# STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

### TM65.2 Lighting Calculation

#### ZTA.35 Surface

### CIBSE TM65.2 Embodied Carbon Mid-level Calculation

Date:	19/12/2024
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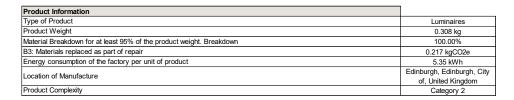
Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total

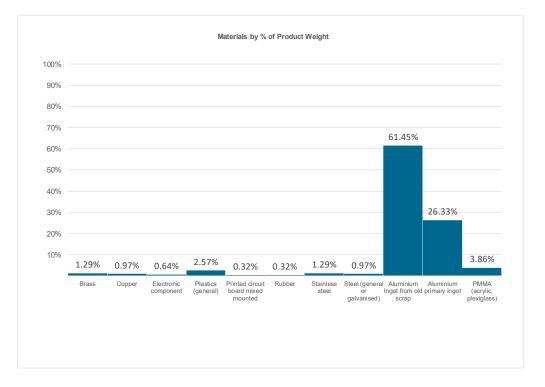
8.37 kg CO2e

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



25 year product life





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### TM65.2 Lighting Calculation: Luminaire

#### ZTA.35 Surface

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO₂e)	
A1: Material Extraction	1.851
A2: Transport	0.122
A3: Manufacturing	2.854
A4: Transport to Site	0.012
B3: Repair	0.167
C2: Transport	0.004
C3: Waste Processing	1.427
C4: Disposal	0.002

Embodied Carbon Results (kg CO <sub>2</sub> e)	
A1-C4	6.44
A1-C4 with Buffer Factor	8.37

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

Regional variations of the TM65 methodology are being developed; please contact us if there is a requirement for a speific regional assessment where such a local addendum exists. 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