	rack								
CIBSE TM65.2	Embodied Carl	oon Mid-level (	Calculation						
Date: Assessor/Organ	isation:	s	09/11/2023 toane Lighting		_				
Contact:			ikestoanelighting	.com					
Embodied Carb	on Results with '	Mid-Level TM65	5 Calculation' Met	thod Total					
					18.26 kg CC	2e			
Through Life (25	5 year) Embodie	ed Carbon (kgC	:O <sub>2</sub> e)						
	First Buik				Repair				
11.84 6.42									
1 2 3	4 5	6 7 8	9 10 11	1 12 13	14 15 16	6 17 18	19 20 21	22 23 24 25	
25 year product	life								
Product Inform Type of Product								Luminaires	
	own for at least		duct weight. Brea	kdown				0.441 kg 100.00%	
B3: Materials re Energy consum			product					6.425 kgCO2e 4.57 kWh	
Location of Man							E	Edinburgh, Edinburgh, City of, United Kingdom	
Product Comple	xity							Category 2	
				inatorialo b	y % of Product				
100%					y % of Product				
100% 90%					y % of Product				
					y % of Product				
90%					y % of Product				
90% 80%					y % of Product				
90% 80% 70%					y % of Product		41.25%		
90% 80% 70% 60%					y % of Product		41.25%		
90% 80% 70% 60% 50%		21.90%			y % of Product		41.25%		
90% 80% 70% 60% 50% 40%	14.60%	21.90%			y % of Product		41.25%	17.68%	
90% 80% 70% 60% 50% 40% 30%	14.60%	21.90%	0.05%				41.25%	17.68%	
90% 80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	0.05% Printed circuit	0.07% Rubber	0.34%	0.18% Steel (general	or Aluminium Ingol	3.22%	
90% 80% 70% 60% 50% 40% 30% 20%				0.07%	0.34%	0.18%		3.22%	
90% 80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed	0.07%	0.34%	0.18% Steel (general	or Aluminium Ingol	3.22%	
90% 80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed	0.07%	0.34%	0.18% Steel (general	or Aluminium Ingol	3.22%	
90% 80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed	0.07%	0.34%	0.18% Steel (general	or Aluminium Ingol	3.22%	
90% 80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed	0.07%	0.34%	0.18% Steel (general	or Aluminium Ingol	3.22%	

## **STOANE** LIGHTING

## EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

## ZTA.35 Mains Track

## CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material Extraction	5.002
A2: Transport	0.175
A3: Manufacturing	2.603
A4: Transport to Site	0.017
B3: Repair	4.942
C2: Transport	0.006
C3: Waste Processing	1.302
C4: Disposal	0.002
Embodied Carbon Results (kg CO <sub>2</sub> e)	
A1-C4	14.05
A1-C4 with Buffer Factor	18.26
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