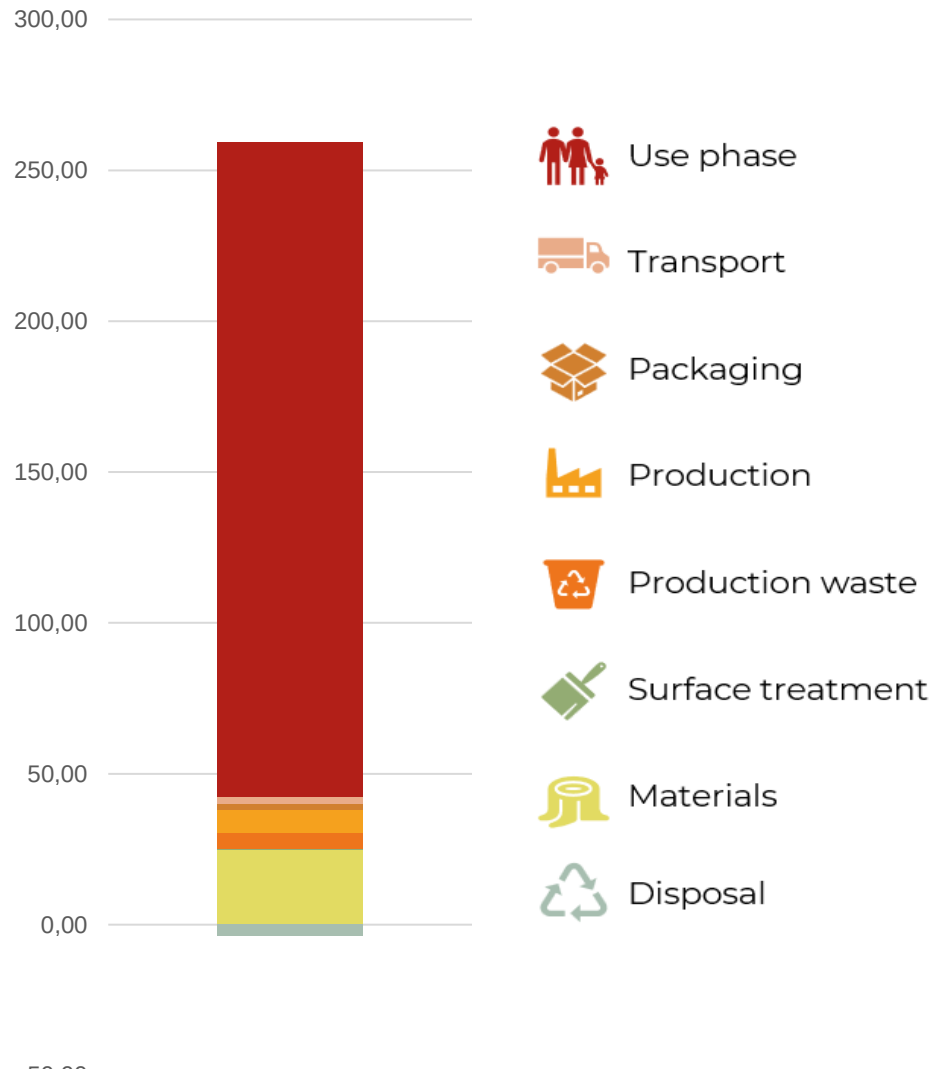
Production of the product and use stage

Average climate emission:

260 KG CO2-e

Lower boundary: 250 CO2-e
Upper boundary: 280 CO2-e

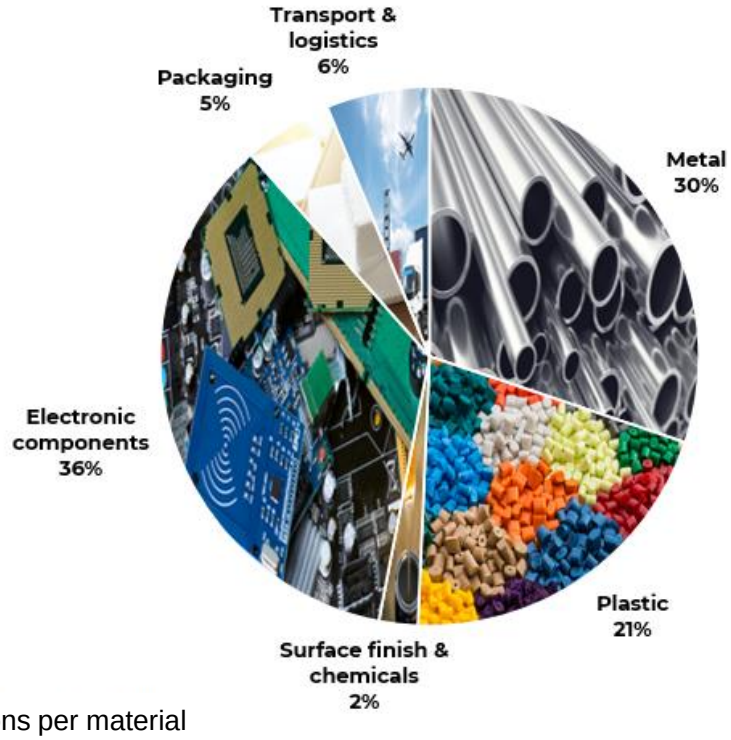
Carbon stages



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)**

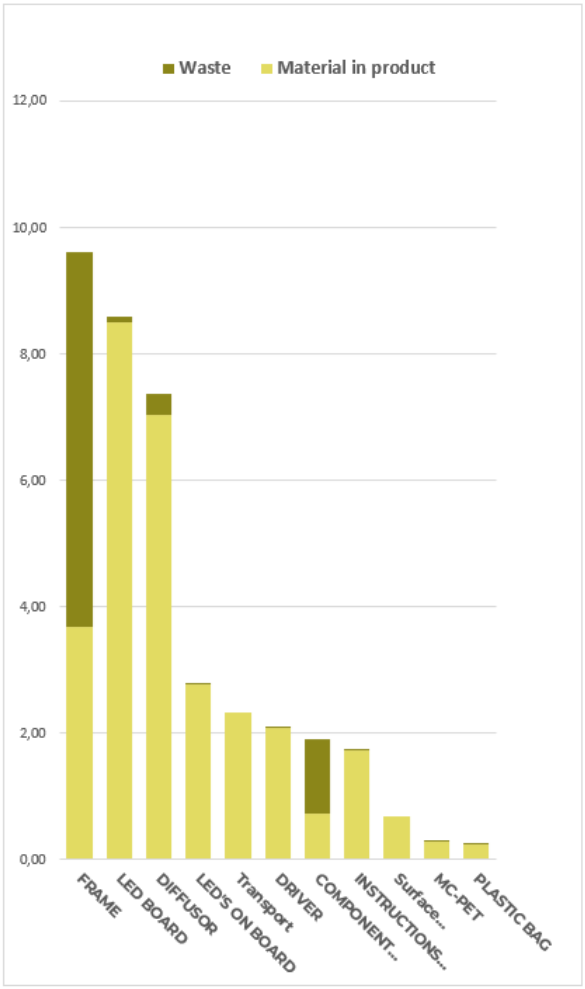
Group	Total impact		
Solid Wood	**0,00**	*kg CO2-e*	**0,0%**
Wood based board	**0,00**	*kg CO2-e*	**0,0%**
Metal	**11,70**	*kg CO2-e*	**30,2%**
Plastic	**7,96**	*kg CO2-e*	**20,5%**
Glass / Stone / Ceramics	**0,00**	*kg CO2-e*	**0,0%**
Surface finish & chemicals	**0,90**	*kg CO2-e*	**2,3%**
Upholstery	**0,00**	*kg CO2-e*	**0,0%**
Cover	**0,00**	*kg CO2-e*	**0,0%**
Electronic components	**13,74**	*kg CO2-e*	**35,4%**
Packaging	**2,07**	*kg CO2-e*	**5,3%**
Transport & logistics	**2,40**	*kg CO2-e*	**6,2%**



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	
FRAME	Steel bracket/bent steel sheet	**9,60**	*kg CO2-e*
LED BOARD	1 layer aluminium (1,6mm thicknesss) PCB surface mount	**8,59**	*kg CO2-e*
DIFFUSOR	Acrylic (PMMA)	**7,37**	*kg CO2-e*
LED'S ON BOARD	LED 3,5x3,5x2,0mm (59mg)	**2,80**	*kg CO2-e*
Transport	Total emission from transport - all steps	**2,32**	*kg CO2-e*
DRIVER	Power supply with cables + connectors	**2,11**	*kg CO2-e*
COMPONENT PLATE	Steel bracket/bent steel sheet	**1,90**	*kg CO2-e*
INSTRUCTIONS AND LABELS	Paper B&W print sustainable fiber	**1,75**	*kg CO2-e*
Surface finish,Chemicals1	Or kg lacquer/paint water on metal	**0,68**	*kg CO2-e*
MC-PET	Polyamide (PA6)	**0,31**	*kg CO2-e*
PLASTIC BAG	Polyethylene bag (PE-LD)	**0,25**	*kg CO2-e*



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