Nexia

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 50693:2020 for:

Nexia

Infinity · Dune · Mínim · Let Go From Nexia S.L

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products from one company, based on worst-case results
EPD registration number:	EPD-IES-0031955:001
Version date:	2026-07-29
Validity date:	2031-07-29

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com

General information

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com

Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2024:06, Electronic and electric equipment, and electronic components (non-construction), version 1.0.1 and UN CPC code: 4653 Lighting Equipment, version 2.1
PCR review was conducted by: The Technical Committee of the International EPD® System. The review panel may be contacted via info@environdec.com
c-PCR: c-PCR-002 Luminaires, version: 1.0.0

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: Dr. Patxi Hernández, Aurea Consulting Approved by: International EPD System
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see ISO 14025.

Information about EPD owner

Owner of the EPD: EPD owned by Nexia Iluminación S.L.
Address: Carrer del Priorat, 14-20, 08211 Castellar del Vallès, Barcelona, Spain.
Contact: info@nexia.es
Address and contact information of the LCA practitioner commissioned by the EPD owner: Marcel Gómez Consultoría Ambiental, Barcelona, Spain, info@marcelgomez.com
Description of the organisation:

Nexia is a Spanish manufacturer founded in 2003, specializing in high-end technical LED lighting solutions for architectural and professional environments. Headquartered in Castellar del Vallès (Barcelona), the company integrates design, engineering, and production within its own facilities to ensure rigorous quality control and environmental compliance.

The company's core philosophy centers on Visual Comfort and Innovation, developing products that balance aesthetic minimalism with high energy efficiency. In the context of Life Cycle Assessment (LCA), Nexia stands out for its commitment to Eco-design principles, focusing on:

- Material Efficiency: Utilization of high-quality, recyclable materials such as die-cast aluminum and advanced optical polymers to ensure product longevity and end-of-life circularity.
- Energy Performance: Integration of cutting-edge LED technology and smart control systems.
- Local Production: By maintaining its primary manufacturing and assembly operations in Barcelona, Nexia minimizes CO2 emissions related to the transport of finished goods and optimizes supply chain logistics.
- Regulatory Compliance: Nexia operates under European standards for electrical safety and waste management (WEEE), ensuring that its products meet the environmental requirements for sustainable building certifications such as LEED, BREEAM, and WELL.

Through its bespoke technical advisory service, Nexia collaborates with architects and lighting designers to provide customized solutions that promote sustainable urban and interior development.

Product-related or management system-related certifications:

To ensure the highest standards of safety, quality, and trust, Nexia is certified by internationally recognized bodies and offers a 5-year warranty. Certifications include:

- ISO 9001:2015 – Quality management system – Registration number ER 0526/2016
- UL Certification, File number: ES38579 (For models Dune and Infinity)

Nexia Tech-Dec

Tech-Dec is the way Nexia understands and designs light: a fusion of technology and design created to shape experiences, not just illumination.

It is built on a simple idea: lighting should not force a choice between technical performance and emotional design. Tech-Dec brings both together through lighting precision, visual comfort, control and efficiency, combined with atmosphere, aesthetics, well-being and emotion.

The Tech side represents technical rigour. The Dec side brings the sensitivity of design. Together, they create lighting solutions that not only solve functional needs, but also transform how a space is experienced.

Tech-Dec is performance with sensibility: technology applied to light to create spaces that feel more comfortable, meaningful and memorable.

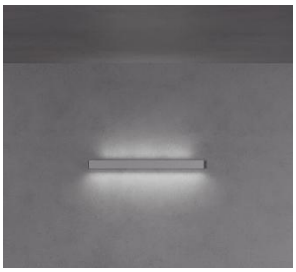
Product information

Product name: INFINITY, DUNE, MÍNIM and LET GO
Product identification: This EPD is a multi - product EPD, based on a worst-case scenario product shown in the set of results.
Visual representation of the product:

UN CPC code: 4653 Lighting Equipment, version 2.1

Product description:
Modular Linear Luminaires – Infinity, Dune, Mínim, Let Go
These products are modular linear LED lighting systems, designed for general indoor lighting applications. They are available in various lengths, finishes, and installation types (surface-mounted, recessed, or trimless).
The luminaires consist of the following main components: LED modules, drivers, aluminum or steel housings, diffusers, and minimal ancillary materials such as solder. They are intended for use in residential, commercial, and office environments, providing flexible and efficient general lighting.

More information is available at:
https://nexia.es/


Infinity

Dune

Mínim

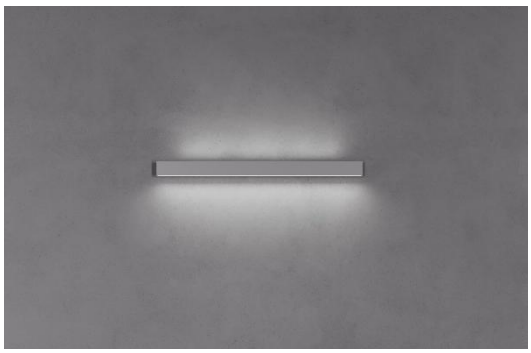
Let Go

Name and location of production site: Polígon Industrial Can Carner, Carrer del Priorat, 14-20, 08211 Castellar del Vallès, Barcelona, Spain.

Infinity

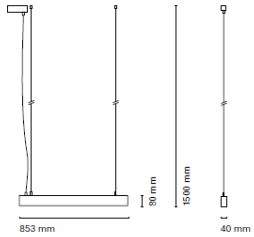
Product description:

The INFINITY family is made up of continuous light linear structures with a variety of installations and endless configurations. It exists in a wall, suspended, recessed and surfaced version. Also with opal or microprismatic diffuser and some models can be designed with IP43.

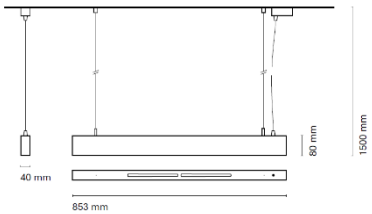


Models:

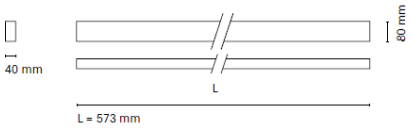
Infinity air



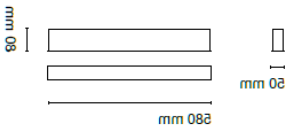
Infinity up & down



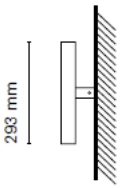
Infinity down



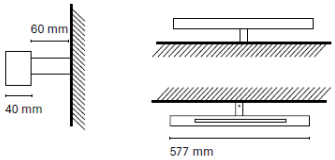
Infinity frame



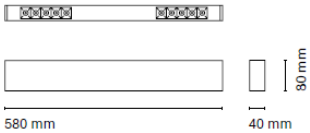
Infinity wall



Infinity wall up & down



Infinity dot



Product references:

Family	Subfamily	Type	Reference	Power Consumption (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)
INFINITY	Infinity Air	Opal	16122-, 16123-, 16124-, 16125-, 16126-, 16127-, 16128-, 16129-, 16130-	30	4500	150
		Microprismatic	16132-, 16133-, 16134-, 16135-, 16136-,	30	4300	143

			16137-, 16138-, 16139-, 16130-			
		Opal IP43	16142-, 16143-, 16144-, 16145-, 16146-, 16147-, 16148-, 16149-, 16130-	30	4500	150
		Microprismatic IP43	16152-, 16153-, 16154-, 16155-, 16156-, 16157-, 16158-, 16159-, 16130-	30	4300	143
	Infinity Up&Down	Opal	16303-, 16304-, 16305-, 16307-, 16309-, 16310-	48	7200	150
		Microprismatic	16313-, 16314-, 16315-, 16317-, 16319-, 16320-	42	6300	150
	Infinity Down	Opal	16102-, 16103-, 16104-, 16105-, 16106-, 16107-, 16108-, 16109-, 16110-	36	5400	150
		Microprismatic	16112-, 16113-, 16114-, 16115-, 16116-, 16117-, 16118-, 16119-, 16110-	30	4300	143
	Infinity Frame	Opal IP43	16202-, 16203-, 16204-, 16205-,	36	5400	150

			16206-, 16207-			
		Microprismatic IP43	16212-, 16213-, 16214-, 16215-, 16216-, 16217-	30	4300	143
	Infinity Wall	Wall	16401-, 16402-, 16403-, 16404-	11	1650	150
		Up&Down	16412-, 16413-, 16414-	18	2700	150
	Infinity DOT	Infinity Dot Down	16602-, 16603-, 16604-, 16605-, 16606-, 16607-, 16608-, 16609-, 16610-	50	5250	105
		Infinity Dot Air	16612-, 16613-, 16614-, 16615-, 16616-, 16617-, 16618-, 16619-, 16620-	50	5250	105
		Infinity Dot Frame	16702-, 16703-, 16704-, 16705-, 16706-, 16707-, 16708-, 16709-	50	5250	105

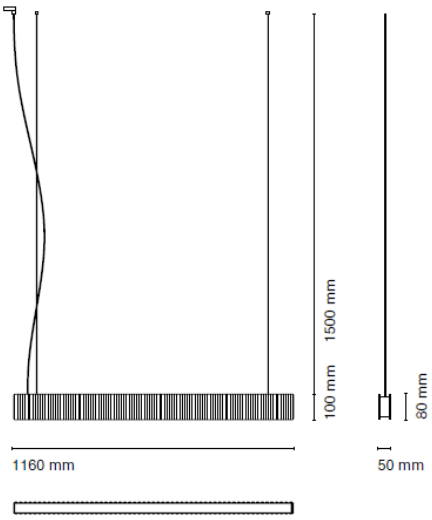
Dune

Product description:

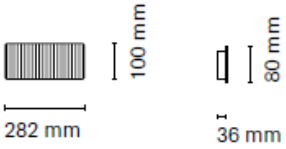
Dune is a linear luminaire that provides a very Technical and rigourous lighting with a unique, Pleasant and decorative design. This lamp not only allows you to play with direct lighting but also the body of the lamp itself creates a combination of light and shade through the undulation of its skin. The family is composed by 3 suspended models and 1 wall lamp.

Models:

Dune Suspended



Dune Wall Up & Down



Product references:

Family	Subfamily	Type	Reference	Power Consumption (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)
DUNE	Dune suspension	Opal	31602-, 31604-, 31607-	77	5394	70
	Dune Wall Up&Down	Opal	31701-	44	3082	70

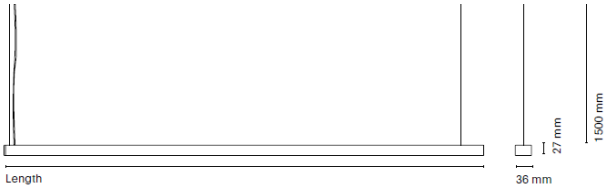
Mínim

Product description:

Mínim a small, low-voltage, linear luminaire that Redefine the lighting experience with its exceptional Design and subtlety. Operating at 48v and available In a Dali version, it offers precise and versatile lighting, adapting to your preferences with three colour temperature options: 2700k, 3000k and 4000k.

Models:

Mínim air (opal / dot)



Mínim air up & down (opal / dot)

Mínim Down (opal / dot)

Mínim system (opal)

Product references:

Family	Subfamily	Type	Reference	Power Consumption (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)
MINIM	Minim Single Down	Opal	27005-, 27010-, 27012-, 27014-, 27016-	30	4350	145
		Dot	27055-, 27060-, 27062-, 27064-, 27066-	40	5800	145
	Minim Single Air	Opal	27205-, 27210-, 27212-, 27214-, 27216-	25	3625	145
		Dot	27255-, 27260-, 27262-, 27264-, 27266-	25	3625	145
	Minim Single Air Up&Down	Opal	27405-, 27410-, 27412-, 27414-, 27416-	48	6888	144

		Dot	27455-, 27460-, 27462-, 27464-, 27466-	48	6888	144
	Minim Single Air Semirecessed	Opal	27305-, 27310-, 27312-, 27314-, 27316-	40	5800	145
		Dot	27355-, 27360-, 27362-, 27364-, 27366-	40	5800	145
	Minim Single Air Semirecessed Up&Down	Opal	27505-, 27510-, 27512-, 27514-, 27516-	40	5800	145
		Dot	27555-, 27560-, 27562-, 27564-, 27566-	57,5	8338	145

Family	Subfamily	Type	Reference	Power Consumption (W)	Real Luminous Flux (lm)	Luminous Efficacy (lm/W)
MINIM SYSTEM	**Minim System - Start**					
	Down Semirecessed	Opal	28110IL- 28112IL-	25 30	2284 2740	82 81
		Dot	28160IL- 28162IL-	25 30	1812 2175	63 64
	Air	Opal	28205IL- 28210IL- 28212IL-	13 25 30	1142 2284 2740	82 82 81
		Dot	28255IL- 28260IL- 28262IL-	13 25 30	906 1812 2175	65 63 64
	Air Up&Down	Opal	28405IL- 28410IL- 28412IL-	23 48 58	2180 4602 5572	87 88 88
		Dot	28455- 28460IL- 28462IL-	23 48 58	1875 3993 4840	75 76 76
	Air Semirecessed	Opal	28305IL- 28310IL- 28312IL-	13 25 30	1142 2284 2740	82 82 81
		Dot	28355- 28360IL- 28362IL-	13 25 30	906 1812 2175	65 63 64
	Air Semirecessed Up&Down	Opal	28505IL- 28510IL- 28512IL-	23 48 58	2180 4602 5572	87 88 88
		Dot	28555IL- 28560IL- 28562IL-	23 48 58	1875 3993 4840	75 76 76
	Minim System - Middle Section					

	Down	Opal	28105LC- 28110LC- 28114LC- 28116LC-	13 25 35 40	1142 2284 3197 3654	82 82 82 83
		Dot	28155LC- 28160LC- 28164LC- 28166LC-	13 25 35 40	906 1812 2538 2900	65 67 65 66
	Air	Opal	28205LC- 28210LC- 28214LC- 28216LC-	13 25 35 40	1142 2284 3197 3654	82 82 82 83
		Dot	28255LC- 28260LC- 28264LC- 28266LC-	13 25 35 40	906 1812 2538 2900	65 67 65 66
	Air Up&Down	Opal	28405LC- 28410LC- 28414LC- 28416LC-	23 48 68 78	2180 4602 6540 7510	87 88 87 87
		Dot	28455LC- 28460LC- 28464LC- 28466LC-	23 48 68 78	1875 3993 5687 6534	75 76 76 76
	Minim System - End Section					
	Down	Opal	28110FL- 28112FL-	25 30	2284 2740	82 81
		Dot	28160FL- 28162FL-	25 30	1812 2175	63 64
	Air	Opal	28210FL- 28212FL-	25 30	2284 2740	82 81
		Dot	28260FL- 28262FL-	25 30	1812 2175	63 64
	Air Up&Down	Opal	28410FL- 28412FL-	48 58	4602 5572	88 88
		Dot	28460FL- 28462FL	48 58	3993 4840	76 76
	Minim System - Joints					
	Down/Air	Opal	28701R- 28701L-	5	366	65
		Dot	28751R- 28751L-	5	290	52
	Air Up&Down	Opal	28801R- 28801L-	8	732	67
		Dot	28851R- 28851L-	8	580	53

Let Go

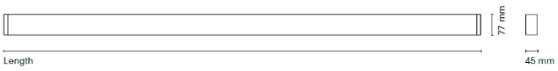
Product description:

An avant-garde system of linear sructures designed
To adjust quickly and versatiley to any evnironment thanks to its clipping mechanism. The innovative luminaire
Stands out not only for its easy assembly, but also for its ability to adapt without disassembly, allowing effortless customisation. With its modern and intuitive design,
Let Go enhances every space with precise lighting.
Available in 3 colour temperature 2700k, 3000k and 4000k. Ideal for environments requiring high lighting rigour.

Models:

Let Go System

Let Go Single



Product references:

Family	Subfamily	Type	Reference	Power Consumption (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)
LET GO	Let Go Single	Opal	29402-, 29403-, 29404-, 29405-, 29406-	59,4	7680	129
		Micropris matic	29412-, 29413-, 29414-, 29415-, 29416-	59,4	7680	129
	Let Go System - Start	-	29102IL-, 29103IL-, 29106IL-, 29108IL-	59,4	7680	129
	Let Go System - Middle section	-	29102LC-, 29103LC-, 29106LC-, 29108LC-	59,4	7680	129

	Let Go System - Final	-	29102FL-, 29103FL-, 29106FL-, 29108FL-	59,4	7680	129
	Let Go System - 90º Angle	-	29020-, 29021-, 29022-	59,4	7680	129

Content declaration

The mass of one unit of a product, as purchased is 1,50E+00 – 8,88E+00 kg*.
Maximum reference: 31607-EEL - Infinity
Minimum reference: 16401-0EH - Infinity

Product component	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product
Profile	8,10E-01 - 3,37E+00	0	0
Canopy	0,00E+00 - 6,22E-01	0	0
Diffuser	2,10E-01 - 8,88E-01	0	0
PCB	2,25E-01 - 8,88E-01	0	0
Driver	9,00E-02 - 2,66E-01	0	0
Electric hose	1,80E-02 - 2,93E-01	0	0
Plastic caps	1,50E-02 - 8,88E-02	0	0
Steel	1,35E-02 - 1,93E+00	0	0
Plastic	1,19E-01 - 5,33E-01	0	0
TOTAL	**1,50E+00 – 8,88E+00**	-	-

* Component masses are declared as minimum–maximum ranges, reflecting the variability within the product family covered by this worst-case EPD.

**For the environmental impact categories assessed, the worst-case scenario is not represented by a single product reference, but by a combination of three product references. Each reference presents the highest impact for different environmental indicators. In accordance with the worst-case procedure established in PCR 2024:06, the declared result for each indicator corresponds to the maximum value identified among all products included in the EPD scope. This approach ensures that the declared results conservatively cover the environmental performance of the entire product family.

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/ declared unit
Cardboard	3,11E-02	0,4% - 2,1%	1,56E-02
Paper	1,00E-02	0,1% - 0,7%	5,00E-03

Film	2,11E-03	0% - 0,1%	0,00E+00
Pallet	6,68E-03	0,1% - 0,4%	3,34E-03
TOTAL	**4,99E-02**	**0,6% - 3,3%**	**2,39E-02**

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO2.

Information on the environmental and hazardous/toxic properties of substances contained in the product:
The product does not contain any substances during its life cycle that are included in the "Candidate List of Substances of Very High Concern for Authorization (SVHC)" in a concentration exceeding 0,1% by weight of the product.

LCA information

Functional unit: Provision of lighting that delivers an outgoing artificial luminous flux of 1.000 lumens over a reference lifetime of 35.000 hours.

Conversion to functional unit weights: Functional-unit conversion factor for product reference = (1.000 / Outgoing luminous flux of the reference product in lumens) x (35.000 / 65.000)

Reference service life and its relationship with the technical lifespan: Because the luminaires contain non-replaceable light sources (integrated LEDs), their technical lifespan is determined by the life of the LED module (65.000 hours). However, in strict accordance with the mandatory Functional Unit defined in c-PCR-002, the environmental impacts in this EPD are scaled and declared over a fixed reference lifetime of 35.000 hours.

Time representativeness: 2025

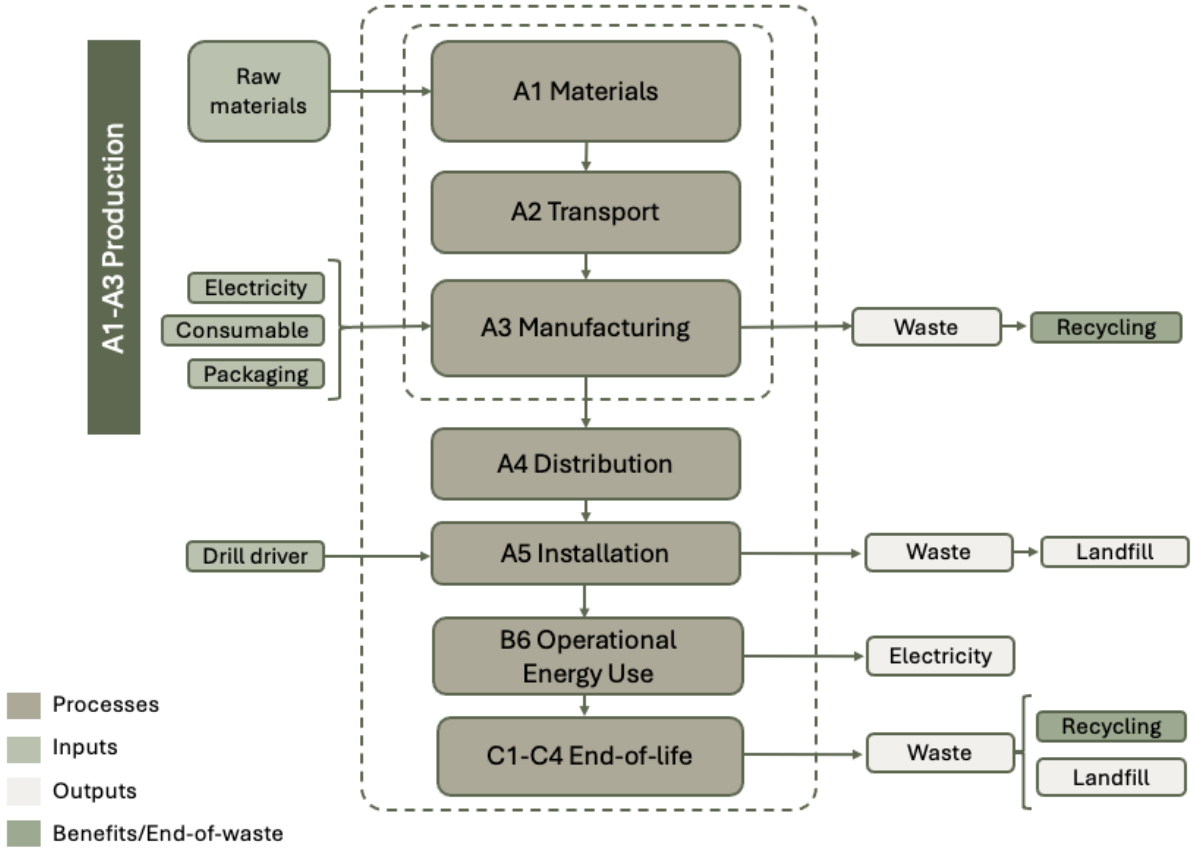
Geographical scope: modules A1-A2 Global, A3 Spain, A4-D Global.

Database and LCA software used: Software SimaPro 10.2.0.2 and Database Ecoinvent 3.11.

Description of system boundaries: "cradle-to-grave"

The system boundary is cradle-to-grave, considering the impacts associated with the extraction of resources from nature through to the end of the product´s life.
The light source is included in the inventory and it´s not counted with replacement during its lifetime.
It covers the production of raw materials, all relevant transport down to factory gate, manufacturing by Nexia, transport to installation site, installation, operational energy of use of luminaire, transport of deinstalled material, waste processing and disposal of used product.

Process flow diagram:



A1-A3 Product stage

- A1 Raw materials supply: this module takes into account the extraction and processing of raw materials and the production of energy which is consumed at the manufacturing plant.

- A2 Transport: this module includes the transport of the different raw materials from the provider to the factory.

- A3 Manufacturing: this module includes the consumption of energy during the manufacturing process and production of packaging material used for the further distribution. Moreover, transport and management of the factory-produced waste are considered.
  The electricity consumed at the production plant corresponds to the supplier-specific electricity mix for 2025, including on-site renewable electricity generation. On-site photovoltaic production covers 59% of the plant's total electricity consumption. Based on the energy sources reported to Nexia, the resulting electricity mix comprises an average of 65% renewable energy and has an associated emission factor of 0,1 kg CO_2-eq./kWh.

- A4-A5 Construction process stage

  - A4 Transport: this module accounts for the transportation of the finished and packaged luminaires from the factory gate to the distributors or points of sale. The resulting weighted average distribution distances for the products are as follows:

Parameter	Value/description
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long-distance truck, boat, etc.	Lorry 16-32 ton EURO 6 Diesel consumption 0,192 kg/ tkm Lorry 7,5-16 ton EURO 6 Diesel consumption 0,284 kg/ tkm Lorry 3,5-7,5 ton EURO 6 Diesel consumption 0,463 kg/ tkm Freight Ship: Heavy fuel oil consumption: 0,010 kg/tkm Freight Aircraft: Kerosene consumption: 1,30 kg/tkm
Distance	Ship: 5,23 km Truck: 711,14 km Aircraft: 20,65 km
Capacity utilization (including empty returns)	50% (full + empty return)
Volume capacity utilisation factor	1

  - A5 Construction/Installation: The product is directly transferred from the truck to the installation site, where manual operations are performed to install the analysed product. Each luminaire is installed using four screws, fixed with the aid of these electrical tools. Packaging material waste is sent to the Waste management. Landfill is considered.

Parameter	Value/description
Auxiliary materials for installation*	2 - 4 screws
Use of electricity	0,08 kWh

Use of water	Not used.
Use of other resources	No other resource consumption.
Quantitative description of the type of energy (regional mix) and the consumption during the installation process	Electricity mix according to the geographical distribution of sales: Europe and Global.
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	Product losses (0%). Packaging waste generated in the installation is considered landfill. Carboard: 0,031 kg Paper: 0,01 kg Pallet 0,007 kg Film 0,002 kg

* The screws used for installation have been excluded from the system boundaries in accordance with cut-off criteria, as their mass and associated environmental impacts are considered negligible compared to the total product.

**In accordance with c-PCR-002, the pallets used for product distribution were assumed to be reused 28 times over their lifetime.

- B Use stage: There is no Use phase (B1), maintenance (B2), repair (B3), replacement (B4), refurbishment (B5), operational water use (B7) during its Reference Service Life.

    - B6 Operational energy use: Following the worst-case results approach dictated by PCR 2024:06, the declared environmental impacts represent the highest results across all included products at the Functional Unit (FU) level. To achieve this, the gross environmental impacts for each individual luminaire within the product family were modelled at the product level. For the operational energy use (Module B6), the gross consumption was individually calculated based on each product's specific power and assigned lifetime. These individual impacts were then scaled to fulfill the mandatory FU (1.000 lumens over 35.000 hours) using the PSR-0014 conversion formula. By applying PSR-0014 (Section 4.1, Table 9) default values, a luminaire with a reference lifetime of 35.000 hours will have an operational lifetime ranging from 7 years up to 17,5 years. The electricity consumption for the use stage is modelled using the weighted electricity mix.

- C End of life stage

    - C1 Deconstruction/demolition: The product is manually dismantled and delivered to the appropriate waste management system.

    - C2 Transport to waste processing: the model use for the transportation is applied with a distance of 100 km.

    - C3 Waste processing for reuse, recovery and/or recycling:
      Luminaire (including integrated LED modules):
        - 55% recycling
        - 20% incineration with energy recovery

      The C3 module includes the waste-processing steps required to prepare the recyclable fractions to reach End-of-Waste status, allowing part of the product to be sent to recycling. These steps may include dismantling, sorting, shredding and

pressing/conditioning, depending on the material fraction.
The recyclable fractions include mainly metals, plastics, cables, LED modules, drivers and PCBs. The remaining fraction is treated through incineration with energy recovery, according to the defined end-of-life scenario.

- C4 Disposal:
  Luminaire (including integrated LED modules):
  - 25% landfill.

In accordance with Category 5 WEEE, the official minimum targets established by MITECO and Royal Decree 110/2015 require 75% total recovery and 55% preparation for re-use and recycling.

Parameter	Value/description
Waste collection process specified by type	Collected manually and separately
Recovery system specified by type	Lorry 16-32 ton EURO 5 Diesel consumption 0,192 kg/ tkm Distance: 100 km
Waste processing Recovery system specified by type, Recovery system specified by type	55% recycling and 20% incineration with energy recovery (C3)
Disposal Characteristic performance, Disposal specified by type	25% landfill (C4)

More information:
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Additional information:
Cut-off rules: The cut-off criterion was chosen based on the used PCR. According to the used PCR, more than 99% of flows were included.

The "polluter pays" principle has been applied.

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Distribution/ installation stage		Use stage							End-of-life 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
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**
Modules declared	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	X
Geography	GLO	GLO	ES	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO
Share of primary data	GWP-GHG 0,29%			-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	60%*			-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-

* The variation includes the worst-case scenario. The variability between the maximum and minimum values assessed is declared. Although this variability exceeds 10%, the individual results for all scenarios are not presented, as the declared result corresponds to the most conservative scenario.

Data quality assessment:

The inventory data have been obtained from the site's own data, provided by Nexia staff and from the Ecoinvent 3.11 database, included in the internationally recognized SimaPro 10.2.0.2 software.

The data quality requirements of ISO 14025 and the PCR 2024:06 have been considered in the development of this study.

The specific data are based on average data from the year 2025 and are therefore less than two years old, also the data used on the manufacturing process have been provided by the manufacturer itself and are therefore representative for the region. On the other hand, generic data from the Ecoinvent 3.11 database have been used.

The specific data reflect the physical reality of the declared product, as they have been provided by the manufacturer itself.

The data quality was assessed based on three dimensions: temporal, technological, and geographical. Overall, the data quality is considered average.

As required by section 4.6.5 of the PCR, the following table provides a summary of the data quality assessment (DQA) for the datasets that contribute to at least 80% of the results for each of the declared environmental impact indicators. For most indicators, the A1–A3 modules account for over 80% of the total impacts.

Data Quality Aspect	Details / Description
Data Quality Scheme	EN15941 and the applicable PCR requirements
Use of poor/very poor data	The datasets used to model the transport show limited geographical representativeness. In particular, the dataset sea transport is based on global average data, which may not fully reflect the regional context of the study.
Use of Fair data with more than 30 % of a core impact	No fair data used.
Data Collection period for raw data	1/1/2025–31/12/2025
Geography	The product is manufactured in Spain and marketed globally.
Technology	The specific data reflect the physical reality of the declared product, as they have been provided by the manufacturer itself.
Geography and technology	The A1–A3 life cycle stages contribute approximately 7% of the total GWP-GHG impact associated with the product. No average data was used.
LCI/LCA database	Ecoinvent v3.11
EPD used	None

The data quality assessment has been carried out in accordance with EN15941, the applicable PCR requirements and the General Programme instructions of International EPD System (version 5.0.1, Annex A).

As requested by PCR, the following table provides information on the quality of the data used for processes contributing more than 10% to the overall GWP-GHG indicator value for the product considered.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3*
Raw materials	Database	Ecoinvent v3.11	2025	Secondary data	0%
Manufacturing consumables	Database	Ecoinvent v3.11	2025	Primary data	0,06%
Transport to manufacturing site	Database	Ecoinvent v3.11	2025	Primary data	0,23%
Total share of primary data, of GWP-GHG results for A1-A3					**0,29%**

** The share of specific data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more specific data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.*

Environmental performance

The default impact assessment methods and characterisation factors of the International EPD System have been used (based on the EN 15804 reference package, version EF 3.1)

The results of the end-of-life stage (module C) should be considered when using the results of the production stage (modules A1-A3)

The following presents the results of the potential environmental impacts of the product under study.

The environmental performance results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

Impact category indicators

PARAMETER		UNIT	Manufacturing	Distribution	Installation	Use							De-installation	End of life			Total
			(A1-A3)	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
Global warming potential (GWP)	Fossil	kg CO_2 eq.	1,28E+01	2,49E-01	6,89E-03	0	0	0	0	0	1,60E+02	0	6,65E-03	1,17E-02	1,96E-01	8,11E-03	1,74E+02
	Biogenic	kg CO_2 eq.	-5,85E-02	7,79E-06	2,35E-02	0	0	0	0	0	3,34E-01	0	1,38E-05	3,65E-07	1,24E-04	1,21E-06	2,99E-01
	Land use and land transformation	kg CO_2 eq.	7,88E-02	3,91E-06	2,00E-05	0	0	0	0	0	4,83E-01	0	2,00E-05	1,83E-07	4,30E-05	3,55E-07	5,62E-01
	TOTAL	kg CO_2 eq.	1,28E+01	2,49E-01	3,04E-02	0	0	0	0	0	1,61E+02	0	6,68E-03	1,17E-02	1,96E-01	8,11E-03	1,75E+02
Ozone layer depletion (ODP)		kg CFC 11 eq.	3,95E-07	5,62E-09	1,04E-10	0	0	0	0	0	2,38E-06	0	9,87E-11	2,63E-10	5,79E-10	5,13E-11	2,78E-06
Acidification potential (AP)		mol H^+ eq.	1,43E-01	1,96E-04	2,15E-05	0	0	0	0	0	7,55E-01	0	2,11E-05	2,15E-05	2,69E-04	1,43E-05	8,98E-01
Eutrophication potential (EP)	Aquatic freshwater	kg P eq.	1,42E-03	1,53E-07	6,54E-07	0	0	0	0	0	1,58E-02	0	6,54E-07	7,16E-09	8,95E-07	1,86E-08	1,72E-02
	Aquatic marine	kg N eq.	1,40E-02	6,74E-05	4,49E-06	0	0	0	0	0	1,03E-01	0	4,29E-06	3,15E-06	5,55E-05	9,91E-06	1,18E-01
	Aquatic terrestrial	mol N eq.	1,57E-01	7,39E-04	5,04E-05	0	0	0	0	0	1,16E+00	0	4,81E-05	3,46E-05	5,99E-04	5,02E-05	1,32E+00
Photochemical oxidant creation potential (POCP)		kg NMVOC eq.	6,28E-02	5,97E-04	1,64E-05	0	0	0	0	0	3,72E-01	0	1,54E-05	2,79E-05	1,75E-04	1,89E-05	4,36E-01
Abiotic depletion potential (ADP)*	Metals and minerals	kg Sb eq.	3,52E-03	4,16E-10	9,87E-10	0	0	0	0	0	8,69E-06	0	5,82E-10	2,70E-10	8,73E-07	9,43E-10	3,53E-03
	Fossil resources	MJ, net calorific value	1,86E+02	3,29E+00	1,60E-01	0	0	0	0	0	3,79E+03	0	1,57E-01	1,54E-01	4,17E-01	4,08E-02	3,98E+03
Water deprivation potential (WDP)*		m^3 world eq. deprived	3,31E+00	1,08E-03	1,42E-03	0	0	0	0	0	3,42E+01	0	1,42E-03	5,04E-05	5,92E-03	-3,61E-03	3,75E+01

GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Additional mandatory and voluntary impact category indicators

PARAMETER	UNIT	Manufacturing	Distribution	Installation	Use							De-installation	End of life			Total
		(A1-A3)	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
GWP-GHG[1]	kg CO2 eq.	1,29E+01	2,49E-01	6,93E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,61E+02	0,00E+00	6,68E-03	1,17E-02	1,96E-01	8,11E-03	1,75E+02

Resource use indicators

PARAMETER		UNIT	Manufacturing	Distribution	Installation	Use							De-installation	End of life			Total
			(A1-A3)	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
Primary energy resources – Renewable	Used as energy carrier	MJ, net calorific value	3,13E+01	8,09E-03	2,79E-01	0	0	0	0	0	1,01E+03	0	4,20E-02	3,79E-04	3,66E-02	2,82E-03	1,04E+03
	Used as raw materials	MJ, net calorific value	2,37E-01	0,00E+00	-2,37E-01	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	TOTAL	MJ, net calorific value	3,15E+01	8,09E-03	4,20E-02	0	0	0	0	0	1,01E+03	0	4,20E-02	3,79E-04	3,66E-02	2,82E-03	1,04E+03
Primary energy resources – Non-renewable	Used as energy carrier	MJ, net calorific value	1,81E+02	3,29E+00	1,79E-01	0	0	0	0	0	3,79E+03	0	1,57E-01	1,54E-01	4,68E+00	1,46E+00	3,98E+03
	Used as raw materials	MJ, net calorific value	5,70E+00	0,00E+00	-1,85E-02	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	-4,26E+00	-1,42E+00	0,00E+00

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

	TOTAL	MJ, net calorific value	1,86E+02	3,29E+00	1,60E-01	0	0	0	0	0	3,79E+03	0	1,57E-01	1,54E-01	4,17E-01	4,08E-02	3,98E+03
Secondary material		kg	0,00E+00	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Renewable secondary fuels		MJ, net calorific value	0,00E+00	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non-renewable secondary fuels		MJ, net calorific value	0,00E+00	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of fresh water		m^3	2,10E-01	6,37E-05	9,63E-05	0	0	0	0	0	2,32E+00	0	9,62E-05	2,98E-06	2,69E-04	-5,86E-04	2,53E+00

Waste indicators

PARAMETER	UNIT	Manufacturing	Distribution	Installation	Use							De-installation	End of life			Total
		(A1-A3)	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
Hazardous waste disposed	kg	2,51E-03	2,19E-05	3,16E-07	0	0	0	0	0	7,10E-03	0	2,94E-07	1,02E-06	1,18E-03	2,78E-07	1,08E-02
Non-hazardous waste disposed	kg	2,12E-01	1,11E-04	1,35E-02	0	0	0	0	0	2,32E+00	0	9,62E-05	5,18E-06	8,46E-02	1,52E-01	2,78E+00
Radioactive waste disposed	kg	4,77E-04	1,99E-07	1,15E-06	0	0	0	0	0	2,77E-02	0	1,15E-06	9,30E-09	8,23E-07	4,29E-08	2,82E-02

Output flow indicators

PARAMETER	UNIT	Manufacturing	Distribution	Installation	Use							De-installation	End of life			Total
		(A1-A3)	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
Components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	1,72E-03	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,72E-03
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ per energy carrier	0,00E+00	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, thermal	MJ per energy carrier	0,00E+00	0,00E+00	0,00E+00	0	0	0	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Additional LCA results of the products

Information on biogenic carbon content

Results per declared unit		
Biogenic carbon content	Unit	Quantity
Biogenic carbon content in the product.	kg C	0,00E+00
Biogenic carbon content in the packaging.	kg C	2,39E-02

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO2.

Additional social and economic information

Not included.

Information related to sector EPD

This EPD® is not sectorial.

Version history

First version of EPD®.

Original Version of the EPD, 2026-07-29

Abbreviations

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CNMC	National Commission of Markets and Competition
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
AIE	International Energy Agency
Environmental Impact Indicators (EN 15804)	
GHG	Greenhouse gas
GWP	Global Warming Potential (kg CO_2 eq.)
GWP-fossil	Global Warming Potential from fossil sources (kg CO_2 eq.)
GWP-biogenic	Global Warming Potential from biogenic sources (kg CO_2 eq.)

GWP-luluc	Global Warming Potential from land use and land use change (kg CO_2 eq.)
GWP-total	Total Global Warming Potential (kg CO_2 eq.)
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO_2 eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification Potential (mol H^+ eq.)
EP	Eutrophication Potential
EP-freshwater	Freshwater eutrophication potential (kg P eq.)
EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals&metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADP-fossil	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m^3)
Resource Use Indicators	
PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ)
PERM	Use of renewable primary energy resources used as raw materials (MJ)
PERT	Total use of renewable primary energy resources (MJ)
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ)
PENRM	Use of non-renewable primary energy resources used as raw materials (MJ)
PENRT	Total use of non-renewable primary energy resources (MJ)
SM	Use of secondary material (kg)
RSF	Use of renewable secondary fuels (MJ)
NRSF	Use of non-renewable secondary fuels (MJ)
FW	Use of net fresh water (m^3)
Waste Indicators	
HW	Hazardous Waste (disposed) (kg)
NHW	Non-Hazardous Waste (disposed) (kg)
RW	Radioactive Waste (disposed) (kg)
Output Flow Indicators	
CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)
Lifecycle Stages / Modules	
A1	Raw material supply
A2	Transport
A3	Manufacturing
A4	Transport to site
A5	Construction/Installation
B1	Use
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	Deconstruction/Demolition
C2	Transport to waste processing
C3	Waste processing
C4	Disposal
Other Relevant Terms	
SVHC	Substances of Very High Concern

EC No.	European Community Number
CAS No.	Chemical Abstracts Service Number
MJ	Megajoule
kg	Kilogram
m^3	Cubic Meter
NMVOC	Non-Methane Volatile Organic Compounds
Sb eq.	Antimony Equivalents
P eq.	Phosphorus Equivalents
N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CO_2 eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon
kg CO_2 eq.	Kilograms of Carbon Dioxide Equivalent
ND	Not Declared

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