

## LDR65

Date: March 2023  
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Product Information	
Product Name	LDR65
Weight (kg)	0.43
Size (mm)	Ø=85mm
Service Life (Lx@Hrs)	L90@10000hrs
Location Of Manufacture	Dewsbury, England
% Assessed by Weight	100%

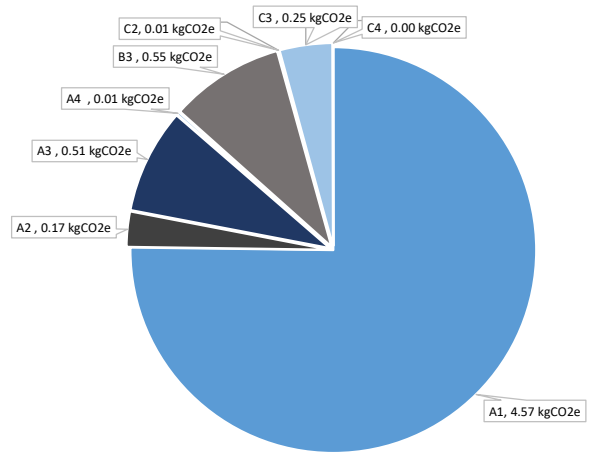
  

Total embodied carbon calculated in line with Mid Level TM65 calculation method	
7.89 kgCO <sub>2</sub> e	



### Embodied carbon calculations results breakdown

Life Cycle Stage	KgCO <sub>2</sub> e	Percentage of total
A1 Material Extraction	4.57 kgCO <sub>2</sub> e	75.21%
A2 Transport to Factory	0.17 kgCO <sub>2</sub> e	2.80%
A3 Manufacturing Energy	0.51 kgCO <sub>2</sub> e	8.37%
A4 Transport to Site	0.01 kgCO <sub>2</sub> e	0.21%
B3 Repair	0.55 kgCO <sub>2</sub> e	9.09%
C2 Transport To Waste	0.01 kgCO <sub>2</sub> e	0.09%
C3 Waste Processing	0.25 kgCO <sub>2</sub> e	4.19%
C4 Waste Disposal	0.00 kgCO <sub>2</sub> e	0.03%
<b>Total A1-A4, B3, C2-C4</b>	<b>6.07 kgCO<sub>2</sub>e</b>	
<b>With Buffer (1.3)</b>	<b>7.89 kgCO<sub>2</sub>e</b>	



#### About this product

IP65 recessed LED downlight with cast aluminium body and heatsink. Multi-faceted anodised aluminium reflector with clear glass front – as Whitecroft Lighting LDR65.

#### Assumptions

<b>A1 Material Extraction</b>	Table 2.1 default values are used from TM65 2021
<b>A2 Transport to Factory</b>	Calculated in line with TM65 Table 4.8 & Table 4.9 (HGV)
<b>A3 Energy</b>	WLL use >97% REGO backed renewable energy so assumed value equals 0kgco2/kwh This study is using Whitecroft 2022 energy values and production weight values
<b>A4 Transport</b>	Energy values as TM65 default Carbon Factors; Electricity (non REGO); Table 4.10 - UK, Gas; Table 4.11 - Global
<b>B3 Repair</b>	Approximate distance assumed to be Ashton-Under-Lyne to Northampton (227km), & Table 4.8 (HGV)
<b>C2 Transport to Waste</b>	TM65 Table 4.6: 10% of A1-A3, C2-C4 assumed
<b>C3 Waste Processing</b>	TM65 Table 4.7 & Table 4.8
<b>C34 Waste Disposal</b>	TM65 Table 4.7
	TM65 Table 4.14 - Light & Table 4.15

Following study should be used in absence of appropriate EPD documentation

