TM65.2 Lightin	ng Calculation
Tadpole V4 Sp	pike
CIBSE TM65.2	2 Embodied Carbon Mid-level Calculation
Date: Assessor/Orgar	anisation: Stoane Lighting
Contact:	sales@mikestoanelighting.com
Embodied Carb	bon Results with 'Mid-Level TM65 Calculation' Method Total
	3.73 kg CO2e
Through Life (2	25 year) Embodied Carbon (kgCO ₂ e)
	First Build Repair
	3.61 0.13
1 2 3	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 produc	ct life
Product Inform Type of Produc	
Product Weight	nt 0.190 kg down for at least 95% of the product weight. Breakdown 100.00%
B3: Materials re	eplaced as part of repair 0.127 kgCO2e
	mption of the factory per unit of product 1.97 kWh Edinburgh, City
Location of Mar Product Comple	of, United Kingdom
r roudot compic	Category 2
100%	Materials by % of Product Weight
90%	
80%	
70%	
60%	
50%	44.32%
40%	
30%	32.79%
20%	14.05%
10%	14.03%
1070	0.63% 1.58% 2.58% 1.58% 1.37% 0.32% 0.58% 0.16% 0.05%
	0.63% 1.58% 2.58% 1.58% 1.37% 0.32% 0.58% 0.16% 0.05% 14.05% 8/8% control c

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Tadpole V4 Spike

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	1.006
A2: Transport	0.075
A3: Manufacturing	1.121
A4: Transport to Site	0.008
B3: Repair	0.098
C2: Transport	0.003
C3: Waste Processing	0.560
C4: Disposal	0.001
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	2.87
A1-C4 with Buffer Factor	3.73
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

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