STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65 Calculation : Luminaire

STX2.70_XTM

CIBSE TM65 Embodied Carbon Mid-level Calculation

Date:	10/03/2022
Assessor/ Organisation:	Stoane lighting
Contact:	sales@mikestoanelighting.com

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

15.02 kg CO2e

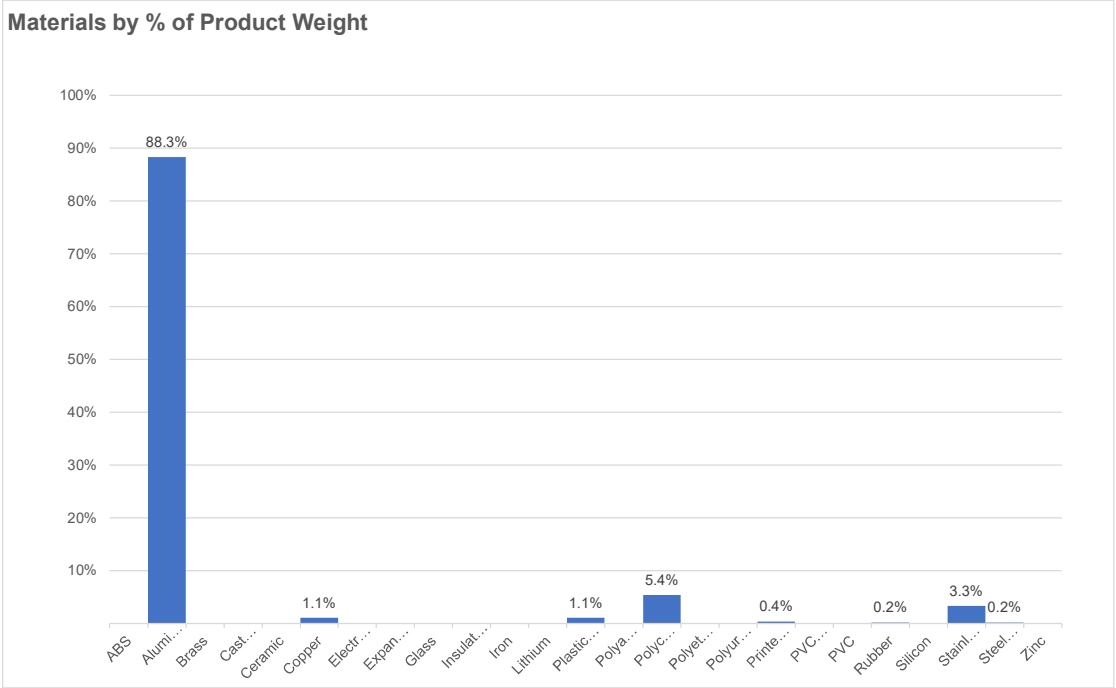
Through Life (25 year) Embodied Carbon ($kgCO_2e$)

First Build 14.58											Repair 0.44												
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

25 year product life

Product Information	
Type of Product	Luminaires
Capacity of Equipment	0.0199 kW
Product Weight	0.52
Material Breakdown for at least 95% of the product weight (Y/N)	Y
B3: Materials replaced as part of repair	0.34 kgCO2e
Energy consumption of the factory per unit of product	5.07 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 CO_2e)	
A1: Material Extraction	6.7101
A2: Transport	0.2071
A3: Manufacturing	2.7883
A4: Transport to Site	0.1036
B3: Repair	0.3402
C2: Transport	0.0069
C3: Waste Processing	1.3941
C4: Disposal	0.0026

Embodied Carbon Results (kg CO_2e)	
A1-C4	11.55
A1-C4 with Buffer Factor	15.02

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 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.

CIBSE

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