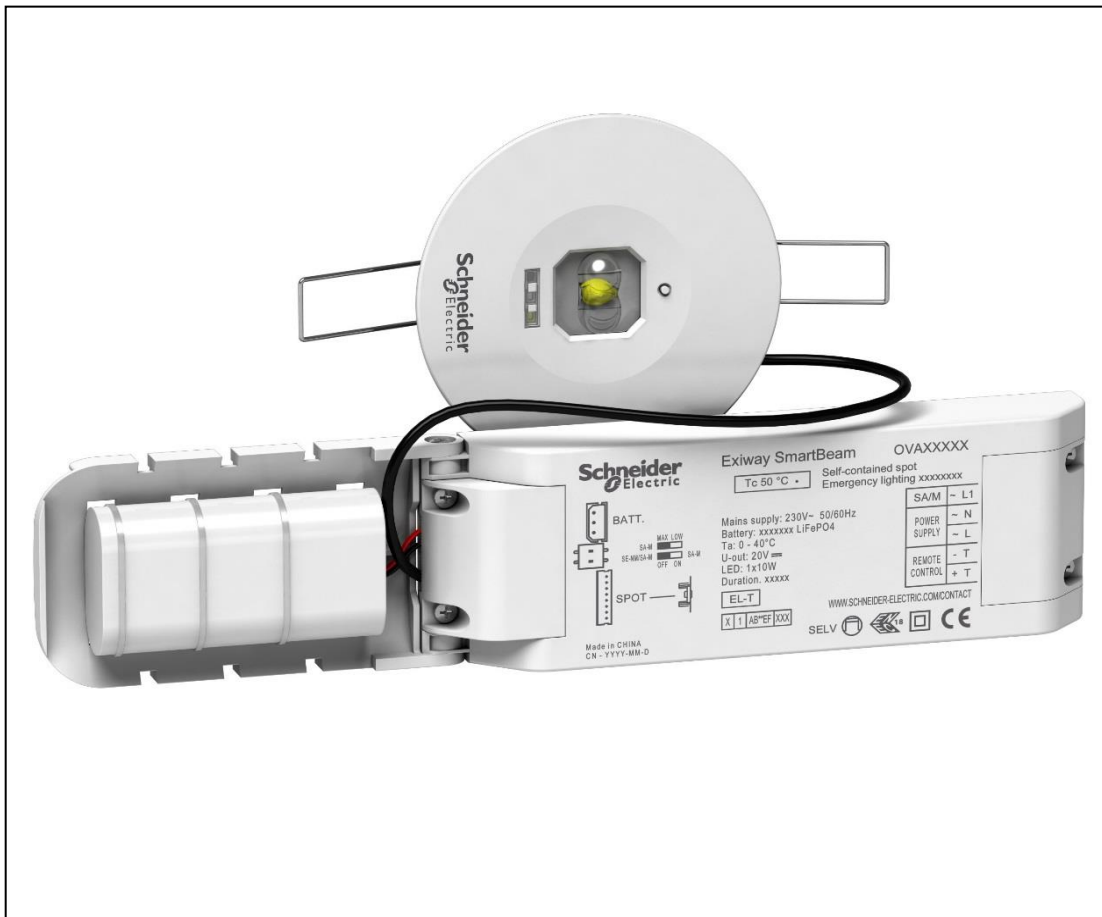


Product Environmental Profile

EXW- SMARTBEAM -FR IP20-42 ACT.L/SA/3LFP





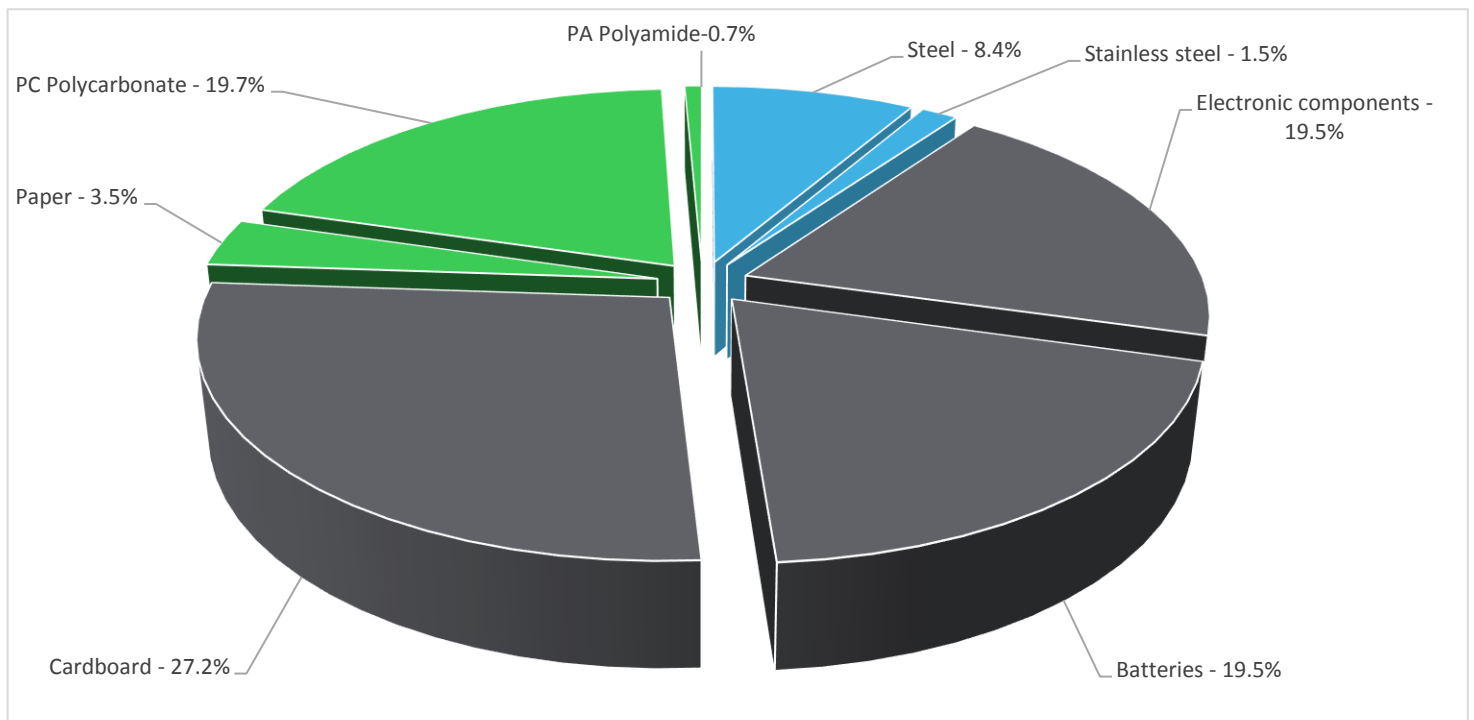
General information

Representative product	EXW- SMARTBEAM -FR IP20-42 ACT.L/SA/3LFP - OVA48922
Description of the product	Maintained emergency luminaire (definition of EN60598-2-22 clause 22.3.5) luminaire in which the emergency lighting lamps are energized at all times when normal or emergency lighting is required
Functional unit	Prevent panic by providing 200 lumens of lighting to guarantee the visibility of obstacles for 1 hour in the event of an electrical power cut. This function is provided for ten years by its self-contained power supply. The rated duration of this unit is 3h.



Constituent materials

Reference product mass 455 g including the product, its packaging and additional elements and accessories



Plastics	20,4%
Metals	9,9%
Others	69,7%



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

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

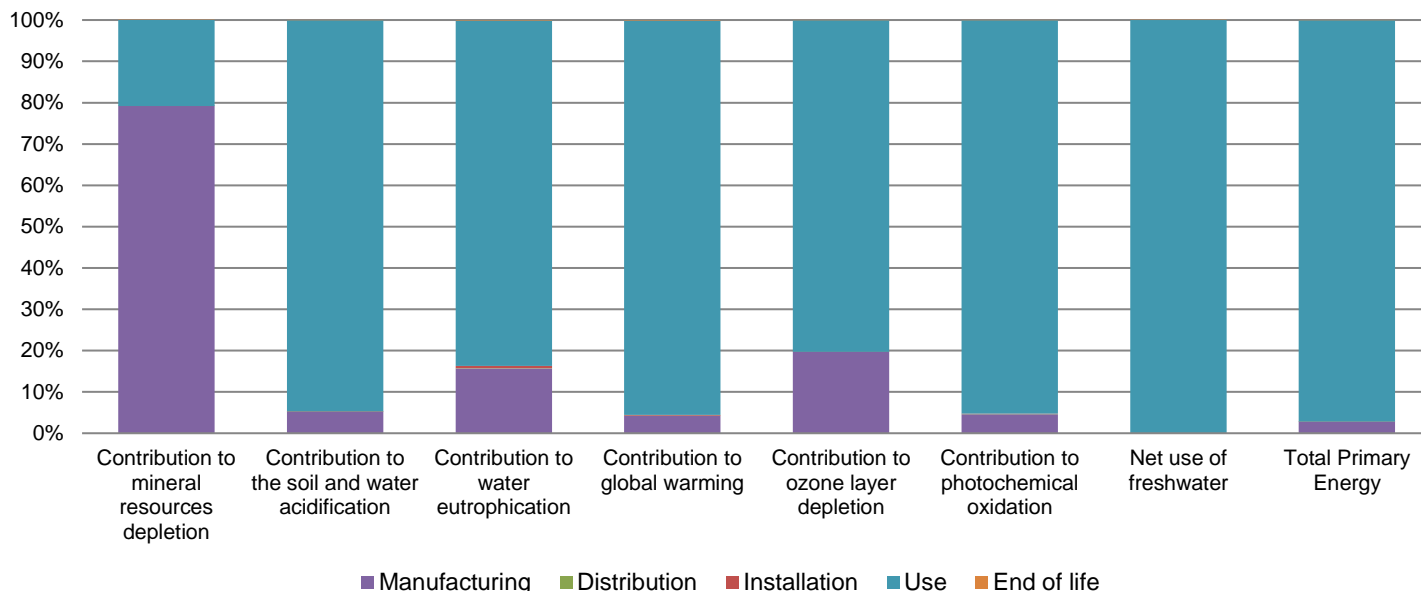
The EXW- SMARTBEAM -FR IP20-42 ACT.L/SA/3LFP presents the following relevant environmental aspects

Design	The small size of the battery and the high efficiency of the light source allows to reduce the power consumption and the number of luminaires necessary to reach the required level of illumination
Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 135,4 g, consisting of cardboard 90%, paper 10% Packaging recycled materials is 80% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	Ref. OVA48922 does not require any installation operation
Use	During the product service life, a battery of 86g should be changed 2 times to guarantee the rated discharge duration. The LED light source lasts 10 years 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: (86g), electronic card:(66g), cables (21g) 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: 58% 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 active mode 100% of the time with a power use of 3,5W, for 10 years.								
Geographical representativeness	Europe								
Technological representativeness	Maintained emergency luminaire (definition of EN60598-2-22 clause 22.3.5) luminaire in which the emergency lighting lamps are energized at all times when normal or emergency lighting is required								
Energy model used	<table border="1"> <thead> <tr> <th>Manufacturing</th> <th>Installation</th> <th>Use</th> <th>End of life</th> </tr> </thead> <tbody> <tr> <td>Energy model used: China</td> <td>Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27</td> <td>Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27</td> <td>Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27</td> </tr> </tbody> </table>	Manufacturing	Installation	Use	End of life	Energy model used: China	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
Manufacturing	Installation	Use	End of life						
Energy model used: China	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- SMARTBEAM -FR IP20-42 ACT.L/SA/3LFP - OVA48922					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7,35E-04	5,82E-04	0*	0*	1,53E-04	0*
Contribution to the soil and water acidification	kg SO ₂ eq	7,09E-01	3,75E-02	2,68E-04	0*	6,71E-01	1,79E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	6,32E-02	9,90E-03	6,17E-05	3,32E-04	5,28E-02	6,36E-05
Contribution to global warming	kg CO ₂ eq	1,63E+02	6,95E+00	5,87E-02	1,79E-01	1,55E+02	1,66E-01
Contribution to ozone layer depletion	kg CFC11 eq	2,18E-05	4,30E-06	0*	0*	1,75E-05	1,04E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3,72E-02	1,72E-03	1,91E-05	4,27E-05	3,54E-02	1,90E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	5,45E+02	6,55E-02	0*	0*	5,45E+02	0*
Total Primary Energy	MJ	3,14E+03	8,84E+01	8,30E-01	0*	3,05E+03	1,01E+00




Optional indicators		EXW- SMARTBEAM -FR IP20-42 ACT.L/SA/3LFP - OVA48922					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,82E+03	7,35E+01	8,25E-01	0*	1,74E+03	1,24E+00
Contribution to air pollution	m³	7,92E+03	7,77E+02	2,50E+00	9,28E-01	7,13E+03	8,75E+00
Contribution to water pollution	m³	7,94E+03	1,19E+03	9,65E+00	9,01E+00	6,70E+03	3,07E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,25E-01	1,25E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3,90E+02	6,73E+00	0*	0*	3,83E+02	0*
Total use of non-renewable primary energy resources	MJ	2,75E+03	8,17E+01	8,29E-01	0*	2,67E+03	1,01E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3,89E+02	5,96E+00	0*	0*	3,83E+02	0*
Use of renewable primary energy resources used as raw material	MJ	7,66E-01	7,66E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,75E+03	7,70E+01	8,29E-01	0*	2,67E+03	1,01E+00
Use of non renewable primary energy resources used as raw material	MJ	5,67E+00	4,63E+00	0*	0*	1,05E+00	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	1,03E+02	3,49E+01	0*	0*	6,76E+01	6,08E-01
Non hazardous waste disposed	kg	5,68E+02	3,13E+00	0*	1,37E-01	5,65E+02	0*
Radioactive waste disposed	kg	3,80E-01	2,27E-03	0*	0*	3,77E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2,16E-01	3,75E-02	0*	0*	0*	1,78E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2,91E-02	1,48E-04	0*	0*	0*	2,89E-02
Exported Energy	MJ	8,82E-03	0*	0*	8,82E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.7.0.2, 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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Verifier accreditation N°	VH25	Supplemented by	PSR-0007-ed1.1-EN-2015 10 16
Date of issue	04/2018	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 :2014			
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 »			
			

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