

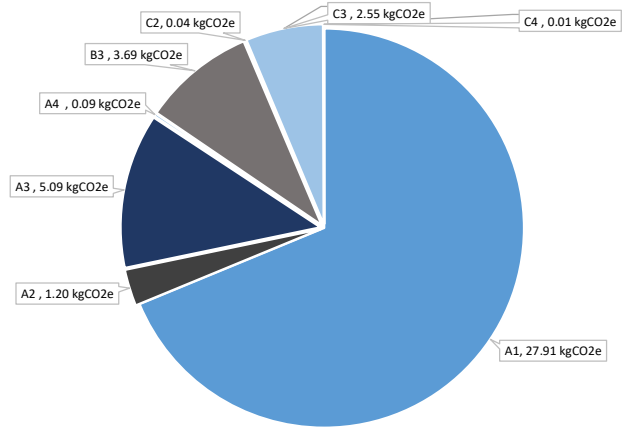
ACLN: ACLN2H24KEM Integral Emergency

Date: July 2026
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Product Information Product Name ACLN: ACLN2H24KEM Integral Emergency Weight (kg) 3.027 Size (mm) L1282 W145 H101 Service Life (Lx@Hrs) L90@70,000h Location Of Manufacture Whitecroft Lighting % Assessed by Weight 100%		
Total embodied carbon calculated in line with Mid Level TM65 calculation method 52.75 kgCO2e		

Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO2e	Percentage of total
A1 Material Extraction	27.91 kgCO2e	68.78%
A2 Transport to Factory	1.20 kgCO2e	2.95%
A3 Manufacturing Energy	5.09 kgCO2e	12.55%
A4 Transport to Site	0.09 kgCO2e	0.22%
B3 Repair	3.69 kgCO2e	9.09%
C2 Transport To Waste	0.04 kgCO2e	0.10%
C3 Waste Processing	2.55 kgCO2e	6.27%
C4 Waste Disposal	0.01 kgCO2e	0.04%
Total A1-A4, B3, C2-C4	40.58 kgCO2e	
With Buffer (1.3)	52.75 kgCO2e	



About this product

IP66 anti-corrosive luminaire for ATEX Zones 2 and 22 hazardous areas. With yellow GRP housing and polycarbonate diffuser - as Whitecroft Lighting ACLN

This results are taking into consideration integral emergency unit. For standard product values, please consult separate TM65 or contact Whitecroft

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

