	g Calculation										
VC Light Desk	Embodied Carl	oon Mid-leve	I Calculation								
Date:			11/10/2023								
Assessor/Organ Contact:	isation:		Stoane Lightin mikestoanelig								
Embodied Carbo	on Results with '	Mid-Level TM	65 Calculatior	' Method Total							
					52.50	kg CO2e					
Through Life (25			JCO ₂ e)								
	First Buik 37.05	d				pair .44					
1 2 3	4 5	6 7 8	3 9 10	11 12	13 14 15	5 16 17	7 18 19	20 21 2	2 23 24	25	
25 year product	life										
zo year product	ine .										
Product Inform Type of Product									Luminaires		
Product Weight Material Breakdo		OE% of the p	aduat waight	Breekdeum					1.434 kg		
B3: Materials re	placed as part o	f repair		DIEakuowii					100.00% 15.442 kgCC		
Energy consum		ory per unit o	f product					Edin	14.84 kWh burgh, Edinbu		
Location of Man									of, United King Category 2	dom	
Product Comple	xity			Materia	ls by % of Pro	oduct Weigł	nt				
Product Comple	xity			Materia	ls by % of Pro	oduct Weigł	nt				
	xity			Materia	Is by % of Pro	duct Weigh	nt				
100%	xity			Materia	is by % of Pro	oduct Weigh	nt				
100% 90%	xity			Materia	ls by % of Pro	oduct Weigh	nt				
100% 90% 80%	xity			Materia	is by % of Pro	duct Weigł	nt				
100% 90% 80% 70%	xity			Materia	Is by % of Pro	oduct Weigh	nt				
100% 90% 80% 70% 60%	xity			Materia	Is by % of Pro	duct Weigh	ht		37.91%		
100% 90% 80% 70% 60% 50%	xity	28.37%		Materia	is by % of Pro	vduct Weigh	nt		37.91%		
100% 90% 80% 70% 60% 50% 40%	13.52%	28.37%		Materia	Is by % of Pro	oduct Weigh	nt		37.91%	-16.24%	
100% 90% 80% 70% 60% 50% 40% 30%		28.37%	2.54%					0.02%	37.91%		
100% 90% 80% 70% 60% 50% 40% 30% 20%	13.52% Electronic	28.37% Glass	Plastics	Materia 0.11% Polycarbonate	0.30%	0.11% Rubber	0.89%	0.02% Steel (general	Aluminium	-16.24%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	13.52%			0.11%	0.30%	0.11%	0.89%	Steel (general		-16.24%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	13.52% Electronic		Plastics	0.11%	0.30% Printed circuit board mixed	0.11%	0.89%	Steel (general	Aluminium Ingot from old	-16.24%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	13.52% Electronic		Plastics	0.11%	0.30% Printed circuit board mixed	0.11%	0.89%	Steel (general	Aluminium Ingot from old	-16.24%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	13.52% Electronic		Plastics	0.11%	0.30% Printed circuit board mixed	0.11%	0.89%	Steel (general	Aluminium Ingot from old	-16.24%	
100% 90% 80% 70% 60% 50% 40% 30% 20%	13.52% Electronic		Plastics	0.11%	0.30% Printed circuit board mixed	0.11%	0.89%	Steel (general	Aluminium Ingot from old	-16.24%	

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

VC Light Desk

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO₂e)	
A1: Material Extraction	15.164
A2: Transport	0.568
A3: Manufacturing	8.459
A4: Transport to Site	0.057
B3: Repair	11.879
C2: Transport	0.019
C3: Waste Processing	4.230
C4: Disposal	0.007
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	40.38
A1-C4 with Buffer Factor	52.50
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