Product Environmental Profile

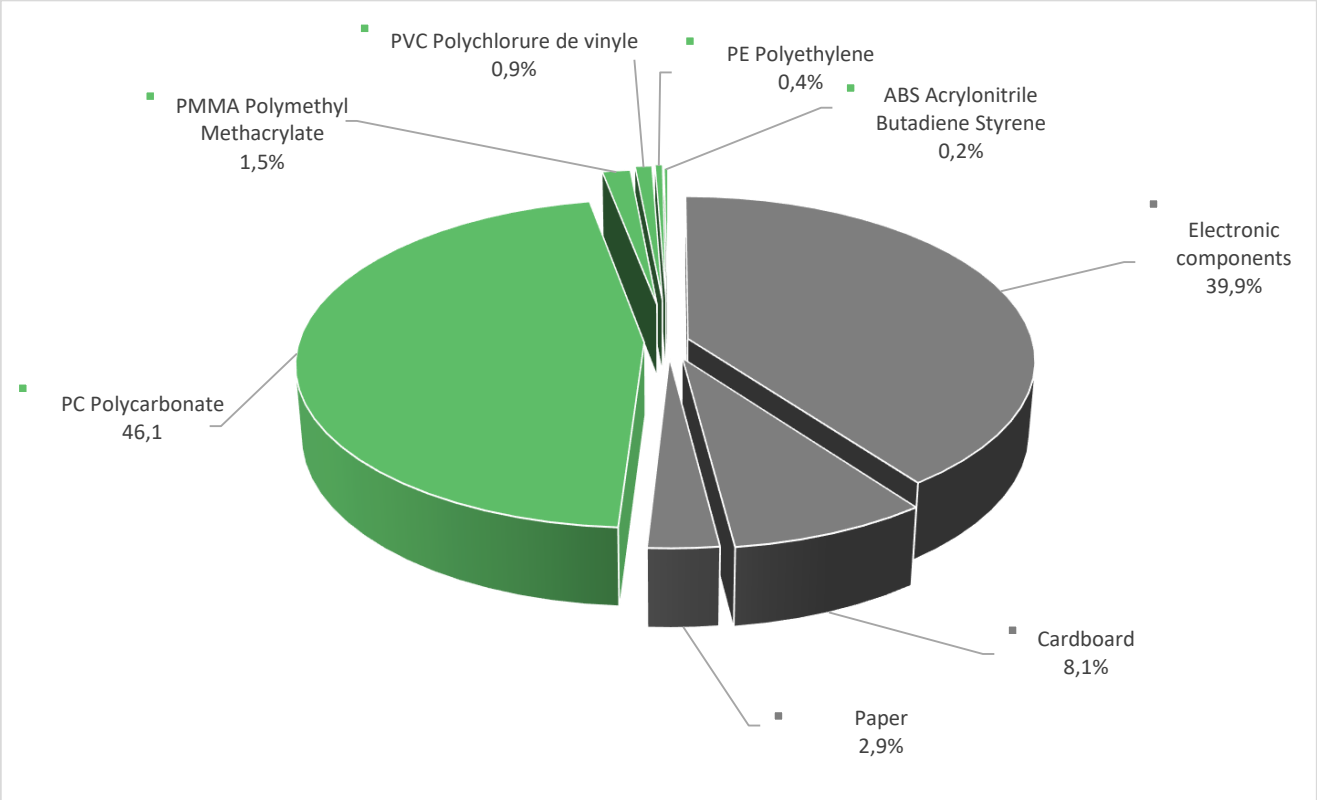
EXW-LIGHT IP65 LMR/500SA/1LFP

General information

Representative product	EXW-LIGHT IP65 LMR/500SA/1LFP - OVA44015
Description of the product	Maintained emergency luminaire (EN 60598-2-22) luminaire in which the emergency lighting lamps are energized at all times when normal or emergency lighting is required
Functional unit	Facilitate the evacuation of personnel by providing: 500 lumens of light for one hour; 400 lumens of light for an hour and a half; 300 lumens of light for two hours; 250 lumens of light for three hours in the event of an electrical power cut. This function is provided for ten years by its self-contained power supply

Constituent materials

Reference product mass	510 g	including the product, its packaging and additional elements and accessories



	Plastics	49,1%
	Metals	0,0%
	Others	50,9%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

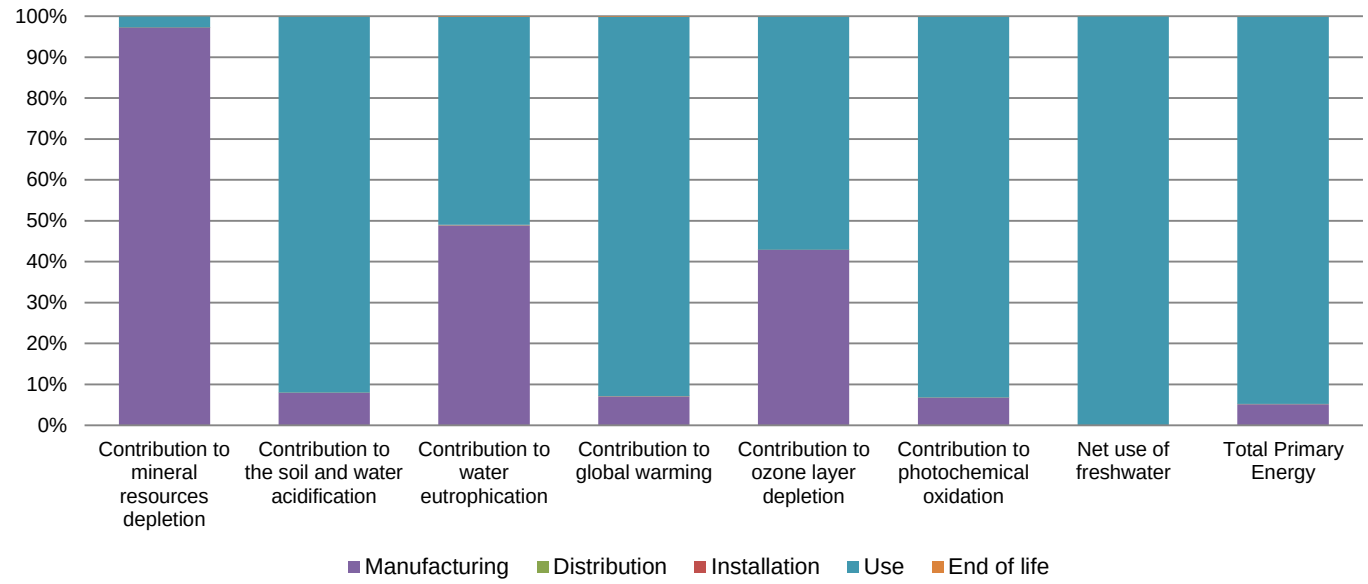
The EXW-LIGHT IP65 LMR/500SA/1LFP presents the following relevent environmental aspects	
Design	The small capacity of the battery and the high efficiency of the LED light source reduce the energy consumption in the installation
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 58,1 g, consisting of Cardboard(80%) Paper (20%) Packaging recycled materials is 80% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	Wall installation needed
Use	During the product service life, a battery of 97g should be changed 1 times to guarantee the rated dicharge duration. The LED light source lasts 10 yeas or longer and doesn't need to be substituted.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains batteries: (97g), electronic card:(53g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **65%** Based on “ECO’DEEE recyclability and recoverability calculation method” (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	10 years
Installation elements	During the installation phase, the packaging must be disposed off.
Use scenario	The product is in stand-by mode 100% of the time with a power consumption of 2,3W for 10 years.

Geographical representativeness	Europe			
Technological representativeness	Maintained emergency luminaire (EN 60598-2-22) luminaire in which the emergency lighting lamps are energized at all times when normal or emergency lighting is required			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Italy	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators	**EXW-LIGHT IP65 LMR/500SA/1LFP - OVA44015**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3,14E-04	3,05E-04	0*	0*	8,58E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	4,48E-01	3,54E-02	3,00E-04	0*	4,12E-01	2,23E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	4,90E-02	2,39E-02	6,92E-05	0*	2,49E-02	7,76E-05
Contribution to global warming	kg CO_2 eq	1,07E+02	7,57E+00	6,58E-02	0*	9,88E+01	1,92E-01
Contribution to ozone layer depletion	kg CFC11 eq	1,14E-05	4,87E-06	0*	0*	6,47E-06	1,19E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	2,43E-02	1,64E-03	2,14E-05	0*	2,26E-02	2,34E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,58E+02	6,94E-02	0*	0*	3,58E+02	0*
Total Primary Energy	MJ	2,08E+03	1,08E+02	9,30E-01	0*	1,97E+03	1,19E+00



Optional indicators	**EXW-LIGHT IP65 LMR/500SA/1LFP - OVA44015**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,20E+03	7,96E+01	9,24E-01	0*	1,12E+03	8,93E-01
Contribution to air pollution	m^3	5,03E+03	7,56E+02	2,80E+00	0*	4,26E+03	1,04E+01
Contribution to water pollution	m^3	5,27E+03	1,16E+03	1,08E+01	0*	4,08E+03	1,07E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	6,18E-02	6,18E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,54E+02	3,63E+00	0*	0*	2,51E+02	0*
Total use of non-renewable primary energy resources	MJ	1,83E+03	1,04E+02	9,29E-01	0*	1,72E+03	1,19E+00

Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,54E+02	3,59E+00	0*	0*	2,51E+02	0*
Use of renewable primary energy resources used as raw material	MJ	4,20E-02	4,20E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,82E+03	9,37E+01	9,29E-01	0*	1,72E+03	1,19E+00
Use of non renewable primary energy resources used as raw material	MJ	1,03E+01	1,03E+01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Waste categories	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	3,97E+01	3,86E+01	0*	0*	2,49E-01	7,65E-01
Non hazardous waste disposed	kg	3,74E+02	5,51E+00	0*	0*	3,68E+02	0*
Radioactive waste disposed	kg	2,50E-01	3,87E-03	0*	0*	2,46E-01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3,88E-01	3,17E-02	0*	5,79E-02	0*	2,99E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3,83E-02	0*	0*	0*	0*	3,83E-02
Exported Energy	MJ	1,84E-04	1,73E-05	0*	1,67E-04	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Date of issue	10/2020	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

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 : 2010 « Environmental labels and declarations. Type III environmental declarations »

Schneider Electric Industries SAS

Country Customer Care Center
http://www.schneider-electric.com/contact

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 896 313 776 €

www.schneider-electric.com

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