



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

31419 XXX5
OML50 - INFORM
Delta Light nv

EPD HUB, EPD number HUB-4679

Published on 14.12.2025, last updated on 14.12.2025, valid until 14.12.2030

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.



Created with One Click LCA

DELTALIGHT

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Delta Light nv
Address	Muizelstraat 2, 8560 Wevelgem, Belgium
Contact details	sustainability@deltalight.com
Website	www.deltalight.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025 EN 50693 for electronic and electrical products and systems
Sector	Electrical product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-B7, and modules C1-C4, D
EPD author	Iris Heus
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☒ External verification
EPD verifier	Magaly Gonzalez Vazquez as an authorized verifier for EPD Hub

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	OML50 - INFORM
Additional labels	-
Product reference	31419 XXX5
Place(s) of raw material origin	EU, Asia
Place of production	Delta Light N.V., Muizelstraat 2, 8560 Belgium
Place(s) of installation and use	Worldwide
Period for data	FY2024
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	-
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	22,8

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit of luminaire
Declared unit mass	2,396 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	33
GWP-total, A1-A3 (kgCO ₂ e)	31,7
Secondary material, inputs (%)	45,6
Secondary material, outputs (%)	72,4
Total energy use, A1-A3 (kWh)	126
Net freshwater use, A1-A3 (m ³)	0,3

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Belgian and family-run since 1989, Delta Light provides premium lighting solutions for architecture. Quality products, designed for comfort and developed to last, that stand for simplicity and consistency but also show unexpected detail, from a visible screw to an ingenious touch. Because in everything Delta Light does, at project start or follow-up, we always seek to add a little extra care — and work with our partners, to guarantee we can bring their visions to completion.

PRODUCT DESCRIPTION

Omniliner is an agile profile lighting solution that allows for the integration of spotlights at the top of the profile combined with various down- and uplight configurations. The customizable profile can be shaped into a wide variety of angles and curves for maximum flexibility when tailoring general, task or accent lighting designs. The representative product includes a linear 1m Omniliner profile, with two end caps and an integrated Inform module. With the addition of the Inform module, this solution is ideally suited for task-oriented environments, such as landscaped offices, meeting rooms, reception areas and home workspaces. Inform lighting provides focused illumination that is easy on the eyes, because each LED is shielded from direct view - perfect for workspaces where visual clarity and comfort are top priority.

Specifications about the representative product: 1m profile with a width of 50 mm and height of 81 mm. It has a 984mm LED module included. IP20 classification, class I (including power supply). Luminaire power up to 28,2W. The main materials used are aluminum for the profile, end caps and inner profile of the LED module; polycarbonate for the cover and optical elements; and stainless steel (INOX) for the fastening components and clips.

This EPD is specific to the product and manufacturing facility where it is produced. Using the extrapolation coefficients in Annex 1, the results

presented in this EPD can be extrapolated to the family of this product manufactured at the same factory.

Further information can be found at:

www.deltalight.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	81,9	Asia, EU
Minerals	0	-
Fossil materials	7,3	Asia , EU
Bio-based materials	0	-
Electronic parts	10,8	Asia , EU, USA

The metal components include aluminum, stainless steel and brass. The fossil-based materials consist of polycarbonate, polyethylene and PMMA. The electronic parts comprise PCBs, connectors, cables, power supplies and LEDs.

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0,4255

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit of luminaire
Mass per declared unit	2,396 kg
Functional unit	2686 lumen during a reference lifetime of 60 000 hours
Reference service life	20,5 years when the luminaire is operated for 8 hours a day

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	ND	ND	ND	ND	ND	x	ND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = ND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The product is made of metals, plastics and electronic components. The component manufacturing happens outside of Delta Light with subcontractors (aluminum production, moulding, pcb production,...) and are then transported to Delta Light N.V. where they are assembled together. For each component, the transport distance to Delta Light is based on the supplier's country of origin. Vehicle capacity utilization volume factor is assumed to be 100%, representing a full load. This assumption is made since transportation emissions account for only a small share of total emissions. The environmental impacts considered for the product stage include the manufacturing of raw materials and components, and the assembly to a

complete luminaire at Delta Light, as well as packaging materials and other ancillary materials. Since raw materials and components are sourced from external suppliers and then assembled in Delta Light, no production losses are considered. The finished product is packed in cardboard packaging before being shipped to the installation site. Ancillary materials include tap water and rain water, with quantities determined based on factory-level data. Only wastewater is considered as manufacturing waste, and its quantity is likewise determined from factory-level data. Energy sources are natural gas and electricity. Electricity is supplied to the factory through a combination of on-site photovoltaic generation and purchased grid power. A market-based approach is applied to model the purchased electricity grid mix, which is fully sourced from renewable energy. The use of green electricity is demonstrated through contractual instruments (GOs, RECs, etc), and its use is ensured throughout the validity period of this EPD.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation distance is defined according to the PCR. Average distance of transportation from production plant to building site is assumed as average 1340km, 592km, 179km for respectively boat, road and air transport. Again, vehicle capacity utilization volume factor is assumed to be 100% which means full load. Empty returns are not taken into account as it is assumed that return trip is used by the transportation company to serve the needs of other clients. Transportation does not cause losses as products are packaged properly. Also, volume capacity utilization factor is assumed to be 1 for the nested packaged products. Transportation impacts that occur from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions. Environmental impacts from installation into the building (A5) include release of biogenic carbon dioxide from cardboard waste packaging, calculations are based on EUROSTAT & PSR-0014 v2 (2023): 83% of the paper/cardboard packaging is recycled, 8% of the paper/cardboard packaging is incinerated

and 9% of the paper/cardboard packaging is landfilled. The incineration results in exported electric and thermal energy. The impacts of energy consumption and the used ancillary materials during installation are considered negligible. Transportation distance to e-waste handling facility is estimated as 50 km and the transportation method is assumed to be lorry.

PRODUCT USE AND MAINTENANCE (B1-B7)

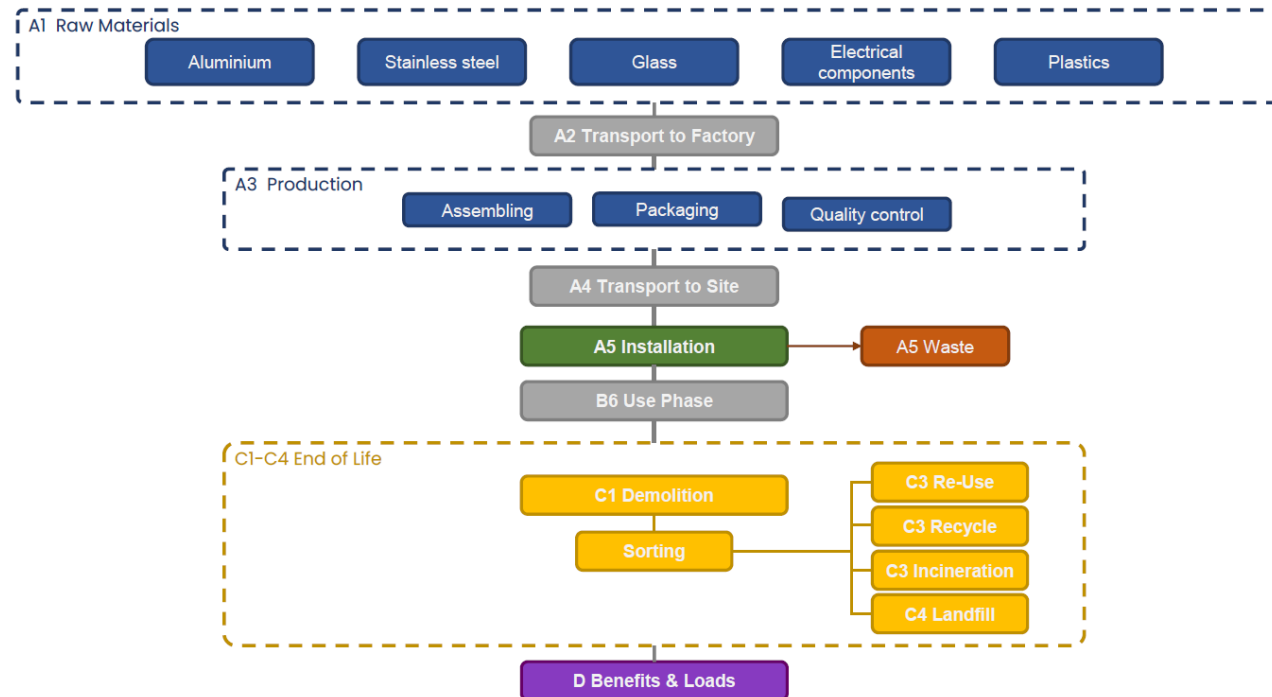
During the use phase, the product consumes electricity from regional (EU, North America, Asia and rest of the world) electricity grid mix (B6). Impacts due to electricity production include direct emissions to air, transformation and transmission losses. The reference service life is based on the LM80 report of the LED which is 60 000 hours. When the luminaire is operated 8 hours a day, this will result in an RSL of approximately 20,5 years. The product is assumed to undergo replacement of selected components in intervals of time (20.5 years when the luminaire is operated for 8 hours a day) based on the lifespan of parts and components. This is to ensure that the product is fully functional throughout its lifetime. This is why B1-B5 is excluded. B7 is not applicable. Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Consumption of energy and natural resources in demolition process is assumed to be negligible. It is assumed that the waste is collected separately and transported to the waste treatment center. Transportation distance to

treatment is assumed as 50 km and the transportation method is assumed to be lorry (C2). According to EN 50693:2019, the sequence of treatment operations occurring to the product shall include de-pollution, fractions separation and preparation (dismantling, crushing, shredding, sorting), recycling, other material recovery, energy recovery and disposal. In this study, the default values from table G.4 of EN 50693 is used for treating materials in different waste treatment methods. Due to the material and energy recovery potential of parts in the lighting system, the end-of-life product is converted into recycled raw materials, while the energy recovered from incineration displaces electricity and heat production. Module D includes the environmental benefits from energy recovery (electricity and heat) from incineration of plastics at end-of-life, as well as the benefits and burdens associated with avoided production of aluminum, steel, and packaging materials. For aluminum we have 70% recovery rate and 30% disposal rate. For copper 60% disposal rate and 40% disposal rate. Other plastics 50% energy recovery rate and 50% disposal rate. For glass 60% recovery rate and 40% disposal rate. Recycled raw material content used in the product has been subtracted from the end-of-life recycled material mass in Module D in order to avoid double counting of recycling benefits. Packaging waste is not included in the End of Life stages (C3–C4). All impacts related to packaging disposal are instead accounted for in stage A5 (installation).

MANUFACTURING PROCESS



All estimations and assumptions regarding the cut off criteria and the allocation are declared in the part “Cut-off Criteria except the estimations/assumptions below:

- Module A2, A4 & C2: Vehicle capacity utilization volume factor is assumed to be 1 which means full load. It may vary but as the role of transportation emission in total results is small, the variety in load is assumed to be negligible. Empty returns are not considered as it is assumed that return trip is used by transportation companies to serve the needs of other clients.
- Module A4: Transportation does not cause losses as products are packaged properly. Also, volume capacity utilization factor is assumed to be 1 for the nested packaged products. Additionally, transportation distances are based on a sales volume-based weighted average and a lorry is the assumed vehicle type used.
- Module B6: The product is assumed to undergo replacement of selected components in intervals of time (20.5 years when the luminaire is operated for 8 hours a day) based on the lifespan of parts and components, so the product is assumed to be fully functional throughout its lifetime. Therefore, only the use phase B6 is considered, B4 is not considered.
- Module C2: Transportation distance to e-waste handling facility is estimated as 50 km and the transportation method is assumed as lorry.
- Module C3, C4, D: The product undergoes dismantling, and the parts are sorted into metals, plastics, paint and electronics. The waste treatment percentages based on EN 50693 are assumed to be applicable. Module C3 accounts for energy and resource inputs for sorting and treating these waste streams for recycling and incineration with energy recovery. Ash from recycling processes is negligible. The recycled end-of-life materials are assumed to serve as secondary raw materials in manufacturing, while incinerated materials displace the need for electricity and heat production.

LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	Not applicable
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable
Variation in GWP-fossil for A1-A3, %	-

No grouping.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 and EPD System Verification v3.2.3. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

Next to the standards already quoted, no other sources were used in the modelling of this EPD.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	2,89E+01	7,30E-01	2,08E+00	3,17E+01	7,80E-01	1,59E+00	ND	ND	ND	ND	ND	7,40E+02	ND	0,00E+00	1,29E-02	5,29E-01	2,27E-02	-9,29E+00
GWP – fossil	kg CO ₂ e	2,87E+01	7,29E-01	3,60E+00	3,30E+01	7,80E-01	3,41E-02	ND	ND	ND	ND	ND	7,37E+02	ND	0,00E+00	1,29E-02	5,31E-01	2,28E-02	-7,81E+00
GWP – biogenic	kg CO ₂ e	7,41E-02	1,32E-04	-1,56E+00	-1,48E+00	9,23E-05	1,56E+00	ND	ND	ND	ND	ND	1,17E+00	ND	0,00E+00	2,92E-06	-1,32E-03	-4,58E-05	-1,49E+00
GWP – LULUC	kg CO ₂ e	1,07E-01	2,76E-04	3,53E-02	1,42E-01	1,45E-04	1,98E-05	ND	ND	ND	ND	ND	1,77E+00	ND	0,00E+00	5,76E-06	2,11E-04	2,02E-05	5,88E-03
Ozone depletion pot.	kg CFC-11e	4,74E-07	1,39E-08	8,11E-08	5,69E-07	1,31E-08	3,01E-10	ND	ND	ND	ND	ND	9,04E-06	ND	0,00E+00	1,90E-10	1,45E-09	2,84E-10	-2,16E-08
Acidification potential	mol H ⁺ e	2,60E-01	5,11E-03	9,20E-03	2,74E-01	4,07E-03	1,43E-04	ND	ND	ND	ND	ND	3,99E+00	ND	0,00E+00	4,39E-05	1,27E-03	8,90E-05	-7,86E-02
EP-freshwater ²⁾	kg Pe	1,78E-02	4,28E-05	7,65E-04	1,86E-02	2,37E-05	8,34E-06	ND	ND	ND	ND	ND	5,07E-01	ND	0,00E+00	1,00E-06	8,26E-05	2,30E-06	-4,79E-03
EP-marine	kg Ne	3,35E-02	1,47E-03	4,12E-03	3,90E-02	1,35E-03	2,49E-04	ND	ND	ND	ND	ND	6,90E-01	ND	0,00E+00	1,44E-05	2,13E-04	1,85E-04	-1,09E-02
EP-terrestrial	mol Ne	3,49E-01	1,62E-02	2,56E-02	3,91E-01	1,48E-02	4,45E-04	ND	ND	ND	ND	ND	6,59E+00	ND	0,00E+00	1,57E-04	2,31E-03	3,38E-04	-1,10E-01
POCP (“smog”) ³⁾	kg NMVOCe	1,22E-01	5,61E-03	1,07E-02	1,38E-01	5,00E-03	1,69E-04	ND	ND	ND	ND	ND	2,05E+00	ND	0,00E+00	6,47E-05	7,05E-04	1,09E-04	-3,30E-02
ADP-minerals & metals ⁴⁾	kg Sbe	2,11E-03	1,70E-06	1,35E-05	2,12E-03	7,64E-07	2,32E-07	ND	ND	ND	ND	ND	7,28E-03	ND	0,00E+00	3,59E-08	7,13E-06	3,98E-08	-8,30E-06
ADP-fossil resources	MJ	3,46E+02	1,03E+01	5,37E+01	4,10E+02	1,07E+01	2,91E-01	ND	ND	ND	ND	ND	1,36E+04	ND	0,00E+00	1,87E-01	1,90E+00	2,61E-01	-7,37E+01
Water use ⁵⁾	m ³ e depr.	5,74E+00	4,72E-02	6,68E-01	6,45E+00	2,74E-02	9,41E-03	ND	ND	ND	ND	ND	3,35E+02	ND	0,00E+00	9,23E-04	5,35E-02	5,85E-03	6,63E-02

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO₄e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	1,43E-06	6,09E-08	1,42E-07	1,64E-06	2,70E-08	1,86E-09	ND	ND	ND	ND	ND	2,51E-05	ND	0,00E+00	1,29E-09	2,21E-08	1,66E-09	-4,28E-07
Ionizing radiation ⁶⁾	kBq	1,67E+00	1,08E-02	9,39E-02	1,78E+00	6,10E-03	2,23E-03	ND	ND	ND	ND	ND	3,09E+02	ND	0,00E+00	1,63E-04	9,17E-03	5,36E-04	-2,00E-01
	CTUe	2,56E+02	1,11E+00	1,03E+01	2,68E+02	7,33E-01	1,26E+00	ND	ND	ND	ND	ND	2,34E+03	ND	0,00E+00	2,64E-02	1,54E+00	9,71E+01	-1,85E+01
Ecotoxicity (freshwater)	CTUe	2,56E+02	1,11E+00	1,03E+01	2,68E+02	7,33E-01	1,26E+00	ND	ND	ND	ND	ND	2,34E+03	ND	0,00E+00	2,64E-02	1,54E+00	9,71E+01	-1,85E+01
Human toxicity, cancer	CTUh	1,77E-08	1,20E-10	1,09E-09	1,90E-08	7,76E-11	2,72E-11	ND	ND	ND	ND	ND	1,90E-07	ND	0,00E+00	2,13E-12	1,19E-10	1,13E-11	-2,34E-09
Human tox. non-cancer	CTUh	8,40E-07	6,23E-09	2,84E-08	8,74E-07	7,48E-09	1,46E-09	ND	ND	ND	ND	ND	1,01E-05	ND	0,00E+00	1,21E-10	7,25E-09	2,40E-09	-5,20E-08
SQP ⁷⁾	-	8,41E+01	8,56E+00	8,05E+01	1,73E+02	3,71E+00	2,58E-01	ND	ND	ND	ND	ND	2,87E+03	ND	0,00E+00	1,88E-01	1,84E+00	4,20E-01	-1,23E+02

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	4,17E+01	1,48E-01	7,27E+00	4,91E+01	8,21E-02	-1,54E+01	ND	ND	ND	ND	ND	3,15E+03	ND	0,00E+00	2,56E-03	2,67E-01	7,78E-03	-2,00E+01
Renew. PER as material	MJ	0,00E+00	0,00E+00	1,37E+01	1,37E+01	0,00E+00	-1,37E+01	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	4,17E+01	1,48E-01	2,10E+01	6,29E+01	8,21E-02	-2,92E+01	ND	ND	ND	ND	ND	3,15E+03	ND	0,00E+00	2,56E-03	2,67E-01	7,78E-03	-2,00E+01
Non-re. PER as energy	MJ	3,41E+02	1,03E+01	5,38E+01	4,05E+02	1,07E+01	2,91E-01	ND	ND	ND	ND	ND	1,36E+04	ND	0,00E+00	1,87E-01	-1,35E+00	-2,98E+00	-7,39E+01
Non-re. PER as material	MJ	4,04E+00	0,00E+00	1,11E-01	4,15E+00	0,00E+00	-1,11E-01	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	-2,02E+00	-2,02E+00	0,00E+00
Total use of non-re. PER	MJ	3,45E+02	1,03E+01	5,39E+01	4,10E+02	1,07E+01	1,80E-01	ND	ND	ND	ND	ND	1,36E+04	ND	0,00E+00	1,87E-01	-3,37E+00	-5,00E+00	-7,39E+01
Secondary materials	kg	1,09E+00	4,28E-03	8,17E-01	1,91E+00	2,26E-03	5,52E-04	ND	ND	ND	ND	ND	2,17E+00	ND	0,00E+00	7,95E-05	1,71E-03	1,03E-04	1,07E+00
Renew. secondary fuels	MJ	4,57E-03	4,72E-05	1,18E-01	1,23E-01	2,10E-05	2,90E-06	ND	ND	ND	ND	ND	1,59E-02	ND	0,00E+00	1,01E-06	5,60E-05	1,47E-06	-1,53E-04
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m ³	2,86E-01	1,35E-03	1,52E-02	3,03E-01	8,27E-04	-2,08E-04	ND	ND	ND	ND	ND	1,02E+01	ND	0,00E+00	2,76E-05	1,32E-03	-2,42E-03	6,35E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	4,31E+00	1,40E-02	1,14E-01	4,43E+00	8,12E-03	5,90E-03	ND	ND	ND	ND	ND	5,61E+01	ND	0,00E+00	3,17E-04	2,71E-02	1,83E-03	-1,54E+00
Non-hazardous waste	kg	8,14E+01	2,70E-01	1,28E+01	9,44E+01	1,60E-01	6,77E-01	ND	ND	ND	ND	ND	2,47E+03	ND	0,00E+00	5,86E-03	7,52E-01	3,44E+00	-1,95E+01
Radioactive waste	kg	6,63E-04	2,68E-06	2,23E-05	6,88E-04	1,50E-06	5,69E-07	ND	ND	ND	ND	ND	7,85E-02	ND	0,00E+00	3,98E-08	2,24E-06	1,31E-07	-4,42E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	1,07E-01	0,00E+00	0,00E+00	1,07E-01	0,00E+00	8,90E-01	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	1,65E+00	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	8,80E-02	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,60E-01	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,90E-01	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy –	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,70E-01	ND	ND	ND	ND	ND	0,00E+00	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	2,66E+01	7,25E-01	3,74E+00	3,11E+01	7,76E-01	1,43E-01	ND	ND	ND	ND	ND	7,35E+02	ND	0,00E+00	1,28E-02	5,31E-01	2,23E-02	-7,75E+00
Ozone depletion Pot.	kg CFC ₁₁ e	3,66E-07	1,10E-08	7,48E-08	4,52E-07	1,04E-08	2,48E-10	ND	ND	ND	ND	ND	7,63E-06	ND	0,00E+00	1,52E-10	1,21E-09	2,28E-10	-2,09E-08
Acidification	kg SO ₂ e	2,10E-01	3,99E-03	6,49E-03	2,21E-01	3,10E-03	1,09E-04	ND	ND	ND	ND	ND	3,36E+00	ND	0,00E+00	3,35E-05	1,06E-03	6,59E-05	-6,71E-02
Eutrophication	kg PO ₄ ³ e	3,43E-02	6,54E-04	4,11E-03	3,91E-02	5,40E-04	1,77E-04	ND	ND	ND	ND	ND	4,20E-01	ND	0,00E+00	8,17E-06	1,31E-04	4,88E-05	-4,69E-03
POCP (“smog”)	kg C ₂ H ₄ e	1,62E-02	2,65E-04	7,39E-04	1,72E-02	2,15E-04	3,44E-05	ND	ND	ND	ND	ND	1,84E-01	ND	0,00E+00	2,99E-06	6,19E-05	6,24E-06	-4,15E-03
ADP-elements	kg Sbe	2,19E-03	1,67E-06	1,33E-05	2,21E-03	7,45E-07	2,28E-07	ND	ND	ND	ND	ND	7,26E-03	ND	0,00E+00	3,50E-08	7,10E-06	3,86E-08	-7,65E-06
ADP-fossil	MJ	2,82E+02	1,01E+01	5,22E+01	3,45E+02	1,06E+01	2,52E-01	ND	ND	ND	ND	ND	8,29E+03	ND	0,00E+00	1,84E-01	1,76E+00	2,53E-01	-7,08E+01

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO ₂ e	2,88E+01	7,30E-01	3,63E+00	3,32E+01	7,80E-01	3,41E-02	ND	ND	ND	ND	ND	7,39E+02	ND	0,00E+00	1,29E-02	5,31E-01	2,28E-02	-7,81E+00

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO₂ is set to zero.

SCENARIO DOCUMENTATION

Manufacturing energy scenario documentation – A3

Scenario parameter	Value
Electricity data source and quality	Electricity, medium voltage, residual mix (Reference product: electricity, medium voltage)
Electricity kg CO2e / kWh	0.21
Renewable energy data source and quality	Electricity production, on-site photovoltaic generation
Electricity kg CO2e / kWh	0.092
District heating data source and quality	District heat, Wevelgem, Belgium, 2024
District heating kg CO2e / MJ	0.075

Transport to installation site scenario documentation - A4

Scenario parameter	Value						
List of fuel and vehicle types with corresponding average transport distance in km	<table border="1"> <tr> <td>Lorry >32 metric ton, EURO5</td><td>592</td></tr> <tr> <td>Container ship</td><td>1340</td></tr> <tr> <td>Aircraft</td><td>179</td></tr> </table>	Lorry >32 metric ton, EURO5	592	Container ship	1340	Aircraft	179
Lorry >32 metric ton, EURO5	592						
Container ship	1340						
Aircraft	179						
Capacity utilization (including empty return) %	100						
Bulk density of transported products / kg/m3	-						
Volume capacity utilization factor (factor: =1 or <1 or ≥1 for compressed or nested packaged products)	1						

Installation scenario documentation - A5 (Energy and waste materials)

Scenario parameter	Value
Ancillary materials for installation	Not applicable
Water use (kg)	10,05
Direct emissions to ambient air, soil and water / kg	Not applicable
Corrugated board box production in kg	1,073

Use stages scenario documentation - B2 Maintenance

Scenario information	Value
Maintenance process / Description or source where description can be found	-
Maintenance cycle / Number per RSL or year (Not applicable if only B2 is declared)	-

Use stages scenario documentation - B3 Repair

Scenario information	Value
Repair process / Description or source where description can be found	-
Inspection Process / Description or source where description can be found	-
Repair cycle / Number per RSL or year	-

Use stages scenario documentation - B4 Replacement

Scenario information	Value
Replacement cycle / Number per RSL or year	0

Use stages scenario documentation - B5 Refurbishment

Scenario information	Value
Refurbishment process / Description or source where description can be found	-
Refurbishment cycle / Number per RSL or year	-
Further assumptions for scenario development, e.g., frequency and time period of use, number of occupants / Units as appropriate	-

Use stages scenario documentation - B6 Use of energy and water

Scenario information	Value
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Ancillary materials	Not applicable		
Net fresh water consumption	Not applicable		
Power consumption in W	28		
Sales-weighted distribution of low voltage regional electricity grid mix consumption	Region	Percentage	Electricity consumption (kWh)
	EU	71 %	1201.32
	Asia	7.1 %	120.132
	NA	10 %	169.2
	Rest of world	11.9 %	120.132
Period of use	20,5 years when the luminaire operates 8 hours a day		
Performance	Emits 2686 lumen during a reference lifetime of 60000 hours		

Use stages scenario documentation - B7

N/A

End-of-life scenario documentation - C1-C4

Scenario information	Value	
Materials for recycling (mass in kg is displayed)	Electric and electronic equipment	0.2586
	Aluminium	1.31
	Steel	0.0788
Sanitary landfill (mass in kg is displayed)	Polyethylene	0.0186
	Plastic, mixture	0.0692
	Steel	0.019
	Aluminium	0.55
Materials for energy recovery (mass in kg is displayed)	Polyethylene	0.019
	Plastic, mixture	0.0692
Exported energy (MJ)	Thermal	0.317
	Electricity	1.811
Transportation	Lorry, >32 metric ton, EURO5; 50 km	

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15802+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez

Tool verification validity: 27 March 2025 - 26 March 2028

Magaly Gonzalez Vazquez as an authorized verifier for EPD Hub Limited
14.12.2025



ANNEX 1 - PEP EXTRAPOLATION COEFFICIENTS OML50 INFORM MODULE RANGE

Extrapolation rules have been calculated according to PSR-0014-ed2.0-EN-2023 07 13. The extrapolation coefficients are calculated at product level, with respect to the reference product configuration of 31419 XXX5 (INFORM D HE 984mm 24LED DIM5) module combined with the 1m profile 31000 0000 (OML50 S - PROFILE). The analysis was based on 1m profiles and can be extrapolated to other lengths. The configurations with the highest wattage are reported. These include the module INFORM DU HO 984mm 24LED.

The extrapolation coefficients were calculated in the following way:

- **Fabrication stage (A1-A3) extrapolation coefficient:**
Maximum value out of formulas described in 3.6.3 Extrapolation rules applied to fabrication stage (A1-A3)
- **Distribution stage (A4) extrapolation coefficient:**
Value out of formula described in 3.6.4 Extrapolation rules applied to distribution stage (A4)
- **Installation stage (A5) extrapolation coefficient:**
Value out of formula described in 3.6.5 Extrapolation rules applied to installation stage (A5)
- **Use stage (B1 – B7) extrapolation coefficient:**
Maximum value out of formulas described in 3.6.6. Extrapolation rules applied to use stage (B1 to B7) (B2 is not declared in our case, so the formula of B6 applies)
- **End of life stage (C1 to C4) extrapolation coefficient:**
Value out of formula described in 3.6.7. Extrapolation rules applied to end-of-life stage (C1 to C4)
- **Benefits (D) extrapolation coefficient:**
Maximum value out of formulas described in 3.6.8. Extrapolation rules applied to net benefits beyond the system boundaries stage (D) (optional)

The extrapolation at the level of the functional unit can be done according to the following formula:

Extrapolation coefficient at the product level $x \left(\frac{\text{Lighting output of reference product (lumen)}}{\text{Lighting output of product concerned (lumen)}} \right)$

Data used in the calculation of extrapolation coefficients

Mass code	Description	product weight (kg)	packaging weight (kg)	Total weight (kg)	Control gear weight (kg)	Class	IP	Luminaire lumen (lm)	Luminaire power (W)
31000 0000 (ref) 31419 XXX5	OML50 S - PROFILE INFORM D HE 984mm 24LED DIM5	2,396	1,076	3,472	0,105	I	IP20	2801	28
31000 0000 31433 XXX0	OML50 S - PROFILE INFORM DU HO 984mm 24LED	2,279	1,222	3,501	0,22	I	IP20	6069	63
31100 0000 31433 XXX0	OML50 C - PROFILE INFORM DU HO 984mm 24LED	2,865	1,222	4,087	0,22	I	IP20	6069	63
31101 0000 + 31433 XXX0	OML50 CT - PROFILE + OML50 - INFORM DU HO 984mm 24LED	2,865	1,222	4,087	0,22	I	IP20	6069	63
31200 0000 31433 XXX0	OML50 ST - PROFILE INFORM DU HO 984mm 24LED	2,865	1,222	4,087	0,22	I	IP20	6069	63

Applicable extrapolation coefficients for OML50 - INFORM mass codes similar to the reference

Mass code	Extrapol. FU	A1-A3	A4	A5	B6	C1-C4	D
		MAXIMUM A1-A3	Distribution stage	Installation stage	Use stage	EOL stage	MAXIMUM D
31000 0000 31419 XXX5	1,000	1,000	1,000	1,000	1,000	1,000	1,000
31000 0000 31433 XXX0	0,462	2,095	1,008	1,136	4,500	1,008	2,095
31100 0000 31433 XXX0	0,462	2,095	1,177	1,136	4,500	1,177	2,095
31101 0000 31433 XXX0	0,462	2,095	1,177	1,136	4,500	1,177	2,095
31200 0000 31433 XXX0	0,462	2,095	1,177	1,136	4,500	1,177	2,095