Fixed Tadpole		
CIBSE TM65.2 Em	abodied Carbon Mid-level Calculation	
Date:	11/10/2023	
Assessor/Organisa Contact:	tion: Stoane Lighting sales@mikestoanelighting.com	
Embodied Carbon	Results with 'Mid-Level TM65 Calculation' Method Total 2.96 kg CO2e	
Through Life (25 ve	ear) Embodied Carbon (kgCO ₂ e)	
5 (17)	First Build Repair	
	2.75 0.21	
1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16 1	7 18 19 20 21 22 23 24 25
25 year product life	9	
Product Informati Type of Product	on	Luminaires
Product Weight Material Breakdow	n for at least 95% of the product weight. Breakdown	0.136 kg 100.00%
	ced as part of repair on of the factory per unit of product	0.212 kgCO2e 1.41 kWh
Location of Manufa		Edinburgh, Edinburgh, City
Product Complexity		of, United Kingdom Category 2
	Materials by % of Product Weig	ht
100%		
90%		
80%		
70%		
60%		57.65%
50%		
40% —		
30% —		24.71%
20%		
10% —	0.74% 2.21% <u>3.68%</u> 2.21% 2.21% 0.74% 2.21%	2.21% 0.74% 0.74%
	and the contract cases and	
<	0.74% 2.21% 3.68% 2.21% 2.21% 0.74% 2.21% 0.84\% 0.84\%	2.21% 0.74% 0.74%
	ointed	<i>b</i> 2,
	ΎΥ,	
	×	

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Fixed Tadpole

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	0.852
A2: Transport	0.054
A3: Manufacturing	0.802
A4: Transport to Site	0.005
B3: Repair	0.163
C2: Transport	0.002
C3: Waste Processing	0.401
C4: Disposal	0.001
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	2.28
A1-C4 with Buffer Factor	2.96
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