TM65.2 Lighting Calculation CIBSE TM65.2 Embodied Carbon Mid-level Calculation Date: 17/12/2024 Assessor/Organisation: Stoane Lighting Contact: Stoane Lighting com Introduct Carbon Results with 'Mid-Level TM65 Calculation' Method Total Introduct Carbon Results with 'Mid-Level TM65 Calculation' Method Total Introduct Carbon Results with 'Mid-Level TM65 Calculation' Method Total Introduct Life (25 year) Embodied Carbon (kgCO ₂ e) First Build Repair 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 Z5 year product life Product Information Introduct Information Introduct Information Introduct Information In	4
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80%	
70%	
60% 57.57%	
50%	
40%	
30% 24.67%	57.57%
30% 24.67% 20% 20%	57.57%
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20%	57.57%
20% 10% 8.66% 3.60% 4.10%	57.57% 24.67% 0.33% 1.07% 4.10% Printed circuit board Rubber Stainless steel Aluminium Ingot from Aluminium primary

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Amanita spike

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	3.057
A2: Transport	0.215
A3: Manufacturing	5.027
A4: Transport to Site	0.021
B3: Repair	0.303
C2: Transport	0.007
C3: Waste Processing	2.513
C4: Disposal	0.003
Embodied Carbon Results (kg CO2e)	
A1-C4	11.15
A1-C4 with Buffer Factor	14.49
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 This report Was generated to all K based company. 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 spelfic 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

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