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Product Environmental Profile

LED Satellite D63





■ 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 ■

Function	Avoid panic by providing 315 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.
Reference Product	
	659009LI
	LED Satellite D63

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



■ PRODUCTS CONCERNED

The environmental data is representative of the following products:

Catalogue Numbers

659007LI, 659008LI, 659009LI, 659010LI, 659011LI, 659012LI



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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.

Product alone weight 1.99 kg											
Plastics as % of weight		Metals as % of weight	Other as % of weight								
PC	13.9%	Copper and copper alloys	6.3%	PWB < 10cm2 (rich)	5%						
PVC	7.8%	Al	2%	Various components	3.6 %						
PET	1.6%	Steel	0.6%	Battery	19.7%						
PA	<0.1%	Tin	0.5%								

Packaging (alone) : 0.36 kg		
	Cardboard (packaging)	19.1%
	Wood (packaging)	17.5 %
	Paper (packaging)	2.4%
	PE	<0.1%

Total plastics : 0.21kg	23.3 %	Total metals : 0.09 kg	9.4%	Total others : 0.62 kg	67.3%	ĺ
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At the date of edition of this document, the content of recycled material(s) is:

- Product alone (excluding packaging): 3 %
- Packaging only: 0 %



■ MANUFACTURE ■

This Reference Product comes from sites that have received ISO14001 certification. The final assembly site is located at Prestons, Australia.



■ 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 465 km by rail, 829.09km by sea and 156.13km by road from our warehouse to the local point of distribution into the market in Australia and New-Zealand.

Packaging is compliant with with Australian Consumer Law and other applicable regulation



■ INSTALLATION ■

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



USF

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.



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■ 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.

Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 63%. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the elective use of this channel for the end of life of this product. Separated into:

- plastic materials (excluding packaging): 95%
 metal materials (excluding packaging): 94%
 other materials (excluding packaging): 44.5%
- packaging (all types of materials): 48.6%



■ ENVIRONMENTAL IMPACTS ■

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life. It is representative of products marketed and used in France in an electrical installation in compliance with NF C 15100 and associated product standards.

The datasets collected in this PEP are representative from products marketed and used in Australia and New Zealand.

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

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
Ħ	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
em Limit	Installation A5	The end of life of the packaging.
System	Use B1-B7	 Product category: Open Area emergency Lighting - SCELL Use scenario: for a 10 years working life, on idle most of the time at 23% of rated load, when battery needs to charge power consumption increases to 100% of rated load until battery fully charged. Energy model: Electricity Mix_Low voltage_2018_Australia_AU 2018
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06
D Mo	dule	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.
Softw base	vare and data- used	EIME V6 & its database CODDE-2023-02.

The values of the impacts defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website. For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are calculated with extrapolation rules.



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■ ENVIRONMENTAL IMPACTS

	Total L	ife Cycle	Manufactu	ıring	Distribut	ion	Installat	ion		End of L	_ife			
		,	A1-A3		A4		A5		Total B1-B7		B2	В6	C1-C4	i
Climate change - total	1.79E+02	kg CO ₂ eq.	1.68E+01	100%	1.15E-01	100%	4.94E-01	100%	1.61E+02	100%	1.61E+02	0,00E+00	6.63E-01	100%
Climate change - fossil fuels	1.79E+02	kg CO ₂ eq.	1.67E+01	100%	1.15E-01	100%	3.31E-02	100%	1.61E+02	100%	1.61E+02	0,00E+00	6.56E-01	100%
Climate change - biogenics	6.67E-01	kg CO ₂ eq.	1.21E-01	100%	0.00E+00	100%	4.60E-01	100%	7.86E-02	100%	7.86E-02	0,00E+00	7.38E-03	100%
Climate change - land use and land use transformation	2.42E-05	kg CO ₂ eq.	2.41E-05	100%	0.00E+00	100%	0.00E+00	100%	0.00E+00	100%	0.00E+00	0,00E+00	1.25E-07	100%
Ozone depletion	8.72E-06	kg CFC-11 eq.	7.91E-06	100%	8.67E-10	100%	4.97E-10	100%	7.83E-07	100%	7.83E-07	0,00E+00	2.61E-08	100%
Acidification (AP)	1.14E+00	mole of H+ eq.	7.90E-02	100%	9.39E-04	100%	2.12E-04	100%	1.06E+00	100%	1.06E+00	0,00E+00	2.03E-03	100%
Freshwater eutrophication	3.36E-03	kg P eq.	3.12E-03	100%	4.16E-08	100%	1.04E-08	100%	1.14E-06	100%	1.14E-06	0,00E+00	2.34E-04	100%
Marine aquatic eutrophication	1.34E-01	kg of N eq.	1.62E-02	100%	3.73E-04	100%	9.09E-05	100%	1.17E-01	100%	1.17E-01	0,00E+00	1.14E-04	100%
Terrestrial eutrophication	1.46E+00	mole of N eq.	1.22E-01	100%	4.10E-03	100%	1.09E-03	100	1.33E+00	100%	1.33E+00	0,00E+00	1.94E-03	100%
Photochemical ozone formation	4.32E-01	kg NMVOC eq.	3.96E-02	100%	1.06E-03	100%	2.45E-04	100%	3.91E-01	100%	3.91E-01	0,00E+00	3.63E-04	100%
Depletion of abiotic resources - elements	4.06E-03	kg Sb eq.	4.06E-03	100%	4.40E-09	100%	-7.99E-08	3100%	2.49E-06	100%	2.49E-06	0,00E+00	-4.54E-06	100%
Depletion of abiotic resources - fossil fuels	2.73E+03	МЈ	2.38E+02	100%	1.60E+00	100%	3.97E-01	100%	2.49E+03	100%	2.49E+03	0,00E+00	1.98E+00	100%
Water requirement	9.69E+01	m³ deprivation worldwide eq.	9.01E+01	100%	8.36E-04	100%	5.99E-02	100%	6.38E+00	100%	6.38E+00	0,00E+00	3.27E-01	100%
Emission of fine particles	6.29E-06	incidence of diseases	4.78E-07	100%	8.07E-09	100%	1.23E-09	100%	5.79E-06	100%	5.79E-06	0,00E+00	1.07E-08	100%

^{*}represents less than 0.01% of the total life cycle of the reference flow

PEP ecopassport n° LGRP-01738-V01.01-EN

Module D -3.42E-01

-3.29E-01 -1.24E-02 0.00E+00 -5.69E-08 -8.09E-03 -1.32E-06 -3.03E-04 -3.39E-03 -1.41E-03 -4.22E-04 -6.86E+00 -3.76E-01

-5.09E-08

⁽¹⁾ 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		Manufactu	ıring	Distribut	ion	Installat	ion			Use ⁽¹⁾		End of L	Life
			A1-A3		A4		A5		Total B1-B7		B2	В6	C1-C4	4
Ionizing radiation, human health	7.51E+01	kBq of U235 eq.	7.42E+01	100%	1.37E-03	100%	7.67E-04	100%	8.29E-01	100%	8.29E-01	0,00E+00	3.90E-02	100%
Ecotoxicity (fresh water)	2.96E+03	CTUe	3.94E+02	100%	9.54E-02	100%	2.99E-01	100%	2.55E+03	100%	2.55E+03	000E+00	2.06E+01	100%
Human toxicity, carcinogenic effects	8.12E-07	CTUh	7.91E-07	100%	2.35E-1	100%	3.67E-12	100%	1.97E-08	100%	1.97E-08	0,00E+00	1.29E-09	100%
Human toxicity, non-carcinogenic effects	2.04E-06	CTUh	1.02E-06	100%	2.82E-10	100%	3.85E-10	100%	9.98E-07	100%	9.98E-07	0,00E+00	1.88E-08	100%
Impacts related to land use/soil quality	4.35E+00	-	2.56E+00	100%	0.00E+00	100%	0.00E+00	100%	1.10E+00	100%	1.10E+00	0,00E+00	6.94E-01	100%
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.94E+02	МЈ	5.51E+00	100%	7.49E-03	100%	-1.05E-02	100%	1.88E+02	100%	1.88E+02	0,00E+00	1.90E-01	100%
Use of renewable primary energy resources used as raw materials	6.97E+00	МЈ	6.97E+00	100%	0.00E+00	100%	0.00E+00	100%	0.00E+00	100%	0.00E+00	0,00E+00	0.00E+00	100%
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.01E+02	МЈ	1.25E+01	100%	7.49E-03	100%	-1.05E-02	100%	1.88E+02	100%	1.88E+02	0,00E+00	1.90E-01	100%
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	2.72E+03	MJ	2.29E+02	100%	1.60E+00	100%	3.97E-01	100%	2.49E+03	100%	2.49E+03	0,00E+00	1.98E+00	100%
Use of non-renewable primary energy resources used as raw materials	9.04E+00	МЈ	9.04E+00	100%	0.00E+00	100%	0.00E+00	100%	0.00E+00	100%	0.00E+00	0,00E+00	0.00E+00	100%
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.73E+03	МЈ	2.38E+02	100%	1.60E+00	100%	3.97E-01	100%	2.49E+03	100%	2.49E+03	0,00E+00	1.98E+00	100%

Module D -1.02E+01 -1.94E+01 -6.74E-07 -1.10E-07 0.00E+00 -3.08E-01 1.60E-04 -3.08E-01 -6.86E+00 0.00E+00 -6.86E+00

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^{*}represents less than 0.01% of the total life cycle of the reference flow

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	Total L	ife Cycle	Manufacturing	Distribution	Installation		Use ⁽¹⁾		End of Life
			A1-A3	A4	A5	Total B1-B7 B2		В6	C1-C4
Use of secondary materials	4.79E-02	kg	4.79E-02	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	МЈ	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	МЈ	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	2.26E+00	m³	2.10E+00	1.95E-05	1.39E-03	1.49E-01	1.49E-01	0,00E+00	7.61E-03
Hazardous waste disposed of	1.38E+02	kg	1.34E+02	0.00E+00	-5.16E-04	4.11E+00	4.11E+00	0,00E+00	2.85E-01
Non-hazardous waste disposed of	3.94E+01	kg	1.35E+01	1.79E-02	3.87E-01	2.59E+01	2.59E+01	0,00E+00	-3.83E-01
Radioactive waste disposed of	3.48E-02	kg	3.21E-02	1.42E-05	7.98E-06	2.55E-03	2.55E-03	0,00E+00	1.68E-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
Materials for recycling	7.74E-02	kg	1.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0,00E+00	6.08E-02
Materials for energy recovery	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
Exported energy	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
Total use of primary energy during the life cycle	2.93E+03	МЈ	2.50E+02	1.61E+00	3.86E-01	2.68E+03	2.68E+03	0,00E+00	2.17E+00

Module D
0.00E+00
0.00E+00
0.00E+00
-8.75E-03
-9.64E+00
-3.75E-01
-2.99E-04
0.00E+00
0.00E+00
0.00E+00
0.00E+00
-7.17E+00

Biogenic carbon content of the product	0.00E+00	kg of C	0.00E+00
Biogenic carbon content of the associated packaging	1.21E-01	kg of C	1.21E-01

^{*}Represents less than 0.01% of the total life cycle of the reference flow

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are calculated with <extrapolation rules>

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⁽¹⁾ 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 The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.



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	Coefficient of extrapolation of environnemental indicators													
Associated references	Total life Cycle Manufacturing Distribution Installation Use													
659009LI	LED Satellite D63 white emergency lighting Galaxy	0.0	1.0	1.0	1.0	1.0	1.0							
659007LI	LED Satellite D50 white emergency lighting Galaxy	0.0	1.0	1.0	0.8	1.0	0.8							
659008LI	LED Satellite D50 black emergency lighting Galaxy	0.0	1.0	1.0	0.8	1.0	0.8							
659010LI	LED Satellite D63 black emergency lighting Galaxy	0.0	1.0	1.0	1.0	1.0	1.0							
659011LI	LED Satellite Corridor D80 white emergency lighting Galaxy	0.0	1.0	1.0	1.0	1.0	1.0							
659012LI	LED Satellite Corridor D80 black emergency lighting Galaxy	0.0	1.0	1.0	1.0	1.0	1.0							

Registration number: LGRP-01738-V01.01-EN	Drafting rules: «PEP-PCR-ed4-2021 09 06 Supplemented by «PSR-0007-ed2.1-2023 12 08
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org
Date of issue: 12-2024	Validity period: 5 years
Independent verification of the declaration and data, in co	mpliance with ISO 14025 : 2006
Internal ⊠ External □	PEP
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 50693:20. The elements of the present PEP cannot be compared with e	019 or NF E38-500 :2022 PASS
Document in compliance with ISO 14025 : 2006: «Environment Type III environmental declarations»	