Surf Type S	Calculation						
	mbodied Carbor	n Mid-level Calculatio	'n				
Date:		11/10/20					
Assessor/Organis Contact:	ation:	Stoane Ligi sales@mikestoane	hting	_			
Embodied Carbor	n Results with 'Mic	I-Level TM65 Calculati	ion' Method Total				
				1.03 kg CO2e	2		
Through Life (25		Carbon (kgCO ₂ e)			-		
	First Build 0.82			Repair 0.21			
1 2 3	4 5 6	7 8 9 1	0 11 12 13	14 15 16	17 18 19 20	0 21 22 23	24 25
25 year product li	fe						<u> </u>
20 your product :							
Product Informa Type of Product	tion					Lum	inaires
Product Weight	m for at least OF	/ of the product usial	at Dreekdoum			0.0	34 kg
Material Breakdown for at least 95% of the product weight. Breakdown 100.00% B3: Materials replaced as part of repair 0.212 kgCO2k							
		per unit of product					5 kWh Edinburgh City
Location of Manu Product Complexi	Location of Manufacture Edinburgh, Edinburgh						
			Mada viala la		-1-1-4		
			Materials b	y % of Product W	eight		
100% -			Materials b	y % of Product W	eight		
100% 90%			Materials b	y % of Product W	eight		
			Materials b	y % of Product W	eight		
90% —			Materials b	y % of Product W	eight		
90% 80% 70% 60%			Materials b	y % of Product W	eight		
90% 80% 70% 60% 50%			Materials b	y % of Product W	eight 45.29%		
90% - 80% - 70% - 60% - 50% -			Materials b	y % of Product W			
90% 80% 70% 60% 50% 40% 30%			Materials b	y % of Product W		19.41%	
90% - 80% - 70% - 60% - 50% - 40% - 30% - 20% -	7.250/	10.29%	Materials b			19.41%	
90% 80% 70% 60% 50% 40% 30%	7.35%	10.29%	Materials b	y % of Product W		19.41%	5.88%
90% - 80% - 70% - 60% - 50% - 40% - 30% - 20% -	7.35%	10.29% Plastics (general)		8.82%			5.88% PMMA (acrylic, plexiglass)
90% - 80% - 70% - 60% - 50% - 40% - 30% - 20% -			2.94% Printed circuit board	8.82% Steel (general or	45.29%	Aluminium primary	PMMA (acrylic,
90% - 80% - 70% - 60% - 50% - 40% - 30% - 20% -			2.94% Printed circuit board	8.82% Steel (general or	45.29%	Aluminium primary	PMMA (acrylic,
90% - 80% - 70% - 60% - 50% - 40% - 30% - 20% -			2.94% Printed circuit board	8.82% Steel (general or	45.29%	Aluminium primary	PMMA (acrylic,
90% - 80% - 70% - 60% - 50% - 40% - 30% - 20% -			2.94% Printed circuit board	8.82% Steel (general or	45.29%	Aluminium primary	PMMA (acrylic,
90% - 80% - 70% - 60% - 50% - 40% - 30% - 20% -			2.94% Printed circuit board	8.82% Steel (general or	45.29%	Aluminium primary	PMMA (acrylic,
90% - 80% - 70% - 60% - 50% - 30% -			2.94% Printed circuit board	8.82% Steel (general or	45.29%	Aluminium primary	PMMA (acrylic,

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Surf Type S

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	0.312
A2: Transport	0.013
A3: Manufacturing	0.201
A4: Transport to Site	0.001
B3: Repair	0.163
C2: Transport	0.000
C3: Waste Processing	0.100
C4: Disposal	0.000
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	0.79
A1-C4 with Buffer Factor	1.03
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