

Results Summary – Mirona Fit TB LED26000-840 ETDD

| | 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 | | | | | | | | | |
| ∅ | 183.663 | -53% | 2.547 | -4% | 1.645 | +100% | 3,154.264 | -8% | 2.293 | +9% |
| D | 183.663 | -53% | 2.547 | -4% | 0.088 | +121% | 5,436.020 | -10% | 2.293 | +9% |
| F | 183.663 | -53% | 2.547 | -4% | 3.201 | +100% | 872.508 | +4% | 2.293 | +9% |



Assessed Product

The Product Carbon Footprint describes the climate impact of the Mirona Fit TB LED26000-840 ETDD. The LED high bay luminaire produced by TRILUX GmbH & Co. KG is suitable for high-ceiling rooms, halls, warehouses, production facilities, trade fair and exhibition halls, heavy industry, damp locations, and covered outdoor areas. The calculated average greenhouse gas emissions of the product amount to:

3,344.412 kg CO₂e

Functional Unit

The functional unit of this Product Carbon Footprint is the entire service life of a typical Mirona Fit TB LED26000-840 ETDD product system. For product distribution and use, the three geographical regions (D & F) are distinguished.

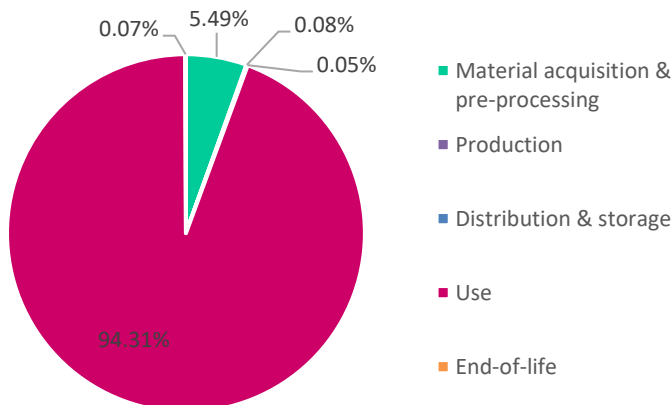
Key Figures

Total weight: 7.2 kg
Service life: min. 50,000 h
Power: 188 Watt

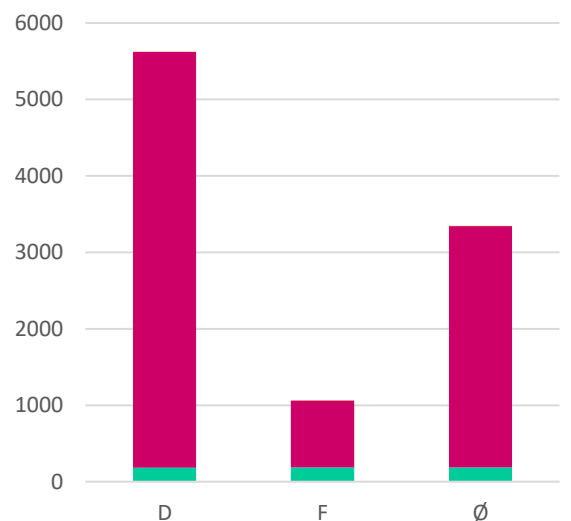
Assessment

Standard: Product Life Cycle Accounting and Reporting Standard
Conducted by: CO₂OL, Bonn
Date: 05.02.2020
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 [%] |
|--|---|---|
| Aluminium body / steel | Emission factor unchanged | // |
| Aluminium body / aluminium | New emission factor. The emission factor used in 2016 was not updated. | +16.22 |
| Luminaire optics | New emission factor. Represents raw material more accurately. | +23.28 |
| Control gear box | Control gear box, 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 |
| Transport by truck | New emission factor. The emission factor used in 2016 was not updated. | +98.85 |
| Transport by boat | Emission factor unchanged | -12.43 |
| 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 |
| Material recycling | Emission factor unchanged | +8.72 |