STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation

LED GOAL

CIBSE TM65.2 Embodied Carbon Mid-level Calculation

Date:	18/12/2024	
Assessor/Organisation:	Stoane Lighting	
Contact:	sales@mikestoanelighting.com	

Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total

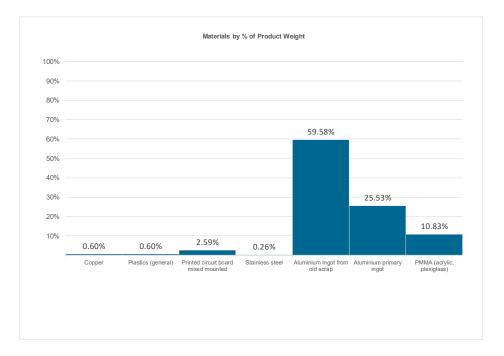
36.16 kg CO2e

Through Life (25 year) Embodied Carbon (kgCO₂e)



25 year product life

Product Information	
Type of Product	Luminaires
Product Weight	0.999 kg
Material Breakdown for at least 95% of the product weight. Breakdown	100.00%
B3: Materials replaced as part of repair	5.669 kgCO2e
Energy consumption of the factory per unit of product	17.38 kWh
Location of Manufacture	Edinburgh, Edinburgh, City of, United Kingdom
Product Complexity	Category 2



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TM65.2 Lighting Calculation: Luminaire

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Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	9.100
A2: Transport	0.396
A3: Manufacturing	9.267
A4: Transport to Site	0.040
B3: Repair	4.361
C2: Transport	0.013
C3: Waste Processing	4.634
C4: Disposal	0.005

Embodied Carbon Results (kg CO ₂ e)	
A1-C4	27.81
A1-C4 with Buffer Factor	36.16

Assumptions	1
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 Into report Was generated using the CIBSE Intro manufacturers form used version viso. Nepassed in August 2225 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 speific 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