CIBSE TM65.2 I	Embodied Cart	oon Mid-level (	Calculation						
Date: Assessor/Organi	isation:	S	11/10/2023 toane Lighting		-				
Contact:			ikestoanelightin	<u>g.com</u>					
Embodied Carbo	on Results with '	Mid-Level TM65	5 Calculation' M	ethod Total					
					6.61 kg CO2	le			
Through Life (25	i year) Embodie	ed Carbon (kgC	O <sub>2</sub> e)						
	First Build	ł			Repair				
1 2 2	6.48 0.13								4 25
1 2 3	4 5	6 7 8	9 10	11 12 13	14 15 16	6 17 18	19 20 21	22 23 2	4 25
25 year product	life								
Product Inform	ation								
Type of Product Product Weight								Luminair 0.351 k	
Material Breakdo B3: Materials rep			duct weight. Bre	eakdown				100.009 0.127 kgC	%
Energy consumption			product					3.34 kW	/h
Location of Man							E	dinburgh, Edint of, United Ki	
				Metaviala hu					
				waterials by	/ % of Product V	Veight			
				wateriais by	/ % of Product \	Veight			
100%				Materials by	/ % of Product V	Veight			
90%				waterials by	/ % of Product V	Veight			
90% 80%				watenais by	/ % of Product V	Veight			
90% 80% 70%				watenais by	/ % of Product V	Veight			
90% 80%				materials by	% of Product N	Veight	50.84%		
90% 80% 70% 60% 50%				materials by	% of Product v	Veight	50.84%		
90% 80% 70% 60% 50%				materials by	% of Product N	Veight	50.84%		
90% 80% 70% 60% 40% 30%					% of Product v	Veight	50.84%	21.79%	
90% 80% 70% 60% 50%	11.16%				% of Product N	Veight	50.84%	21.79%	
90% 80% 70% 60% 40% 30%	11.16%	3.81%	5.69%			5.46%	50.84%	21.79%	0.46%
90% 80% 70% 60% 40% 30% 20%	11.16% Copper	3.81% Glass	Plastics	0.17% Printed circuit	0.63%		Aluminium Ingot	Aluminium	0.46% PMMA (acrylic,
90% 80% 70% 60% 40% 30% 20%				0.17%	0.63%	5.46%			
90% 80% 70% 60% 40% 30% 20%			Plastics	0.17% Printed circuit	0.63%	5.46%	Aluminium Ingot	Aluminium	PMMA (acrylic,
90% 80% 70% 60% 40% 30% 20%			Plastics	0.17% Printed circuit	0.63%	5.46%	Aluminium Ingot	Aluminium	PMMA (acrylic,
90% 80% 70% 60% 50% 40% 30%			Plastics	0.17% Printed circuit	0.63%	5.46%	Aluminium Ingot	Aluminium	PMMA (acrylic,
90% 80% 70% 60% 40% 30% 20%			Plastics	0.17% Printed circuit	0.63%	5.46%	Aluminium Ingot	Aluminium	PMMA (acrylic,

# **STOANE** LIGHTING

# EQUIPMENT DESIGN + MANUFACTURE

#### TM65.2 Lighting Calculation: Luminaire

### Baby Badger

## CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material Extraction	1.969
A2: Transport	0.139
A3: Manufacturing	1.904
A4: Transport to Site	0.014
B3: Repair	0.098
C2: Transport	0.005
C3: Waste Processing	0.952
C4: Disposal	0.002
Embodied Carbon Results (kg CO <sub>2</sub> e)	
A1-C4	5.08
A1-C4 with Buffer Factor	6.61
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 flex 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 information 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