

Lucent Mix85 Range TM65 Results

Embodied Carbon Calculator: Basic Report

(CIBSE TM65 Digital Tool)



If Section A of the 'Input' tab is correctly completed, the results will be shown here.

Please complete all purple and yellow cells.

If you would like to assist CIBSE in building knowledge on the embodied carbon of products used in building services, please complete as directed, name this file as instructed in the 'Introduction and Instructions' tab, and email this file to embodiedcarbon@cibse.org.

Basic report for Mix85 as manufactured by Lucent Lighting

Basic calculation		Notes/source
Date of assessment	15/08/24	Form "dd/mm/yy"
Name of assessor and assessor organisation	Self Assessment	
Contact email address of assessor	James.Surtees@lucent-lighting.com	

Product information		
Type of product	Luminaires	
Capacity of equipment/size (kW; m ³ ; litre; etc.)	0.007 kW	
Product weight (kg)	0.21 kg	
Material % breakdown for at least 95% of the product weight? (Y/N)	Y	
Product service life (years)	20 Years	
If refrigerant based, type of refrigerant used and GWP	#N/A	
Refrigerant charge (kg)	0.00 kg	
Product complexity category	Category 2	See CIBSE TM65 Table 4.3

Embodied carbon results (kg CO ₂ e) – without refrigerant leakage		
A1: Material extraction (original product)	3 kgCO ₂ e	
A1: Material extraction (components that are replaced in B3)	1 kgCO ₂ e	
A1-A4, B3, C2-C4: Total embodied carbon with scale-up and buffer factor (excluding refrigerant leakage)	6 kgCO ₂ e	

Embodied carbon result (kg CO ₂ e) – refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0 kgCO ₂ e	#N/A

Embodied carbon result with 'basic' calculation method (kg CO ₂ e) – total		
Result of 'basic' calculation method	6 kgCO ₂ e	

Assumptions		
A1: Material carbon coefficient source	CIBSE TM65, Table 2.1	E.g. Source = CIBSE TM65, Table 2.1
B1: Refrigerant annual leakage rate (%)	#N/A	E.g. Source = CIBSE TM65, Table 4.4 type 2
C1: Refrigerant end of life recovery rate (%)	#N/A	E.g. Source = CIBSE TM65, Table 4.4 type 2
B3: Materials replaced as part of repair (%)	CIBSE TM65, Table 2.1	E.g. Source = CIBSE TM65, Table 2.1

Details	
Please provide any relevant details	

Information disclosure	Select Yes if you agree	Notes
I consent to CIBSE's use of the data contained in this form for research purposes, on the condition that all identifying information is removed from any published output.		
I consent to CIBSE's use of the data contained in this form in order to establish an embodied carbon database for products used in building services.		