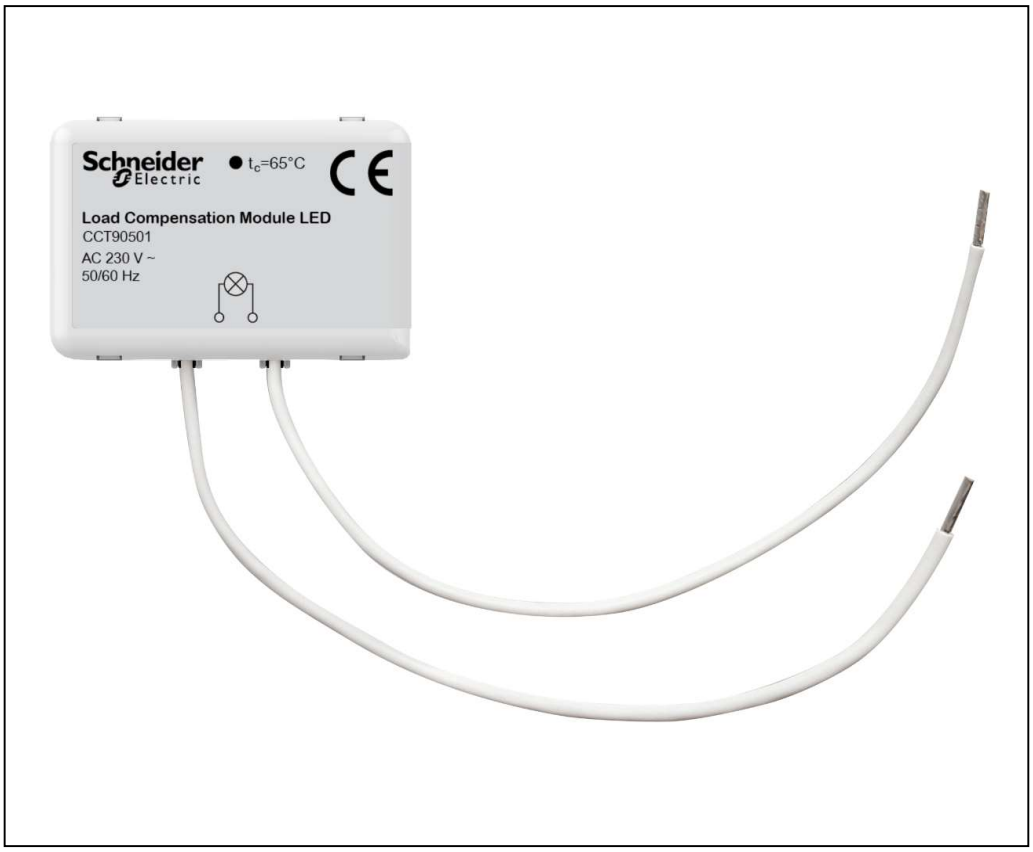
Product Environmental Profile

Load Compensation Module LED

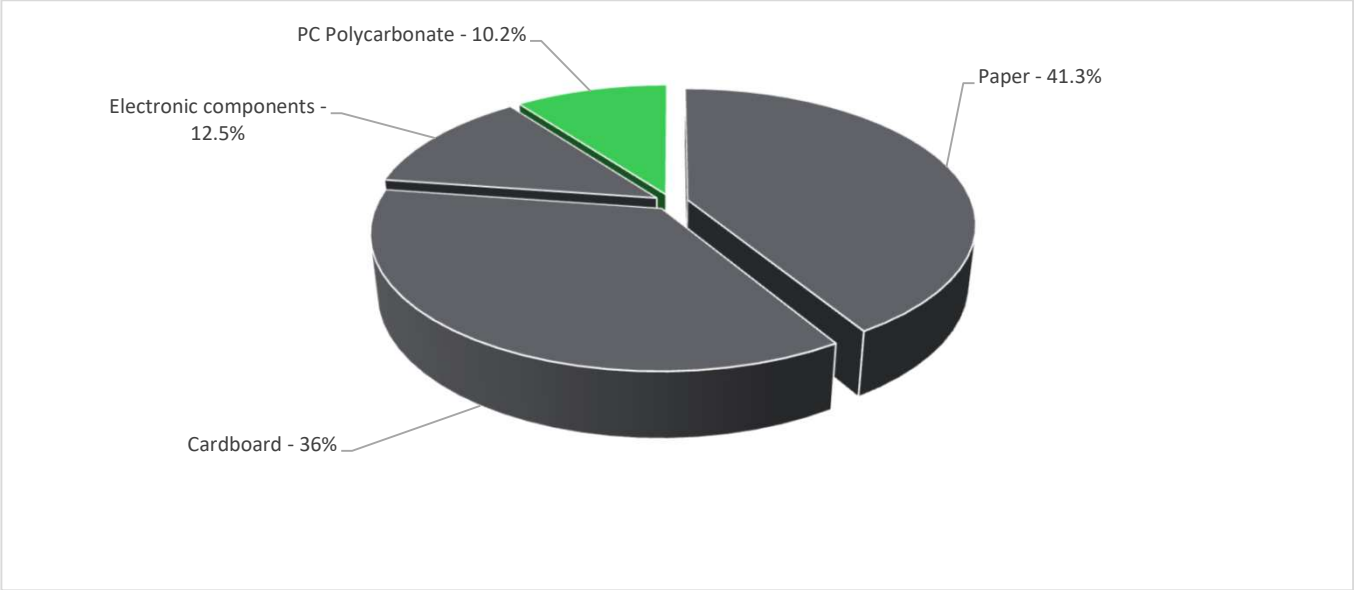


General information

Representative product	Load Compensation Module LED - CCT90501
Description of the product	The Load Compensation Module LED is used to improve the dimming behavior of LED loads/lamps in combination with dimmers in trailing edge mode.
Functional unit	This device is used to improve the dimming behavior of LED loads/lamps in combination with dimmer in trailing edge mode with Input nominal voltage 230V and frequency of 50/60 Hz for 10 years. Installation in luminaire appliance box according to DIN 49073 or sub-distribution.

Constituent materials

Reference product mass	48 g	including the product, its packaging and additional elements and accessories



	Plastics	10.2%
	Metals	0.0%
	Others	89.8%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) 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

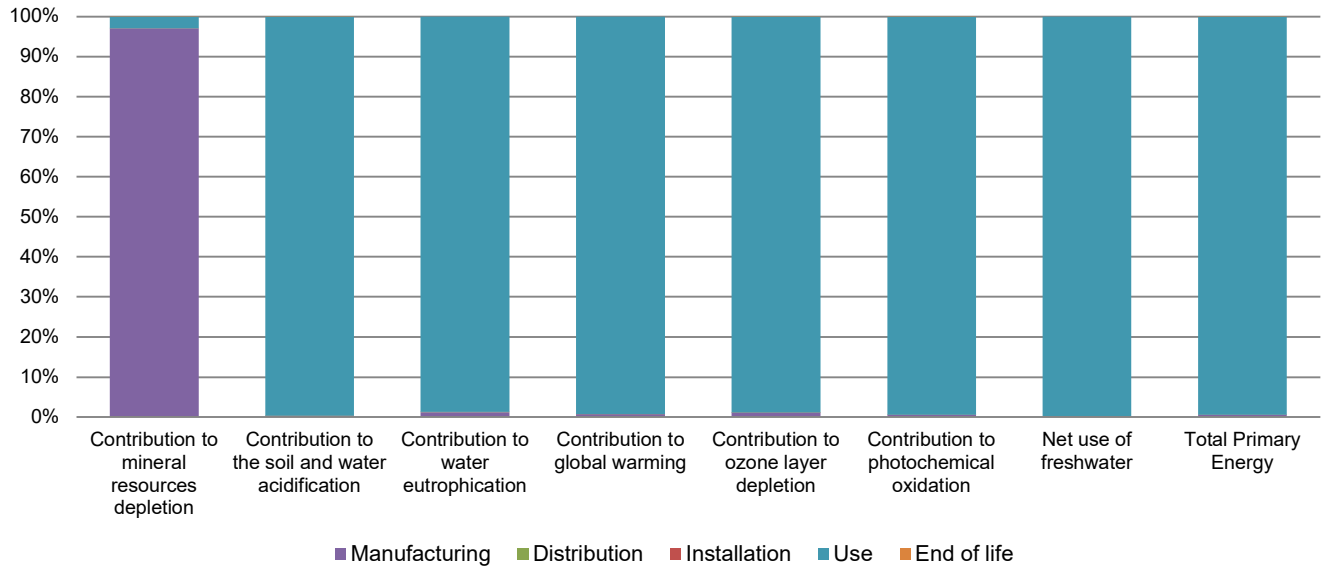
The Load Compensation Module LED presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 17.8 g, consisting of Paper(52%), Cardboard (48%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).
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 PCBA (6g) 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: **68%** 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	Other equipments - Active product			
Installation elements	End of life of the packaging materials for installation			
Use scenario	The product is in active mode 50% of the time with a power use of 1.5W and in off mode 50% of the time with a power use of o.5W for 10years			
Geographical representativeness	Nordic zone			
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Manufacturing plant: Germany	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV;

Compulsory indicators		**Load Compensation Module LED - CCT90501**					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.04E-04	1.01E-04	0*	0*	3.01E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	1.43E-01	4.88E-04	3.15E-05	0*	1.43E-01	0*
Contribution to water eutrophication	kg PO_4^{3-} eq	8.84E-03	1.07E-04	7.25E-06	9.76E-07	8.72E-03	4.55E-06
Contribution to global warming	kg CO_2 eq	3.51E+01	2.75E-01	6.91E-03	0*	3.48E+01	1.22E-02
Contribution to ozone layer depletion	kg CFC11 eq	2.25E-06	2.62E-08	0*	0*	2.22E-06	4.67E-10
Contribution to photochemical oxidation	kg C_2H_4 eq	7.91E-03	4.35E-05	2.25E-06	0*	7.87E-03	1.11E-06

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.26E+02	0*	0*	0*	1.26E+02	0*
Total Primary Energy	MJ	6.96E+02	3.69E+00	9.77E-02	0*	6.92E+02	0*



Optional indicators	Load Compensation Module LED - CCT90501						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3.97E+02	2.33E+00	9.71E-02	0*	3.94E+02	4.40E-02
Contribution to air pollution	m³	1.51E+03	2.46E+01	2.93E-01	0*	1.49E+03	3.88E-01
Contribution to water pollution	m³	1.48E+03	4.35E+01	1.14E+00	0*	1.44E+03	6.45E-01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	8.92E-04	8.92E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	8.92E+01	7.61E-01	0*	0*	8.85E+01	0*
Total use of non-renewable primary energy resources	MJ	6.07E+02	2.93E+00	9.76E-02	0*	6.04E+02	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.86E+01	6.89E-02	0*	0*	8.85E+01	0*
Use of renewable primary energy resources used as raw material	MJ	6.92E-01	6.92E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.07E+02	2.67E+00	9.76E-02	0*	6.04E+02	0*
Use of non renewable primary energy resources used as raw material	MJ	2.54E-01	2.54E-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	1.55E-01	8.89E-02	0*	0*	1.82E-02	4.74E-02
Non hazardous waste disposed	kg	1.30E+02	4.76E-02	0*	0*	1.30E+02	0*
Radioactive waste disposed	kg	8.58E-02	2.88E-05	0*	0*	8.58E-02	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.26E-02	3.90E-03	0*	1.77E-02	0*	2.10E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.87E-03	0*	0*	0*	0*	2.87E-03
Exported Energy	MJ	6.22E-05	1.12E-05	0*	5.10E-05	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.1, database version 2016-11 in compliance with ISO14044.

The Manufacturing phase is impacting on Indicator of Abiotic depletion (elements, ultimate ultimate reserves) (ADPe) and Net use of fresh water (NUFW) and the Use phase impacting on the rest of the 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.

Registration number	ENVPEP2102017_V1	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	03/2021	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »

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