

**louis
poulsen**



Environmental Product Specifications

— LP Grand

Product description

- The circular fixture is a wide family of variants.
- Three different mounting options: wall, ceiling and suspended.
- Three dimensions.
- Three standard colour options on outer ring.



Product info

Mounting

Depends on the variant

Finish

Reflector: Matt-white satin finish. Outer shade (outside): Matt (black and champagne) or gloss (white). Wet painted surface. Diffuser: Glossy.

Light source

LED 3000K 199W, Lumen: 21442

Sizes and weights

Width x Height x Length (mm)

580 x 160 x 580 Max 5.7 kg

880 x 200 x 880 Max 15.5 kg

1480 x 313 x 1480 Max 45.6 kg

320 x 90 x 320 Max 0.0 kg

Class

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

Product family



LP Grand Wall



LP Grand Suspended

Product variants

Dimension	Colour	Mounting	Light source	Lumen	Lighting control
Ø 1480	● Black	Surface mounted	LED 2700K 12W	1052	Dali
Ø 320	● Champagne	Wall & surface mounted	LED 3000K 106W	11010	Phase dimming (mains dimm)
Ø 580	○ White		LED 3000K 12W	1151	
Ø 880			LED 3000K 199W	1166	
			LED 3000K 59W	21442	
			LED 4000K 12W	5159	

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. 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	Bottom reflector	LDPE	IT – Italy	9,7%
B	Diffusor circle	PMMA	SE – Sweden	8,3%
C	Side diffusor	PMMA	KR – Korea	0,3%
D	Clips	PMMA	DK – Denmark	0,2%
E	LED Board	Variety of components	CN – China	6,4%
F	Cord	Variety of components	CN - China	0,3%
G	LED Flexboard	Variety of components	DE – Germany	0,6%
H	Screws and suspension	Stainless steel	TW – Taiwan	1,6%
I	Screws and washers	Stainless steel	CN – China	2,0%
J	Driver bracket	Aluminium	DK – Denmark	2,9%
K	Terminal	Variety of components	DE – Germany	0,2%
L	Drivers	Variety of components	AT – Austria	4,6%
M	Resistor	Variety of components	TH – Thailand	0,0%
N	Wires and cords	Variety of components	IT – Italy	1,5%
O	Ceiling bracket	Steel	SE – Sweden	7,7%
P	Outer suspension	Aluminium	TW – Taiwan	0,7%
P	Painting	Powder coating	DE – Germany	0,3%
Q	Leaf spring	Stainless steel	TW – Taiwan	0,4%
R	Plastic parts	EPDM	DK – Denmark	0,0%
S	Plastic parts	PA	DE – Germany	0,4%
T	Plastic parts	ABS	DK – Denmark	25,2%
U	Labels and instructions	Paper	DK – Denmark	0,2%
V	Packaging	Corrugated cardboard	DK – Denmark	12,2%
W	Inserts	Corrugated cardboard	DK – Denmark	13,8%
X	Plastic bag	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

1,000 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:

LP Grand 580 Surface Mounted, White, LED 3000K, 59W

Production of the product

Total climate emission:

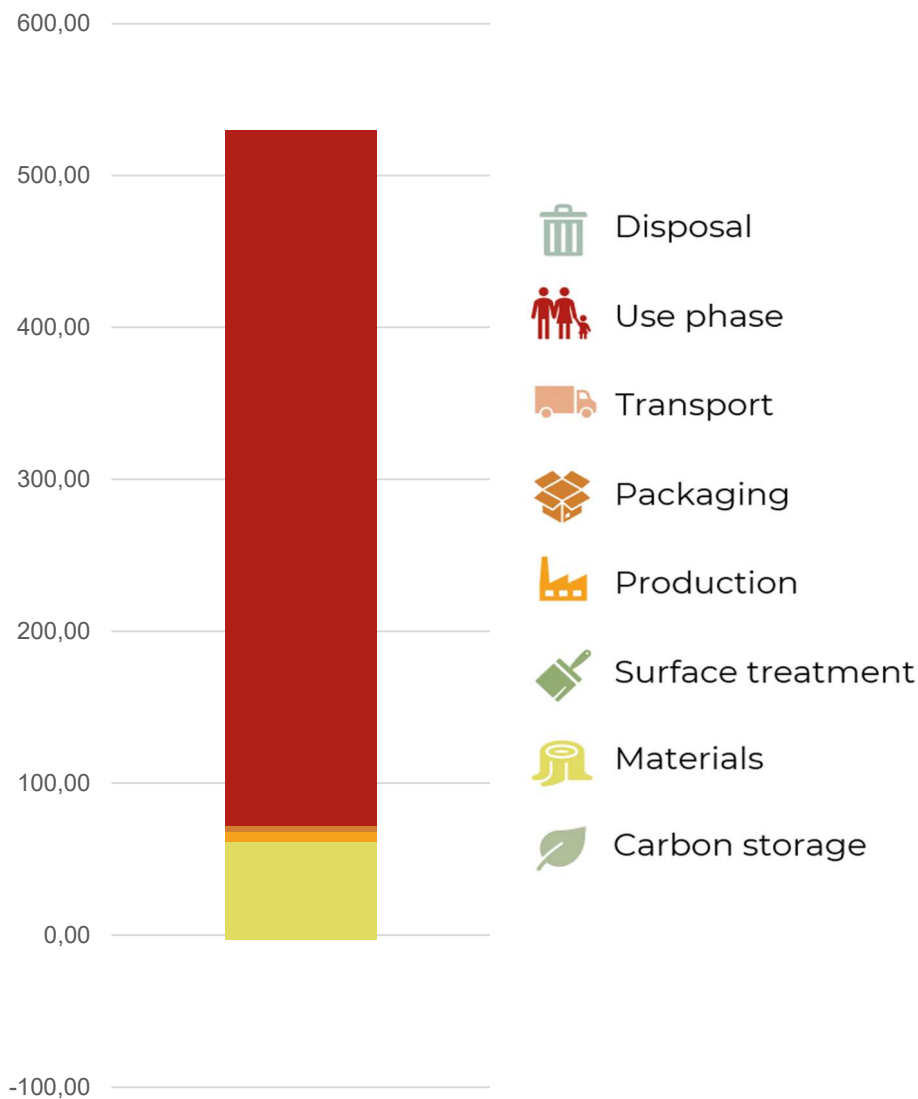
70 KG CO2-e

Production of the product and use stage

Total climate emission:

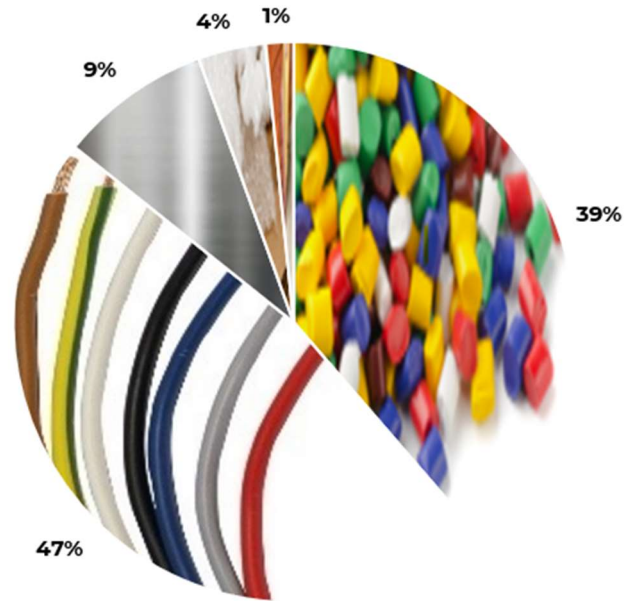
530 KG CO2-e

Carbon stages



Main emission sources (pr material group)*

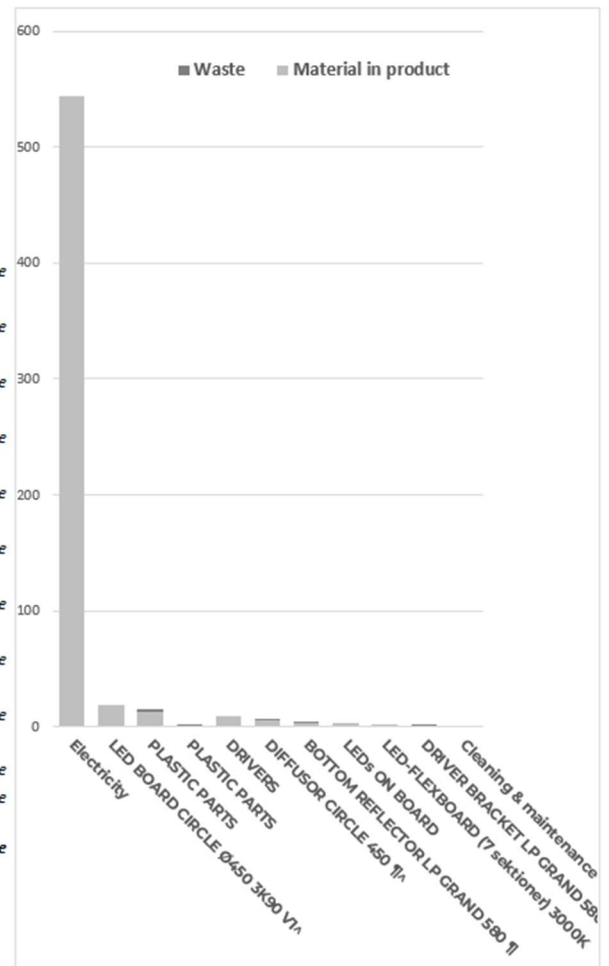
Group	Total impact
Solid Wood	0,00 kg CO2-e
Plastic	27,22 kg CO2-e
Cover	0,00 kg CO2-e
Standard Components	0,00 kg CO2-e
Electronics	33,15 kg CO2-e
Metal	6,17 kg CO2-e
Packaging	2,75 kg CO2-e
Upholstery	0,00 kg CO2-e
Wood Based Board	0,00 kg CO2-e
Surface Finish & Chemicals	1,12 kg CO2-e
Glass / Stone / 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)*

Element	Material	Total impact
Electricity	0	544,23 kg CO2-e
LED BOARD CIRCLE Ø450 3K90 V1^	Electronic board few holes cm2	18,55 kg CO2-e
PLASTIC PARTS	ABS/ASA, molded	15,67 kg CO2-e
PLASTIC PARTS	Polyamide (PA6), molded	0,45 kg CO2-e
DRIVERS	Power supply with cables + connectors kg	8,85 kg CO2-e
DIFFUSOR CIRCLE 450 1 ^	Acrylic (PMMA), molded	6,71 kg CO2-e
BOTTOM REFLECTOR LP GRAND 580 1 ^	Polyethylene (PE-HD), molded	4,13 kg CO2-e
LEDs ON BOARD	LED 3,5x3,5x2m pcs	2,77 kg CO2-e
LED-FLEXBOARD (7 sektioner) 3000K	Or electronic board few holes in kg	2,30 kg CO2-e
DRIVER BRACKET LP GRAND 580 EU	Alu. sheet, punched	1,64 kg CO2-e
Cleaning & maintenance	Cleaning, maintenance &	1,45 kg CO2-e
Total impact from Waste		7,52 kg CO2-e



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