

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65 Calculation : Luminaire

OPAL TYPE X_XTM

CIBSE TM65 Embodied Carbon Mid-level Calculation

Date:	26/09/2022
Assessor/ Organisation:	Stoane lighting
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Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total

43.68 kg CO₂e

Through Life (25 year) Embodied Carbon (kgCO₂e)

First Build
40.96

Repair
2.72

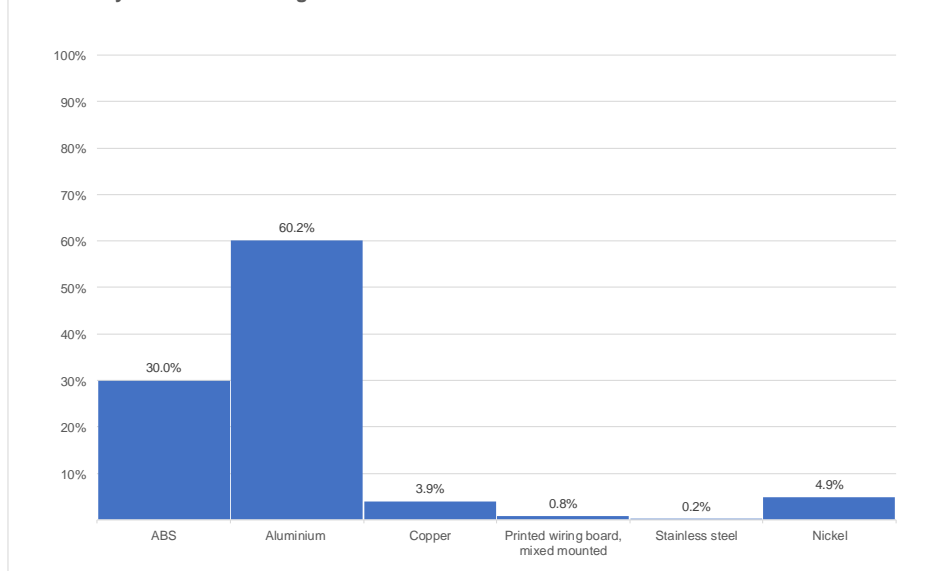
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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25 year product life

Product Information

Type of Product	Luminaires
Capacity of Equipment	0.0015 kW
Product Weight	1.61
Material Breakdown for at least 95% of the product weight (Y/N)	Y
B3: Materials replaced as part of repair	2.09 kgCO ₂ e
Energy consumption of the factory per unit of product	15.57 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	17.6840
A2: Transport	0.6360
A3: Manufacturing	8.5620
A4: Transport to Site	0.3180
B3: Repair	2.0892
C2: Transport	0.0212
C3: Waste Processing	4.2810
C4: Disposal	0.0079

Embodied Carbon Results (kg CO₂e)

A1-C4	33.60
A1-C4 with Buffer Factor	43.68

Assumptions

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

This report was generated using the CIBSE TM65 Manufacturers form 'beta' version. Released in June 2021.
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

For more information please contact us via our website shown below.



This report was produced using the CIBSE Tool
Embodied Carbon of MEP Products - June 2021

www.stoanelighting.com