JIPMENT DES	LIGH ign + man									
TM65.2 Lighting	g Calculation									
Iris Star (spring	3)									
CIBSE TM65.2	Embodied Carl	oon Mid-level C	alculation							
Date:			18/12/2024		٦					
Assessor/Organ	isation:	St	oane Lighting		-					
Contact:		<u>sales@mi</u>	kestoanelighting	.com						
Embodied Carbo	on Results with '	Mid-Level TM65	Calculation' Me	thod Total						
					3.24 kg CO2	e				
Through Life (25	ōyear) Embodie	d Carbon (kgC	0 ₂ e)							
	First Buil		- /		Repair					
	3.02				0.22					
1 2 3	4 5	6 7 8	9 10 1 [.]	1 12 13	14 15 16	17 18	19 20 21	22 23 24	4 25	
25 year product	life									
Product Inform	ation									
Type of Product Product Weight								Luminaire		
Material Breakdo			uct weight. Brea	akdown				0.111 kç 100.00%	ó	
B3: Materials re Energy consum	placed as part o ption of the fact	f repair ory per unit of p	roduct					0.219 kgC0 1.93 kW		
Location of Man							E	dinburgh, Edinb of, United Kir	urgh, City adom	
Product Comple	xity							Category		
100%										
90%										
80%										
70%								50.000/		
60%								59.28%		
50%								-		
40%										
30%									25 410/	
									25.41%	
20%										
10%	0.90%	2.70%	2.70%	2.70%	2.70%	0.90%	2.70%			
	Brass	Copper	Glass	Plastics (general)	Polycarbonate	Printed circuit board mixed mounted	Stainless steel	Aluminium Ingot from old scrap	Aluminium primary ingot	

STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

Iris Star (spring)

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material Extraction	0.732
A2: Transport	0.044
A3: Manufacturing	1.030
A4: Transport to Site	0.004
B3: Repair	0.168
C2: Transport	0.001
C3: Waste Processing	0.515
C4: Disposal	0.001
Embodied Carbon Results (kg CO ₂ e)	
A1-C4	2.50
A1-C4 with Buffer Factor	3.24
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

This feport Was generated on a Standard' version of the fitting and may not include version virtue. Thereased in August 2220 Stoare 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 calculated 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