

# STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

## TM65 Calculation : Luminaire

### DROP PENDANT\_XTM

#### CIBSE TM65 Embodied Carbon Mid-level Calculation

Date:	10/03/2022
Assessor/ Organisation:	Stoane lighting
Contact:	<a href="mailto:sales@mikestoanelighting.com">sales@mikestoanelighting.com</a>

#### Embodied Carbon Results with 'Mid-Level TM65 Calculation' Method Total

71.45 kg CO<sub>2</sub>e

#### Through Life (25 year) Embodied Carbon (kgCO<sub>2</sub>e)

First Build  
70.36

Repair  
1.09

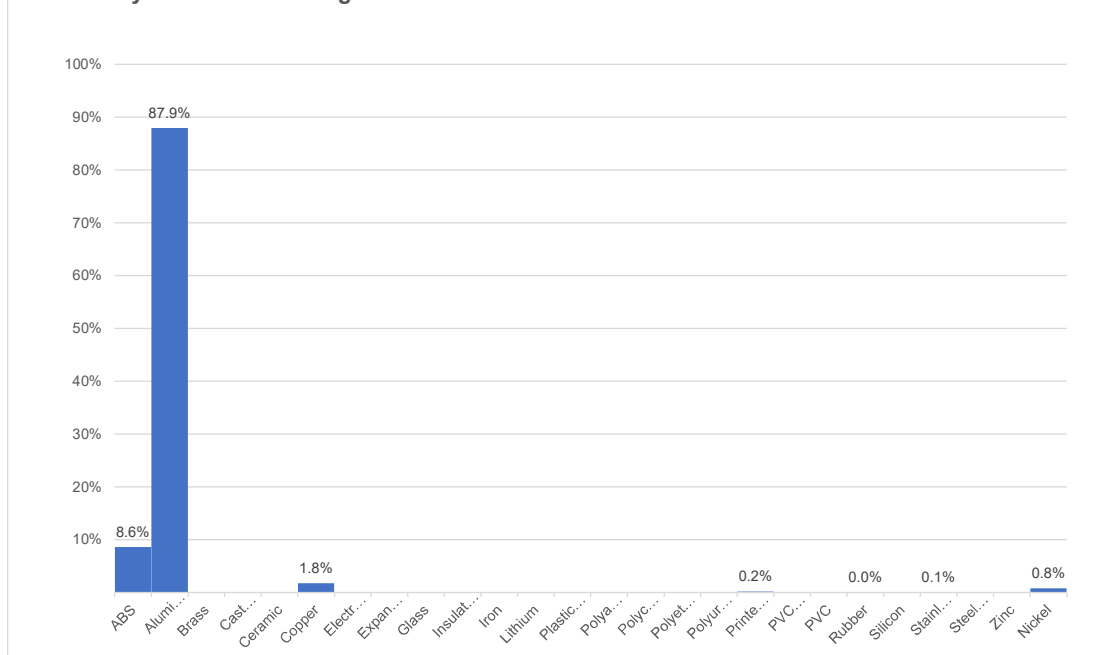
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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25 year product life

#### Product Information

Type of Product	Luminaires
Capacity of Equipment	0.0133 kW
Product Weight	2.58
Material Breakdown for at least 95% of the product weight (Y/N)	Y
B3: Materials replaced as part of repair	0.84 kgCO <sub>2</sub> e
Energy consumption of the factory per unit of product	25.05 kWh
Location of Manufacture	Edinburgh, Edinburgh, City of, United Kingdom
Product Complexity	Category 2

#### Materials by % of Product Weight



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#### Embodied Carbon Results Breakdown (kg CO<sub>2</sub>e)

A1: Material Extraction	31.8769
A2: Transport	1.0233
A3: Manufacturing	13.7760
A4: Transport to Site	0.5116
B3: Repair	0.8404
C2: Transport	0.0341
C3: Waste Processing	6.8880
C4: Disposal	0.0126

#### Embodied Carbon Results (kg CO<sub>2</sub>e)

A1-C4	54.96
A1-C4 with Buffer Factor	71.45

#### Assumptions

A1: Material carbon coefficient source	TM65, Table 2.1
C4 Percentage of product going to landfill(%)	55-TM65 Table 4.14

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This report was generated using the CIBSE TM65 Manufacturers form 'beta' version. Released in June 2021.

Stoane Lighting are a UK based company.

Files are generated for a 'standard' version of the fitting and may not include calculations for accessories or derivatives.

Only if LED drivers or Power supplies are integral will they be included in the calculation.

Repair embodied carbon is calculated based on light source and control gear replacement once in the 25 year product life

For more information please contact us via our website shown below.



This report was produced using the CIBSE Tool  
Embodied Carbon of MEP Products - June 2021

[www.stoanelighting.com](http://www.stoanelighting.com)

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