CIBSE TM65.2	Embodied Cart	oon Mid-level C	alculation						
Date: Assessor/Organ	isation:		11/10/2023 oane Lighting]				
Contact:			kestoanelightin	<u>g.com</u>]				
Embodied Carb	on Results with "	Mid-Level TM65	Calculation' M	ethod Total					
					4.28 kg CC	2e			
Through Life (25	ō year) Embodie	ad Carbon (kgC€	O ₂ e)						
First Build Repair									
	4.06				0.21				
1 2 3	4 5	6 7 8	9 10 1	1 12 13	14 15 10	6 17 18	19 20 21	22 23 24	4 25
25 year product	life								
Product Inform	ation								
Type of Product Product Weight	1							Luminaire 0.206 kg	
Material Breakd	terial Breakdown for at least 95% of the product weight. Breakdown 100.00%							b	
Energy consum			roduct					0.212 kgC0 2.13 kW	h
Location of Manufacture Edinburgh, Edinburgh, City of, United Kingdom								gdom	
Product Comple								Category	
100%									
90%									
80%									
70%									
60%								60.15%	
50%								-	
								-	
40%									25.78%
40% 30%									
						2.91%			
30%	3.64%	2 / 3%	3.64%				0.49%		Aluminium
30% 20%	3.64%	2.43%		0.49%	0.49%		Steel (general	or Aluminium Ingot	
30% 20%	3.64% Copper	2.43% Glass	3.64% Plastics (general)	0.49% Printed circuit board mixed mounted	0.49% Rubber		Steel (general galvanised)	or Aluminium Ingot from old scrap	primary ingot
30% 20%			Plastics	Printed circuit board mixed			Steel (general galvanised)	or Aluminium Ingot from old scrap	primary ingot
30% 20%			Plastics	Printed circuit board mixed			Steel (general galvanised)	or Aluminium Ingot from old scrap	primary ingot
30% 20%			Plastics	Printed circuit board mixed			Steel (general galvanised)	or Aluminium Ingot from old scrap	primary ingot
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STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Path Bandit

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	1.209
A2: Transport	0.082
A3: Manufacturing	1.215
A4: Transport to Site	0.008
B3: Repair	0.163
C2: Transport	0.003
C3: Waste Processing	0.608
C4: Disposal	0.001
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	3.29
A1-C4 with Buffer Factor	4.28
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