	rack								
CIBSE TM65.2	Embodied Carb	on Mid-level C	Calculation						
Date: Assessor/Organ	isation:		19/12/2024 toane Lighting		7				
Contact:			ikestoanelighting.	com					
Embodied Carb	on Results with 'I	Mid-Level TM65	5 Calculation' Met	hod Total					
					22.23 kg CC	2e			
Through Life (25	5 year) Embodie	d Carbon (kgC	O ₂ e)						
First Build Repair									
14.75 7.49									
1 2 3	4 5 6	6 7 8	9 10 11	12 13	14 15 16	17 18	19 20 21	22 23 24 25	
25 year product	life								
Product Inform	nation								
Type of Product Product Weight	t							Luminaires 0.441 kg	
Material Breakd			duct weight. Brea	kdown				100.00% 7.487 kgCO2e	
	ption of the facto		product					7.68 kWh	
Location of Man Product Comple								dinburgh, Edinburgh, City of, United Kingdom Category 2	
				Materials b	y % of Product	Veight			
100%									
90%									
90% 80%									
80%									
80% 70%							41 25%		
80% 70% 60%							41.25%		
80% 70% 60% 50%		21.90%					41.25%		
80% 70% 60% 50% 40%	14.60%	21.90%					41.25%	17.68%	
80% 70% 60% 50% 40% 30%	14.60%	21.90%					41.25%	17.68%	
80% 70% 60% 50% 40% 30% 20%	Electronic		0.05% Printed circuit	0.07%	0.34% Stainless steel	0.18% Steel (general of	r Aluminium Ingot	3.22%	
80% 70% 60% 50% 40% 30% 20%	14.60% Electronic component	21.90% Plastics (general)	0.05% Printed circuit board mixed mounted	0.07% Rubber	-		41.25%	3.22%	
80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed		-	Steel (general o	r Aluminium Ingot	3.22%	
80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed		-	Steel (general o	r Aluminium Ingot	3.22%	
80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed		-	Steel (general o	r Aluminium Ingot	3.22%	
80% 70% 60% 50% 40% 30% 20%	Electronic	Plastics	Printed circuit board mixed		-	Steel (general o	r Aluminium Ingot	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 ₂ e)	
A1: Material Extraction	5.002
A2: Transport	0.175
A3: Manufacturing	4.094
A4: Transport to Site	0.017
B3: Repair	5.759
C2: Transport	0.006
C3: Waste Processing	2.047
C4: Disposal	0.002
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	17.10
A1-C4 with Buffer Factor	22.23
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

Regional variations of the TM65 methodology are being developed; please contact us if there is a requirement for a speific regional assessment where such a local addendum exists. 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