Mole Type X									
CIBSE TM65.2	Embodied Car	rbon Mid-level C	alculation						
Date: Assessor/Orgar	nisation:		11/10/2023 oane Lighting]				
Contact:			kestoanelightin	<u>g.com</u>					
Embodied Carb	on Results with	'Mid-Level TM65	Calculation' M	ethod Total					
					33.80 kg CO	2e			
Through Life (2	5 year) Embodi	ied Carbon (kgC	O ₂ e)						
	First Bui	ld							
	32.53				1.27				1 05
1 2 3	4 5	6 7 8	9 10	11 12 13	14 15 16	17 18	19 20 21	22 23 24	4 25
25 year produc	life								
Product Inform	nation								
Type of Product Product Product Weight								Luminair 1.740 k	
Material Breakdown for at least 95% of the product weight. Breakdown								100.00%	6
B3: Materials replaced as part of repair Energy consumption of the factory per unit of product								1.274 kgC 18.01 kV	/h
Location of Manufacture							E	dinburgh, Edinb of, United Kir	
Product Comple	xity							Category	
100%									
90%									
80%									
70%									
60%									
50%	41.12%								
40%					32.93%				
30%								17 (20)	
20%								17.62%	
10%	1.52%	4.54%	0.66%	0.35%		0.17%			1.09%
	Copper	Glass	Plastics (general)	Printed circuit board mixed mounted	PVC pipe	Stainless steel	Aluminium Ingot from old scrap	Aluminium primary ingot	Nickel

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Mole Type X

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	8.834
A2: Transport	0.689
A3: Manufacturing	10.266
A4: Transport to Site	0.069
B3: Repair	0.980
C2: Transport	0.023
C3: Waste Processing	5.133
C4: Disposal	0.009
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	26.00
A1-C4 with Buffer Factor	33.80
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