

TM65 Calculation

Luminaire: **4532000010-930-2A**
 LEDStar Ultimate Midi CREE CXB Spot Fixed cab 93+CRI 3000K
 CIBSE TM65 Embodied Carbon 'Basic' Calculation

Date: 10.12.24
 Assessor / Organisation: F Mark Ltd
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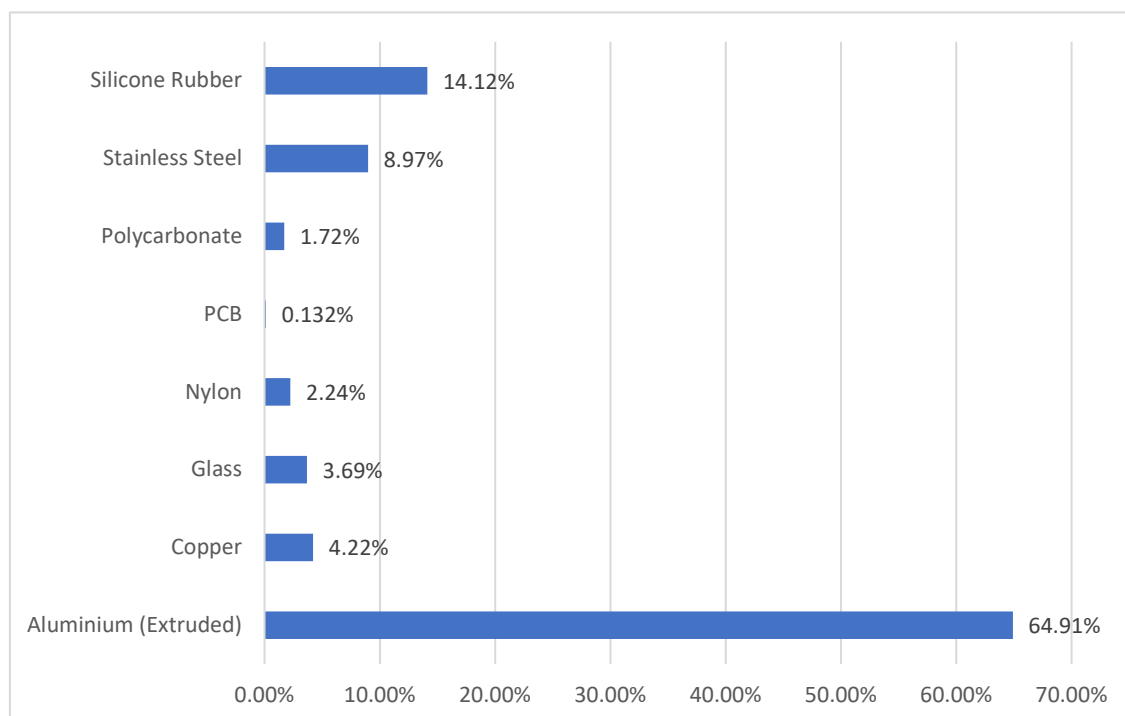


Embodied Carbon Results with 'Basic' TM65 Calculation Method Total **Over 25 Year Product Life**

10.93 kg CO ₂ e	
First Build 10.65	Repair 0.27

Product information

Type of product: Luminaire
 Capacity of equipment: 0.0174 kW
 Product weight: 0.76 kg
 Material breakdown at least 95% of product weight Yes
 B3: Materials replaced as part of repair/maintenance 0.15 kg CO₂e
 Location of Manufacture: London
 United Kingdom



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Embodied Carbon Results Breakdown (kg CO2e)			
A1: Material Extraction	Calculated in TM65	6.03	kg CO2e
B3: Repair	Calculated in TM65	0.15	kg CO2e
A2: Transport	Scale Up Factor applied (Category 2, Table 4.3. TM65)	2.47	kg CO2e
A3: Manufacturing			kg CO2e
A4: Transport to Site			kg CO2e
C2: Transport			kg CO2e
C3: Waste Processing			kg CO2e
C4: Disposal			kg CO2e

Embodied Carbon Results		
A1-C4	8.65	kg CO2e
A1-C4 with Buffer Factor	11.24	kg CO2e

Assumptions	
A1: Material Carbon Coefficient Source	M65, Table 2.1 + ICE v2.

Notes:

This report was generated using the CIBSE TM65 Manufacturers form 'Beta' version, released in June 2021

F Mark Ltd is a UK based design consultancy

Files are generated for the 'standard' version of the fitting and do not allow for any recharge time associated with battery discharge

Repair embodied carbon allows for one driver to be replaced during regular service life in line with manufacturers recommendations

For more information, please contact Lght Projects on 020 7231 8282

Verified by:



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