

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation

ZTA.70 Mains Track

CIBSE TM65.2 Embodied Carbon Mid-level Calculation

Date:	24/07/2025
Assessor/Organisation:	Stoane Lighting
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Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total

44.47 kg CO₂e

Through Life (25 year) Embodied Carbon (kgCO₂e)

First Build
31.70

Repair
12.77

Stoane Lighting only foresees a scheduled repair stage for electronic components in the driver, as the lifetime of the light source is equal to or exceeds the expected lifetime of the product.

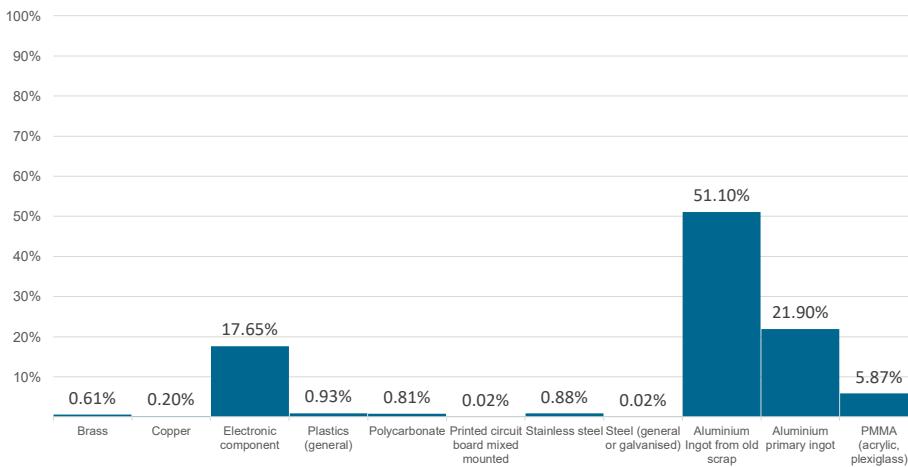
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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25 year product life

Product Information

Type of Product	Luminaires
Product Weight	0.889 kg
Material Breakdown for at least 95% of the product weight. Breakdown	100.00%
B3: Materials replaced as part of repair	12.771 kgCO ₂ e
Energy consumption of the factory per unit of product	15.47 kWh
Location of Manufacture	Edinburgh, Edinburgh, City of, United Kingdom
Product Complexity	Category 2

Materials by % of Product Weight



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Embodied Carbon Results Breakdown (kg CO₂e)

A1: Material Extraction	11.607
A2: Transport	0.352
A3: Manufacturing	8.248
A4: Transport to Site	0.035
B3: Repair	9.823
C2: Transport	0.012
C3: Waste Processing	4.124
C4: Disposal	0.004

Embodied Carbon Results (kg CO₂e)

A1-C4	34.21
A1-C4 with Buffer Factor	44.47

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 calculated 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 specific regional assessment where such a local addendum exists.

For more information 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