	g Calculat											
ZTA.100 Surfac	e											
CIBSE TM65.2	Embodied	Carbon Mid-I	evel Calculati	on								
Date: Assessor/Organ	isation:		12/10/2 Stoane Lig									
Contact:		sale	es@mikestoan	elighting.cor	<u>n</u>							
Embodied Carb	on Results	with 'Mid-Leve	TM65 Calcula	ation' Method	l Total							
						30.01 kg C	D2e					
Through Life (2	5 year) En	bodied Carbor	ו (kgCO <sub>2</sub> e)									
		t Build		]		Repair						
		9.80		] 		0.21						
1 2 3	4	5 6 7	89	10 11	12 13 1	14 15 1	6 17 18	3 19 20	21 22	23 24	25	
25 year product	life											
Product Inform	ation											
Type of Product	t									Luminaires		
Product Weight Material Breakd	own for at		e product wei	ght. Breakdo	wn				_	1.547 kg 100.00%		
B3: Materials re Energy consum			nit of product							0.213 kgCO2e 16.01 kWh	9	
Location of Mar		raciory per u							Edinbu	rgh, Edinburg	gh, City	
Product Comple	xity			Ma	aterials by %	% of Product	Weight		of,	United Kingd Category 2		
Product Comple	xity			Ma	aterials by %	% of Product	Weight					
	xity			Ma	aterials by %	% of Product	Weight		of,			
100%	xity			M	aterials by %	% of Product	Weight		of,			
100% 90%	xity			Ma	aterials by %	% of Product	Weight					
100% 90% 80%	xity			Ma	aterials by 9	% of Product	Weight		of,	Category 2		
100% 90% 80% 70%	xity			Ma	aterials by 9	% of Product	Weight		of,	Category 2		
100% 90% 80% 70% 60%	xity			Ma	aterials by 9	% of Product	Weight			Category 2		
100% 90% 80% 70% 60% 50%	xity			Ma	aterials by 9	% of Product	Weight			Category 2	28.27%	
100% 90% 80% 70% 60% 50% 40%	xity			M	aterials by 9	% of Product	Weight			Category 2		
100% 90% 80% 70% 60% 50% 40% 30%						% of Product			of,	Category 2		
100% 90% 80% 70% 60% 50% 40% 30% 20%	0.26%		0.13%	0.19%	0.07%	3.94%	0.52%	0.26%	0.19%	Category 2	28.27%	
100% 90% 80% 70% 60% 50% 40% 30% 20%		5 0.19% Copper	0.13% Electronic component	0.19%	0.07% Printed circuit	3.94%		0.26% Stainless steel	0.19%	Category 2 65.97%	28.27%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	0.26%		Electronic	0.19% Plastics	0.07% Printed circuit	3.94%	0.52%	Stainless	0.19% Steel (genera	Category 2	28.27%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	0.26%		Electronic	0.19% Plastics	0.07% Printed circuit	3.94%	0.52%	Stainless	0.19%	Category 2 65.97%	28.27%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	0.26%		Electronic	0.19% Plastics	0.07% Printed circuit	3.94%	0.52%	Stainless	0.19%	Category 2 65.97%	28.27%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	0.26%		Electronic	0.19% Plastics	0.07% Printed circuit	3.94%	0.52%	Stainless	0.19%	Category 2 65.97%	28.27%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	0.26%		Electronic	0.19% Plastics	0.07% Printed circuit	3.94%	0.52%	Stainless	0.19%	Category 2 65.97%	28.27%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	0.26%		Electronic	0.19% Plastics	0.07% Printed circuit	3.94%	0.52%	Stainless	0.19%	Category 2 65.97%	28.27%	

## **STOANE** LIGHTING

## EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

## ZTA.100 Surface

## CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material Extraction	8.531
A2: Transport	0.613
A3: Manufacturing	9.127
A4: Transport to Site	0.061
B3: Repair	0.164
C2: Transport	0.020
C3: Waste Processing	4.564
C4: Disposal	0.008
Embodied Carbon Results (kg CO <sub>2</sub> e)	
A1-C4	23.09
A1-C4 with Buffer Factor	30.01
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