PLANET LAMP

DESIGNED BY METTE SCHELDE





Please Wait to be Seated is committed to sustainability in the design and manufacture of products. This committment has allowed us to differentiate our approach and processes in several development areas.

Please Wait to be Seated has chosen to provide Environmental Product Declarations for its products, to show the environmental impact through their Life Cycle.

For more details, please visit: www.pleasewaittobeseated.com

Shown in the picture: Planet Lamp indian red disc

Disclaimer: This EPD was not written to support comparative assertions. EPDs are based on PCRs and different calculation models that are checked with our deisgners and manufacturers. The EPDs show the life cycle assessment and impact of products from different materials. The user should be aware of the certainty in the final results due to the quality of the source of the data in the study and software tool used to conducts the calculations.



Please Wait to be Seated Planet Lamp EPD (Environmental Product Declaration)

This declaration is an environmental product declaration (EPD) which rely on Life Cycle Assessment (LCA) to provide information on a number of environmenal impacts of products over their life cycle. EPDs are registered documents that communicate transparent and comparable information about the life-cycle environmental impact of products in a credible way. LCAs do not address the sitespecific environmental impacts of raw materials involved in the product, nor are they meant to assess human health toxicity. EPDs can complement but not replace tools and certifications that are designed to address these impacts.

PRODUCT DEFINITION & PRODUCT DESCRIPTION

The discs are attached by magnets and can therefore be moved around to your liking. The indirect ambient halogen light appears soft and creates shadows on the wall according to how the disks are attached to the main steel bar.

Designer: Mette Schelde

A solid brass disc. A polished aluminum disc. A powder coated coloured steel disc in either Cedar Green, Electric Blue, Fig Purple, Indian Red or Navy Blue.

MEASUREMENTS

H: 98 cm W: 36 cm D: 12 cm

Brass disc: ø32 cm. Polished aluminum disc: ø18 cm Powder coated coloured steel: ø25 cm G9 5W LED bulb and a 2 meter long black visible cord

ATTRIBUTE	VALUE
Product Category	Light
Product Dimensions	H: 98 cm x W: 36 cm x D: 12 cm
Product Mass	3.20 kg (7.5 lbs.)
Post-consumer recycled content	18%
Additional features of reference product	Discs options

Table 1: Reference product attributes

FUNCTIONAL UNIT

The functional unit is one unit of light source to spread indirect ambient halogen light which appears soft and creates shadows on the wall according to how the discs are attached to the main bar steel.

The discs are attached by magnets and can therefore be moved around the structure or changed.

MATERIAL COMPOSITION

The material composition of the declared Please Wait to be Seated Planet Lamp is given in Table 2.

MATERIAL	KG, PER LAMP	LBS, PER LAMP
ABS	0,030	0,066
Aluminium	0,600	1,322
Polyethylene (PE-HD Molded	0,090	0,198
Steel	2,77	6,106
Viscose	0,040	0,088

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IMPACT ASSESMENT CATEGORIES

Main emission sources (pr material group) calculated in KG is given in Table 3.

MATERIAL	TOTAL IMPACT, KG CO2 EMISSION
Electronics	8,16 KG Co2-e
Metal	26,44 KG Co2-e
Packaging	8,48 KG Co2-e
Surface Finish & Chemicals	6,27 KG Co2-e

Table 3: Main emission sources (pr material group)

LIFE CYCLE STAGES

The life cycle stages are summarized in the flow diagram shown in the figure below. A cradle-to-gate analysis was conducted for this EPD.



- Materials aquisition and pre-processing starts when the material is extracted from nature and ends when the material reaches the production facility or service delivery stage.
- The production stage is a cradle-to-gate stage which is an assessment of a partial product life cycle from resource extraction (cradle) to the factory gate, before it is transported to the consumer. This process starts with the product components entering the production facility and ends with the final product until the delivery stage included.
- Product distribution and storage are included in the next stage, along with product usage and maintenance. This use stage begins when the consumer receive the product and it includes repair in the next 2 years of usage, after the puchase.
- The end-of-life stage starts when the product is ready for disposal, which includes the return to nature, or transformed to be a recycled or reused one.

IMPACT ASSESMENT - CLIMATE BAR

The Målbar tool calculates the total climate footprint emitted from the product. This is calculated according to the EU Product Environmental Footprint (EU PEF) rules and presented according to EN 14067 (Carbon footprints of products). The Carbon Footprint is the total quantity of greenhouse gas (GHG) emissions associated with the full lifecycle of the product.

In this case, that 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.). The tool calculations are very accurate and will also reflect the geographical location but they are based on average material and process data.

Details about Målbar: https://www.maalbar.dk/

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IMPACT ASSESMENT - CLIMATE BAR DATA



Table 4: Total Climate Emission

Main emission sources (pr material group)

Group	Total impact
Solid Wood	0,00 kg CO2-e
Plastic	0,00 kg CO2-e
Cover	0,00 kg CO2-e
Standard Components	0,00 kg CO2-e
Electronics	8,16 kg CO2-e
Metal	26,44 kg CO2-e
Packaging	8,48 kg CO2-e
Upholstery	0,00 kg CO2-e
Wood Based Board	0,00 kg CO2-e
Surface Finish & Chemicals	6,27 kg CO2-e
Glass / Stone / Ceramics	0,00 kg CO2-e



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Table 5: Main emission sources (pr material group)

12



Table 5: Main emission sources

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REFERENCES

EU PEF (2012) European Commission: Institute for Environment and Sustainability H08 Sustainability Assessment Unit, Product Environmental Footprint (PEF) Guide.

ISO. (2006) ISO 14044: Environmental management - Life Cycle assessment - Requirements and guidelines.

CONTACT INFORMATION

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