

# Product Environmental Profile

## E-LIGHT





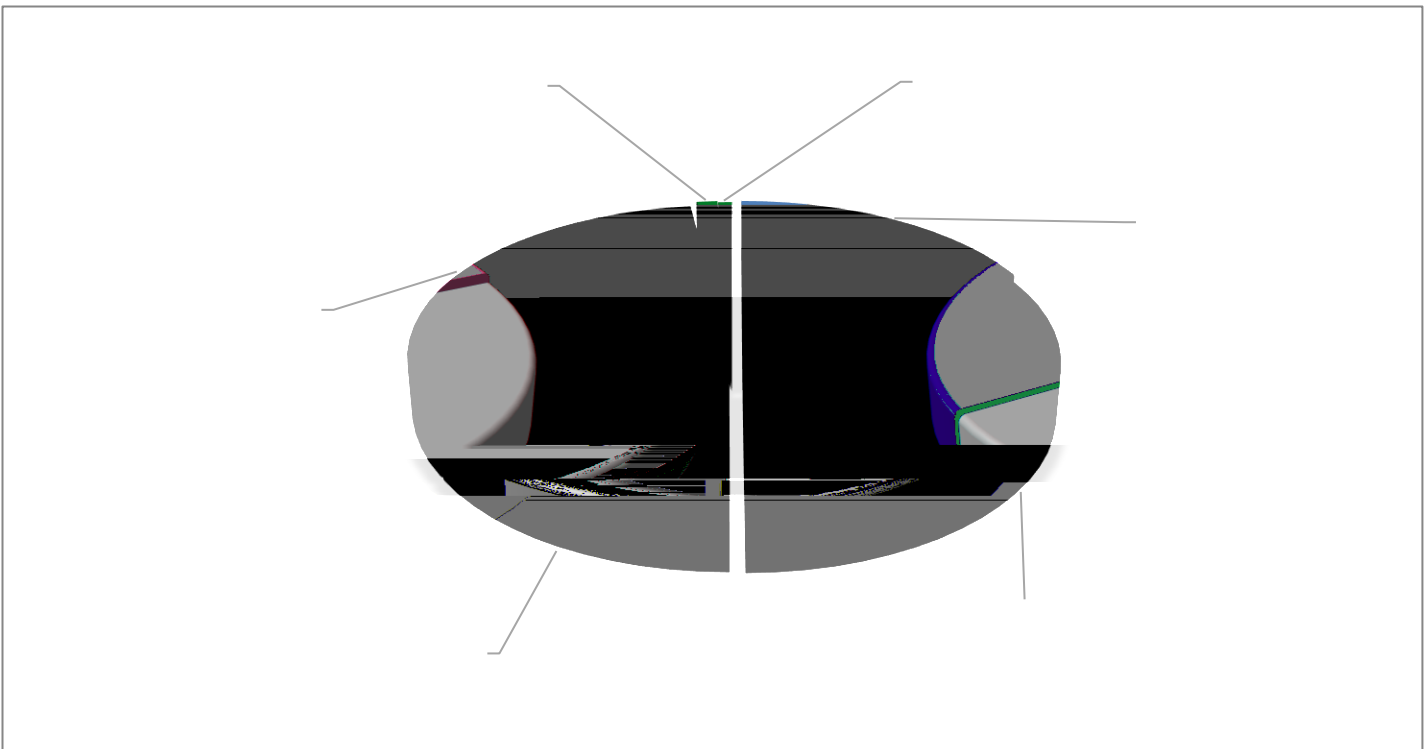
## General information

Representative product	E-LIGHT - R9ECL
Description of the product	Power outage light
Functional unit	E-LIGHT shows the network status with LED during 10 years in accordance with the relevant standards EN60598-1. A LED is ON when Network is OFF. The LED is supplied by a battery. When network is ON again, the battery is charged by the network and the LED is OFF. After charging time the product is on Stand By(LED OFF) waiting for the next network breakage.



## Constituent materials

Reference product mass	104.2 g including the product, its packaging and additional elements and accessories
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Plastics	33.6%
Metals	18.5%
Others	47.8%



## 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

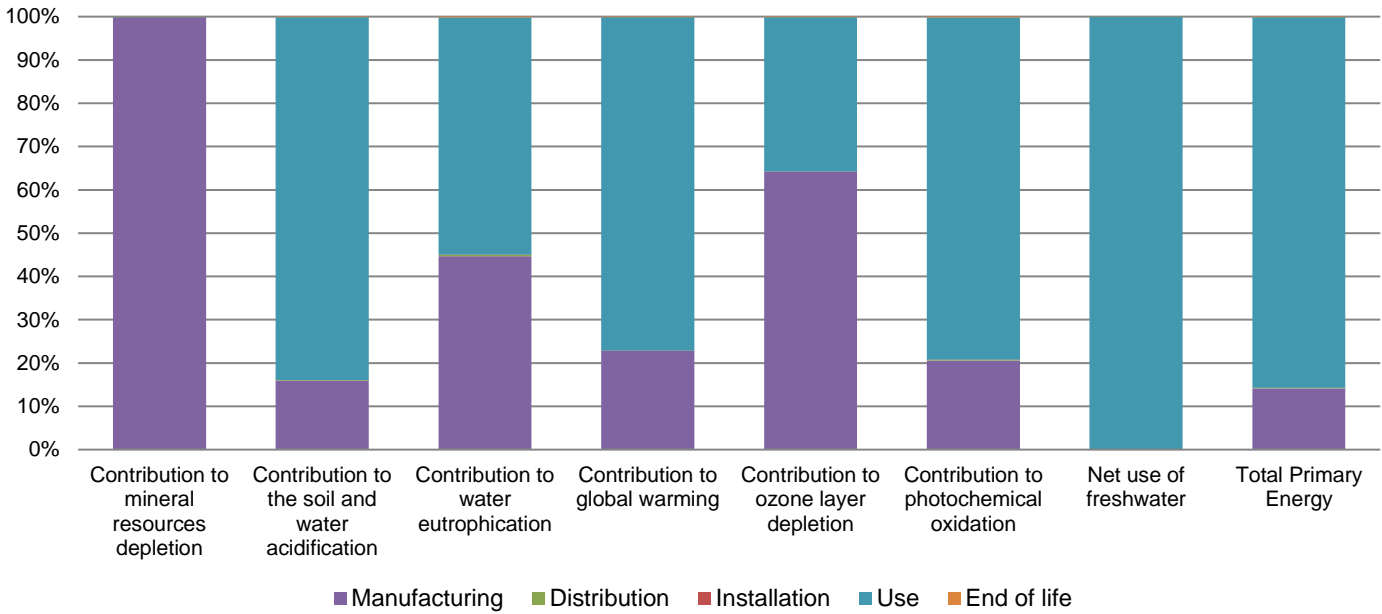
The E-LIGHT presents the following relevant environmental aspects

<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 17 g, consisting of cardboard 100%
<b>Installation</b>	Ref R9ECL does not require any installation operations. Packaging waste is considered in installation.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains electronic card (36.3g) and batteries (18.2g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>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</p> <p><a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a></p> <p>Recyclability potential: <b>71%</b> (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).</p>

## Environmental impacts

<b>Reference life time</b>	10 years			
<b>Installation elements</b>	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
<b>Use scenario</b>	The product is in active mode 0.20% of the time with a power use of 0W and in stand-by mode 99.80% of the time with a power use of 0.2W, for 10 years.			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	Power outage light			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	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		E-LIGHT - R9ECL					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.85E-04	4.84E-04	0*	0*	7.44E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	4.26E-02	6.79E-03	6.14E-05	0*	3.57E-02	3.62E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	3.94E-03	1.76E-03	1.41E-05	0*	2.16E-03	9.03E-06
Contribution to global warming	kg CO <sub>2</sub> eq	1.11E+01	2.53E+00	1.34E-02	0*	8.57E+00	1.44E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.57E-06	1.01E-06	0*	0*	5.58E-07	1.57E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	2.48E-03	5.12E-04	4.38E-06	0*	1.96E-03	4.16E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	3.11E+01	2.95E-02	0*	0*	3.11E+01	0*
Total Primary Energy	MJ	2.00E+02	2.83E+01	1.90E-01	0*	1.71E+02	2.07E-01



Optional indicators		E-LIGHT - R9ECL					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.21E+02	2.31E+01	1.89E-01	0*	9.72E+01	1.53E-01
Contribution to air pollution	m³	6.74E+02	3.02E+02	5.72E-01	0*	3.69E+02	1.83E+00
Contribution to water pollution	m³	5.64E+02	2.06E+02	2.21E+00	0*	3.53E+02	1.31E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.02E-02	2.02E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.28E+01	1.09E+00	0*	0*	2.18E+01	0*
Total use of non-renewable primary energy resources	MJ	1.77E+02	2.72E+01	1.90E-01	0*	1.49E+02	2.07E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.28E+01	1.03E+00	0*	0*	2.18E+01	0*
Use of renewable primary energy resources used as raw material	MJ	6.31E-02	6.31E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.75E+02	2.56E+01	1.90E-01	0*	1.49E+02	2.07E-01
Use of non renewable primary energy resources used as raw material	MJ	1.60E+00	1.60E+00	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	1.00E+01	9.88E+00	0*	0*	4.47E-03	1.31E-01
Non hazardous waste disposed	kg	3.32E+01	1.25E+00	0*	0*	3.19E+01	3.32E-03
Radioactive waste disposed	kg	2.22E-02	8.36E-04	0*	0*	2.13E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8.74E-02	9.48E-03	0*	1.69E-02	0*	6.10E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.64E-04	5.51E-05	0*	0*	0*	4.09E-04
Exported Energy	MJ	0.00E+00	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.0, 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.

<i>Registration number</i>	ENVPEP1811006_V1	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Date of issue</i>	01/2019	<i>Supplemented by</i>	PSR-0005-ed2-EN-2016 03 29
<i>Validity period</i>	5 years	<i>Information and reference documents</i>	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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Published by Schneider Electric

ENVPEP1811006\_V1

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01/2019