

Product Environmental Profile

EMERGENCY LIGHT U22 RECTANGULAR INTERNATIONAL




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 70 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	
	LG-660051
	EMERGENCY LIGHT U22RECT SURFACE 70LM 1H STANDARD INTERNATIONAL

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

Catalogue Numbers	Type of product	Type of mode*	Test Mode	Lumens & Autonomy	Degree of protection / Impact strength	Consumption (W)	Product weight only & Packaging weight only (g)	Type of battery (3.6V AA HT)
LG-660051	Open Area emergency Lighting - SCELL	Non-Permanent	Manual	70 lm / 1 H	IP42 / IK07	1.45 W	305 g / 82 g	BATTERY NiCd 700mAh
LG-660052				100 lm / 1 H		1.45 W	305 g / 82 g	BATTERY NiCd 700mAh
LG-660053				100 lm / 1 H		1.45 W	305 g / 82 g	BATTERY NiCd 700mAh
LG-660054				200 lm / 1 H		2.2 W	322 g / 82 g	BATTERY NiCd 1.1Ah
LG-660057				200 lm / 2 H		0.4 W	340 g / 82 g	BATTERY NiMH 1.5Ah
LG-660059				100 lm / 3 H		1.9 W	322 g / 82 g	BATTERY NiCd 1.1Ah
LG-660060				70 lm / 1 H		1.9 W	322 g / 82 g	BATTERY NiCd 1.1Ah
LG-660072				200 lm / 1 H		0.8 W / 2.2 W	314 g / 82 g	BATTERY NiCd 700mAh
LG-660074				350 lm / 1 H		1.0 W / 2.4 W	327 g / 82 g	BATTERY NiCd 1.1Ah
LG-660075				200 lm / 1 H		0.4 W / 1.9 W	340 g / 82 g	BATTERY NiMH 1.5Ah
LG-660077			100 lm / 2 H	0.4 W / 1.9 W		340 g / 82 g	BATTERY NiMH 1.5Ah	
LG-660079			100 lm / 3 H	1.07 W / 2.5 W		328 g / 82 g	BATTERY NiCd 1.1Ah	
LG-660080			100 lm / 3 H	1.0 W / 2.5 W		328 g / 82 g	BATTERY NiCd 1.1Ah	
LG-660140			Autotest	160 lm / 1 H		0.4 W / 1.9 W	327 g / 82 g	BATTERY NiMH 1.1Ah
LG-660141				100 lm / 3 H		0.4 W / 1.9 W	327 g / 82 g	BATTERY NiMH 1.1Ah
LG-660152				100 lm / 1 H		0.35 W / 1.6 W	292 g / 82 g	BATTERY NiMH 500mAh
LG-660154				200 lm / 1 H		1.9 W	321 g / 82 g	BATTERY NiMH 1.1Ah
LG-660155				350 lm / 1 H		0.4 W / 1.9 W	340 g / 82 g	BATTERY NiMH 1.5Ah
LG-660157				200 lm / 2 H		0.35 W	340 g / 82 g	BATTERY NiMH 1.5Ah
				200 lm / 2 H				

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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.

Total weight of Reference Product	0.38 kg (all packaging included)
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Product alone weight 0.30 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	54.5 %			Batteries	15.6 %
				Electronic board	6.3 %
				Other components	2.0 %
Packaging (alone) : 0.08 kg					
PE	<0.1 %			Cardboard	15.3 %
				Wood	4.7 %
				Paper	1.6 %
Total plastics : 0.21 kg	54.5 %	Total metals : 0.00 kg	0 %	Total others : 0.17 kg	45.5 %

At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 0% by mass
- Packaging only: 66% by mass



■ MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.
The final assembly site is located in Terrejon, Spain.



■ 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 1629.51 Km by plane, 1848.27 Km by truck and 195.81 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 twice during the product's lifetime. Maintenance involves an average 10 km round trip by truck for each battery replacement.

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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.



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 the world in an electrical installation in compliance with NF C 15100 and associated product standards.

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

System Limit	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
	Installation A5	The end of life of the packaging.
	Use B1-B7	<ul style="list-style-type: none"> • Product category: Open Area emergency Lighting - SCELL • Use scenario: For 10 years of continuous operation at 100% of rated load (1.45W at 230 V) for 100% of the time. This modeling time is not a minimum durability requirement. • Energy model: Electricity Mix : World 2020
	End of life C1-C4	The default end-of-life scenario maximizing impacts according to the annexe D of PCR ed4. The default end-of-life scenario for batteries maximizing impacts according to the PSR 0007.
D Module	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.	
Software and data-base used	The indicators set used is « Indicators for PEF EF 3.1 (Compliance: PEF ed.4, EN15804+A2) v1.0 » EIME V6 and its CODDE-2024-04 database	

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

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ENVIRONMENTAL IMPACTS

	Total Life Cycle		Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	8,98E+01	kg CO2 eq.	2,93E+00	1,34E+00	1,55E-01	8,52E+01	3,81E+00	8,14E+01	1,65E-01	-7,44E-02
Climate change - fossil fuels	8,97E+01	kg CO2 eq.	2,99E+00	1,34E+00	2,92E-02	8,51E+01	3,81E+00	8,13E+01	1,65E-01	3,55E-03
Climate change - biogenics	1,24E-01	kg CO2 eq.	-6,73E-02	0,00E+00	1,26E-01	6,44E-02	1,71E-04	6,42E-02	4,87E-04	-7,80E-02
Climate change - land use and land use transformation	3,09E-04	kg CO2 eq.	3,09E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0*	0,00E+00
Ozone depletion	2,93E-06	kg.equivalent. CFC-11	2,57E-07	1,57E-09	1,02E-09	2,65E-06	2,27E-06	3,83E-07	1,55E-08	-5,22E-09
Acidification (AP)	6,02E-01	mole of H+ equiv	2,43E-02	6,19E-03	1,89E-04	5,70E-01	4,47E-02	5,26E-01	1,36E-03	-3,82E-04
Freshwater eutrophication	7,97E-05	kg P eq.	1,04E-05	4,74E-07	2,31E-08	6,14E-05	2,59E-06	5,88E-05	7,46E-06	5,63E-07
Marine aquatic eutrophication	6,71E-02	kg of N equiv	2,25E-03	2,55E-03	4,20E-05	6,19E-02	4,98E-03	5,70E-02	3,03E-04	4,29E-05
Terrestrial eutrophication	8,02E-01	mole of N equiv	2,46E-02	2,80E-02	5,52E-04	7,45E-01	6,22E-02	6,83E-01	3,82E-03	1,98E-04
Photochemical ozone formation	2,31E-01	kg of NMVOC equiv	8,45E-03	6,85E-03	1,19E-04	2,14E-01	2,55E-02	1,89E-01	8,91E-04	4,43E-06
Depletion of abiotic resources - elements	3,05E-03	kg.equivalent. Sb	8,13E-04	0*	0*	2,24E-03	2,23E-03	1,12E-05	0*	-3,12E-04
Depletion of abiotic resources - fossil fuels	1,76E+03	MJ	8,45E+01	1,87E+01	5,41E-01	1,66E+03	1,83E+02	1,47E+03	3,26E+00	-3,08E-01
Water requirement	8,03E+00	m3 of equiv. deprivation worldwide	1,32E+00	5,31E-03	1,22E-03	6,69E+00	2,21E+00	4,48E+00	2,00E-02	-3,81E-02
Emission of fine particles	3,49E-06	incidence of diseases	1,35E-07	3,57E-08	1,20E-09	3,31E-06	2,39E-07	3,07E-06	8,30E-09	-2,32E-09

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

(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		Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Ionizing radiation. human health	1,15E+02	kBq of U235 equiv.	3,93E+01	0*	1,22E-02	7,56E+01	4,35E+01	3,21E+01	5,51E-02	-3,08E-01
Ecotoxicity (fresh water)	2,05E+02	CTUe	2,11E+01	8,57E-01	6,97E-01	1,78E+02	3,20E+01	1,46E+02	4,40E+00	8,89E-01
Human toxicity. carcinogenic effects	1,79E-07	CTUh	3,64E-08	2,04E-11	0*	1,42E-07	1,32E-07	1,00E-08	2,88E-10	7,01E-09
Human toxicity. non-carcinogenic effects	5,46E-07	CTUh	5,90E-08	3,78E-10	2,09E-10	4,80E-07	1,39E-07	3,41E-07	6,82E-09	-2,77E-08
Impacts related to land use/soil quality	1,80E+00	-	9,28E-01	0,00E+00	5,68E-04	8,45E-01	2,15E-03	8,43E-01	2,45E-02	0,00E+00
Use of renewable primary energy. excluding renewable primary energy resources used as raw materials	1,87E+02	MJ	2,23E+00	2,11E-02	4,09E-02	1,85E+02	7,36E-02	1,85E+02	1,63E-01	-2,45E-01
Use of renewable primary energy resources used as raw materials	8,19E-01	MJ	8,19E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,65E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1,88E+02	MJ	3,05E+00	2,11E-02	4,09E-02	1,85E+02	7,36E-02	1,85E+02	1,63E-01	7,20E-01
Use of non-renewable primary energy. excluding non-renewable primary energy resources used as raw materials	1,76E+03	MJ	7,69E+01	1,87E+01	5,41E-01	1,66E+03	1,83E+02	1,47E+03	3,26E+00	-3,08E-01
Use of non-renewable primary energy resources used as raw materials	7,99E+00	MJ	7,58E+00	0,00E+00	0,00E+00	4,03E-01	4,03E-01	0,00E+00	0,00E+00	0,00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1,76E+03	MJ	8,45E+01	1,87E+01	5,41E-01	1,66E+03	1,83E+02	1,47E+03	3,26E+00	-3,08E-01

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

(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		Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	5,41E-02	kg	5,41E-02	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	1,87E-01	m3	3,07E-02	1,24E-04	4,77E-05	1,56E-01	5,15E-02	1,04E-01	5,29E-04	-8,87E-04
Hazardous waste disposed of	8,99E+00	kg	2,98E+00	0,00E+00	3,04E-02	5,57E+00	3,53E+00	2,04E+00	4,16E-01	-5,07E+00
Non-hazardous waste disposed of	1,58E+01	kg	1,75E+00	3,99E-02	4,22E-03	1,40E+01	1,23E-01	1,38E+01	5,85E-02	-1,38E-02
Radioactive waste disposed of	3,50E-03	kg	1,06E-03	2,55E-05	1,74E-06	2,38E-03	6,96E-04	1,68E-03	3,28E-05	-1,93E-05
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	6,41E-03	kg	6,96E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,72E-03	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	1,95E+03	MJ	8,76E+01	1,87E+01	5,82E-01	1,84E+03	1,83E+02	1,66E+03	3,42E+00	4,12E-01

Biogenic carbon content of the product	0,00E+00	kg of C.	0,00E+00	0,00E+00
Biogenic carbon content of the associated packaging	4,12E-02	kg of C.	4,12E-02	2,31E-02

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

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

(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 lifecycle analysis complies with the Specific Rules for Autonomous Electrical Safety Devices PSR0007-ed2.1-EN-2023 12 08, available at www.pep-ecopassport.org.

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.

For all products concerned (see § «products concerned»), take these impacts values.

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To obtain the environmental impact values of products other than the Reference Product, take the environmental impact values of the Reference Product and multiply them by the values in the coefficient table below.

References	Designation	coef to apply per phase of the life cycle						
		total Life Cycle	Manu- facturing [A1-A3]	Distribution [A4]	Installation [A5]	Use [B2]	Use [B6]	End of life [C1-C4]
LG-660052	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 100LM 1H STANDARD INTERNATIONAL	1,0	1,0	1,0	1,0	1,0	1,0	1,0
LG-660053	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 100LM 1H STANDARD WITH EVAC LABEL	1,0	1,0	1,2	1,0	1,0	1,0	1,0
LG-660054	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 200LM 1H STANDARD INTERNATIONAL	1,3	1,1	1,2	1,0	1,2	1,5	1,1
LG-660057	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 200LM 2H STANDARD INTERNATIONAL	1,0	1,2	1,4	1,0	1,4	0,3	1,1
LG-660059	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 100LM 3H STANDARD INTERNATIONAL	1,2	1,1	1,2	1,0	1,2	1,3	1,1
LG-660060	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 100LM 3H STANDARD WITH EVAC LABEL	1,2	1,1	1,2	1,0	1,2	1,3	1,1
LG-660072	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 100LM 1H STD INTERNATIONAL	1,2	1,1	1,1	1,0	1,0	1,5	1,0
LG-660074	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 200LM 1H STD INTERNATIONAL	1,4	1,2	1,2	1,0	1,2	1,7	1,1
LG-660075	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 350LM 1H STD INTERNATIONAL	1,3	1,2	1,1	1,0	1,4	1,3	1,1
LG-660077	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 200LM 2H STD INTERNATIONAL	1,3	1,2	1,3	1,0	1,4	1,3	1,1
LG-660079	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 100LM 3H STD INTERNATIONAL	1,4	1,2	1,2	1,0	1,2	1,7	1,1
LG-660080	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 100LM 3H WITH EVAC LABEL	1,4	1,2	1,4	1,0	1,2	1,7	1,1
LG-660140	EMERGENCY LIGHT U22RECT SURFACE PERMANENT NON PERMANENT 160 LUMENS 1H 5Autotest	1,2	1,1	1,4	1,0	1,2	1,3	1,1
LG-660141	EMERGENCY LIGHT U22RECT SURFACE PERMANENT NON PERMANENT 100 LUMENS 3H Autotest	1,2	1,1	1,4	1,0	1,2	1,3	1,1
LG-660152	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 100LM 1H AUTOTEST INTERNAT	0,8	0,9	1,1	1,0	0,6	1,1	1,0
LG-660154	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 200 LUMENS 1H Autotest	1,2	1,0	1,4	1,0	1,2	1,3	1,0
LG-660155	EMERGENCY LIGHT U22RECT SURFACE PERMANENT - NON PERM 350LM 1H AUTOTEST INTERNAT	1,3	1,2	1,4	1,0	1,4	1,3	1,1
LG-660157	EMERGENCY LIGHT U22RECT SURFACE NON PERMANENT 200 LUMENS 2H Autotest	1,0	1,2	1,4	1,0	1,4	0,2	1,1

Registration number: LGRP-01915-V01.01-EN	Drafting rules: « PEP-PCR-ed4-EN-2021 09 06 » Supplemented by «PSR-0007 ed2.1-FR-2023 12 08»
Verifier accreditation N°: VH55	Information and reference documents : www.pep-ecopassport.org
Date of issue: 05-2023	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006	
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