

Concert EX1R

Date: January 2023
Prepared By: I Jakubczyk

Product Information	
Product Name	Concert EX1R
Weight (kg)	1.69
Size (mm)	355mm x150mm
Service Life (Lx@Hrs)	10 years (not including battery)
Location Of Manufacture	China
% Assessed by Weight	100%

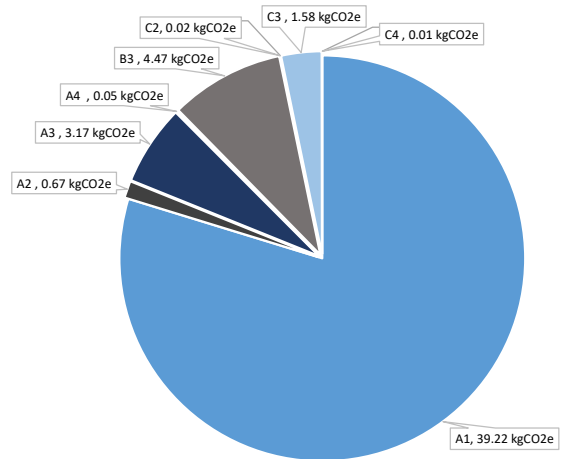
Total embodied carbon calculated in line with Mid Level TM65 calculation method

63.96 kgCO₂e



Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO ₂ e	Percentage of total
A1 Material Extraction	39.22 kgCO ₂ e	79.73%
A2 Transport to Factory	0.67 kgCO ₂ e	1.36%
A3 Manufacturing Energy	3.17 kgCO ₂ e	6.44%
A4 Transport to Site	0.05 kgCO ₂ e	0.10%
B3 Repair	4.47 kgCO ₂ e	9.09%
C2 Transport To Waste	0.02 kgCO ₂ e	0.05%
C3 Waste Processing	1.58 kgCO ₂ e	3.22%
C4 Waste Disposal	0.01 kgCO ₂ e	0.02%
Total A1-A4, B3, C2-C4	49.20 kgCO₂e	
With Buffer (1.3)	63.96 kgCO₂e	



About this product

Recessed LED exit luminaire with 15 long life LEDs - as Whitecroft Lighting CONCERT EX1R

Assumptions

- A1 Material Extraction** Table 2.1 default values are used from TM65 2021
- A2 Transport to Factory** Calculated in line with TM65 Table 4.8 & Table 4.9 (HGV)
- A3 Energy** Electricity grid figures based on Country Specific Electricity Factors: June 2021 v1.1 (https://www.carbonfootprint.com/international_electricity_factors.html) - Chinese grid factor
- A4 Transport** Approximate distance assumed to be Ashton-Under-Lyne to Northampton (227km), & Table 4.8 (HGV)
- B3 Repair** TM65 Table 4.6: 10% of A1-A3, C2-C4 assumed
- C2 Transport to Waste** TM65 Table 4.7 & Table 4.8
- C3 Waste Processing** TM65 Table 4.7
- C4 Waste Disposal** TM65 Table 4.14 - Light & Table 4.15

Following study should be used in absence of appropriate EPD documentation

CONTACT WHITECROFT

