

Product Environmental Profile

Exiway Smartled 230V DALI





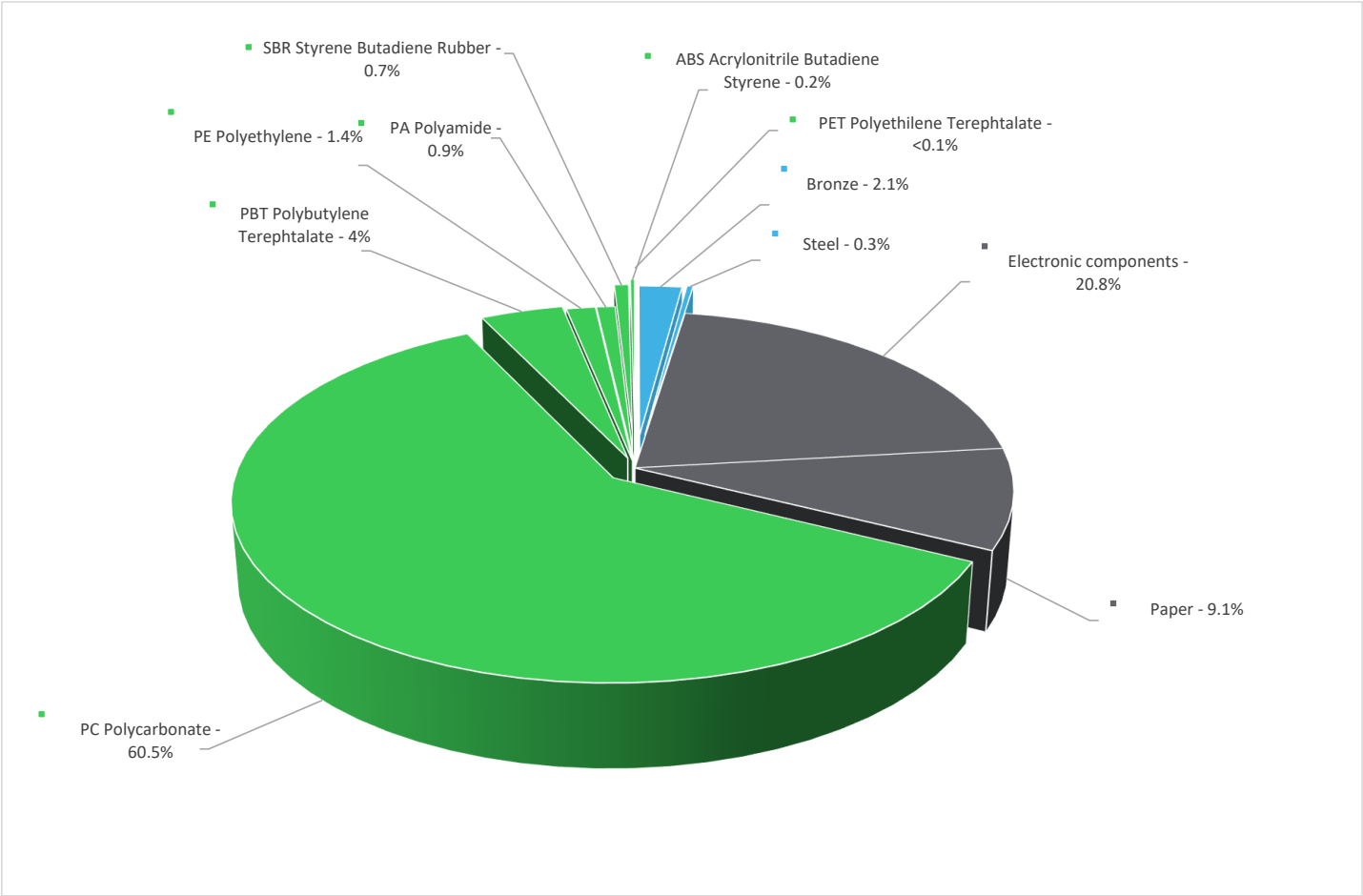
General information

Reference product	Exiway Smartled 230V DALI - OVA48802
Description of the product	DALI Emergency Luminaires for CPS system (Centralized Power supply) compliant to EN 60598-2-22. The luminaire is powered by the CPS system and energized in case of black-out
Description of the range	Single product
Functional unit	The luminaire provides up to1000 lm of Light for avoiding panic during a black-out and for giving visibility of obstacles. The duration of the light is depending on the CPS configuration. This functionality is provided for ten years.
Additional similar product references	OVA48800 OVA48801
Specifications are:	<p>The product has a consumption of 5.5 W and is designed to operate for 10 years thanks to its IP65 protection rating and IK09 shock resistance.</p> <p>The consumption of the product during its declared lifetime depends on the CPS configuration. The luminaire is normally switched off in standby mode and switched on during the power failure or during a duration test. The consumption in this condition (200 hours per year), during its declared lifetim, is 11 KW.</p>



Constituent materials

Reference product mass	720 g	including the product, its packaging, additional elements and accessories
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Plastics	67.70%
Metals	2.40%
Others	29.90%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website

<https://www.se.com>



Additional environmental information

End Of Life	Recyclability potential:	71%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	10 years		
Product category	Self-contained emergency lighting units - Open area emergency lighting - LCPS ≥ 150 lm		
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption		
Installation elements	The Product is composed by an Electronic gear and a Led head module inside plastic parts necessary for wall and ceiling installation.		
Use scenario	The luminaire is working in Non Maintained mode (stand-by mode) during 100% of his time. This function is provided for 10 years with a power consumption of 10W.		
Time representativeness	The collected data are representative of the year 2024		
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and Representative of the actual type of technologies used to make the product.		
Final assembly site	Italy		
Geographical representativeness	Europe		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; Italy, IT	Electricity Mix; Low voltage; 2020; Europe, EU-27	Electricity Mix; Low voltage; 2020; Europe, EU-27

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		Exiway Smartled 230V DALI - OVA48802						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	2.14E+02	7.86E+00	3.83E-01	7.76E-02	2.04E+02	1.87E+00	-1.28E-01
Contribution to climate change-fossil	kg CO2 eq	2.14E+02	7.89E+00	3.83E-01	7.42E-02	2.03E+02	1.87E+00	-1.27E-01
Contribution to climate change-biogenic	kg CO2 eq	3.50E-01	0*	0*	3.46E-03	3.75E-01	0*	-1.18E-03
Contribution to climate change-land use and land use change	kg CO2 eq	6.95E-04	6.95E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.71E-06	7.20E-07	5.86E-10	9.56E-10	9.88E-07	1.56E-09	-9.30E-09
Contribution to acidification	mol H+ eq	1.09E+00	4.45E-02	2.48E-03	2.18E-04	1.04E+00	1.65E-03	-4.45E-04
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	5.73E-04	3.15E-05	1.43E-07	1.70E-06	5.36E-04	3.09E-06	-7.42E-07
Contribution to eutrophication marine	kg N eq	1.35E-01	5.85E-03	1.16E-03	9.37E-05	1.27E-01	6.24E-04	-9.19E-05
Contribution to eutrophication, terrestrial	mol N eq	2.13E+00	6.43E-02	1.28E-02	6.58E-04	2.04E+00	6.94E-03	-7.68E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.27E-01	2.19E-02	3.29E-03	1.51E-04	4.00E-01	1.77E-03	-1.88E-04
Contribution to resource use, minerals and metals	kg Sb eq	3.59E-04	2.87E-04	0*	0*	7.21E-05	0*	-5.52E-05
Contribution to resource use, fossils	MJ	5.31E+03	1.48E+02	5.33E+00	7.39E-01	5.14E+03	1.21E+01	-2.38E+00
Contribution to water use	m3 eq	1.77E+01	1.91E+00	0*	6.04E-03	1.56E+01	1.67E-01	4.67E+00

Inventory flows Indicators			Exiway Smartled 230V DALI - OVA48802					
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.37E+03	5.49E+00	0*	0*	1.36E+03	0*	2.24E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	8.74E-01	8.74E-01	0*	0*	0*	0*	-1.91E-01
Contribution to total use of renewable primary energy resources	MJ	1.37E+03	6.37E+00	0*	0*	1.36E+03	0*	3.29E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.29E+03	1.29E+02	5.33E+00	7.39E-01	5.14E+03	1.21E+01	-2.37E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.96E+01	1.96E+01	0*	0*	0*	0*	-9.81E-03
Contribution to total use of non-renewable primary energy resources	MJ	5.31E+03	1.48E+02	5.33E+00	7.39E-01	5.14E+03	1.21E+01	-2.38E+00
Contribution to use of secondary material	kg	9.09E-02	9.09E-02	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	4.15E-01	4.45E-02	0*	1.41E-04	3.67E-01	3.89E-03	1.09E-01
Contribution to hazardous waste disposed	kg	1.00E+01	9.59E-01	0*	1.83E-03	8.93E+00	1.30E-01	-4.42E+00
Contribution to non hazardous waste disposed	kg	3.74E+01	2.43E+00	1.34E-02	3.36E-02	3.44E+01	5.44E-01	-1.76E-01
Contribution to radioactive waste disposed	kg	9.27E-03	1.34E-03	9.55E-06	4.02E-06	7.90E-03	2.11E-05	-7.36E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.14E-02	3.79E-03	0*	1.37E-03	0*	4.63E-02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	3.46E-03	2.05E-05	0*	2.98E-03	0*	4.58E-04	0.00E+00

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

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	2.58E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		Exiway Smartled 230V DALI - OVA48802							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2.04E+02	0*	0*	0*	0*	0*	2.04E+02	0*
Contribution to climate change-fossil	kg CO2 eq	2.03E+02	0*	0*	0*	0*	0*	2.03E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	3.75E-01	0*	0*	0*	0*	0*	3.75E-01	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	9.88E-07	0*	0*	0*	0*	0*	9.88E-07	0*
Contribution to acidification	mol H+ eq	1.04E+00	0*	0*	0*	0*	0*	1.04E+00	0*
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	5.36E-04	0*	0*	0*	0*	0*	5.36E-04	0*
Contribution to eutrophication marine	kg N eq	1.27E-01	0*	0*	0*	0*	0*	1.27E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	2.04E+00	0*	0*	0*	0*	0*	2.04E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.00E-01	0*	0*	0*	0*	0*	4.00E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	7.21E-05	0*	0*	0*	0*	0*	7.21E-05	0*
Contribution to resource use, fossils	MJ	5.14E+03	0*	0*	0*	0*	0*	5.14E+03	0*
Contribution to water use	m3 eq	1.56E+01	0*	0*	0*	0*	0*	1.56E+01	0*

Inventory flows Indicators		Exiway Smartled 230V DALI - OVA48802							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.36E+03	0*	0*	0*	0*	0*	1.36E+03	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	1.36E+03	0*	0*	0*	0*	0*	1.36E+03	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.14E+03	0*	0*	0*	0*	0*	5.14E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	5.14E+03	0*	0*	0*	0*	0*	5.14E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	3.67E-01	0*	0*	0*	0*	0*	3.67E-01	0*
Contribution to hazardous waste disposed	kg	8.93E+00	0*	0*	0*	0*	0*	8.93E+00	0*
Contribution to non hazardous waste disposed	kg	3.44E+01	0*	0*	0*	0*	0*	3.44E+01	0*
Contribution to radioactive waste disposed	kg	7.90E-03	0*	0*	0*	0*	0*	7.90E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	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 v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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 :	SCHN-01281-V01.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0007-ed2.1-EN-2023 12 08
Verifier accreditation N°	VH08	Information and reference documents	www.pep-ecopassport.org
Date of issue	10/2024	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal External X			
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			



Schneider Electric Industries SAS

Country Customer Care Center
<http://www.se.com/contact>

35, rue Joseph Monier
CS 30323
F- 92500 Rueil Malmaison Cedex
RCS Nanterre 954 503 439
Capital social 928 298 512 €