CIBSE TM65.2 Embodied Carbon Mid-level Calculation Date: 19/12/2024 Strong Lighting		
Assessor/Organisation: Stoane Lighting		
Contact: sales@mikestoanelighting.com		
Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total		
18.86 kg CO2e]	
Through Life (25 year) Embodied Carbon (kgCO ₂ e)		
First Build Repair 18.64 0.22		
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	5
25 year product life		_
20 year product me		
Product Information Type of Product	Luminaires	
Product Weight Material Breakdown for at least 95% of the product weight. Breakdown	0.720 kg 100.00%	
B3: Materials replaced as part of repair	0.219 kgCO2e	
Energy consumption of the factory per unit of product Location of Manufacture	12.53 kWh Edinburgh, Edinburgh,	City
Product Complexity	of, United Kingdom Category 2	<u> </u>
100%		
90%		
80%		
70%	50 720/	
60%	58.73%	
50%		
40%		
30%	25	5.17%
20% 8.75%		
10% 2.71% 0.35% 2.71% 0.14% 0.97% 0.49%	6	
component (general) board mixed	teel Aluminium Ingot Alu from old scrap prim	iminium lary ingot
mounted		

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

ZTA.70 Bay

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	3.992
A2: Transport	0.285
A3: Manufacturing	6.682
A4: Transport to Site	0.029
B3: Repair	0.169
C2: Transport	0.010
C3: Waste Processing	3.341
C4: Disposal	0.004
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	14.51
A1-C4 with Buffer Factor	18.86
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