

Results Summary – E-Line FIX LED_7650FI HE LW 80_840 ET L150 01

	Material acquisition & pre-processing	Percent change since 2016	Production	Percent change since 2016	Distribution & storage	Percent change since 2016	Use	Percent change since 2016	End-of-life	Percent change since 2016
	kg CO₂-equivalents									
∅	45.057	-66%	2.683	+1%	0.551	+32%	1,440.384	+17%	1.032	+1%
D	45.057	-66%	2.683	+1%	0.084	+121%	1,902.607	-12%	1.032	+1%
F	45.057	-66%	2.683	+1%	1.485	+86%	305.378	+2%	1.032	+1%
NL	45.057	//	2.683	//	0.084	//	2,113.167	//	1.032	//



Assessed Product

The Product Carbon Footprint describes the climate impact of the E-Line FIX LED_7650FI HE LW 80_840 ET L150 01. The LED gear tray for E-Line continuous line systems produced by TRILUX GmbH & Co. KG is suitable for use in manufacturing plants, halls, warehouses, trade fair and exhibition halls, production facilities, retail floors, and workshops. The calculated average greenhouse gas emissions of the product amount to:

1,489.706 kg CO₂e

Functional Unit

The functional unit of this Product Carbon Footprint is the entire service life of a typical E-Line FIX LED_7650FI HE LW 80_840 ET L150 01 product system. For product distribution and use, the three geographical regions (D, F and NL) are distinguished.

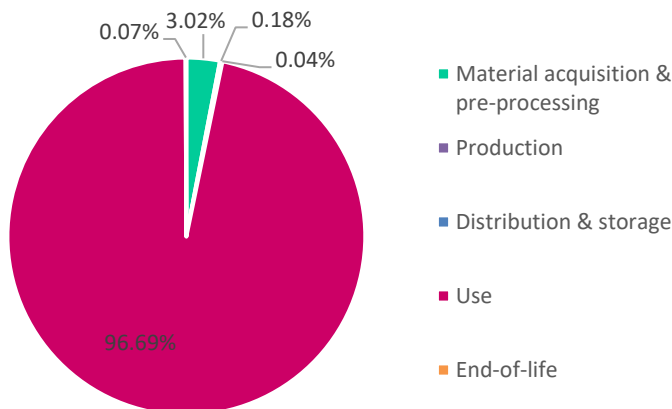
Key Figures

Total weight: 3.24 kg
Service life: min. 70,000 h
Power: 47 Watt

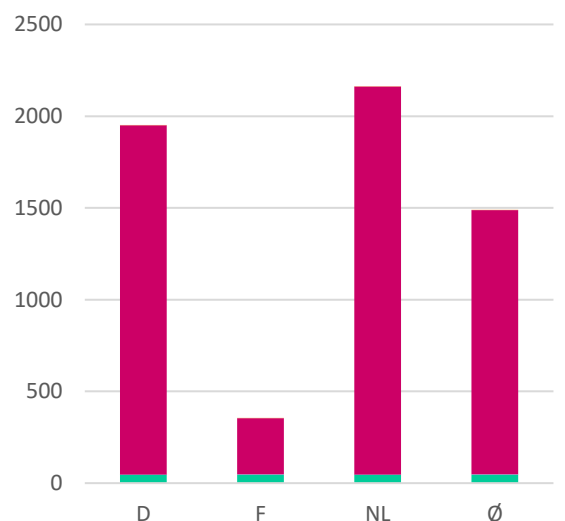
Assessment

Standard: Product Life Cycle Accounting and Reporting Standard
Conducted by: CO₂OL, Bonn
Date: 11.12.2019
Contact person: Patrick Fortyr

Average allocation of emissions



kg CO₂e



Update record

The changes made to the accounting methodology are described below. Changes in activity data since 2016, such as changes in the weight of installed parts, are not explicitly mentioned. This information is directly available to Trilux.

Emission source	Comments	Change in emission factor from 2016 [%]
Mounting profiles	Emission factor unchanged	//
Sheet steel	Emission factor unchanged	//
LED controllers	LED controllers, LED circuit boards and cables were reported as compound items in 2016. New emission factors allowed the three components to be reported separately. This has resulted in a more precise calculation. In 2016, a more conservative emission factor was used.	+17.39
LED circuit board	See above	-66.75
Cables	See above	-98.02
Luminaire optics	Emission factor unchanged	+3.46
Transport	New emission factor. The emission factor used in 2016 was not updated.	+98.85
Electricity consumption during production D	Emission factor unchanged	-3.79
Use-phase electricity consumption D	Emission factor unchanged	-9.78
Use-phase electricity consumption F	Emission factor unchanged	+3.70
Use-phase electricity consumption NL	Not covered in 2016	//
Material recycling	Emission factor unchanged	+8.72