



# ENVIRONMENTAL PRODUCT DECLARATION

Independent verification of the declaration and data in compliance with ISO 14025: 2006

# LEDVANCE LINEAR INDIVILED DIRECT (DALI) Reference product: LN INV D 1500 P 52W 940 DAVR WT



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Independent verification of the dec	claration and data in compliance	with ISO 14025: 2006	
Internal		External	Х
The PCR review was conducted by (DDemain)	y a panel of experts chaired by	Julie Orgelet	
PEP are compliant with XP C08-100-1:2016 or EN 50693:2019			PEP
The elements of the present PEP cannot be compared with elements from another program.			PASS PORT <sub>®</sub>
Document in compliance with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations»			

### 1. General information

#### 1.1 Company information

Further technical information can be obtained by contacting:

- LEDVANCE GmbH, Parkring 1-5, 85748 Garching, Germany
- or on the website <u>www.ledvance.com</u>
- or by E-Mail <u>LCA@ledvance.com</u>.

#### 1.2 Reference product information

The name of the product under study is "LN INV D 1500 P 52W 940 DAVR WT" with the following product description:

#### **Product benefits**

- Easy upgradeability of light source and driver (EVERLOOP design)
- Homogenous light distribution and reduced glare (UGR ≤ 19) thanks to IndiviLED® optics
- High performance with CRI90 and up to 135 lm/W
- IoT-ready luminaire with DALI-2 driver, suitable for VIVARES and other Light Management Systems
- Symmetric and asymmetric light distribution for various application areas
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- High color consistency with SDCM 3
- Easy installation
- Low flicker light thanks to special electronic control gear
- Suitable for battery emergency installations acc. to EN 60598-2-22
- Multiple mounting options thanks to different accessories

#### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Offices, education, public buildings
- Single and continuous line configuration
- Direct lighting

#### **Product features**

- Minimalistic LEDVANCE SCALE design in extruded aluminum housing, available in white and black color
- Includes EVERLOOP: Convenient replacement of light source and LED driver
- Linkable into seamless light line with accessories (surface or pendant mounting)
- Pendant mounting with suspension kit (to be ordered separetely)
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm²

#### **Equipment / Accessories**

- Suspension kit available for pendant luminaire version (to be ordered separately)
- Inline, corner and infill connectors available as separate accessory
- Through-wiring cable kit available

#### **Reference Service Life**

LEDVANCE declares for the luminaire following service lifetimes:

- Lifespan L70/B50 at 25 °C: 100,000 h
- Lifespan L80/B10 at 25 °C: 70,000 h
- Lifespan L90/B10 at 25 °C: 35,000 h

The key information about the product is summarized in the following table.

Table 1: Key technological data

Information	
Type of luminaire	Linear
Short Text Product	LN INV D 1500 P 52W 940 DAVR WT
Operating mode	Integrated LED driver
Lamp type	Integrated LED not exchangeable
Colour temperature	4000 K
Nominal wattage	52 W
Luminous flux	6,400 lm
Colour rendering index Ra	> 90
Protection class IK	IK06
Type of protection	IP20
Nominal voltage	220240 V
Nominal lifetime (L70/B50)	100,000 h
Length	1,475 mm
Height	43 mm
Width	125 mm
Type of Sensor	N/A
Area of Application	Residential Buildings; Office; Educational Institutions

Based on the assigned lifetime according EN 15193-1:2017:

Table 2: Calculated operation lifetime in years per type of building

Type of building	Annual operating hours by default [h]	Operational lifetime [years]
Residential Buildings; Office; 3 Educational Institutions	3,500	28.6

Following the requirements of the PSR, the operational lifetime of the luminaire of study is 28.6 years.





#### 1.3 Overview

The general information used for the EPD are listed below:

**Table 3: Basic EPD information** 

Information	
Functional unit	Provide lighting that delivers an outgoing artificial luminous flux of 1,000 lumens during a reference lifetime of 35,000 hours
Reference flow / declared unit*	0.055 product(s)
Life cycle stages covered (according to EN15804+A2)	Cradle-to-grave and Module D
Product category according to PSR	Luminaires
Product family name (if family EPD)	LINEAR INDIVILED DIRECT (DALI)

<sup>\*</sup> The reference flow is calculated as:

$$\frac{1,000 \text{ lm}}{\textit{Outgoing Luminous Flux of the Analyzed Product (lm)}} \times \frac{35,000 \text{ h}}{\textit{Declared Product Lifetime of the Analyzed Product (h)}}$$

Consequently, the reference flow of the following product corresponds to:

$$\frac{1,000}{6,400} \times \frac{35,000}{100,000} = 0.055$$

#### 1.4 Homogeneous environmental family

The reference product represents the LINEAR INDIVILED DIRECT (DALI) family, which differs in terms of power (W), useful output flux (Im) of the integrated LED installed in the luminaries, colour temperature, control gear (ON/OFF vs. DALI), weight, and length.

The range of variations for the products in the same family are the following:

Table 4: Range of variation for homogeneous environmental family

Criteria	Unit	Value for the reference product	Minimum value in product range	Maximum value in product range
Electrical Power	W	52	40	52
Useful Output Flux	lm	6,400	4,650	6,400
Colour Temperature	K	4,000	3,000	4,000
Weight (Product)	kg	3.800	3.200	3.960
Length	mm	1,475	1,210	1,475

The present PEP declaration is valid for all the products in the described homogenous environmental family. The spreadsheet provided in paragraph 5 Extrapolation of this document shall be used by the PEP user to extrapolate the impact of the other products from the LINEAR INDIVILED DIRECT (DALI) Family, based on the technical parameters of the considered product, as requested by the PSR.



## 2 Constituent materials

#### 2.1 Overview

**Table 5: Product composition** 

Information	Weight [kg]	Share [%]	
Total weight	4.853	100	
Product	3.800	78.3	
Packaging	1.053	21.7	

#### 2.2 Product

Table 6: Material composition - product

Information	Weight [kg]	Sum of weight [kg]	Share [%]
TOTAL		3.800	100
Metals		3.126	82.3
- Aluminium	2.944		77.5
- Steel	0.182		4.8
Plastics	·	0.211	5.5
- Polycarbonate (PC)	0.104		2.7
- PMMA	0.098		2.6
- Others	0.009		0.2
Others		0.463	12.2
- Electronics	·	0.215	5.7
- Internal & External Wires	3	0.248	6.5

#### 2.3 Packaging

Table 7: Material composition - packaging

Information	Weight [kg]	Share [%]
TOTAL	1.053	100
Paper/cardboard	0.952	90.5
Plastics	0.101	9.5

Secondary packaging with cardboard is used for shipping. In addition, packaging of raw materials and components is considered as an average quantity of 5 % in mass of the luminaire according to /PSR-0014-ED2.0-EN-2023 07 13/. This additional packaging is not considered in Table 7 as it is an additional assumption.





# 3 Information on life cycle stages



#### 3.1 Manufacturing

The manufacturer sources all parts from international suppliers. Within the manufacturing site in China, the product is assembled using energy and auxiliaries, if needed. Afterwards the product is packed in packaging materials and distributed to the client.

The production site has a certified Environmental management system according to ISO 14001:2015.



#### 3.2 Distribution

The main market for the product is Europe. For this reason, an intercontinental transport following PEP-PCR–ed4-EN-2021 09 06 is considered in the model:

Ship: 19,000 kmTruck: 1,000 km

The background assumptions for transportation are listed below.

Table 8: Background information distribution

Information	Unit	Truck	Ship
Fuel type	-	Diesel	Heavy fuel oil
Fuel consumption	l/(kg*km)	2.80E-03	2.30E-04
Total distance	km	1,000	19,000
Capacity utilisation (including empty runs)	%	85	48
Bulk density of transported products	kg/m3	n.a.	n.a.
Volume capacity utilisation factor	-	n.a.	n.a.



#### 3.3 Installation

No energy or material input is required. During installation, the product is unpacked. The packaging materials is treated by applying default values following PSR-0014-ED2.0-EN-2023 07 13.

Table 9: End of life data for packaging in Europe

Treatment scenario	Metal	Paper & Cardboard	Wood	Plastics
Incineration without energy recovery	0 %	0 %	0 %	0 %
Incineration with energy recovery	2 %	9 %	31 %	37 %
Landfill	21 %	9 %	38 %	23 %
Recycling rate	77 %	82 %	31 %	41 %



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#### 3.4 Use stage

The product has no direct emissions (B1) and is designed so that no maintenance is required (B2) or parts need to be replaced (B4). Furthermore, no standard repairs (B3) or refurbishments (B5) are foreseen. The use of the product does consume electricity (B6), but no water (B7).

The main market for the product is Europe. Therefore, the European average grid mix has been used. In addition, the reference product contains a component associated with light management function. Therefore, the total energy consumption in B6 is calculated with an energy saving coefficient of 0.5 according to /PSR-0014-ED2.0-EN-2023 07 13/.



#### 3.5 End of life

The product falls under the Waste from Electrical and Electronic Equipment (WEEE) directive 2012/19/EU and its main market is Europe. Therefore, European statistics on the treatment of lighting equipment as subcategory of WEEE from 2018 has been used. The EoL scenario displays a European average and is the following:

Incineration without energy recovery: 6.5%
Incineration with energy recovery: 7.6%
Landfilling: 6.5%
Recycling: 79.4%



#### 3.6 Benefits and loads beyond the system boundaries stage

The incineration with energy recovery and recycling of the product (incl. packaging) generates environmental benefits by avoiding the production of primary materials or energy. The amount and type of material flows used for the calculation of benefits are listed in Table 10.

Table 10: Material flows for Benefits and loads beyond the system boundaries

Information	Unit	Value
Total weight going into re-use	kg/functional unit	0
Total weight going into recycling	kg/functional unit	0.165
- Share of metals	%	82.3
- Share of plastics	%	5.5
- Share of others	%	12.2
Total weight going into incineration with energy recovery	kg/functional unit	0.073
- Share of paper	%	71.0
- Share of others	%	29.0





# 4 Environmental impacts

#### 4.1 Introduction

The following table summarizes the key information for the calculation of the environmental impacts:

Table 11: Basic information LCA model

Information	Value
Used LCA software	GaBi / LCA for experts 10
Used LCI database	GaBi Professional 2023.2 + Electronics Extension 2023.2
PCR version	PEP-PCR-ED4-EN-2021 09 06
PSR version	PEP-PSR-0014-ED2.0-EN-2023 07 13
Functional unit	Provide lighting that delivers an outgoing artificial luminous flux of 1,000 lumens during a reference lifetime of 35,000 hours

#### 4.2 Results per functional unit

The following results of the environmental declaration have been developed by considering an outgoing artificial luminous flux of 1,000 lumens over a reference lifetime of 35,000 hours. The results refer to the core environmental impact indicators and indicators describing resource use, waste categories, and output flows according to EN 15804:2012+A2:2019.

Table 12: Results for core environmental impact indicators per functional unit

	Total (excl. D)	The second second		Manufac- turing	Distribu- tion	Installa- tion Use		End of life			Benefits and loads beyond the system boundaries
		A1	A2	А3	A4	A5	В6	C2	C3	C4	D
GWP - total [kg CO2 eq.]	4.85E+01	1.90E+00	1.52E-02	1.21E-01	6.89E-02	4.65E-02	4.63E+01	1.43E-02	4.43E-02	9.92E-03	-1.13E+00
GWP - fossil [kg CO2 eq.]	4.82E+01	1.92E+00	1.50E-02	1.90E-01	6.86E-02	2.92E-02	4.59E+01	1.41E-02	4.43E-02	9.92E-03	-1.19E+00
GWP - biogenic [kg CO2 eq.]	3.29E-01	-1.83E-02	3.44E-05	-6.93E-02	8.87E-05	1.72E-02	3.99E-01	3.23E-05	2.76E-05	2.67E-06	6.21E-02
GWP - luluc [kg CO2 eq.]	6.59E-03	7.59E-04	1.41E-04	3.23E-04	1.70E-04	7.60E-05	4.99E-03	1.32E-04	1.47E-06	8.12E-07	-4.37E-04
ODP [kg CFC-11 eq.]	8.52E-10	4.56E-12	1.98E-15	7.48E-13	5.84E-15	5.27E-14	8.46E-10	1.86E-15	6.68E-14	8.05E-15	-1.37E-12
AP [Mole of H+ eq.]	1.09E-01	9.55E-03	2.44E-05	6.16E-04	1.20E-03	4.52E-05	9.80E-02	2.29E-05	2.27E-05	8.39E-06	-5.42E-03
EP - freshwater [kg P eq.]	1.78E-04	4.53E-06	5.56E-08	1.46E-06	7.82E-08	7.27E-07	1.71E-04	5.22E-08	1.65E-08	2.99E-09	-1.56E-06
EP - marine [kg N eq.]	2.55E-02	1.36E-03	9.40E-06	1.75E-04	4.29E-04	2.05E-05	2.34E-02	8.84E-06	8.37E-06	3.60E-06	-7.93E-04
EP - terrestrial [Mole of N eq.]	2.67E-01	1.47E-02	1.08E-04	1.81E-03	4.70E-03	1.88E-04	2.45E-01	1.02E-04	1.05E-04	4.23E-05	-8.57E-03
POCP [kg NMVOC eq.]	6.85E-02	4.14E-03	2.16E-05	4.84E-04	1.18E-03	4.32E-05	6.25E-02	2.03E-05	2.19E-05	9.41E-06	-2.38E-03
ADPE [kg Sb eq.]	7.89E-05	7.17E-05	1.01E-09	2.28E-08	1.67E-09	1.03E-08	7.09E-06	9.47E-10	4.95E-10	3.55E-11	-5.43E-05
ADPF [MJ]	9.95E+02	2.60E+01	2.07E-01	2.49E+00	8.67E-01	3.42E-01	9.65E+02	1.95E-01	9.27E-02	1.13E-02	-1.62E+01
WDP [m³ world equiv.]	4.85E+01	1.90E+00	1.52E-02	1.21E-01	6.89E-02	4.65E-02	4.63E+01	1.43E-02	4.43E-02	9.92E-03	-1.13E+00





Table 13: Results for indicators describing resource use, waste categories, and output flows per functional unit

Indicator	Acronym [Unit]	Value
Renewable primary energy (without raw material)	PERE [MJ]	5.83E+02
Renewable primary energy (raw material)	PERM [MJ]	9.37E-01
Total use of renewable primary energy	PERT [MJ]	5.84E+02
Non-renewable primary energy (without raw material)	PENRE [MJ]	9.79E+02
Non-renewable primary energy (raw material)	PENRM [MJ]	5.74E-01
Total use of non-renewable primary energy	PENRT [MJ]	9.80E+02
Use of secondary materials	SM [kg]	2.01E-01
Use of renewable secondary fuels	RSF [MJ]	0.00E+00
Use of non-renewable secondary fuels	NRSF [MJ]	0.00E+00
Net use of fresh water	FW [m3]	1.06E+01
Hazardous waste disposed	HWD [kg]	-2.16E-08
Non-hazardous waste disposed	NHWD [kg]	9.16E-01
Radioactive waste disposed	RWD [kg]	1.54E-01
Components for reuse	CRU [kg]	0.00E+00
Materials for recycling	MFR [kg]	2.00E-01
Materials for energy recovery	MER [kg]	3.58E-02
Exported electricity	EEE [MJ]	1.04E-01
Exported thermal energy	EET [MJ]	2.16E-01
Biogenic carbon content of the product	Biog. C in product [kg]	0.00E+00
Biogenic carbon content of the associated packaging	Biog. C in packaging [kg]	2.24E-02

#### 4.3 Results per unit of product

The following results of the environmental declaration have been developed by considering the entire life cycle of one product with the technical properties described in paragraph 1.

Table 14: Results core environmental impact indicators per unit of product

	Total (excl. D)			Manufac- turing	Distribu- tion	ibu- Installa- tion Use		End of life			Benefits and loads beyond the system boundaries
		A1	A2	А3	A4	A5	В6	C2	C3	C4	D
GWP - total [kg CO2 eq.]	8.87E+02	3.47E+01	2.77E-01	2.22E+00	1.26E+00	8.50E-01	8.46E+02	2.61E-01	8.11E-01	1.81E-01	-2.07E+01
GWP - fossil [kg CO2 eq.]	8.81E+02	3.50E+01	2.74E-01	3.48E+00	1.26E+00	5.34E-01	8.39E+02	2.58E-01	8.10E-01	1.81E-01	-2.18E+01
GWP - biogenic [kg CO2 eq.]	6.01E+00	-3.35E-01	6.28E-04	-1.27E+0	1.62E-03	3.14E-01	7.29E+00	5.91E-04	5.04E-04	4.88E-05	1.14E+00
GWP - luluc [kg CO2 eq.]	1.20E-01	1.39E-02	2.57E-03	5.91E-03	3.10E-03	1.39E-03	9.12E-02	2.42E-03	2.69E-05	1.49E-05	-8.00E-03
ODP [kg CFC-11 eq.]	1.56E-08	8.33E-11	3.62E-14	1.37E-11	1.07E-13	9.63E-13	1.55E-08	3.40E-14	1.22E-12	1.47E-13	-2.51E-11
AP [Mole of H+ eq.]	2.00E+00	1.75E-01	4.45E-04	1.13E-02	2.19E-02	8.26E-04	1.79E+00	4.19E-04	4.16E-04	1.53E-04	-9.91E-02
EP - freshwater [kg P eq.]	3.26E-03	8.29E-05	1.02E-06	2.68E-05	1.43E-06	1.33E-05	3.13E-03	9.55E-07	3.01E-07	5.46E-08	-2.85E-05
EP - marine [kg N eq.]	4.65E-01	2.49E-02	1.72E-04	3.20E-03	7.84E-03	3.74E-04	4.29E-01	1.62E-04	1.53E-04	6.58E-05	-1.45E-02
EP - terrestrial [Mole of N eq.]	4.88E+00	2.69E-01	1.98E-03	3.31E-02	8.60E-02	3.45E-03	4.48E+00	1.86E-03	1.92E-03	7.73E-04	-1.57E-01
POCP [kg NMVOC eq.]	1.25E+00	7.58E-02	3.96E-04	8.85E-03	2.15E-02	7.90E-04	1.14E+00	3.72E-04	4.00E-04	1.72E-04	-4.35E-02
ADPE [kg Sb eq.]	1.44E-03	1.31E-03	1.84E-08	4.17E-07	3.06E-08	1.89E-07	1.30E-04	1.73E-08	9.05E-09	6.50E-10	-9.93E-04
ADPF [MJ]	1.82E+04	4.75E+02	3.78E+00	4.55E+01	1.59E+01	6.26E+00	1.77E+04	3.56E+00	1.70E+00	2.07E-01	-2.96E+02
WDP [m³ world equiv.]	1.96E+02	8.36E+00	3.36E-03	8.61E-01	5.57E-03	3.73E-02	1.87E+02	3.16E-03	1.26E-01	3.96E-02	-2.10E+00





Table 15: Results indicators describing resource use. waste categories. and output flows per unit of product

Indicator	Acronym [Unit]	Value
Renewable primary energy (without raw material)	PERE [MJ]	1.07E+04
Renewable primary energy (raw material)	PERM [MJ]	1.71E+01
Total use of renewable primary energy	PERT [MJ]	1.07E+04
Non-renewable primary energy (without raw material)	PENRE [MJ]	1.79E+04
Non-renewable primary energy (raw material)	PENRM [MJ]	1.05E+01
Total use of non-renewable primary energy	PENRT [MJ]	1.79E+04
Use of secondary materials	SM [kg]	3.68E+00
Use of renewable secondary fuels	RSF [MJ]	0.00E+00
Use of non-renewable secondary fuels	NRSF [MJ]	0.00E+00
Net use of fresh water	FW [m3]	1.94E+02
Hazardous waste disposed	HWD [kg]	-3.95E-07
Non-hazardous waste disposed	NHWD [kg]	1.68E+01
Radioactive waste disposed	RWD [kg]	2.81E+00
Components for reuse	CRU [kg]	0.00E+00
Materials for recycling	MFR [kg]	3.65E+00
Materials for energy recovery	MER [kg]	6.55E-01
Exported electricity	EEE [MJ]	1.91E+00
Exported thermal energy	EET [MJ]	3.95E+00
Biogenic carbon content of the product	Biog. C in product [kg]	0.00E+00
Biogenic carbon content of the associated packaging	Biog. C in packaging [kg]	4.09E-01

# 5 Extrapolation

#### 5.1 Extrapolation rules

Extrapolations rules have been calculated following PCR-ed4-EN-2021 09 14 and PSR-0014-ed2.0- EN-2023 07 18. The defined rules shall be applied using the Extrapolation rules file provided in the following tables.

Table 16: Extrapolation parameters for reference product

Parameter	Value for reference product (LN INV D 1500 P 52W 940 DAVR WT)
Lighting output [lm]	6,400
Weight of light source [kg]	0.059
Weight of luminaire structure [kg]	3.538
Weight of control gear [kg]	0.203
Weight of light management system [kg]	N/A
Weight of packaging [kg]	1.053
Power [W]	52
Length [mm]	1,475
Height [mm]	43
Width [mm]	125

The extrapolation coefficients calculation at the functional unit level shall be taken into account with the following formula:

 $Extrapolation coefficent at the product level \times \frac{Lighting output of reference \ product \ (lm)}{Lighting output of concerned \ product \ (lm)}$ 

#### 5.2 Extrapolation coefficients

The reported extrapolation coefficients are intended at product level (declared unit) and not at functional unit.

- Some products within the product family are dimmable and it operates with a DALI driver, which is capable of communicating with an external Light Management System, their energy saving coefficient is 0.5.
- The rest of the products that do not have any sensors or light management functions are assigned with an energy saving coefficient of 1.0.





#### Table 17: Calculated Extrapolation coefficients per product

Product Name	Useful output flux [lm]	Manufac- turing	Distribu- tion	Installa- tion	Use	EoL
LN INV D 1500 P 52W 940 DAVR WT	6,400	1.00	1.00	1.00	1.00	1.00
LN INV D 1200 P 40W 930 PS WT	4,660	0.83	0.83	0.80	1.54	0.84
LN INV D 1200 P 40W 940 PS WT	5,050	0.83	0.83	0.80	1.54	0.84
LN INV D 1200 P 40W 930 PS ASY WT	4,660	0.83	0.83	0.80	1.54	0.84
LN INV D 1200 P 40W 940 PS ASY WT	5,050	0.83	0.83	0.80	1.54	0.84
LN INV D 1200 P 40W 930 DAVR WT	4,800	0.84	0.84	0.80	0.77	0.85
LN INV D 1200 P 40W 940 DAVR WT	5,050	0.84	0.84	0.80	0.77	0.85
LN INV D 1200 P 40W 930 DAVR ASY WT	4,800	0.84	0.84	0.80	0.77	0.85
LN INV D 1200 P 40W 940 DAVR ASY WT	5,050	0.84	0.84	0.80	0.77	0.85
LN INV D 1500 P 52W 930 PS WT	6,050	1.03	1.03	1.00	2.00	1.04
LN INV D 1500 P 52W 940 PS WT	6,360	1.03	1.03	1.00	2.00	1.04
LN INV D 1500 P 52W 930 DAVR WT	6,100	1.00	1.00	1.00	1.00	1.00
LN INV D 1200 P 40W 930 PS BK	4,650	0.83	0.83	0.80	1.54	0.84
LN INV D 1200 P 40W 940 PS BK	4,900	0.83	0.83	0.80	1.54	0.84
LN INV D 1200 P 40W 930 DAVR BK	4,650	0.84	0.84	0.80	0.77	0.85
LN INV D 1200 P 40W 940 DAVR BK	4,900	0.84	0.84	0.80	0.77	0.85
LN INV D 1500 P 52W 930 PS BK	5,900	1.03	1.03	1.00	2.00	1.04
LN INV D 1500 P 52W 940 PS BK	6,350	1.03	1.03	1.00	2.00	1.04
LN INV D 1500 P 52W 930 DAVR BK	5,950	1.00	1.00	1.00	1.00	1.00
LN INV D 1500 P 52W 940 DAVR BK	6,250	1.00	1.00	1.00	1.00	1.00