# STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

# TM65.2 Lighting Calculation

Exterior LED channel

# CIBSE TM65.2 Embodied Carbon Mid-level Calculation

Date:	11/10/2023
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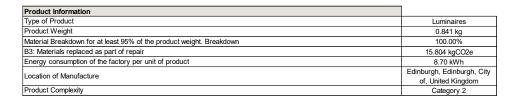
Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total

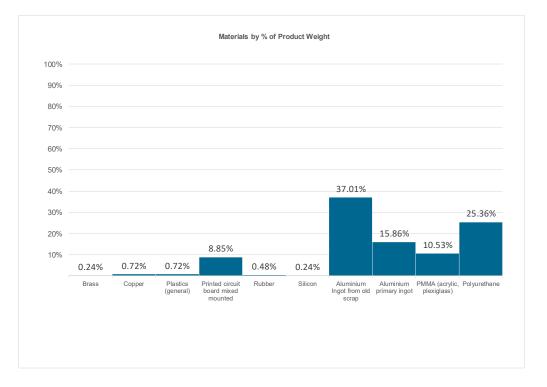
45.65 kg CO2e

Through Life (25 year) Embodied Carbon (kgCO $_2$ e)



25 year product life





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# TM65.2 Lighting Calculation: Luminaire

# Exterior LED channel

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material Extraction	15.132
A2: Transport	0.333
A3: Manufacturing	4.962
A4: Transport to Site	0.033
B3: Repair	12.157
C2: Transport	0.011
C3: Waste Processing	2.481
C4: Disposal	0.004

Embodied Carbon Results (kg CO <sub>2</sub> e)	
A1-C4	35.11
A1-C4 with Buffer Factor	45.65

Assumptions	
A1: Material carbon coefficient source	TM65, Table 2.1; TM65.2 Table 9
C4 Percentage of product going to landfill(%)	55% - TM65 Table 4.14

This report was generated using the CIBSE TM65 Manufacturers form 'beta' version V1.3. Released in August 2023 Stoane Lighting are a UK based company.

Files are generated for a 'standard' version of the fitting and may not include calculations for accessories or derivatives.

Only if LED drivers or Power supplies are integral will they be included in the calculation.

Repair embodied carbon is calcualted based on light source and control gear replacement once in the 25 year product life For more inoformation please contact us via our website shown below.



This report was produced using the CIBSE documents; TM65 Embodied Carbon of MEP Products - June 2021 TM65.2 Lighting - August 2023

www.stoanelighting.com