	g Calculation									
Mushroom spik	e									
CIBSE TM65.2	Embodied Carb				_					
Date: Assessor/Organ	isation:	S	19/12/2024 toane Lighting		_					
Contact:		sales@m	ikestoanelighting.	com						
Embodied Carbo	on Results with 'I	Vid-Level TM65	5 Calculation' Met	nod Total						
					22.45 kg CO	2e				
Through Life (25	year) Embodie	d Carbon (kgC	O <sub>2</sub> e)							
	First Build 21.66	I			Repair 0.79					
1 2 3		3 7 8	9 10 11	12 13	14 15 16	5 17 18 1	9 20 21	22 23 24	25	
1 2 3	4 0						0 20 21		20	
25 year product	life									
Product Inform										
Type of Product Product Weight								Luminaire 0.825 kg		
Material Breakdo B3: Materials rep			duct weight. Break	kdown				100.00% 0.788 kgC0		
Energy consum			product					14.36 kW dinburgh, Edinbu	h	
Location of Man Product Comple								of, United Kin	gdom	
	xity							Category	2	
	xity			Materials b	y % of Product \	Veight		Category	2	
100%	xity			Materials b	y % of Product \	Neight		Category	2	
100% 90%	xity			Materials by	y % of Product \	Weight		Category	2	
	ALY			Materials by	y % of Product \	Weight		Category	2	
90%	Ally			Materials b	y % of Product \	Veight		Category	2	
90% 80%				Materials b;	y % of Product \	Veight 51.41%		Category	2	
90% 80% 70%	Ally			Materials by	y % of Product \			Category	2	
90% 80% 70% 60%				Materials by	y % of Product \			Category	2	
90% 80% 70% 60% 50%				Materials by	y % of Product \		22.03%	Category	2	
90% 80% 70% 60% 50% 40%				Materials by	y % of Product \		22.03%	Lategory	2	
90% 80% 70% 60% 40% 30%	4.39%	2.73%	0.44%	Materials by	y % of Product \		22.03%		1.66%	
90% 80% 70% 60% 50% 40% 30%		Plastics	0.44% Printed circuit		1.45%	51.41%	Aluminium	14.82%		
90% 80% 70% 60% 50% 40% 30%	4.39%			1.08%	1.45%	51.41%		14.82%	1.66%	
90% 80% 70% 60% 50% 40% 30%	4.39%	Plastics	Printed circuit board mixed	1.08%	1.45%	51.41%	Aluminium	14.82%	1.66%	
90% 80% 70% 60% 50% 40% 30%	4.39%	Plastics	Printed circuit board mixed	1.08%	1.45%	51.41%	Aluminium	14.82%	1.66%	
90% 80% 70% 60% 50% 40% 30%	4.39%	Plastics	Printed circuit board mixed	1.08%	1.45%	51.41%	Aluminium	14.82%	1.66%	
90% 80% 70% 60% 50% 40% 30%	4.39%	Plastics	Printed circuit board mixed	1.08%	1.45%	51.41%	Aluminium	14.82%	1.66%	
90% 80% 70% 60% 50% 40% 30%	4.39%	Plastics	Printed circuit board mixed	1.08%	1.45%	51.41%	Aluminium	14.82%	1.66%	

## **STOANE** LIGHTING

## EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

## Mushroom spike

## CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material Extraction	4.802
A2: Transport	0.327
A3: Manufacturing	7.657
A4: Transport to Site	0.033
B3: Repair	0.606
C2: Transport	0.011
C3: Waste Processing	3.829
C4: Disposal	0.004
Embodied Carbon Results (kg CO <sub>2</sub> e)	
A1-C4	17.27
A1-C4 with Buffer Factor	22.45
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

Regional variations of the TM65 methodology are being developed; please contact us if there is a requirement for a speific regional assessment where such a local addendum exists. 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