

MIRAGE 3 C88 190MM HIGH

Date December 2025
Prepared By Sandhra Mili Lal

Product Information

Product Name MIRAGE 3 C88 190MM HIGH
Weight (kg) 0.8
Size (mm) Ø88 H190
Service Life (Lx@Hrs) L90@50000hrs
Location Of Manufacture Whitecroft Lighting Ltd.
% Assessed by Weight 100%

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

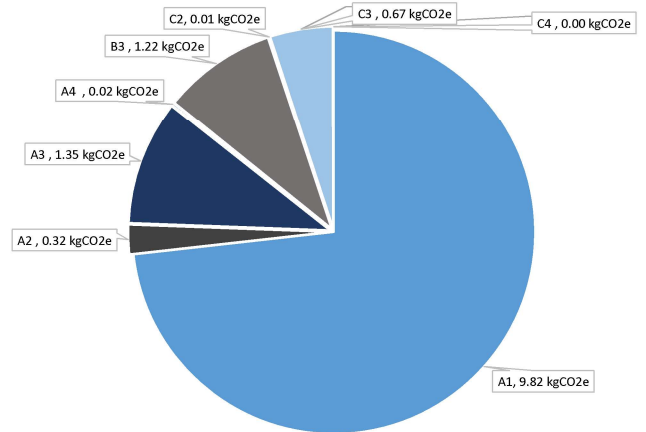
17.44 kgCO₂e



Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO ₂ e	Percentage of total
A1 Material Extraction	9.82 kgCO ₂ e	73.22%
A2 Transport to Factory	0.32 kgCO ₂ e	2.36%
A3 Manufacturing Energy	1.35 kgCO ₂ e	10.03%
A4 Transport to Site	0.02 kgCO ₂ e	0.18%
B3 Repair	1.22 kgCO ₂ e	9.09%
C2 Transport To Waste	0.01 kgCO ₂ e	0.08%
C3 Waste Processing	0.67 kgCO ₂ e	5.01%
C4 Waste Disposal	0.00 kgCO ₂ e	0.03%

Total A1-A4, B3, C2-C4	13.42 kgCO ₂ e
With Buffer (1.3)	17.44 kgCO ₂ e



About this product

MIRAGE 3 SURFACE C88 - Premium surface or suspended downlighter available in two lumen outputs, two beam angles, three colours and four reflector types. DALI control gear as standard. With integral Organic Response passive node.

Assumptions

A1 Material Extraction
A2 Transport to Factory
A3 Energy

Table 2.1 default values are used from TM65 2021. Aluminium data point as per supplier EPD
Calculated in line with TM65 Table 4.8 & Table 4.9 (HGV)
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)
TM65 Table 4.6: 10% of A1-A3, C2-C4 assumed
TM65 Table 4.7 & Table 4.8
TM65 Table 4.7
TM65 Table 4.14 - Light & Table 4.15

A4 Transport
B3 Repair
C2 Transport to Waste
C3 Waste Processing
C4 Waste Disposal

Following study should be used in absence of appropriate EPD documentation

CONTACT WHITECROFT

