

Product Environmental Profile

Harmony monolithic pre-assembled and pre-cabled variable composition tower light signaling units



Schneider
Electric



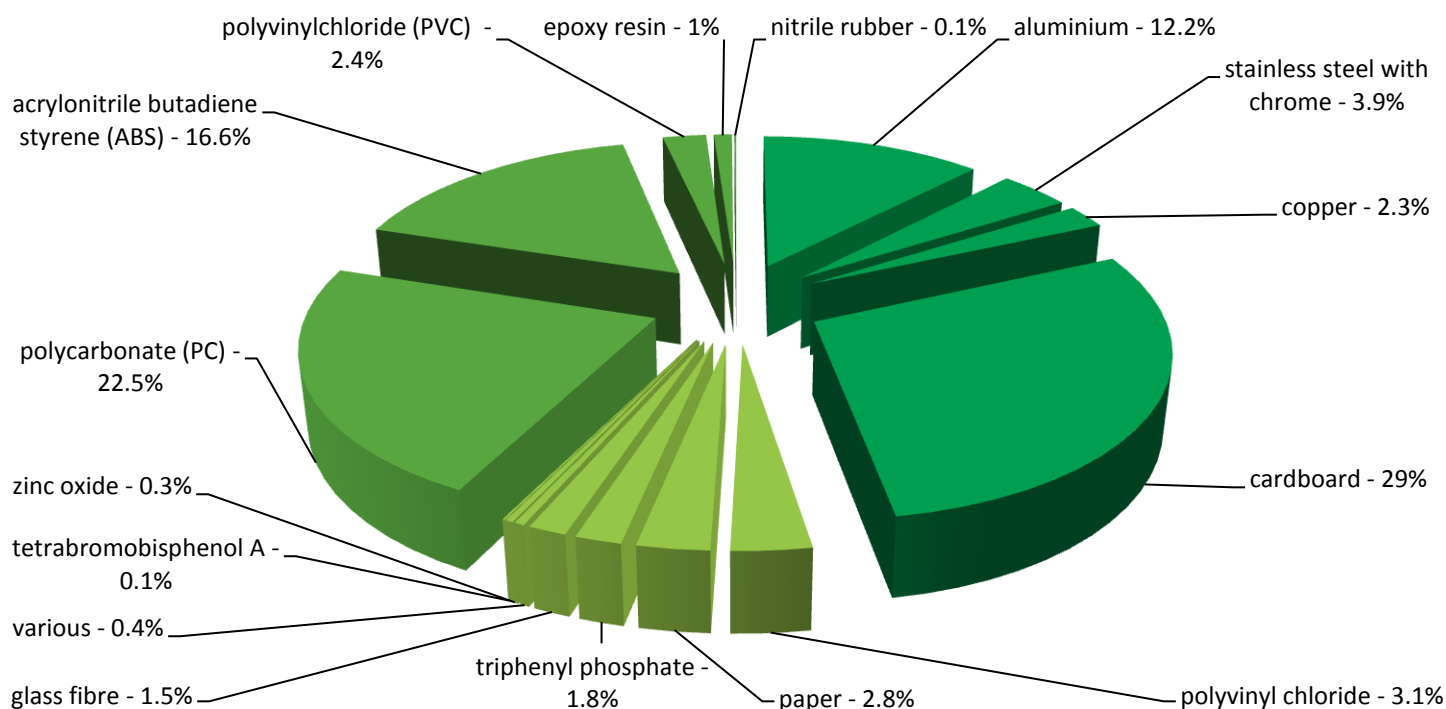
General information

Representative product	TOWER LIGHT, 4 STAGE RAGB, 24V, LED, BUZ, TUBE MNTG W. F BRCKT -XVGB4SM
Description of the product	To provide optical or audible signalling, in particular in order to indicate the different states or sequences of a machine or installation from a distance and through 360°
Description of the range	Harmony monolithic pre-assembled and pre-cabled variable composition tower light signaling units The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To transfer 24VDC voltage to audible or optical signaling during 10 years and 100% use rate.



Constituent materials

Reference product mass 658.6 g including the product, its packaging and additional elements and accessories



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 TOWER LIGHT, 4 STAGE RAGB, 24V, LED, BUZ, TUBE MNTG W. F BRCKT presents the following relevant environmental aspects

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 207.6 g, consisting of paper (8%), cardboard (92%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation operations
Use	The product does not require special maintenance operations
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 electronic card (23g), dismantling plastic and metal parts (342g) 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: 80% 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).

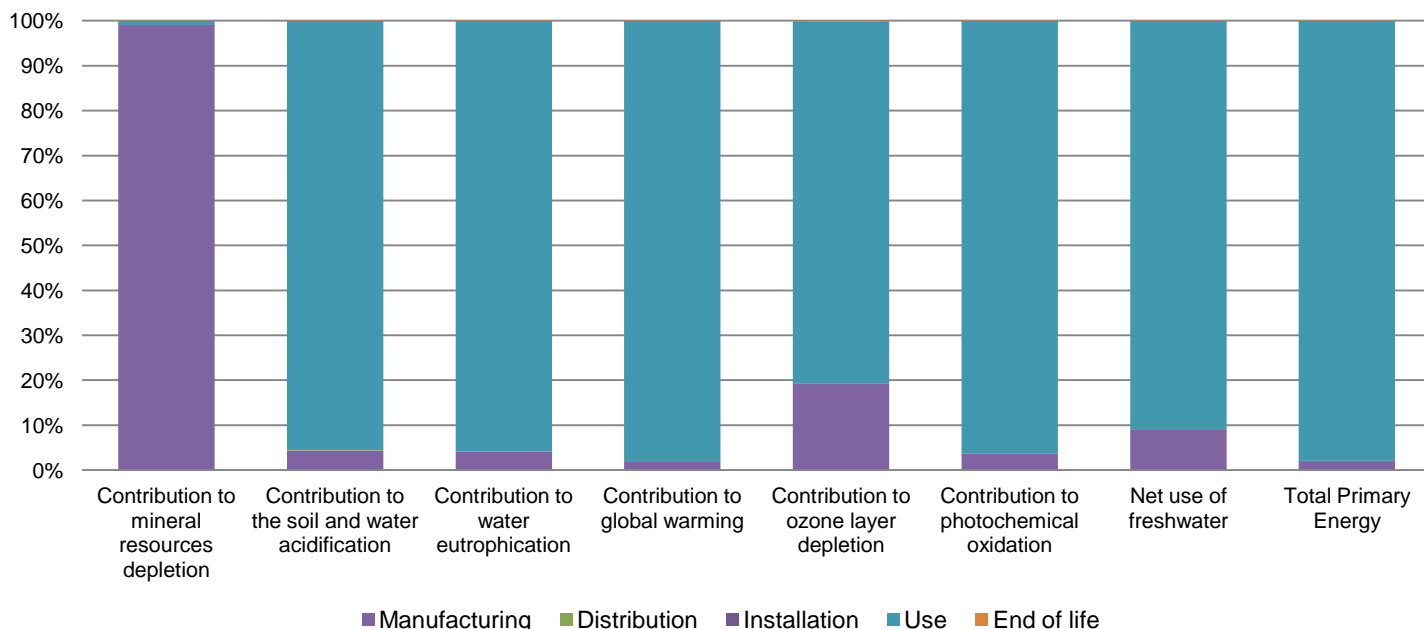


Environmental impacts

Reference life time	10 years		
Product category	Active products		
Installation elements	No special components needed		
Use scenario	Consumed power is 3.6 W 100 % of the time in active mode, 0 W 0 % of the time in standby mode, 0 W 0 % of the time in sleep mode and 0 W 0 % of the time in off mode.		
Geographical representativeness	China		
Technological representativeness	To provide optical or audible signalling, in particular in order to indicate the different states or sequences of a machine or installation from a distance and through 360°		
Energy model used	Manufacturing	Installation	Use
	Energy model used: Indonesia	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN
			End of life
			Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators		TOWER LIGHT, 4 STAGE RAGB, 24V, LED, BUZ, TUBE MNTG W. F BRCKT - XVGB4SM					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,57E-04	1,55E-04	0*	0*	1,41E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	3,64E-01	1,59E-02	3,88E-04	6,24E-05	3,48E-01	1,39E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	9,68E-02	3,97E-03	8,94E-05	1,48E-05	9,26E-02	3,92E-05
Contribution to global warming	kg CO ₂ eq	3,27E+02	6,26E+00	8,50E-02	0*	3,21E+02	7,51E-02
Contribution to ozone layer depletion	kg CFC11 eq	3,17E-06	6,07E-07	0*	1,63E-09	2,55E-06	3,85E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	4,27E-02	1,56E-03	2,77E-05	6,54E-06	4,11E-02	1,44E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	3,94E-01	3,57E-02	0*	0*	3,58E-01	6,48E-05

Total Primary Energy	MJ	5,53E+03	1,12E+02	1,20E+00	0*	5,42E+03	7,58E-01
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Optional indicators		TOWER LIGHT, 4 STAGE RAGB, 24V, LED, BUZ, TUBE MNTG W. F BRCKT - XVGB4SM					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	5,10E+03	8,28E+01	1,19E+00	0*	5,02E+03	6,25E-01
Contribution to air pollution	m³	3,40E+04	6,97E+02	3,61E+00	0*	3,33E+04	4,84E+00
Contribution to water pollution	m³	1,73E+04	1,37E+03	1,40E+01	2,35E+00	1,60E+04	6,01E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2,06E-01	2,06E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,72E+02	2,36E+00	0*	0*	2,69E+02	0*
Total use of non-renewable primary energy resources	MJ	5,26E+03	1,09E+02	1,20E+00	0*	5,15E+03	7,57E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,71E+02	1,77E+00	0*	0*	2,69E+02	0*
Use of renewable primary energy resources used as raw material	MJ	5,86E-01	5,86E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,25E+03	9,71E+01	1,20E+00	0*	5,15E+03	7,57E-01
Use of non renewable primary energy resources used as raw material	MJ	1,21E+01	1,21E+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	1,35E+01	2,17E+00	0*	4,16E-01	1,03E+01	5,60E-01
Non hazardous waste disposed	kg	6,32E+01	5,01E+00	0*	0*	5,82E+01	0*
Radioactive waste disposed	kg	4,43E-03	2,51E-03	2,15E-06	1,54E-06	1,92E-03	3,46E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4,10E-01	5,17E-02	0*	0*	0*	3,58E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,07E-02	4,19E-04	0*	5,00E-06	0*	1,03E-02
Exported Energy	MJ	1,06E-02	1,06E-02	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 v5.5, database version 2015-04.

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

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

The mineral resources depletion of the product of the family maybe proportional extrapolated by mass of product. And the other environmental indicators of the range may be proportional extrapolated by power consumption of the product.

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.

Registration N°	ENVPEP1605001_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	05/2016		
Validity period	5 years	Information and reference	www.pep-ecopassport.org
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</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 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			
<i>Environmental data in alignment with EN 15804 : 2012 + A1 : 2013</i>			

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