louis poulsen

Environmental Product Specifications

— LP Icon LED Upgrade Kit

Product description

- The fixture provides mainly direct downward illumination.
- The shade is lit up from within and creates a soft diffused upwards light.
- Depending on the choice of optics, the downward lighting characteristics will vary.
- The optics types have been designed in different variations to provide different asymmetrical distributions of light.
- The LED-upgrade kit (also referred to as LED Retrofit kit) allows you to replace the old electrical components with a complete modern new LED unit, while retaining the original fixture.

Product info

Mounting

Depends on the variant

Class

Electric shock protection I w. ground or II w/o ground.

Light source

LED 3000K 15W
Lumen: 1527

Product family

LP Icon

LP Icon Wall

Product variants

Light source	Lumen		Light technique	Lighting control	Special accessories
LED 3000K 15W	1527	4045	ASY2	Clo	1500 lumen
LED 3000K 20W	1582	4233	ASYT3	Dpc: nightdim + clo	2000 lumen
LED 3000K 32W	1598	4235			3000 lumen
LED 3000K 39W	1655	4432			4000 lumen
LED 3000K 51W	2010	4806			5000 lumen
LED 3000K 62W	2083	4993			6000 lumen
LED 4000K 15W	2103	5029			
LED 4000K 20W	2180	5225			
LED 4000K 32W	3030	5851			
LED 4000K 39W	3133	6078			
LED 4000K 51W	3171	6123			
LED 4000K 62W	3279	6360			

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	Heat sink	Die-casted aluminium	DK - Denmark	25,6%
B	Aluminium parts	Machined aluminium	DK - Denmark	32,2%
C	Reflector	ASA/ABS	DK - Denmark	7,1%
D	Screws	Stainless steel	CN - China	1,6%
E	Washer	Machined stainless steel	CN - China	0,0%
F	Grommets	PE	DK - Denmark	0,1%
G	LED board	Variety of components	AT - Austria	1,4%
H	LED lens	PMMA	FI - Finland	0,1%
I	Electrical wiring	Variety of components	IT - Italy	3,1%
J	Plastic parts	PA	CN - China	1,1%
K	Driver tridonic	Variety of components	USA - United States	5,8%
L	Spacer bushing	Machined brass	TW - Taiwan	0,1%
M	Gasket	EPDM	DK - Denmark	6,8%
O	Labels and instructions	Paper	DK - Denmark	0,2%
P	Packaging	Corrugated cardboard	PO - Poland	3,0%
Q	Foam inserts	EPS	DK - Denmark	11,7%
R	Plastic bag	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.

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.

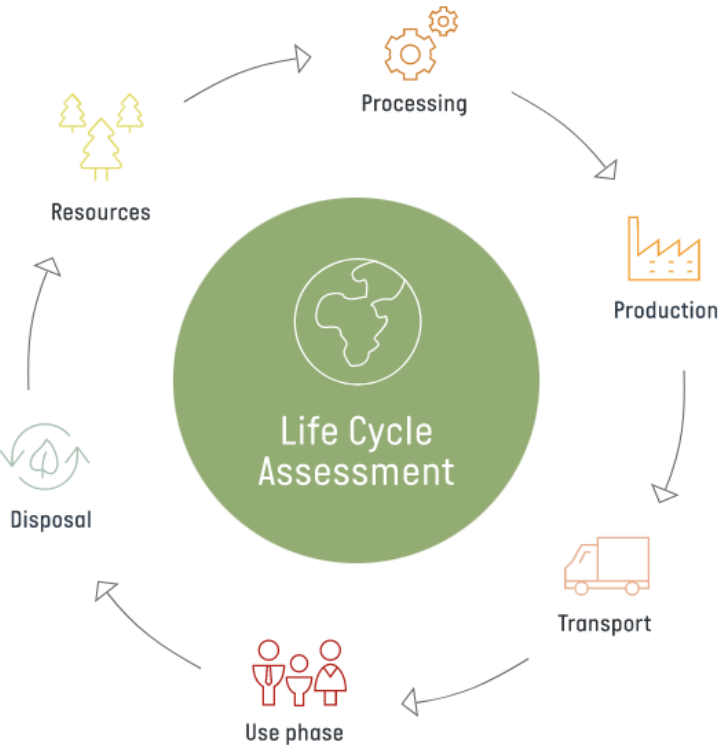
The electricity is based on the European energy mix, with data from: the European Environment Agency Greenhouse gas emission intensity of electricity generation.

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 ICON LED UPGRADE KIT, LED3000K 32W.

Production of the product

Average climate emission:

18 KG CO2-e

Lower boundary: 12 CO2-e
Upper boundary: 100 CO2-e

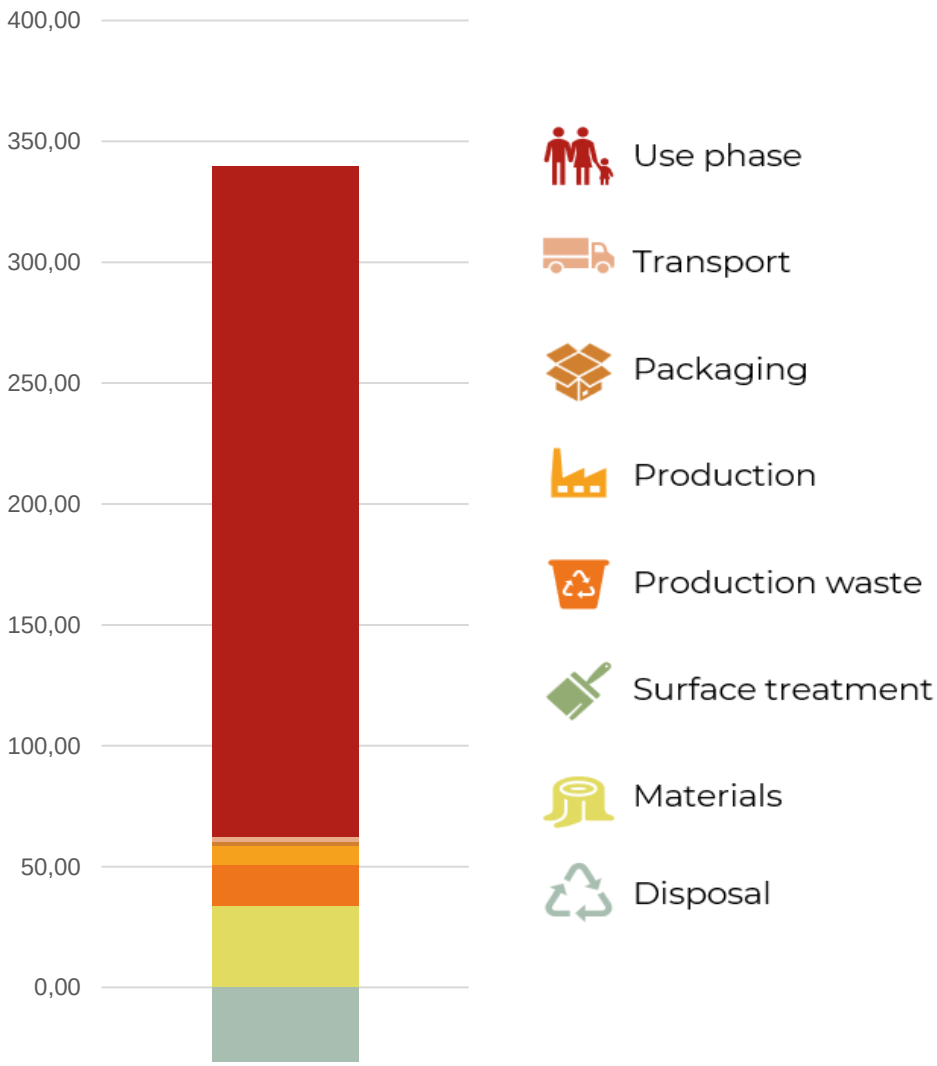
Production of the product and use stage

Average climate emission:

290 KG CO2-e

Lower boundary: 290 CO2-e
Upper boundary: 370 CO2-e

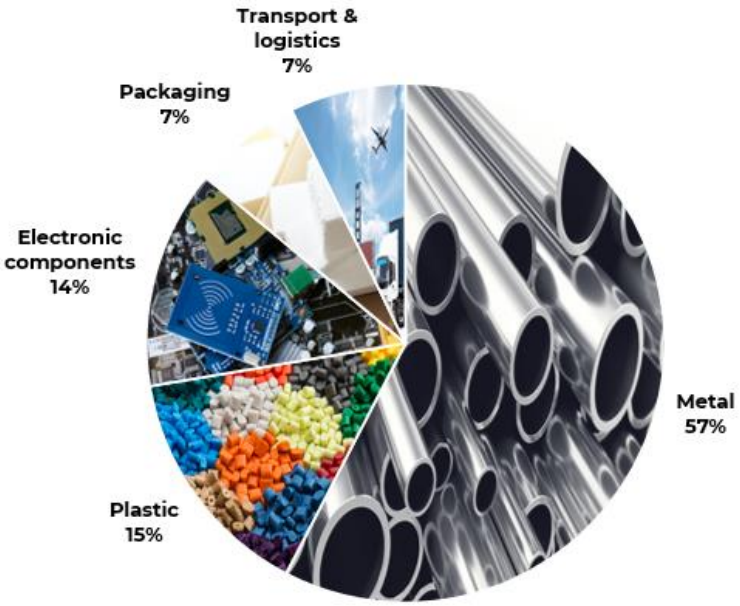
Carbon stages



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)**

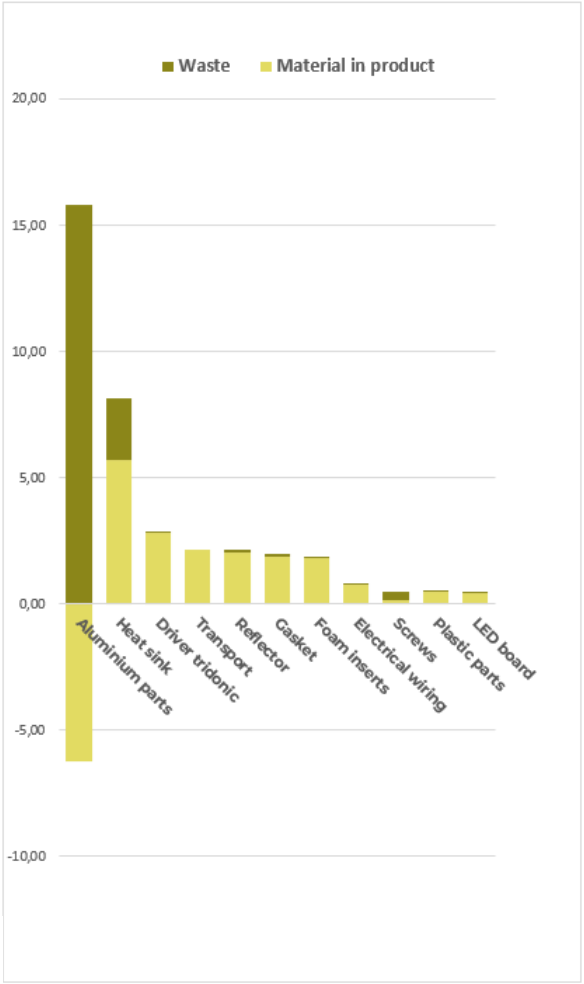
Group	Total impact		
Solid Wood	**0,00**	*kg CO2-e*	**0,0%**
Wood based board	**0,00**	*kg CO2-e*	**0,0%**
Metal	**18,24**	*kg CO2-e*	**57,6%**
Plastic	**4,66**	*kg CO2-e*	**14,7%**
Glass / Stone / Ceramics	**0,00**	*kg CO2-e*	**0,0%**
Surface finish & chemicals	**0,00**	*kg CO2-e*	**0,0%**
Upholstery	**0,00**	*kg CO2-e*	**0,0%**
Cover	**0,00**	*kg CO2-e*	**0,0%**
Electronic components	**4,33**	*kg CO2-e*	**13,7%**
Packaging	**2,13**	*kg CO2-e*	**6,7%**
Transport & logistics	**2,29**	*kg CO2-e*	**7,2%**



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	**9,58**	*kg CO2-e*
Heat sink	Alu. cast	**8,11**	*kg CO2-e*
Driver tridonic	Power supply with cables + connectors	**2,83**	*kg CO2-e*
Transport	Total emission from transport - all steps	**2,14**	*kg CO2-e*
Reflector	ABS/ASA	**2,13**	*kg CO2-e*
Gasket	EPDM rubber BMC	**1,97**	*kg CO2-e*
Foam inserts	Polystyrene foam (EPS)	**1,84**	*kg CO2-e*
Electrical wiring	Electric cable (PVC)	**0,75**	*kg CO2-e*
Screws	Stainless steel screws/bolts	**0,51**	*kg CO2-e*
Plastic parts	Polyamide (PA6)	**0,50**	*kg CO2-e*
LED board	1 layer aluminium (1,6mm	**0,45**	*kg CO2-e*



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