

# Product Environmental Profile

## LEDS SPOTLIGHT EMERGENCY LIGHTING EXPORT



### LEGRAND'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites**  
 Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions**  
 Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.
- Involve the environment in product design and provide informations in compliance with ISO 14025**  
 Reduce the environmental impact of products over their whole life cycle.  
 Provide our customers with all relevant information (composition, consumption, end of life, etc.).



### REFERENCE PRODUCT

<b>Function</b>	Avoid panic by providing 1500 lumens of lighting to guarantee the visibility of obstacles for one hour in the event of an electrical power cut. This function is provided for ten years by its self-contained power supply .
<b>Reference Product</b>	
	LG-661462
	TWINSPOUT LEDS 1500LM 1H NP STD.



### PRODUCTS CONCERNED

The environmental data is representative of the following products:

Références	Type of product	Mode	Test mode	Luminous flux & autonomy & Number of spotlights	Protection & mechanical impact index	Standby power consumption	Mass of product & Mass of packaging	Battery
LG-661462	TWINSPOUT	Non-permanent	Standard	1500 lm 1 H 2 spotlights	IP65 / IK07	0.9 W	2.29 kg / 1.13 kg	LiFePO4 9.6V 3.2Ah X2
LG-661463			Standard	2500 lm 1 H 2 spotlights		0.9 W	2.29 kg / 1.13 kg	LiFePO4 9.6V 3.2Ah X2
LG-661460			Standard	1000 lm 1H 1 spotlights		0.7 W	1.5 kg / 1.01 kg	LiFePO4 6.4V 3.2Ah X1
LG-660460			Autotest	1000 lm 1H 1 spotlights		0.7 W	1.5 kg / 1.01 kg	LiFePO4 6.4V 3.2Ah X1
LG-660462			Autotest	1500 lm 1 H 2 spotlights		0.9 W	2.29 kg / 1.13 kg	LiFePO4 9.6V 3.2Ah X2
LG-660463			Autotest	2500 lm 1 H 2 spotlights		0.9 W	2.29 kg / 1.13 kg	LiFePO4 9.6V 3.2Ah X2
LG-660465			Autotest	1500 lm 2 H 2 spotlights		0.9 W	2.29 kg / 1.13 kg	LiFePO4 9.6V 3.2Ah X2
LG-662463			Standard	2500 lm 1 H 2 spotlights		0.9 W	2.29 kg / 1.13 kg	LiFePO4 9.6V 3.2Ah X2

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### ■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

<b>Total weight of Reference Product</b>	<b>3.41 kg</b> (all packaging included)
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Product alone weight 2.29 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	12.0 %	Steel	17.7 %	Lithium batteries	15.1 %
PMMA	1.3 %	Aluminium	14.0 %	Electronic board	3.2 %
Various plastics	1.7 %			Other miscellaneous	2.1 %

Packaging (alone) : 1.13 kg					
				Wood	27.5 %
				Cardboard	5.1 %
				Paper	0.2 %

<b>Total plastics : 0.51 kg</b>	<b>15.1 %</b>	<b>Total metals : 1.08 kg</b>	<b>31.7 %</b>	<b>Total others : 1.82 kg</b>	<b>53.2 %</b>
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At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 26% by mass
- Packaging only: 14% by mass



### ■ MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification. The final assembly site is located at Lagord in France.



### ■ DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 2774 km by plane , 1190 km by truck and 555 km by boat from our warehouse to the local point of distribution into the market all around the world.



### ■ INSTALLATION

For the installation of the product, only standard tools are needed.



### ■ USE

Under normal conditions of use, this product requires maintenance. The batteries will be replaced once during the lifetime of the product. Maintenance involves an average 10 km round trip by car for each battery replacement.



### ■ END OF LIFE

The product end of life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

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### ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life.

The data collected in this PEP are representative of the year 2024.

For each phase, the following modelling elements were taken in account:

<b>System Limit</b>	<b>Manufacture A1-A3</b>	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	<b>Distribution A4</b>	Transport between the last Group distribution centre and an average delivery point in the sales area.
	<b>Installation A5</b>	The end of life of the packaging.
	<b>Use B1-B7</b>	<ul style="list-style-type: none"> <li>▪ Product category: Open area emergency lighting - Spotlight units.</li> <li>▪ Use scenario: For 10 years of continuous operation at 100% of rated load (0.9 W at 230 V) for 100% of the time. This modelling time is not a minimum durability requirement.</li> <li>▪ Energy model: Energy mix Global - 2020.</li> </ul>
	<b>End of life C1-C4</b>	The default end-of-life scenario for an international perimeter in accordance with the PSR 0007, i.e. 100% incineration.
<b>D Module</b>		Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.
<b>Software and data-base used</b>		The set of indicators used is Indicators for PEF EF 3.1 (Conforme: PEP ed.4, EN15804+A2) v2.0 EIME V6 and its CODDE-2024-06-11 database

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aforementioned database.

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	1.28E+02	kg CO2 eq.	3.50E+01	2.02E+01	2.08E+00	6.94E+01	1.88E+01	5.05E+01	1.36E+00	2.28E+00
Climate change - fossil fuels	1.27E+02	kg CO2 eq.	3.62E+01	2.02E+01	4.37E-01	6.93E+01	1.88E+01	5.05E+01	1.35E+00	2.48E+00
Climate change - biogenics	5.27E-01	kg CO2 eq.	-1.23E+00	0.00E+00	1.64E+00	1.11E-01	7.11E-02	3.99E-02	3.60E-03	-1.93E-01
Climate change - land use and land use transformation	4.18E-04	kg CO2 eq.	4.08E-04	0.00E+00	0.00E+00	1.05E-05	1.05E-05	0.00E+00	0.00E+00	2.05E-04
Ozone depletion	3.70E-05	kg.equivalent. CFC-11	1.86E-05	2.35E-08	1.41E-08	1.82E-05	1.80E-05	2.38E-07	1.39E-07	1.76E-08
Acidification (AP)	7.32E-01	mole of H+ equiv	2.22E-01	8.54E-02	2.49E-03	4.10E-01	9.48E-02	3.15E-01	1.24E-02	7.98E-03
Freshwater eutrophication	1.85E-02	kg P eq.	9.30E-03	7.14E-06	0*	9.22E-03	9.18E-03	3.65E-05	0*	6.47E-06
Marine aquatic eutrophication	1.52E-01	kg of N equiv	4.44E-02	3.82E-02	5.94E-04	6.66E-02	3.12E-02	3.54E-02	2.43E-03	1.57E-03
Terrestrial eutrophication	1.41E+00	mole of N equiv	3.33E-01	4.19E-01	7.81E-03	6.20E-01	1.96E-01	4.24E-01	3.16E-02	1.63E-02
Photochemical ozone formation	4.09E-01	kg of NMVOC equiv	1.10E-01	1.02E-01	1.68E-03	1.88E-01	7.07E-02	1.17E-01	7.20E-03	5.75E-03
Depletion of abiotic resources - elements	3.45E-03	kg.equivalent. Sb	3.02E-03	7.97E-07	0*	4.28E-04	4.21E-04	6.97E-06	0*	1.71E-07
Depletion of abiotic resources - fossil fuels	2.01E+03	MJ	5.90E+02	2.82E+02	8.12E+00	1.11E+03	1.94E+02	9.14E+02	2.53E+01	1.56E+02
Water requirement	5.38E+02	m3 of equiv. deprivation worldwide	2.71E+02	8.03E-02	0*	2.67E+02	2.64E+02	2.78E+00	1.58E-01	8.86E-01
Emission of fine particles	4.98E-06	incidence of diseases	1.84E-06	5.32E-07	1.73E-08	2.52E-06	6.09E-07	1.91E-06	8.06E-08	4.24E-08

\*Represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table. In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
<b>Ionizing radiation. human health</b>	<b>1.47E+02</b>	<b>kBq of U235 equiv.</b>	1.20E+02	3.74E-02	1.86E-01	2.59E+01	5.99E+00	1.99E+01	4.35E-01	2.38E-01
<b>Ecotoxicity (fresh water)</b>	<b>1.63E+03</b>	<b>CTUe</b>	1.15E+03	1.29E+01	9.63E+00	4.16E+02	3.26E+02	9.04E+01	3.70E+01	1.09E+01
<b>Human toxicity. carcinogenic effects</b>	<b>5.07E-08</b>	<b>CTUh</b>	3.34E-08	3.06E-10	7.39E-11	1.49E-08	8.64E-09	6.22E-09	2.04E-09	2.57E-08
<b>Human toxicity. non-carcinogenic effects</b>	<b>3.61E-06</b>	<b>CTUh</b>	1.77E-06	5.69E-09	2.94E-09	1.82E-06	1.60E-06	2.12E-07	1.64E-08	2.09E-08
<b>Impacts related to land use/soil quality</b>	<b>1.61E+01</b>	<b>-</b>	8.52E+00	0.00E+00	8.62E-03	7.53E+00	7.01E+00	5.23E-01	3.37E-02	5.71E-01
<b>Use of renewable primary energy, excluding renewable primary energy resources used as raw materials</b>	<b>1.51E+02</b>	<b>MJ</b>	2.78E+01	3.18E-01	6.22E-01	1.21E+02	5.85E+00	1.15E+02	1.24E+00	1.81E-01
<b>Use of renewable primary energy resources used as raw materials</b>	<b>2.11E+01</b>	<b>MJ</b>	2.11E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E+00
<b>Total use of renewable primary energy resources</b> (primary energy and primary energy resources used as raw materials)	<b>1.72E+02</b>	<b>MJ</b>	4.89E+01	3.18E-01	6.22E-01	1.21E+02	5.85E+00	1.15E+02	1.24E+00	2.93E+00
<b>Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials</b>	<b>1.99E+03</b>	<b>MJ</b>	5.71E+02	2.82E+02	8.12E+00	1.10E+03	1.91E+02	9.14E+02	2.53E+01	1.52E+02
<b>Use of non-renewable primary energy resources used as raw materials</b>	<b>2.15E+01</b>	<b>MJ</b>	1.83E+01	0.00E+00	0.00E+00	3.15E+00	3.15E+00	0.00E+00	0.00E+00	4.70E+00
<b>Total use of non-renewable primary energy resources</b> (primary energy and primary energy resources used as raw materials)	<b>2.01E+03</b>	<b>MJ</b>	5.90E+02	2.82E+02	8.12E+00	1.11E+03	1.94E+02	9.14E+02	2.53E+01	1.56E+02

\*Represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	8.99E-01	kg	8.99E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	1.25E+01	m <sup>3</sup>	6.30E+00	1.87E-03	0*	6.22E+00	6.16E+00	6.48E-02	4.18E-03	2.06E-02
Hazardous waste disposed of	4.37E+02	kg	2.27E+02	0.00E+00	4.21E-01	2.05E+02	2.04E+02	1.27E+00	3.88E+00	1.04E-02
Non-hazardous waste disposed of	5.71E+01	kg	3.36E+01	6.00E-01	6.22E-02	2.24E+01	1.38E+01	8.59E+00	5.36E-01	5.22E-01
Radioactive waste disposed of	3.68E-02	kg	2.49E-02	3.83E-04	2.58E-05	1.14E-02	1.04E-02	1.04E-03	8.76E-05	2.73E-04
Components for re-use	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	3.13E-01	kg	3.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	2.19E+03	MJ	6.39E+02	2.83E+02	8.74E+00	1.23E+03	2.00E+02	1.03E+03	2.66E+01	1.59E+02

Biogenic carbon content of the product	0.00E+00	kg of C.	0.00E+00
Biogenic carbon content of the associated packaging	5.11E-01	kg of C.	5.11E-01

\*Represents less than 0.01% of the total life cycle of the reference flow.

(1) For the Use stage and in accordance with the PCR in force, information modules B1, B3, B4, B5 and B7, which all have indicator values equal to «0» (zero), are not represented in this table.

For biogenic carbon storage, the methodology used is -1/+1.

In accordance with current RCP rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column.

The values of the indicators defined in PCR-ed4-EN-2021 09 06 are available in digital format in the database on the pep-ecopassport.org website.

The life cycle analysis complies with the specific rules applicable to Autonomous Electrical Safety Devices PSR0007-ed2.1-2023 12 08, available at www.pep-ecopassport.org.

For all the products concerned (see § «Products concerned»), take these impact values.

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The environmental impact of the products concerned is calculated by multiplying the environmental impact of the reference product by the extrapolation coefficient in the table below.

Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - biogenics	1.0	1.0	1.0	1.0	1.0	1.1
	Climate change - land use and land use transformation	1.0	1.0	1.0	1.0	1.0	1.2
	Ozone depletion	1.0	1.0	1.0	1.0	1.0	1.1
	Acidification (AP)	1.0	1.0	1.0	1.0	1.0	1.0
	Freshwater eutrophication	1.0	1.0	1.0	1.0	1.0	1.2
	Marine aquatic eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Terrestrial eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Photochemical ozone formation	1.0	1.0	1.0	1.0	1.0	1.0
	Depletion of abiotic resources - elements	1.0	1.0	1.0	1.0	1.0	1.2
	Depletion of abiotic resources - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Water requirement	1.0	1.0	1.0	1.0	1.0	1.0
	Emission of fine particles	1.0	1.0	1.0	1.0	1.0	1.0
	Ionizing radiation, human health	1.0	1.0	1.0	1.0	1.0	1.0
	Ecotoxicity (fresh water)	1.0	1.0	1.0	1.0	1.0	1.0
	Human toxicity, carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.2
	Human toxicity, non-carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.1
	Impacts related to land use/soil quality	1.0	1.0	1.0	1.0	1.0	1.2
LG-661463	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.1
TWINSPO	Use of renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
LEDS 2500 LM	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.1
1H NP STD	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.0
	Use of secondary materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Net use of fresh water	1.0	1.0	1.0	1.0	1.0	1.0
	Hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.0
	Non-hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.1
	Radioactive waste disposed of	1.0	1.0	1.0	1.0	1.0	1.4
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for recycling	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of primary energy during the life cycle	1.0	1.0	1.0	1.0	1.0	1.0
	Biogenic carbon content of the product	1.0	1.0				
	Biogenic carbon content of the associated packaging	1.0	1.0				

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The environmental impact of the products concerned is calculated by multiplying the environmental impact of the reference product by the extrapolation coefficient in the table below.

Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
LG-661460 SPOTLIGHT 1000 M 1H NP STD	Climate change - total	0.6	0.5	0.7	0.9	0.6	0.8
	Climate change - fossil fuels	0.6	0.5	0.7	0.9	0.6	0.8
	Climate change - biogenics	0.5	1.0	1.0	0.9	0.4	0.8
	Climate change - land use and land use transformation	0.8	0.8	1.0	1.0	0.3	1.0
	Ozone depletion	0.4	0.4	0.7	0.9	0.4	0.6
	Acidification (AP)	0.6	0.5	0.7	0.9	0.6	0.7
	Freshwater eutrophication	0.3	0.3	0.7	0.9	0.3	1.0
	Marine aquatic eutrophication	0.6	0.5	0.7	0.9	0.5	0.7
	Terrestrial eutrophication	0.6	0.5	0.7	0.9	0.6	0.7
	Photochemical ozone formation	0.6	0.5	0.7	0.9	0.6	0.7
	Depletion of abiotic resources - elements	0.7	0.8	0.7	0.9	0.3	1.0
	Depletion of abiotic resources - fossil fuels	0.7	0.6	0.7	0.9	0.7	0.8
	Water requirement	0.3	0.3	0.7	0.9	0.3	0.9
	Emission of fine particles	0.6	0.5	0.7	0.9	0.6	0.7
	Ionizing radiation, human health	0.7	0.8	0.7	0.9	0.6	0.7
	Ecotoxicity (fresh water)	0.5	0.6	0.7	0.9	0.4	0.7
	Human toxicity, carcinogenic effects	0.6	0.6	0.7	0.9	0.5	0.9
	Human toxicity, non-carcinogenic effects	0.4	0.4	0.7	0.9	0.4	0.9
	Impacts related to land use/soil quality	0.4	0.4	1.0	0.9	0.4	1.0
	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	0.7	0.6	0.7	0.9	0.7	0.7
	Use of renewable primary energy resources used as raw materials	0.9	0.9	1.0	1.0	1.0	1.0
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.7	0.7	0.7	0.9	0.7	0.7
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	0.7	0.6	0.7	0.9	0.7	0.8
	Use of non-renewable primary energy resources used as raw materials	0.6	0.7	1.0	1.0	0.3	1.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.7	0.6	0.7	0.9	0.7	0.8
	Use of secondary materials	0.9	0.9	1.0	1.0	1.0	1.0
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Net use of fresh water	0.3	0.3	0.7	0.9	0.3	0.9
	Hazardous waste disposed of	0.4	0.4	1.0	0.9	0.3	0.6
	Non-hazardous waste disposed of	0.5	0.5	0.7	0.9	0.4	0.7
	Radioactive waste disposed of	0.4	0.5	0.7	0.9	0.4	1.4
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for recycling	0.8	0.8	1.0	1.0	1.0	0.8
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of primary energy during the life cycle	0.7	0.6	0.7	0.9	0.7	0.8
	Biogenic carbon content of the product	1.0	1.0				
	Biogenic carbon content of the associated packaging	0.9	0.9				



# Product Environmental Profile

## LEDS SPOTLIGHT EMERGENCY LIGHTING EXPORT



The environmental impact of the products concerned is calculated by multiplying the environmental impact of the reference product by the extrapolation coefficient in the table below.

Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
LG-660460 SPOTLIGHT 1000 LM 1H NP AUTOTEST	Climate change - total	0.6	0.5	0.7	0.9	0.6	0.8
	Climate change - fossil fuels	0.6	0.5	0.7	0.9	0.6	0.8
	Climate change - biogenics	0.5	1.0	1.0	0.9	0.4	0.8
	Climate change - land use and land use transformation	0.8	0.8	1.0	1.0	0.3	1.0
	Ozone depletion	0.4	0.4	0.7	0.9	0.4	0.6
	Acidification (AP)	0.6	0.5	0.7	0.9	0.6	0.7
	Freshwater eutrophication	0.3	0.3	0.7	0.9	0.3	1.0
	Marine aquatic eutrophication	0.6	0.5	0.7	0.9	0.5	0.7
	Terrestrial eutrophication	0.6	0.5	0.7	0.9	0.6	0.7
	Photochemical ozone formation	0.6	0.5	0.7	0.9	0.6	0.7
	Depletion of abiotic resources - elements	0.7	0.8	0.7	0.9	0.3	1.0
	Depletion of abiotic resources - fossil fuels	0.7	0.6	0.7	0.9	0.7	0.8
	Water requirement	0.3	0.3	0.7	0.9	0.3	0.9
	Emission of fine particles	0.6	0.5	0.7	0.9	0.6	0.7
	Ionizing radiation, human health	0.7	0.8	0.7	0.9	0.6	0.7
	Ecotoxicity (fresh water)	0.5	0.6	0.7	0.9	0.4	0.7
	Human toxicity, carcinogenic effects	0.6	0.6	0.7	0.9	0.5	0.9
	Human toxicity, non-carcinogenic effects	0.4	0.4	0.7	0.9	0.4	0.9
	Impacts related to land use/soil quality	0.4	0.4	1.0	0.9	0.4	1.0
	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	0.7	0.6	0.7	0.9	0.7	0.7
	Use of renewable primary energy resources used as raw materials	0.9	0.9	1.0	1.0	1.0	1.0
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.7	0.7	0.7	0.9	0.7	0.7
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	0.7	0.6	0.7	0.9	0.7	0.8
	Use of non-renewable primary energy resources used as raw materials	0.6	0.7	1.0	1.0	0.3	1.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.7	0.6	0.7	0.9	0.7	0.8
	Use of secondary materials	0.9	0.9	1.0	1.0	1.0	1.0
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Net use of fresh water	0.3	0.3	0.7	0.9	0.3	0.9
	Hazardous waste disposed of	0.4	0.4	1.0	0.9	0.3	0.6
	Non-hazardous waste disposed of	0.5	0.5	0.7	0.9	0.4	0.7
	Radioactive waste disposed of	0.4	0.5	0.7	0.9	0.4	1.4
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0
Materials for recycling	0.8	0.8	1.0	1.0	1.0	0.8	
Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0	
Exported energy	1.0	1.0	1.0	1.0	1.0	1.0	
Total use of primary energy during the life cycle	0.7	0.6	0.7	0.9	0.7	0.8	
Biogenic carbon content of the product	1.0	1.0					
Biogenic carbon content of the associated packaging	0.9	0.9					

# Product Environmental Profile

## LEDS SPOTLIGHT EMERGENCY LIGHTING EXPORT



The environmental impact of the products concerned is calculated by multiplying the environmental impact of the reference product by the extrapolation coefficient in the table below.

Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - biogenics	1.0	1.0	1.0	1.0	1.0	1.1
	Climate change - land use and land use transformation	1.0	1.0	1.0	1.0	1.0	1.2
	Ozone depletion	1.0	1.0	1.0	1.0	1.0	1.1
	Acidification (AP)	1.0	1.0	1.0	1.0	1.0	1.0
	Freshwater eutrophication	1.0	1.0	1.0	1.0	1.0	1.2
	Marine aquatic eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Terrestrial eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Photochemical ozone formation	1.0	1.0	1.0	1.0	1.0	1.0
	Depletion of abiotic resources - elements	1.0	1.0	1.0	1.0	1.0	1.2
	Depletion of abiotic resources - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Water requirement	1.0	1.0	1.0	1.0	1.0	1.0
	Emission of fine particles	1.0	1.0	1.0	1.0	1.0	1.0
	Ionizing radiation, human health	1.0	1.0	1.0	1.0	1.0	1.0
	Ecotoxicity (fresh water)	1.0	1.0	1.0	1.0	1.0	1.0
	Human toxicity, carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.2
	Human toxicity, non-carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.1
	Impacts related to land use/soil quality	1.0	1.0	1.0	1.0	1.0	1.2
LG-660462	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.1
TWINSPO	Use of renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
LEDS 1500 LM	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.1
1H NP AUTOTEST	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.0
	Use of secondary materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Net use of fresh water	1.0	1.0	1.0	1.0	1.0	1.0
	Hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.0
	Non-hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.1
	Radioactive waste disposed of	1.0	1.0	1.0	1.0	1.0	1.4
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for recycling	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of primary energy during the life cycle	1.0	1.0	1.0	1.0	1.0	1.0
	Biogenic carbon content of the product	1.0	1.0				
	Biogenic carbon content of the associated packaging	1.0	1.0				

# Product Environmental Profile

## LEDs SPOTLIGHT EMERGENCY LIGHTING EXPORT



The environmental impact of the products concerned is calculated by multiplying the environmental impact of the reference product by the extrapolation coefficient in the table below.

Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - biogenics	1.0	1.0	1.0	1.0	1.0	1.1
	Climate change - land use and land use transformation	1.0	1.0	1.0	1.0	1.0	1.2
	Ozone depletion	1.0	1.0	1.0	1.0	1.0	1.1
	Acidification (AP)	1.0	1.0	1.0	1.0	1.0	1.0
	Freshwater eutrophication	1.0	1.0	1.0	1.0	1.0	1.2
	Marine aquatic eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Terrestrial eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Photochemical ozone formation	1.0	1.0	1.0	1.0	1.0	1.0
	Depletion of abiotic resources - elements	1.0	1.0	1.0	1.0	1.0	1.2
	Depletion of abiotic resources - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Water requirement	1.0	1.0	1.0	1.0	1.0	1.0
	Emission of fine particles	1.0	1.0	1.0	1.0	1.0	1.0
	Ionizing radiation, human health	1.0	1.0	1.0	1.0	1.0	1.0
	Ecotoxicity (fresh water)	1.0	1.0	1.0	1.0	1.0	1.0
	Human toxicity, carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.2
	Human toxicity, non-carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.1
	Impacts related to land use/soil quality	1.0	1.0	1.0	1.0	1.0	1.2
LG-660463	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.1
TWINSPO	Use of renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
LEDS 2500 LM	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.1
1H NP AUTOTEST	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.0
	Use of secondary materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Net use of fresh water	1.0	1.0	1.0	1.0	1.0	1.0
	Hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.0
	Non-hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.1
	Radioactive waste disposed of	1.0	1.0	1.0	1.0	1.0	1.4
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for recycling	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of primary energy during the life cycle	1.0	1.0	1.0	1.0	1.0	1.0
	Biogenic carbon content of the product	1.0	1.0				
	Biogenic carbon content of the associated packaging	1.0	1.0				

# Product Environmental Profile

## LEDS SPOTLIGHT EMERGENCY LIGHTING EXPORT



The environmental impact of the products concerned is calculated by multiplying the environmental impact of the reference product by the extrapolation coefficient in the table below.

Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - biogenics	1.0	1.0	1.0	1.0	1.0	1.1
	Climate change - land use and land use transformation	1.0	1.0	1.0	1.0	1.0	1.2
	Ozone depletion	1.0	1.0	1.0	1.0	1.0	1.1
	Acidification (AP)	1.0	1.0	1.0	1.0	1.0	1.0
	Freshwater eutrophication	1.0	1.0	1.0	1.0	1.0	1.2
	Marine aquatic eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Terrestrial eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Photochemical ozone formation	1.0	1.0	1.0	1.0	1.0	1.0
	Depletion of abiotic resources - elements	1.0	1.0	1.0	1.0	1.0	1.2
	Depletion of abiotic resources - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Water requirement	1.0	1.0	1.0	1.0	1.0	1.0
	Emission of fine particles	1.0	1.0	1.0	1.0	1.0	1.0
	Ionizing radiation, human health	1.0	1.0	1.0	1.0	1.0	1.0
	Ecotoxicity (fresh water)	1.0	1.0	1.0	1.0	1.0	1.0
	Human toxicity, carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.2
	Human toxicity, non-carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.1
	Impacts related to land use/soil quality	1.0	1.0	1.0	1.0	1.0	1.2
LG-660465	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.1
TWINSPO	Use of renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
LEDS 1500 LM	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.1
2H NP AUTOTEST	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.0
	Use of secondary materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Net use of fresh water	1.0	1.0	1.0	1.0	1.0	1.0
	Hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.0
	Non-hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.1
	Radioactive waste disposed of	1.0	1.0	1.0	1.0	1.0	1.4
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for recycling	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of primary energy during the life cycle	1.0	1.0	1.0	1.0	1.0	1.0
	Biogenic carbon content of the product	1.0	1.0				
	Biogenic carbon content of the associated packaging	1.0	1.0				

# Product Environmental Profile

## LEDS SPOTLIGHT EMERGENCY LIGHTING EXPORT



The environmental impact of the products concerned is calculated by multiplying the environmental impact of the reference product by the extrapolation coefficient in the table below.

Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Climate change - biogenics	1.0	1.0	1.0	1.0	1.0	1.1
	Climate change - land use and land use transformation	1.0	1.0	1.0	1.0	1.0	1.2
	Ozone depletion	1.0	1.0	1.0	1.0	1.0	1.1
	Acidification (AP)	1.0	1.0	1.0	1.0	1.0	1.0
	Freshwater eutrophication	1.0	1.0	1.0	1.0	1.0	1.2
	Marine aquatic eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Terrestrial eutrophication	1.0	1.0	1.0	1.0	1.0	1.0
	Photochemical ozone formation	1.0	1.0	1.0	1.0	1.0	1.0
	Depletion of abiotic resources - elements	1.0	1.0	1.0	1.0	1.0	1.2
	Depletion of abiotic resources - fossil fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Water requirement	1.0	1.0	1.0	1.0	1.0	1.0
	Emission of fine particles	1.0	1.0	1.0	1.0	1.0	1.0
	Ionizing radiation, human health	1.0	1.0	1.0	1.0	1.0	1.0
	Ecotoxicity (fresh water)	1.0	1.0	1.0	1.0	1.0	1.0
	Human toxicity, carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.2
	Human toxicity, non-carcinogenic effects	1.0	1.0	1.0	1.0	1.0	1.1
	Impacts related to land use/soil quality	1.0	1.0	1.0	1.0	1.0	1.2
LG-662463	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.1
TWINSPO	Use of renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
LEDS 2500 LM	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.1
1H NP ADRESSABLE	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.0	1.0	1.0	1.0
	Use of secondary materials	1.0	1.0	1.0	1.0	1.0	1.0
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0
	Net use of fresh water	1.0	1.0	1.0	1.0	1.0	1.0
	Hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.0
	Non-hazardous waste disposed of	1.0	1.0	1.0	1.0	1.0	1.1
	Radioactive waste disposed of	1.0	1.0	1.0	1.0	1.0	1.4
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for recycling	1.0	1.0	1.0	1.0	1.0	1.0
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0
	Total use of primary energy during the life cycle	1.0	1.0	1.0	1.0	1.0	1.0
	Biogenic carbon content of the product	1.0	1.0				
	Biogenic carbon content of the associated packaging	1.0	1.0				

Registration number: <b>LGRP-01993-V01.01-EN</b>	Drafting rules: « <b>PEP-PCR-ed4-EN-2021 09 06</b> » <b>Supplemented by «PSR-0007 ed2.1-2023 12 08»</b>
Verifier accreditation N°: <b>VH55</b>	Information and reference documents: <b>www.pep-ecopassport.org</b>
Date of issue: <b>09-2024</b>	Validity period: <b>5 years</b>
<b>Independent verification of the declaration and data, in compliance with ISO 14025 : 2006</b>	
Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with NF C08-100-1 :2016 and EN 50693 :2019 or NF E38-500 :2022 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2006: «Environmental labels and declarations. Type III environmental declarations»	

Environmental data in alignment with EN 15804: 2012 + A2 : 2019