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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

Product family





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	

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.

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. 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%
В	Diffusor circle	PMMA	SE – Sweden	8,3%
С	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%
Н	Screws and suspension	Stainless steel	TW – Taiwan	1,6%
ı	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%
0	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%
Т	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

1.200 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 GRAND EXTENSION, Ø580, WHITE, LED 3000K 59W, DALI

Production of the product

Average climate emission:

80 KG CO2-e

Lower boundary: 75 CO2-e Upper boundary: 130 CO2-e

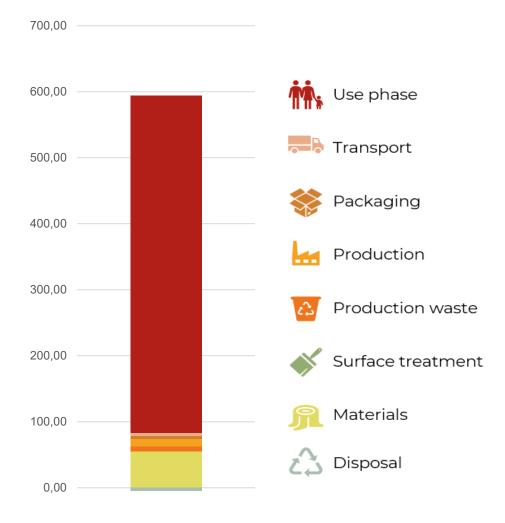
Production of the product and use stage

Average climate emission:

590 KG CO2-e

Lower boundary: 580 CO2-e Upper boundary: 640 CO2-e

Carbon stages

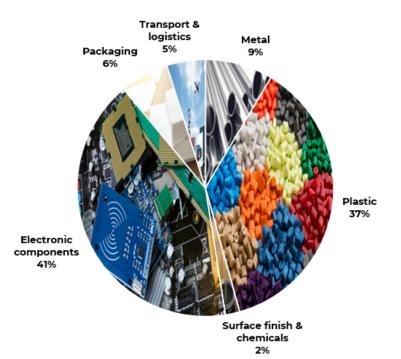


The carbon footprint has been calculated using Målbar version 2.9612; in accordance with the Product Environmental Footprint. The carbon footprint has not been third-party verified. Only to be used for B2B, as comparing alternative results. Comparing data across methodologies is likely to result in inaccurate representations.

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Main emission sources (pr material group)*

Group	То	otal impact		
Solid Wood	0,00	kg CO2-e	0,0%	
Wood based board	0,00	kg CO2-e	0,0%	
Metal	6,65	kg CO2-e	8,5%	
Plastic	28,99	kg CO2-e	37,2%	
Glass/Stone/Ceramics	0,00	kg CO2-e	0,0%	
Surface finish & chemicals	1,41	kg CO2-e	1,8%	
Upholstery	0,00	kg CO2-e	0,0%	
Cover	0,00	kg CO2-e	0,0%	
Electronic components	32,37	kg CO2-e	41,5%	
Packaging	4,79	kg CO2-e	6,1%	
Transport & logistics	3,79	kg CO2-e	4,9 %	



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
PLASTIC PARTS LED-FLEXBOARD (7	Polyamide (PA6) Unspecified PCB surface	15,91	kg CO2-e
sektioner) 3000K LED BOARD CIRCLE Ø450	mounted 1 layer aluminium (1,6mm	14,56	kg CO2-e
3K90 V1^	thicknesss) PCB surface mount	8,62	kg CO2-e
DIFFUSOR CIRCLE 450 ¶^	Acrylic (PMMA) Power supply with cables +	7,43	kg CO2-e
DRIVERS BOTTOM REFLECTOR LP	connectors	5,37	kg CO2-e
GRAND 580 ¶	Polyethylene (PE-LD) Total emission from transport - all	5,06	kg CO2-e
Transport CEILING BRACKET LP	steps	3,65	kg CO2-e
GRAND 580	Steel machined	2,82	kg CO2-e
LEDS ON BOARD	LED 3,5x3,5x2,0mm (59mg) Corrugated cardboard inlay	2,80	kg CO2-e
INSERTS CARD.BOX 593X593X229 LP	sustainable Corrugated cardboard box	-	kg CO2-e kg CO2-e

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

