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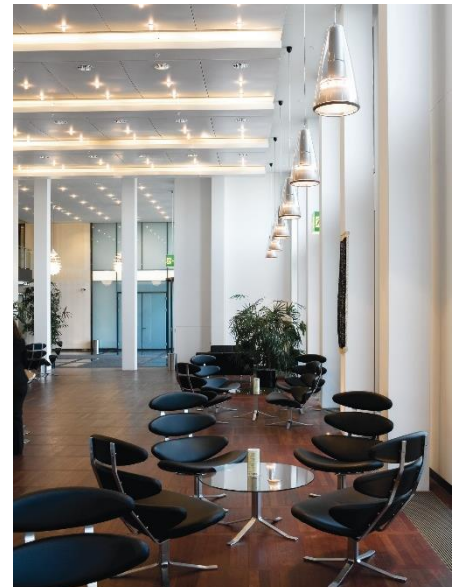
Environmental Product Specifications

— Ballerup Mini

Product description

– Member of downlight system with efficient LED housing.

– Family of two dimensions.

– Range of light distribution parts (LDP) to choose from.

– Easy to change LDPs even after installation.

– Low build-in height.

– Easy to maintain.

– Ceiling locks tighten with screws for secure installation.

Product info

Mounting

Ceiling thickness: 5-32mm. Ceiling Cut-Out: Ø 105mm. Looping: Not approved. Driver hardwired to housing.

Finish

White, powder coated. White opal glass.

Light source

LED 3000K 12W, Lumen: 792

Sizes and weights

Width x Height x Length (mm)
115 x 141 x 115 Max 0.7 kg

Class

Ingress protection IP20. Electric shock protection II.

Product family

Ballerup

AH Mini

Munkegaard Mini

Basic Mini

Product variants

Light source
LED 3000K 12W

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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 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	Steel parts	Machined steel	DK – Denmark	12,4%
A	Glasflig Ballerup micro	Machined aluminium	DK – Denmark	0,2%
A	Stainless steel	Machined stainless steel	CN – China	0,3%
A	Painting	Powder coating	DE – Germany	0,5%
B	O-ring	NBR	DE – Germany	1,4%
C	Ballerup micro glass	Opal glass	IT – Italy	4,7%
D	House mini downlight	Die-casted aluminium	CN – China	18,4%
E	Aluminium parts	Machined aluminium	DK – Denmark	2,3%
F	LED board	Variety of components	DK – Denmark	0,6%
G	LED holder	Variety of components	DE – Germany	0,4%
H	Screws	Stainless steel	CN – China	1,2%
I	Connect box helag	Variety of components	SE – Sweden	0,8%
J	Driver	Variety of components	IT – Italy	9,0%
K	Electrical wiring	Variety of components	IT – Italy	4,3%
L	Labels and instructions	Paper	DK – Denmark	1,1%
M	Packaging	Coruggated cardboard	DK – Denmark	36,2%
N	Inserts	Corrugated cardboard	DK – Denmark	5,9%
O	Plastic bag	LDPE	LT - Lithuania	0,2%
				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.

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Life Cycle Screening results

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

Ballerup Mini, LED 3000K, 12 W.

Production of the product	Production of the product and use stage
Average climate emission:	Average climate emission:
## 15 KG CO_2-e	## 120 KG CO_2-e

|			
Lower boundary:	11 CO_2-e	Lower boundary:	110 CO_2-e
Upper boundary:	45 CO_2-e	Upper boundary:	150 CO_2-e

Carbon stages
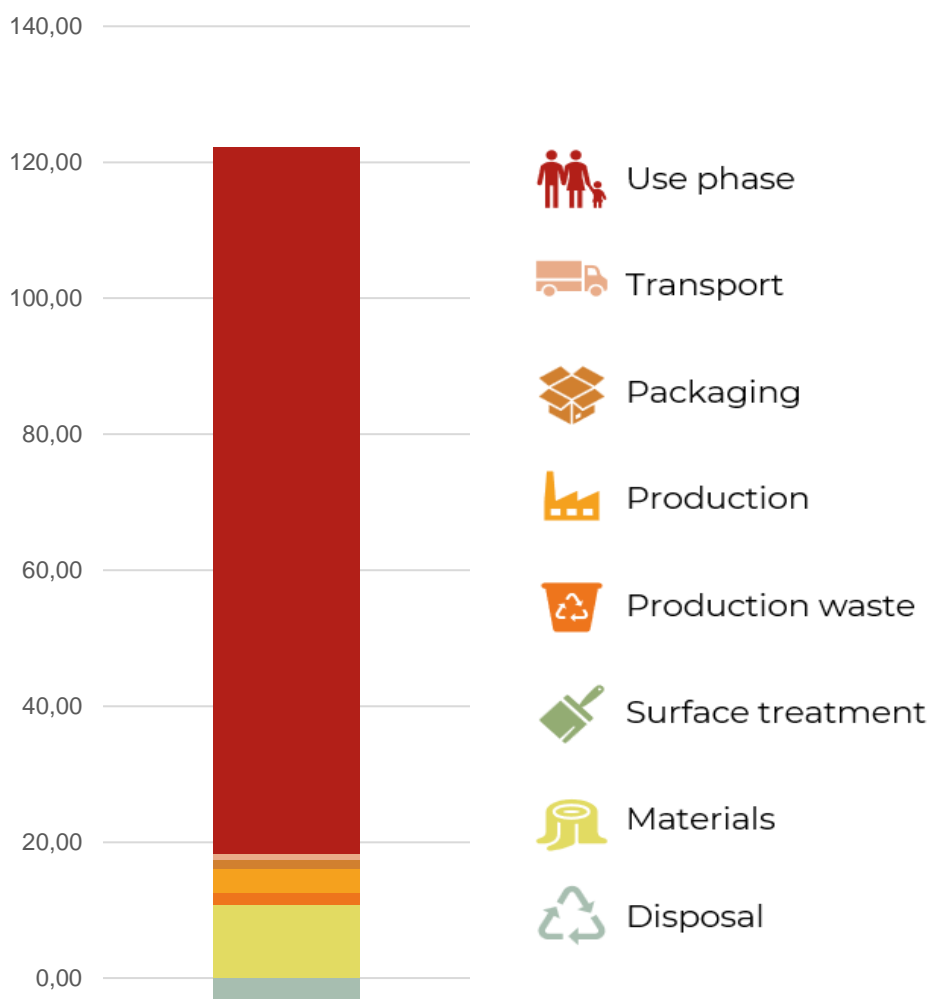
The carbon footprint has been calculated using Målbar version 2.9612; in accordance with the Product Environmental Footprint.
The carbon footprint has not been third-party verified. Only to be used for B2B, as comparing alternative results.
Comparing data across methodologies is likely to result in inaccurate 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	5,34	kg CO2-e	37,5%
Plastic	0,30	kg CO2-e	2,1%
Glass / Stone / Ceramics	1,38	kg CO2-e	9,7%
Surface finish & chemicals	0,37	kg CO2-e	2,6%
Upholstery	0,00	kg CO2-e	0,0%
Cover	0,00	kg CO2-e	0,0%
Electronic components	4,75	kg CO2-e	33,3%
Packaging	1,28	kg CO2-e	9,0%
Transport & logistics	0,85	kg CO2-e	5,9%

Transport & logistics 6%
Packaging 9%
Metal 37%
Electronic components 33%
Surface finish & chemicals 3%
Glass / Stone / Ceramics 10%
Plastic 2%
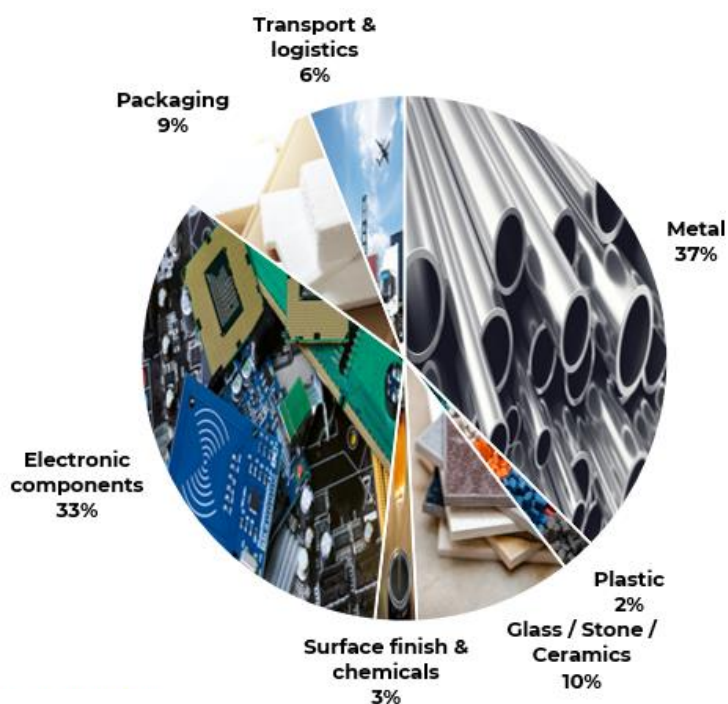
The values presented here represent total emissions per material group (incl. material, production, transport, waste, CO2e uptake)

Main emission sources *(pr element)**

Element	Material	Total impact	
HOUSE MINI DOWNLIGHT LED	Alu. cast	4,52	kg CO2-e
DRIVER	Power supply with cables + connectors	2,43	kg CO2-e
LED HOLDER	Unspecified PCB surface mounted	1,65	kg CO2-e
BALLERUP MICRO GLASS ¶	Virgin glass hand made	1,38	kg CO2-e
PACKAGING	Corrugated cardboard box printed sustainable fiber	1,05	kg CO2-e
Transport	Total emission from transport - all steps	0,78	kg CO2-e
CEILING RING BALLERUP MINI LED	Steel machined	0,52	kg CO2-e
ELECTRICAL WIRING	Electric cable (PVC)	0,38	kg CO2-e
POWDER G1 WHITE CA. RAL 9016 GL.25 (035)	Or kg powder consumed	0,37	kg CO2-e
LEDs ON BOARD	LED 3,5x3,5x2,0mm (59mg)	0,26	kg CO2-e
COLLAR (NEW) Ø54/51 L=22	Steel machined	0,20	kg CO2-e
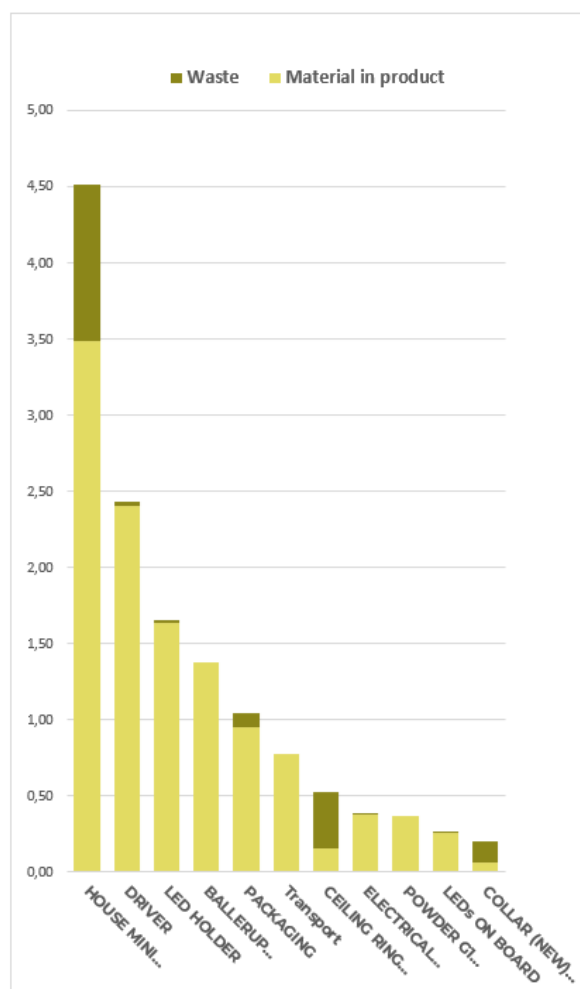
The values presented here represent total emissions per element (incl. material, production, transport, waste, CO2e uptake)