

Product Environmental Profile

EMERGENCY LIGHTING AUTOTEST URANEXT / X-LIGHT 180



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	Facilitate the evacuation of personnel by providing 45 lumens of light 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	
	Cat.No 660141
	EMERGENCY LIGHTING RECTANGULAR SURFACE PERMANENT - NON PERMANENT 100 LUMENS 3H AUTOTEST

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
• 660100
• 660101
• 660102
• 660104
• 660105
• 660106
• 660107
• 660108
• 660122
• 660124
• 660125
• 660126
• 660127
• 660140
• 660152
• 660154
• 660155
• 660157

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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	528 g (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	37.9%			Batteries & accus	13.0%
PA	1.8%			Electronic boards	6.1%
PE	<0.1%				
Packaging as % of weight					
				Wood	28.3%
				Paper	12.9%
Total plastics	39.7 %	Total metals	0.0 %	Total others	60.3 %

Estimated recycled material content: 11 % by mass.



■ MANUFACTURE

This Reference Product comes from site has received ISO14001 certification.



■ 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 1375 km by truck from our warehouse to the local point of distribution into the market in European countries.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste and french decree 98-638. At their end of life, its recyclability rate is 97 % (in % of packaging weight)



■ INSTALLATION

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



■ USE

Under normal conditions of use, this product requires one battery change, taken into account in this analysis.

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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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Elements to process specifically:

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- PWB > 10cm² : 32 g
- Battery : 69 g

• Extended producer responsibility:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end of life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 88 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

- plastic materials (excluding packaging) : 38 %
- other materials (excluding packaging) : 10 %
- packaging (all types of materials) : 40 %



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 from products marketed and used in Europe, in compliance with the local current standards.

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

Unless otherwise specified, the energy models are those integrated in the modules used from the EIME database	
Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.
Installation	The end of life of the packaging.
Use	<ul style="list-style-type: none"> • Product category: PSR-0007-ed1.1-EN-2015 10 16: Self-contained emergency electrical equipment ?? • Usage scenario: for a 10-year life span in continuous operation at 100% of the rated load (0.4W at 230V) for 100% of the time. This modeling time is not a minimum durability requirement. • Energy model: Electricity Mix ; Europe 27 - 2008.
End of life	The default end-of-life treatment scenario maximizing environmental impacts, except for battery/PCB waste which is recycled through a WEEE process
Software and database used	EIME & database CODDE-2018-11

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	2.32E+01	kgCO2 eq.	4.58E+00	20 %	3.84E-02	< 1%	1.17E-02	< 1%	1.86E+01	80 %	5.38E-02	< 1%
Ozone depletion	2.86E-06	kgCFC-11 eq.	1.69E-06	59 %	7.78E-11	< 1%	4.39E-11	< 1%	1.17E-06	41 %	4.59E-09	< 1%
Acidification of soils and water	1.01E-01	kgSO2 eq.	2.61E-02	26 %	1.73E-04	< 1%	5.43E-05	< 1%	7.42E-02	74 %	1.77E-04	< 1%
Water eutrophication	1.77E-02	kg(PO4)3- eq.	1.26E-02	71 %	3.96E-05	< 1%	3.00E-05	< 1%	4.90E-03	28 %	1.42E-04	< 1%
Photochemical ozone formation	6.14E-03	kgC2H4 eq.	1.98E-03	32 %	1.23E-05	< 1%	3.84E-06	< 1%	4.13E-03	67 %	1.59E-05	< 1%
Depletion of abiotic resources - elements	1.52E-03	kgSb eq.	2.58E-04	17 %	1.54E-09	< 1%	4.82E-10	< 1%	1.26E-03	83 %	2.48E-09	< 1%
Total use of primary energy	5.15E+02	MJ	6.79E+01	13 %	5.43E-01	< 1%	1.64E-01	< 1%	4.46E+02	87 %	7.02E-01	< 1%
Net use of fresh water	6.27E+01	m³	3.68E-01	< 1%	3.44E-06	< 1%	1.99E-06	< 1%	6.23E+01	99 %	8.05E-05	< 1%
Depletion of abiotic resources - fossil fuels	2.63E+02	MJ	4.67E+01	18 %	5.39E-01	< 1%	1.61E-01	< 1%	2.15E+02	82 %	5.55E-01	< 1%
Water pollution	1.75E+03	m³	8.96E+02	51 %	6.31E+00	< 1%	1.88E+00	< 1%	8.36E+02	48 %	5.43E+00	< 1%
Air pollution	1.58E+03	m³	5.47E+02	35 %	1.57E+00	< 1%	8.40E-01	< 1%	1.02E+03	65 %	7.22E+00	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.



SELECTION OF ENVIRONMENTAL IMPACTS

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are calculated with the following tables.

The outcome percentage can be applied to all impact values in the tables above. Contact Legrand if there are questions concerning product variations or if application of the calculation is unclear.

The reference product : 660141						
EMERGENCY LIGHT RECT SURFACE PERMANENT NON PERMANENT 100 LUMENS 3H AUTOTEST						
Coefficient of extrapolation of environmental indicators						
Associated References	Manufacturing	Distribution	Installation	Use	End of life	
660100 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 50 LUMENS 1H AUTOTEST 660101 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 70 LUMENS 1H AUTOTEST 660102 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 100 LUMENS 1H AUTOTEST	GWP	0.7	1.0	1.0	2.2	1.0
	ODP					
	A					
	EP				0.5	
	POCP					
	ADPe					
	PE				2.2	
	FW					
	ADPf					
WP						
AP						
660104 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 200 LUMENS 1H AUTOTEST 660154 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 200 LUMENS 1H AUTOTEST	GWP	0.8	1.0	1.0	4.8	1.0
	ODP					
	A					
	EP				0.9	
	POCP					
	ADPe					
	PE				4.8	
	FW					
	ADPf					
WP						
AP						
660105 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 50 LUMENS 1H AUTOTEST 660107 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 70 LUMENS 1H AUTOTEST	GWP	1.0	1.0	1.0	0.9	1.0
	ODP					
	A					
	EP				1.0	
	POCP					
	ADPe					
	PE				0.9	
	FW					
	ADPf					
WP						
AP						

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660106 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 500 LUMENS 1H AUTOTEST 660108 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 350 LUMENS 2H AUTOTEST	GWP	1.0	1.0	1.0	0.4	1.0
	ODP					
	A					
	EP				1.1	
	POCP					
	ADPe				0.4	
	PE					
	FW					
	ADPf					
	WP					
AP						
AP						
660122 EMERGENCY LIGHT RECT SURFACE PERMANENT 100 LUMENS 1H AUTOTEST	GWP	1.0	1.0	1.0	4.0	1.0
	ODP					
	A					
	EP				0.5	
	POCP					
	ADPe				4.0	
	PE					
	FW					
	ADPf					
	WP					
AP						
AP						
660124 EMERGENCY LIGHT RECT SURFACE PERMANENT 200 LUMENS 1H AUTOTEST	GWP	1.0	1.0	1.0	4.8	1.0
	ODP					
	A					
	EP				0.9	
	POCP					
	ADPe				4.8	
	PE					
	FW					
	ADPf					
	WP					
AP						
AP						
660125 EMERGENCY LIGHT RECT SURFACE PERMANENT 350 LUMENS 1H AUTOTEST 660127 EMERGENCY LIGHT RECT SURFACE PERMANENT 200 LUMENS 2H AUTOTEST	GWP	1.0	1.0	1.0	4.8	1.0
	ODP					
	A					
	EP				1.0	
	POCP					
	ADPe				4.8	
	PE					
	FW					
	ADPf					
	WP					
AP						
AP						

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660126 EMERGENCY LIGHT RECT SURFACE PERMANENT 500 LUMENS 1H AUTOTEST	GWP	1.0	1.0	1.0	3.5	1.0
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
660140 EMERGENCY LIGHT RECT SURFACE PERMANENT NON PERMANENT 160 LUMENS 1H AUTOTEST	GWP	1.0	1.0	1.0	1.0	1.0
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
660152 EMERGENCY LIGHT RECT SURFACE PERMANENT - NON PERM 100LM 1H AUTOTEST	GWP	1.0	1.0	1.0	0.9	1.0
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
660155 EMERGENCY LIGHT RECT SURFACE PERMANENT - NON PERM 350LM 1H AUTOTEST	GWP	1.0	1.0	1.0	1.0	1.0
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					

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660157 EMERGENCY LIGHT RECT SURFACE NON PERMANENT 200 LUMENS 2H AUTOTEST	GWP	1.0	1.0	1.0	1.0	1.0
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
AP						

Contact Legrand if you have any questions regarding the calculation of coefficients for impacts others than those presented in this PEP

Registration number: LGRP-01535-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0007-ed1.1-2015 10 16»
Verifier accreditation N°: VH18	Information and reference documents: www.pep-ecopassport.org
Date of issue: 12-2022	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 Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2016 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 + A1 : 2013