

MIRAGE C88 STD

Date October 2025
Prepared By Sandhra Mili Lal

Product Information

Product Name MIRAGE C88 STD
Weight (kg) 1.1
Size (mm) H 290 ø88
Service Life (Lx@Hrs) L90@46,000
Location Of Manufacture Whitecroft Lighting
% Assessed by Weight 100%

Total embodied carbon calculated in line with Mid Level TM65 calculation method

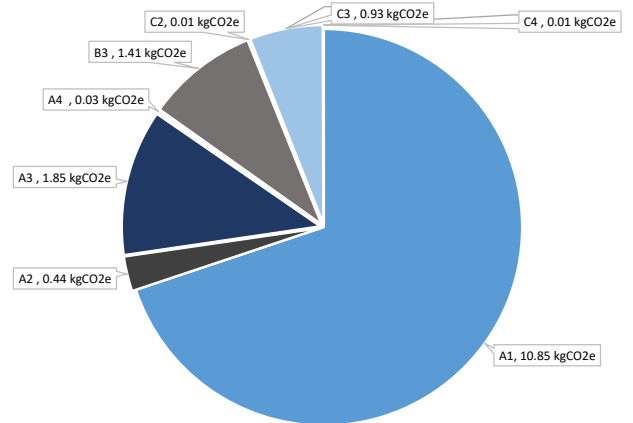
20.18 kgCO₂e



Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO ₂ e	Percentage of total
A1 Material Extraction	10.85 kgCO ₂ e	69.88%
A2 Transport to Factory	0.44 kgCO ₂ e	2.81%
A3 Manufacturing Energy	1.85 kgCO ₂ e	11.92%
A4 Transport to Site	0.03 kgCO ₂ e	0.21%
B3 Repair	1.41 kgCO ₂ e	9.09%
C2 Transport To Waste	0.01 kgCO ₂ e	0.09%
C3 Waste Processing	0.93 kgCO ₂ e	5.96%
C4 Waste Disposal	0.01 kgCO ₂ e	0.03%

Total A1-A4, B3, C2-C4	15.52 kgCO ₂ e
With Buffer (1.3)	20.18 kgCO ₂ e



About this product

Surface or suspended mounted downlighter ideal for creating feature lighting.

Assumptions

A1 Material Extraction Table 2.1 default values are used from TM65 2021. Aluminium data point as per supplier EPD
A2 Transport to Factory Calculated in line with TM65 Table 4.8 & Table 4.9 (HGV)
A3 Energy WLL use >97% REGO backed renewable energy so assumed value equals 0kgco2/kwh
 This study is using 2023 energy values and production weight values
 Energy values as TM65 default Carbon Factors; Electricity (non REGO): Table 4.10 - UK, Gas: Table 4.11 - Global
 Approximate distance assumed to be Ashton-Under-Lyne to Northampton (227km), & Table 4.8 (HGV)
A4 Transport TM65 Table 4.6: 10% of A1-A3, C2-C4 assumed
B3 Repair TM65 Table 4.7 & Table 4.8
C2 Transport to Waste TM65 Table 4.7
C3 Waste Processing TM65 Table 4.14 - Light & Table 4.15
C4 Waste Disposal

Following study should be used in absence of appropriate EPD documentation

