	g Calculation									
Croc type X	Embodied Ca	rbon Mid-leve	el Calculation							
Date:			11/10/2023	3						
Assessor/Organ Contact:	isation:	sales@	Stoane Lighti							
Embodied Carbo	on Results with	n 'Mid-Level IN	165 Calculation	n' Method Total	27.80	kg CO2e				
Through Life (25	ovear) Emboo	lied Carbon (k	aCO2e)		21.03	Ng 0026				
	First Bu		32-7		Re	epair				
	27.68	3			0	.21				_
1 2 3	4 5	6 7 8	B 9 10	11 12	13 14 1	5 16 17	7 18 19 2	20 21 2	22 23 24	25
25 year product	life									
Des durch laferer	-41							_		
Product Information Product Information Type of Product Product Weight									Luminaires	3
Material Breakdo	own for at leas		roduct weight.	Breakdown					1.454 kg 100.00%	
B3: Materials re Energy consum			of product						0.213 kgCO2 15.05 kWh	
Location of Man	ufacture								nburgh, Edinbu of, United King	
Product Comple	xity								Category 2	2
				Materia	ls by % of Pro	oduct Weigl	ht			
100%				Materia	ls by % of Pro	oduct Weigl	ht			
100% 90%				Materia	ls by % of Pro	oduct Weigl	ht			
				Materia	is by % of Pro	oduct Weigl	ht			
90%				Materia	is by % of Pro	oduct Weigl	ht		60.46%	
90% 80%				Materia	Is by % of Pro	oduct Weigl	ht		60.46%	
90% 80% 70%				Materia	is by % of Pro	oduct Weigl	ht		60.46%	
90% 80% 70% 60% 50% 40%				Materia	Is by % of Pro	oduct Weigl	ht		60.46%	
90% 80% 70% 60% 50% 40% 30%				Materia	is by % of Pro	oduct Weigl	ht		60.46%	-25.91%
90% 80% 70% 60% 50% 40% 30%				Materia	is by % of Pro	oduct Weigl	ht		60.46%	25.91%
90% 80% 70% 60% 50% 40% 30%	2.65%	3.16%	1.34%	0.07%	is by % of Pro	0.28%	ht 0.49%	1.31%	60.46%	25.91%
90% 80% 70% 60% 50% 40% 30%	2.65% Copper	3.16% Glass	1.34% Plastics (general)	0.07% Printed circuit board mixed				1.31%	Aluminium Ingot from old	Aluminium
90% 80% 70% 60% 50% 40% 30%			Plastics	0.07%	4.33%	0.28%	0.49%		Aluminium	Aluminium
90% 80% 70% 60% 50% 40% 30%			Plastics	0.07% Printed circuit board mixed	4.33%	0.28%	0.49%		Aluminium Ingot from old	Aluminium
90% 80% 70% 60% 50% 40% 30%			Plastics	0.07% Printed circuit board mixed	4.33%	0.28%	0.49%		Aluminium Ingot from old	Aluminium
90% 80% 70% 60% 50% 40% 30%			Plastics	0.07% Printed circuit board mixed	4.33%	0.28%	0.49%		Aluminium Ingot from old	Aluminium
90% 80% 70% 60% 50% 40% 30%			Plastics	0.07% Printed circuit board mixed	4.33%	0.28%	0.49%		Aluminium Ingot from old	Aluminium

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Croc type X

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	7.762
A2: Transport	0.576
A3: Manufacturing	8.579
A4: Transport to Site	0.058
B3: Repair	0.164
C2: Transport	0.019
C3: Waste Processing	4.290
C4: Disposal	0.007
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	21.45
A1-C4 with Buffer Factor	27.89
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