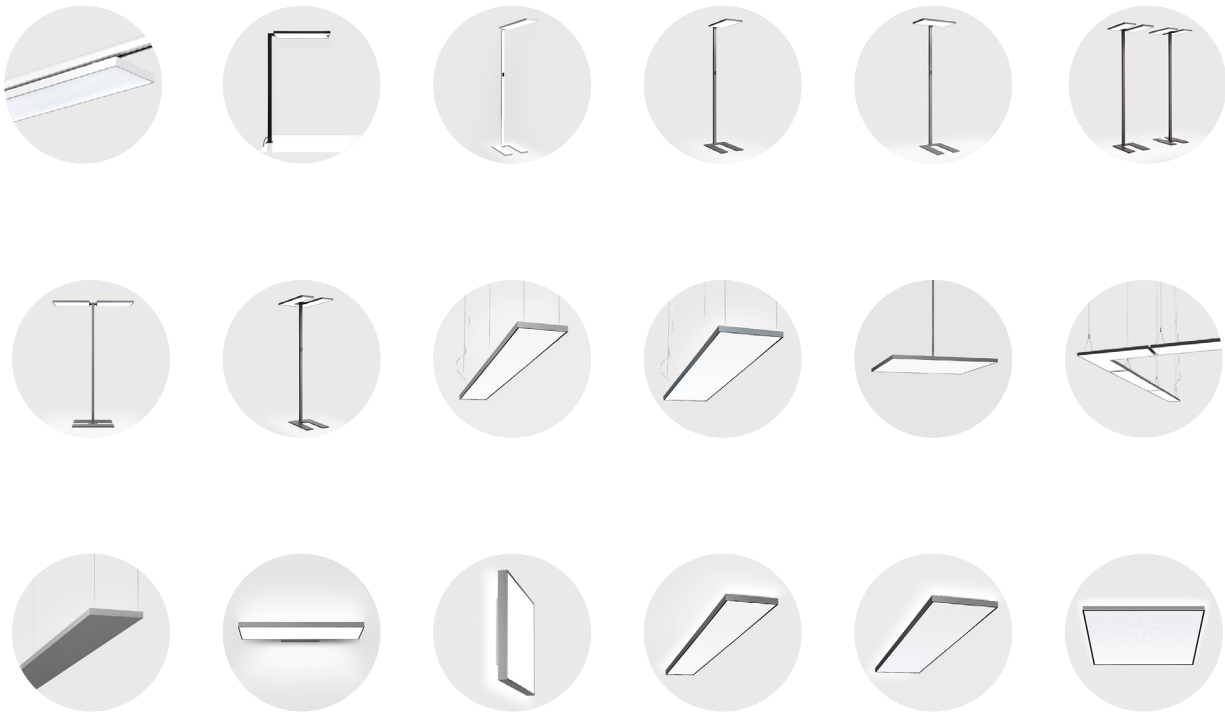


lightnet

Highlighting
Architecture



Environmental Product Declaration Cubic Evolution

Environmental Product Declaration Type III (EPD)
ITB number 601/2024
Issue date: 20 02 2024 Expiry date: 20 02 2029





General Information

The declaration is a Type III Environmental Product Declaration (EPD) based on EN 15804 +A2 and verified by an independent auditor in accordance with ISO 14025.

It contains information on the environmental impact of the declared building materials. Their aspects have been verified by an independent entity in accordance with ISO 14025. Basically, a comparison or evaluation of EPD data is only possible if all the comparable data have been created in accordance with EN 15804 +A2 (see clause 5.3 of the standard).

LCA analysis	A1 - A3, A4, B6, C1 - C4 and D according to EN 15804 (from cradle to grave with options)
Year of development of the EPD	2023
Declared product lifetime	23 years
PCR	ITB-PCR A (based on EN 15804)
Declared unit	Cubic Evolution F2 luminaire with a weight of 20.72 kg
Reason for implementation	B2B
Representativeness	Europe, 2022

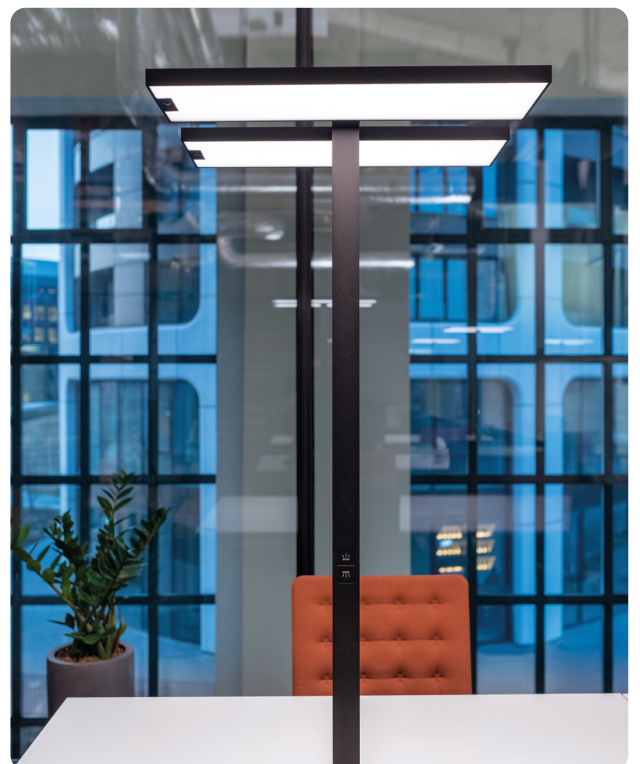
Company information

Lightnet is one of the leaders in the aesthetic arrangement of architecture with light. The company applies unique, self-developed LED technology. In the production of every single component of lighting fixtures, the company maintains the principles of sustainability. Lightnet aims to achieve a carbon-free, closed-loop economy through carbon-neutral manufacturing processes and the production of 100% recyclable products.

Lightnet was founded in 2001. The company manufactures cassette luminaires, downlights and decorative luminaires. The company focuses on combining sophisticated architecture and aesthetic lighting for offices, medical facilities, schools, as well as catering establishments, hotels, shops, residential buildings and other public facilities. Lightnet manufactures products that can be mounted on ceilings, walls, tables and floors. The company takes an individual approach to each customer, designing the lighting to suit the needs and purpose. Lightnet only sells its products to order, saving resources in production, storage and disposal. Production facilities are equipped with intelligent software that optimises the material to resource ratio and saves energy.



Crisis Skylight Centre, Edinburgh, UK
Cubic Y4



Sky Park by Zaha Hadid, Bratislava, Slovakia
Cubic F5
Planning: www.thelight.sk
Photography: www.kudivaniphotography.com

Product description and application

Lightnet employs more than 600 people in 7 different countries, not only in Europe but also in North America. The company offers 14 families of various luminaires suitable for installation on different surfaces. The EPD's environmental declaration developed as part of this document covers its Cubic Evolution family, which includes 18 different types of luminaires.

Cubic Evolution luminaires

Cubic stands for timeless cubist architectural structures that are ahead of all trends for aesthetic and functional reasons. The design of this product is based on the idea of a cubist form that is as minimalist as possible. With its geometric shape and available colours, the Cubic family will fit perfectly into modern interiors of various types of buildings. In response to customer needs, the range includes luminaires in several versions: wall, floor, surface-mounted, recessed and pendant. The latest generation of Cubic meets the highest technological requirements, such as lateral light emission, LED technology, upward lens technology, wide light distribution.

Lightnet's products are manufactured using the latest technologies, with the aim of maximising savings in both electrical and thermal energy during the production process. The production facilities are powered by electricity from photovoltaic panels and wind turbines. With timeless design and high quality products, the company follows the idea of a closed-loop economy by producing materials that can be dismantled and recycled. One of the materials used in production is aluminium, which the company sources from high-efficiency smelters powered by renewable energy. The pallets used by the company are made from its own recycled cardboard boxes. By constantly optimising our products, Lightnet aims to achieve the highest levels of productivity, durability and quality. Lightnet offers a 5 year warranty on all products.

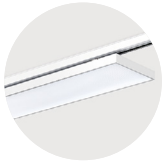


MDR, Leipzig, Germany
Cubic P6

Summary of Cubic Evolution series:

This EPD covers a wide range of our Cubic Evolution luminaire versions:

Cubic Evolution Track



Cubic Evolution C4 |
3-Phase Track

Technical product information:

LED surface-mounted luminaire with 3-phase track adapter. Direct only light distribution. Luminaire body with minimalistic overall height made of aluminium profile. Microprismatic screen with optimized glare reduction especially for workplaces. Satin opal diffuser for general lighting with maximum transmittance and homogeneous lighting. Driver integrated into luminaire housing, optionally switchable or dimmable (DALI). Colour temperature 2200K, 2700K, 3000K, 3500K, 4000K or 6500K. Binning \leq MacAdam 3. Colour rendering CRI > 80, CRI > 90 or Full Spectrum. Adapter for 3-phase adapter options, EUTRAC or GLOBAL.

Cubic Evolution Table



Cubic Evolution
T2/T3 | Table

Technical product information:

LED surface-mounted luminaire with 3-phase track adapter. Direct only light distribution. Luminaire body with minimalistic overall height made of aluminium profile. Microprismatic screen with optimized glare reduction especially for workplaces. Satin opal diffuser for general lighting with maximum transmittance and homogeneous lighting. Driver integrated into luminaire housing, optionally switchable or dimmable (DALI). Colour temperature 2200K, 2700K, 3000K, 3500K, 4000K or 6500K. Binning \leq MacAdam 3. Colour rendering CRI > 80, CRI > 90 or Full Spectrum. Adapter for 3-phase adapter options, EUTRAC or GLOBAL.

Cubic Evolution Floor



Cubic Evolution F1 |
Floor



Cubic Evolution F2 |
Floor



Cubic Evolution F3 |
Floor



Cubic Evolution F5/F6 |
Floor



Cubic Evolution F7 |
Floor

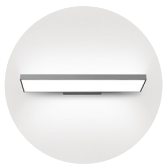


Cubic Evolution F8 |
Floor

Technical product information:

LED free-standing luminaire. Direct-indirect light distribution. Luminaire body with minimalistic overall height made of aluminium profile. Microprismatic screen with optimized glare reduction especially for workplaces with uniform and enhanced light transmission. Intuitive pole mounted control panel for dimming and switching the direct/indirect light separately, joint control of the light chambers with Tuneable White or integration of multi-sensor or swarm technology. Optional: HCL Control for automatic, time dependent, biodynamic lighting. Colour temperature 2700K, 3000K, 3500K, 4000K, 6500K or Tuneable White (2700-6500K). Binning \leq MacAdam 3. Colour rendering CRI > 80, CRI > 90 or Full Spectrum. Rectangular steel base plate, option with U- or Side Cut- Out, colour matching luminaire body. 4m power cable with country-specific plug (EU, CH, UK).

Cubic Evolution Wall



Cubic Evolution W4 |
Wall



Cubic Evolution Y6/X6 |
Wall

Technical product information:

LED surface-mounted luminaire for walls or ceilings. Direct light distribution and indirect lighting corona or direct only light distribution. Tiered luminaire body made of aluminium profile with only 25mm visible frame. Microprismatic screen with optimized glare reduction especially for workplaces. Satin opal diffuser for general lighting with maximum transmittance and homogeneous lighting. Driver integrated into luminaire housing, optionally switchable or dimmable (DALI, Touch-Dim, Casambi). Colour temperature 2700K, 3000K, 3500K, 4000K, 6500K or Tunable White. Binning \leq MacAdam 3. Colour rendering CRI > 80, CRI > 90 or Full Spectrum.

Productname: Cubic Evolution Supended



Cubic Evolution G4/P4 |
200mm Suspended



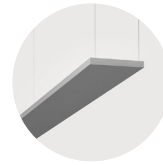
Cubic Evolution G5/P5 |
300mm Suspended



Cubic Evolution G6/P6 |
Square Suspended



Cubic Evolution G4/P4 |
System Suspended



Cubic Evolution U4 |
Suspended

Technical product information:

LED pendant luminaire. Direct-indirect or direct-only light distribution. Luminaire body with minimalistic overall height made of aluminium profile. Microprismatic screen with optimized glare reduction especially for workplaces. Satin opal diffuser for general lighting with maximum transmittance and homogeneous lighting. Driver integrated into luminaire housing, optionally switchable or dimmable (DALI, Touch-Dim, Casambi). Colour temperature 2200K, 2700K, 3000K, 3500K, 4000K, 6500K or Tunable White (2700-6500K). Binning \leq MacAdam 3. Colour rendering CRI > 80, CRI > 90 or Full Spectrum. Height-adjustable parallel cord suspension with transparent power supply cable or rod suspension. Colours ceiling rose match to luminaire body.

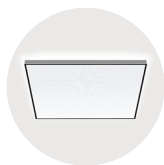
Product name: Cubic Evolution Surface



Cubic Evolution Y4/X4 |
200mm Surface



Cubic Evolution Y5/X5 |
300mm Surface



Cubic Evolution Y6/X6 |
Square Surface

Technical product information:

LED surface-mounted luminaire for walls or ceilings. Direct and indirect light distribution or direct only light distribution. Tiered luminaire body made of aluminium profile with 25mm visible frame. Microprismatic screen with optimized glare reduction especially for workplaces. Satin opal diffuser for general lighting with maximum transmittance and homogeneous lighting. Indirect light with innovative lens technology for wide-angle ceiling illumination. Driver integrated into luminaire housing, optionally switchable or dimmable (DALI, Touch-Dim, Casambi). Colour temperature 2700K, 3000K, 3500K, 4000K, 6500 or Tunable White. Binning \leq MacAdam 3. Colour rendering CRI > 80, CRI > 90 or Full Spectrum.

Life Cycle Assessment (LCA) – general principles

Declared unit

The declared unit is a Cubic Evolution F2 luminaire with an average output of 11100lm/68W and a U-shaped base. The declared luminaire weighs 20.27 kg. Luminaires in this family have a similar material composition and equipment, with slight differences in proportion of no more than 5% of the total emissions.

Data Quality

The data for calculating modules A1–A4 come from the audited LCI inventory data of the individual plants. The data quality has been assessed according to Annex E of EN 15804 + A2. In terms of technical representativeness, processes with a „very good“ quality level represent 99% of the values for the climate change indicators. In terms of geographical and temporal representativeness, the process was rated „very good“.

Databases

The data for the calculations were taken from Eco-invent v. 3.6, Ecoinvent v. 3.8 and from the Bionova databases available in the Bionova OneClickLCA software. The characterisation factors are CML ver. 4.2 based on EN 15804+A2.

System Boundaries

The life cycle analysis of the declared products includes modules A1–A3, A4, B6, C1–C4, D („from cradle to grave with options“) according to EN 15804 and ITB PCR A.

System Limits

The material, electricity, gas and fuel consumption of Lightnet's plants has been recorded 100%. The assessment includes all relevant parameters resulting from the recorded production data. This includes all materials used in production, electricity, gas and fuel consumption as well as direct production waste. Packaging materials were also recorded. The Lightnet luminaires are packaged in cardboard boxes and paper made from recycled paper and cardboard waste.

Modules A1–A2 Raw material supply and transport

The raw materials used in the production of Lightnet luminaires come from various countries both within and outside Europe. They are supplied from Poland, Germany, the UK, Norway, as well as Turkey and China. These raw materials include materials such as PMMA, steel sheet, aluminium, and glass epoxy laminate. The impacts of both the production and extraction of these raw materials are detailed in Module A1. Data regarding raw material transport was collected directly from the plants. Transport is generally by truck. For the calculations in module A2, average values for fuels in Europe were used. Global fuel averages were used for the calculation of module A2.

Module A3 Manufacturing

The production process of Cubic Evolution luminaires is shown in the diagram on pages 13 and 14. Depending on the type, the luminaires consist of a body, pole and base (floorstanding luminaires) and suspension (pendant luminaires). Electricity and gas are consumed in the paint shop during production. Internal transport is by truck.

Module A4 Transport

The finished products are shipped to customers in various countries around the world. Transport to Germany is by road using diesel or petrol trucks and to the USA by planes. The average transport distance to Germany is 678 km and to the USA 6885 km. Calculations for emissions from natural gas and oil combustion were made on the basis of emission factors from the KOBIZE database.

Module B6 Operational energy use

For an average power luminaire, the power consumption when operating at 100% is 68 W. Assuming operation on a schedule of 8 hours per day and an average of 250 working days per year, this luminaire will consume 135 kWh.

This scenario can be considered representative of mixed-use facilities (e.g. offices, hotels, restaurants). Geography of the electricity mix is modelled by sales shares and is representative for Germany (93,5%) and USA (6,5%).

Module C1 De-construction demolition

It is assumed that the dismantling is usually done manually or that the use of power tools has a negligible impact on the environment. Therefore, no contribution to the impact categories of this module is reported and the environmental impact of this process is considered equal to zero.

Module C2 Transport

Transportation of the discarded product as part of the waste processing. In this process, it is assumed that the distance to the waste treatment plant is 100km.

Module C3 Waste processing

It was assumed that after dismantling the luminaire, about 95 % of the aluminium and 95 % of the steel contained can be recycled.

Module C4 Disposal

It was assumed that after dismantling the product, about 5 % of the aluminium and steel and 100 % of the plastics contained in the product would be disposed of in a landfill.

Module D Reuse, recovery and recycling potential product stage

Module D presents the burdens and benefits of recycling. The loads and benefits result from the export of secondary materials and the energy which comes from incineration and landfilling. Benefits are assessed at the point of functional equivalence, i.e. where substitution of virgin raw material takes place. The benefits of the recycling process for aluminium and steel are considered. To obtain a net score

for post-consumer scrap from the product system, the contribution of post-consumer scrap contained in the assessed product is subtracted from the post-consumer scrap recycled at the end of the life cycle.

Information additional

Allocation

The classification in this study was done according to the ITB PCR A guidelines. The production of the luminaires for which the input data was collected takes place in Lightnet's manufacturing facilities. The Cubic Evolution product family includes various luminaire types such as free-standing, table, recessed, surface-mounted and pendant luminaires. The luminaires differ slightly in the composition of components and mounting accessories. These impacts can be allocated on the basis of product weight. All impacts resulting from the extraction of the raw materials used for production are assigned to module A1. The manufacture of the products is based 67% on raw materials and 33% on recycled materials. 75% of the aluminium used is recycled. The impact of internal transport is reported in module A2. The consumption of electricity, gas, fuel and waste for the entire production process is part of module A3.

Period of data collection

The period January to December 2022 serves as the initial data base for calculating reported products.

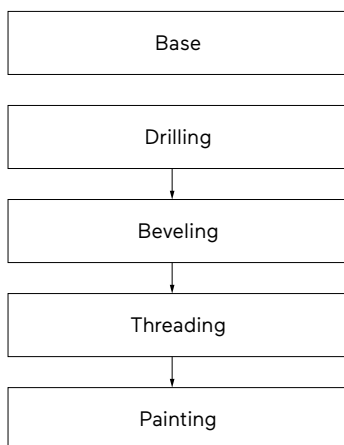
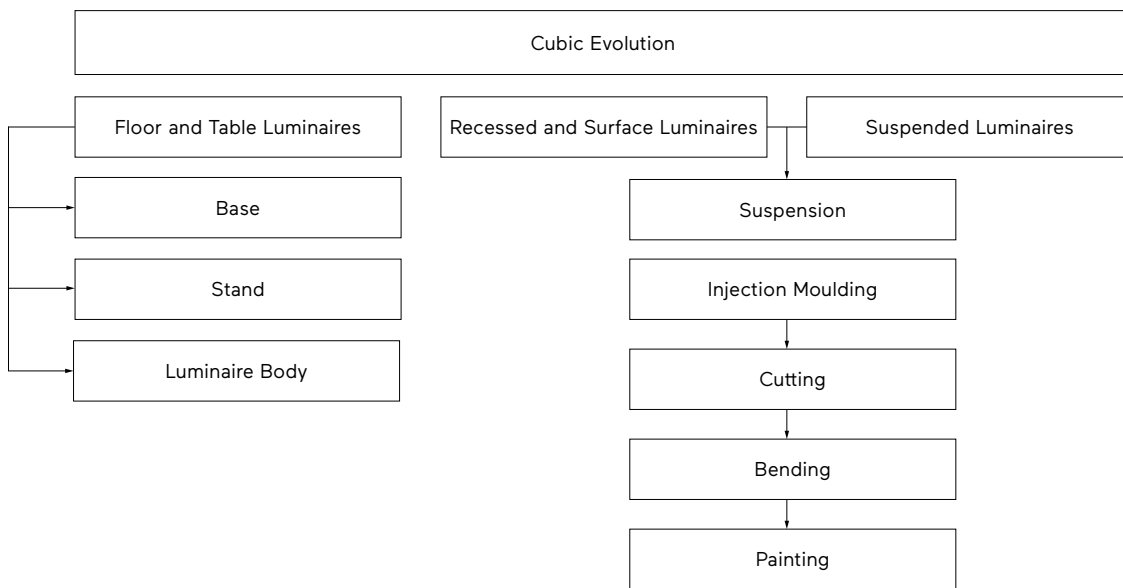
Assumptions and estimates

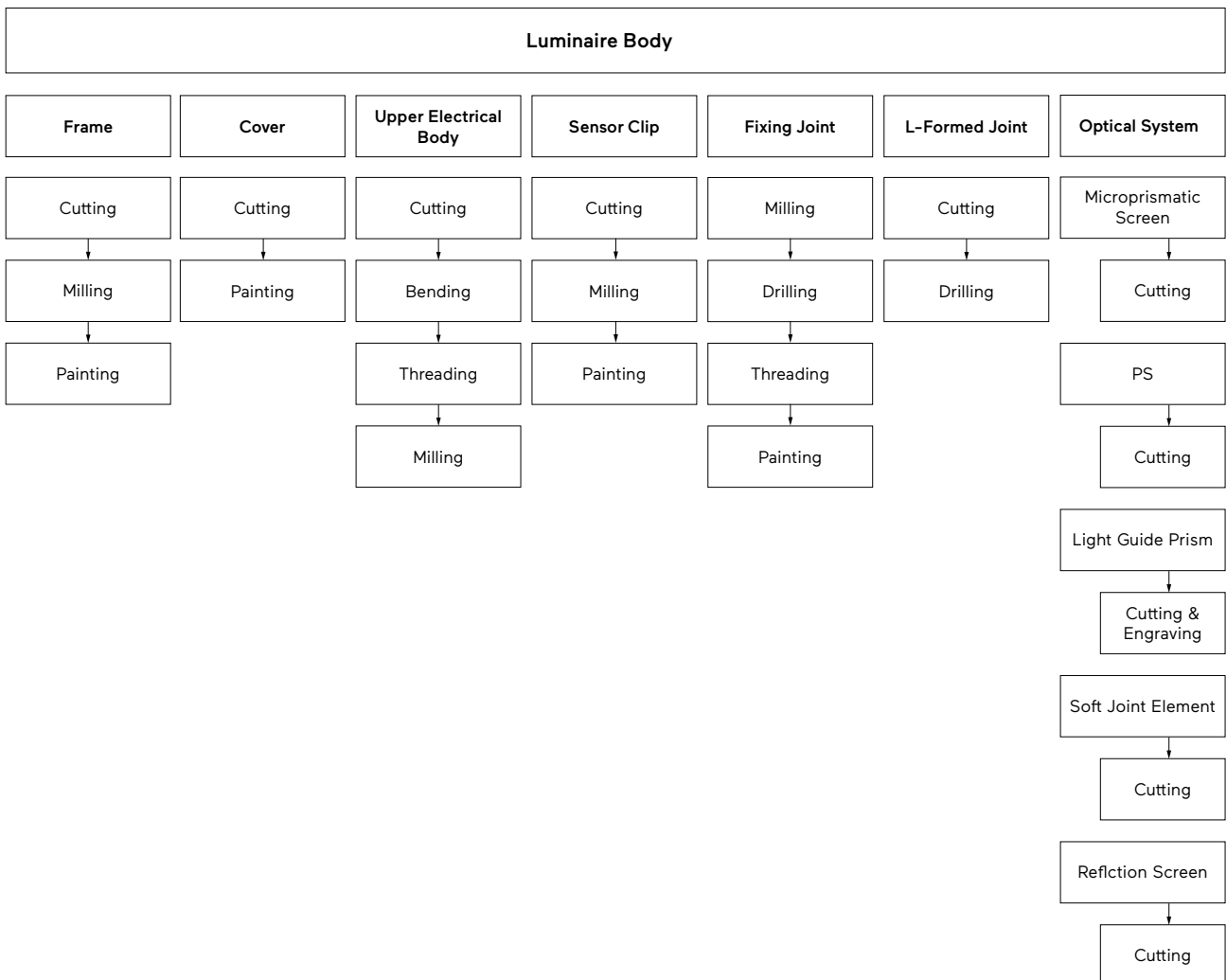
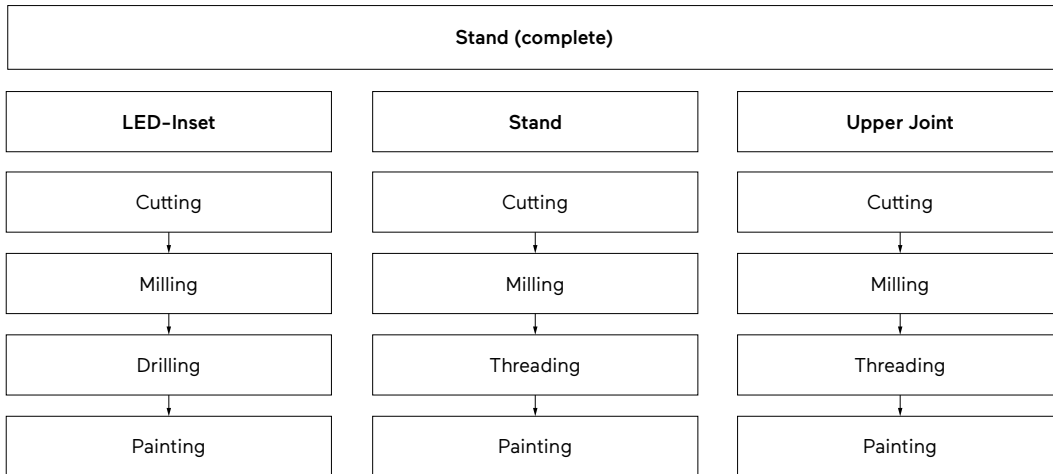
The aggregated and presented impacts determined for a representative product provide results that can be proportionally applied to all products in the Cubic Evolution family.

Calculation rules

The LCA was conducted in accordance with the EN 15804+A2 standard and the ITB PCR A document (v1.6, 2023).

The production diagrams of the luminaires in the Cubic Evolution family are shown below, divided into table and standing, recessed and built-in and suspended luminaires.





Life cycle assessment (LCA) - results

Declared unit

The declared unit is Cubic Evolution F2 luminaire produced by Lightnet. The following indicates which LCA assessment modules were included in the assessment:

	Product stage			Construction process stage		Use stage							End of life stage			Resource recovery stage	
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recyclingpotential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	x	x	x	x							x		x	x	x	x	x
Geography	GL	GL	PL	GL							EU WW		EU WW	EU WW	EU WW	EU WW	EU WW
Specific data used																	
Variation – products																	
Variation – sites																	

Aronyms: GL = Global, EU = Europe, WW = worldwide, PL = Poland

As the raw materials in the production stage provide the main contribution to the environmental balance results, there is a linear relationship between the weight of the raw materials and the environmental impact. It is assumed that the differences in the proportions of materials are not significant, resulting in no more than 5% differences in the total emissions. For further results for other dimensions and luminaire variants of the Cubic Evolution family, please use the following formula:

$$P(x) = [P(x1)/x1]*x$$

P(x): indicator for new declared product,

P(x1): the indicator obtained for the product representing the product type,
(e.g. global warming potential (GWP))

x: mass of the new declared product

x1: weight of the product representing the product type

Results for Cubic Evolution series

Environmental impacts

Indicator	Unit	A1	A2	A3	A1-A3	A4	B6	C1	C2	C3	C4	D
Global warming potential - total	kg CO ₂ eq.	5.63E+01	3.78E-01	4.23E+01	1.15E+02	6.08E+01	1.62E+03	0.00E+00	1.84E-01	4.45E-01	2.58E-01	-6.16E-02
Global warming potential - fossil	kg CO ₂ eq.	5.60E+01	3.78E-01	4.64E+01	1.18E+02	6.11E+01	1.62E+03	0.00E+00	1.84E-01	4.52E-01	2.58E-01	-6.13E-02
Global warming potential - biogenic	kg CO ₂ eq.	1.61E-01	2.76E-04	-4.12E+00	-3.24E+00	1.99E-02	1.26E+00	0.00E+00	1.34E-04	-6.64E-03	6.26E-05	-2.25E-04
Global warming potential - LULAC	kg CO ₂ eq.	5.10E-02	1.14E-04	3.89E-02	2.75E-01	3.69E-03	1.60E-01	0.00E+00	5.54E-05	3.41E-04	3.85E-05	-8.52E-05
Depletion potential of the stratospheric ozone layer	kg CFC 11 eq.	1.60E-06	1.32E-07	1.56E-06	4.56E-06	1.39E-05	3.66E-05	0.00E+00	4.33E-08	6.02E-08	9.14E-09	-9.95E-09
Acidification potential	mol H ⁺ eq.	3.11E-01	1.83E-03	4.61E-01	9.00E-01	3.21E-01	2.24E+01	0.00E+00	7.74E-04	2.21E-03	2.94E-04	-4.20E-04
Eutrophication aquatic freshwater	kg Pe	2.44E-03	3.08E-06	6.91E-03	9.74E-03	1.33E-04	3.38E-01	0.00E+00	1.50E-06	7.31E-06	7.43E-07	-1.65E-06
Eutrophication aquatic marine	kg N eq.	6.14E-02	4.88E-04	5.11E-02	1.31E-01	1.17E-01	2.44E+00	0.00E+00	2.33E-04	5.69E-04	3.45E-04	-1.14E-04
Eutrophication terrestrial	mol N eq.	7.62E-01	5.39E-03	5.66E-01	1.53E+00	1.29E+00	2.73E+01	0.00E+00	2.58E-03	6.31E-03	1.01E-03	-1.27E-03
Formation potential of tropospheric ozone	kg NMVOC eq.	1.92E-01	1.77E-03	1.59E-01	4.13E-01	3.33E-01	7.55E+00	0.00E+00	8.28E-04	1.89E-03	3.44E-04	-3.76E-04
Abiotic depletion potential for non-fossil resources	kg Sb eq.	5.10E-03	5.93E-06	4.43E-05	5.35E-03	6.25E-05	1.53E-03	0.00E+00	3.14E-06	5.99E-07	1.05E-07	-1.51E-07
Abiotic depletion potential for fossil resources	MJ	1.83E+02	8.38E+00	6.21E+02	1.00E+03	8.61E+02	2.56E+04	0.00E+00	2.87E+00	5.33E+00	7.49E-01	-9.83E-01
Water use	m ³	7.20E+01	2.40E-02	8.22E+00	9.22E+01	7.15E-01	2.22E+02	0.00E+00	1.07E-02	4.88E-02	5.30E-03	-2.61E-02

Environmental aspects related to resource use

Indicator	Unit	A1	A2	A3	A1-A3	A4	B6	C1	C2	C3	C4	D
Renewable primary energy as an energy carrier	MJ	8.81E+01	7.55E-02	9.89E+01	2.77E+02	2.77E+00	3.32E+03	0.00E+00	3.61E-02	2.72E-01	2.01E-02	-4.54E-02
Renewable primary energy for material use	MJ	0.00E+00	0.00E+00	3.56E+01	3.56E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Completely renewable primary energy	MJ	8.81E+01	7.55E-02	1.35E+02	2.31E+02	2.77E+00	3.32E+03	0.00E+00	3.61E-02	2.72E-01	2.01E-02	-4.54E-02
Non-renewable primary energy as an energy source	MJ	6.46E+02	5.81E+00	5.73E+02	1.42E+03	8.61E+02	2.56E+04	0.00E+00	2.87E+00	5.33E+00	7.50E-01	-9.83E-01
Non-renewable primary energy for material use	MJ	5.22E+01	2.57E+00	5.45E+01	1.09E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Completely non-renewable primary energy	MJ	6.98E+02	8.38E+00	6.27E+02	1.42E+03	8.61E+02	2.56E+04	0.00E+00	2.87E+00	5.33E+00	7.50E-01	-9.83E-01
Use of secondary raw materials	kg	9.60E-01	1.35E-04	1.90E+00	2.90E+00	0.00E+00	2.05E+00	0.00E+00	0.00E+00	1.12E-03	2.37E-04	-1.45E-03
Renewable secondary fuels	MJ	7.42E-02	2.38E-06	7.42E-04	7.53E-02	0.00E+00	1.84E-02	0.00E+00	0.00E+00	4.98E-05	9.62E-06	-1.43E-05
Non-renewable secondary fuels	MJ	3.38E-03	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of fresh water resources	m ³	1.67E+00	1.20E-03	2.11E-01	2.22E+00	6.50E-02	5.68E+00	0.00E+00	5.97E-04	4.27E-03	7.62E-04	-5.88E-04

Other environmental information describing the waste categories

Indicator	Unit	A1	A2	A3	A1-A3	A4	B6	C1	C2	C3	C4	D
Hazardous waste destined for landfill	kg	1.54E+00	6.06E-03	2.17E+00	8.32E+00	2.57E-01	9.07E+01	0.00E+00	2.78E-03	0.00E+00	0.00E+00	-5.82E-04
Non-hazardous waste destined for disposal	kg	3.66E+01	5.88E-01	3.10E+02	3.74E+02	6.54E+00	1.53E+04	0.00E+00	3.08E-01	0.00E+00	2.99E+00	-1.56E+00
Radioactive waste for disposal	kg	5.30E-03	5.86E-05	5.97E-04	6.69E-03	6.21E-03	9.00E-03	0.00E+00	1.97E-05	0.00E+00	0.00E+00	-2.04E-06
Components to be reused	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials to be recycled	kg	4.58E-03	0.00E+00	0.00E+00	4.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials destined for energy recovery	kg	8.42E-04	0.00E+00	0.00E+00	8.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Electricity exported	MJ	6.97E-02	0.00E+00	0.00E+00	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Product components

Product components	Weight, kg
Aluminium	4,64E+00
Steel	1,17E+01
Coated sheet	9,80E-01
PMMA	1,75E+00

Product components	Weight, kg
Laminat	2,90E-01
Metal	3,69E-01
Polyurethane	2,00E-02
Copper	3,00E-04

Product components	Weight, kg
Polyester	4,00E-03
Polyamide	9,50E-04
Forprene	2,50E-03
Polycarbonate	9,80E-02

Product components	Weight, kg
PVC	3,30E-01
PET	5,00E-02
Summary	2,02E+01

Verification

The verification process for this EPD is in accordance with ISO 14025 and ISO 21930. Once verified, this EPD is valid for a period of 5 years. There is no need to recalculate after 5 years if the inputs have not changed significantly.

EN 15804 serves as the basis for ITB PCR-A
Independent verification according to ISO 14025 (subsection 8.1.3.)
 internal external

External verification of EPDs: Michał Piasecki, Professor ITB,
m.piasecki@itb.pl
Input data verification, LCI audit, LCA: Agnieszka Pikus, JW+A,
a.pikus@jw-a.pl
LCA verification: Michał Piasecki, ITB professor,
m.piasecki@itb.pl

Note 1: The declaration owner has the sole ownership, liability, and responsibility for the information provided and contained in EPD. Declarations of construction products may not be comparable if they do not comply with EN 15804 +A2. For further information about comparability, see EN 15804+A2 and ISO 14025.

Note 2: ITB is a public Research Organization and Notified Body (EC Reg. no 1488) to the European Commission and to other Member States of the European Union designated for the tasks concerning the assessment of building products' performance. ITB acts as the independent, third-party verification organization (ISO 17025/17065/17029). ITB-EPD program is recognized and registered member of The European Platform - Association of EPD program operators and ITB-EPD declarations are registered and stored in the international ECO-PORTAL.

Normative references

- ITB PCR A General Product Category Rules for Construction Products
- ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and procedures
- ISO 21930:2017 Sustainability in buildings and civil engineering works – Core rules for environmental product declarations of construction products and services
- ISO 14044:2006 Environmental management – Life cycle assessment – Requirements and guidelines
- EN 15804 +A2 Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
- Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE)
- In accordance with the principle of presumption of conformity, the certificates ENEC Licence Ref No. SE-ENEC-2201125R1 and ENEC Licence Ref No. SE-ENEC-2201299 support the EU declaration of conformity to the Low Voltage Directive 2014/35/EU.
- IEC SYSTEM (SE-108930M1 and SE-109303) tested in accordance with IEC 60598-1:2020 and IEC 60598-2-1:2020
- ISO 9001:2015, Quality Management System

Lightnet Headquarters Germany

Lightnet GmbH
Zollstockgürtel 65
50969 Köln
+49 221 22 25 26-0
info@lightnet.de
lightnet.de

Lightnet Austria

Lightnet Austria GmbH
Döblinger Hauptstraße 42/9
1190 Wien
+43 1 39 50 793
info@lightnet.at
lightnet.at

Lightnet UK

Lightnet Group Limited
Unit 326 Canalot
222 Kensal Road
London W10 5BN
+44 20 81 46 69 81
info@lightnet-group.co.uk
lightnet-group.co.uk

Lightnet France

Lightnet SAS
5, allée d'Helsinki
67300 Schiltigheim
+33 3 69 24 69 13
info@lightnet.fr
lightnet.fr

Lightnet Poland

Lightnet Sp. z o.o.
ul. Sportowa 2
43-356 Kobiernice
+48 33 810 86 56
info@lightnet.pl
lightnet.pl

Lightnet USA

Lightnet USA Inc.
2937 SW 27th Avenue, Ste 305
Miami, FL 33133
+1 800 94 09 092
info@lightnet.us
lightnet.us

Lightnet Mexico

Lightnet Mexico S.C.
Francisco Ortega No 30-32
Col. Villa Coyoacan
CP 04000, Mexico DF
+52 55 49 16 92 45
info@lightnet.mx
lightnet.mx

lightnet.de

Approved by



Certification Unit
Instytut Techniki Budowlanej (ITB)
ul. Filtrowa 1
00 - 611 Warszawa, Polska
e-mail: energia@itb.pl
www.itb.pl



Instytut Techniki Budowlanej

00-611 Warsaw, Filtrowa 1

Thermal Physics, Acoustics and Environment Department

02-656 Warsaw, Ksawerów 21

CERTIFICATE № 601/2024

of TYPE III ENVIRONMENTAL DECLARATION

Products:

Cubic Evolution series luminaires

Manufacturer:

Lightnet Sp. z o.o.

ul. Sportowa 2, 43-356 Kobiernice, Poland

confirms the correctness of the data included in the development of
Type III Environmental Declaration and accordance with the requirements of the standard

EN 15804+A2

Sustainability of construction works.

Environmental product declarations.

Core rules for the product category of construction products.

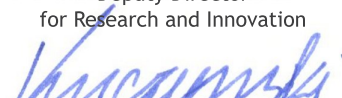
This certificate, issued on 20th February 2024 is valid for 5 years
or until amendment of mentioned Environmental Declaration

Head of the Thermal Physics, Acoustics
and Environment Department


Agnieszka Winkler-Skalna, PhD



Deputy Director
for Research and Innovation


Krzysztof Kuczyński, PhD

Warsaw, February 2024