PSE TM56 2 Embodied Carbon Mid-level Calculation           Image: Control Pseudo Carbon Mid-level TM55 Calculation Method Total           Image: Control Pseudo Carbon (kgCO,e)           Image: Control Pseu	BESE TM65.2 Encloded Carbon Mol-level Eloulation         issessor/Organisation:       Stame Lighting         contact:       10.63 kg CO2e         Introducted Carbon Results with Mol-Level TM65 Calculation' Method Total         1       10.63 kg CO2e         Troduct Information         10.2       3       4       5       6       7       8       0       10       12       13       14       15       16       17       18       19       20       21       22       2	States: Lighting           Scates: Lighting           Scate: Lighting </th <th></th>		
ter i 19/12/2024 sessor/Crganisation: <u>sales@mikestoanelighting_com</u> rhotet <u>sales@mikestoanelighting_com</u> rhoted Carbon Results with 'Md-Level TM65 Calculation' Method Total <b>10.63 kg CO2e</b> Total Lfe (25 year) Enchoded Carbon (kgCO <sub>2</sub> e) <b>1</b> <u>10.58</u> <u>0.04</u> <u>2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</u> year product lfe <b>3</b> <b>3</b> <b>3</b> <b>4</b> <u>5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</u> year product lfe <b>3</b> <b>3</b> <b>4</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b>	laterial Breaktown for at least 95% of the product weight. Breakdown 100.00% Graphicature 27.26 kWh Graphicature 2	balance in the sense of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 85% of the product weight. Breakdown for a feast 95% of the product weight for th	tek: 19122224 Seesor Cigarisation: Serve Liphing seesor Cigarisation: Serve Liphing seesor Cigarisation: Serve Liphing setored Carbon Results with Mid-Level TMS Calculation: Method Total 10.03 kg CO2e rough Life (25 year) Embodied Carbon (kgCO,e) Trist Build 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 year product Me Setored Trist Build 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 year product Me Setored Trist Build 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 year product Me Setored Trist Build 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 year product Me Setored Trist Build 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 year product Me Setored Trist Build 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 year product Me Setored Trist Build 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 year product Me Setored Trist Build 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 year product Me Setored Trist Build 1 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 year product Me Setored Trist Build 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
ntact         sakes@mikestoanelighting.com           http://discupre/sectoanelighting.com         10.63 kg CO2e           rough Life (25 year) Embodied Carbon (kgCO <sub>2</sub> e)	Contact         sales@mikestoanelighting.com           inhoded Carbon Results with 'Md-Level TM65 Calculation' Method Total         10.63 kg CO2e           frind         10.63 kg CO2e           frind         10.58           1 2 3 4 5 6 7 8 0 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25           S year product life             Todact Information           year product life             Todact Information           Todact Information           Todact Information           Todact Complexity             A 1 for point             Todact Information             Todact Information             Todact Information             Todact Complexity             Todact Complexity             Todact Complexity             Todact Stress             Todact Information             Todact Complexity             Materialis by % of Product Weight	Contact         seles@crkeetsomeligiting.com           initiation         0.03 kg CO2e           hrough Life (25 year) Embodied Carbon (kgCO,e)                  1 0.2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25            I's year product life                  Yould              0.04                   Yould              0.01 1 12 13 14 15 16 17 18 19 20 21 22 23 24 25              I'g and Product              0.04              Yould              0.04              Yould               Yould               Yould               Yould               Yould           Yould               Yould           Yould               Yould           Yould               Yould           Yould           Yould               Yould           Yould           Yould             Yould	Instact         sakes@mikestoanelighting.com           hcodied Carbon Results with Md-Level TM85 Catculation Method Total         1083 kg CO2e           rough Life (25 year) Embodied Carbon (kgCO <sub>2</sub> e)         Prost Build         0.04           2         3         4         6         7         8         9         10         11         12         13         14         15         16         17         18         19         20         21         22         23         24         25           year product We         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.05         0.05         0.07         0.04         0.05         0.04         0.05         0.05         0.07         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.05         0.04         0.04         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05	
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First Build 10.8       Repair 0.4         2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25         year product life             odd       Out	First Build 10.58         Repair 0.04           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           System product life             Information         Luminaires           Toduct Modult         0.417 kg           Isterial Breakdown for at least 95% of the product weight. Breakdown         100.00%         3.348476182 (Page 2002)           Si Metrials Breakdown for at least 95% of the product weight. Breakdown         100.00%         3.417 kg           Si Metrials at product or oppin         0.044 kgCO202         7.26 kWh           Category 2         Category 2         Category 2	Product       Repair         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         try per of Product         roduct Information         Unrindires         Odd Wright         Address des 5% of the product weight. Breakdown         Odd Wright         Address des 5% of the product weight. Breakdown         Odd Wright         Odd Wright         Statemice Tepair         Odd Wright         Statemice Tepair         Odd Wright         Networks of Product Weight         Naterials by % of Product Weight         Staterials by % of Product Weight         Staterials         Staterials by % of Product Weight         Staterials by % of Product Weight         Staterials         Staterials         Staterials <td colsp<="" td=""><td>Regain 0.04         2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25         year product life</td></td>	<td>Regain 0.04         2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25         year product life</td>	Regain 0.04         2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25         year product life
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70%       60%       53.29%	70%	70%         60%         53.29%         50%         40%         30%         20%         10%         0.77%       5.68%         0.05%       2.71%         0.38%       0.05%         9.56%         9.56%         9.56%         9.56%         9.56%         9.56%         9.56%         0.77%       9.56%         9.56%         0.77%       9.56%         9.56%         0.05%       2.71%         0.38%       0.05%         Aluminium       Aluminium	70%         53.29%           50%         53.29%           50%         22.84%           20%         22.84%           10%         22.84%           0.77%         5.68%         0.05%           0.77%         0.05%         2.71%           0.38%         0.05%         Aluminium           Brass         Copper         Plastics           Printed circuit         Stainless steel         Steel (general	
60%     53.29%       50%	60% 53.29%	60%       53.29%         50%       50%         40%       22.84%         20%       22.84%         10%       22.84%         0.77%       5.68%       0.05%         0.77%       0.05%       2.71%         0.88%       0.05%       0.05%         Brass       Copper       Plastics         Printed circuit       Stailess steel Steel (general Nylon 6,6       Aluminium	50% 50% 40% 30% 20% 10% 0.77% 4.67% 5.68% 0.05% 2.71% 0.38% 0.05% 2.71% 0.38% 0.05% 4.07% 4.67% 5.68% 0.05% 2.71% 0.38% 0.05% 4.07% 4.07% 4.67% 5.68% 0.05% 4.07% 5.68% 0.05% 4.07% 5.68% 0.05% 5.05% 4.07% 5.68% 0.05% 5.05%	
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50%	50%	50%         40%           30%         22.84%           20%         9.56%           10%         0.77%         5.68%         0.05%         2.71%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium	50%         40%           30%         22.84%           20%         9.56%           10%         4.67%         5.68%         0.05%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium	
40%	40%	30%         22.84%           20%         9.56%           10%         0.77%         5.68%         0.05%         2.71%         0.38%         0.05%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic, 10%)	30%         22.84%           20%         9.56%           10%         0.77%         5.68%         0.05%         9.56%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic,	
4070		20%         22.84%           10%         4.67%         5.68%         9.56%           0.77%         0.05%         2.71%         0.38%         0.05%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium	20% 10% 4.67% 5.68% 0.05% 2.71% 0.38% 0.05% 9.56% Brass Copper Plastics Printed circuit Stainless steel Steel (general Nylon 6,6 Aluminium Aluminium PMMA (acrylic,	
30% 22.84%	30%	20%         9.56%           10%         4.67%         5.68%         0.05%         2.71%         0.38%         0.05%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic,	20%         9.56%           10%         4.67%         5.68%         0.05%         9.56%           0.77%         0.05%         2.71%         0.38%         0.05%         9.56%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic, 100%)	
20%	22.84%	10%         4.67%         5.68%         2.71%         0.38%         0.05%           Brass         Copper         Plastics         Printed circuit         Stalless steel (general         Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic,	10%     4.67%     5.68%     2.71%     0.38%     0.05%       Brass     Copper     Plastics     Printed circuit Stainless steel Steel (general Nylon 6,6     Aluminium     Aluminium	
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(general) board mixed or galvanised) Ingot from old primary ingot plexiglass)	20% 10% 4.67% 5.68% 2.71% 0.38% 0.05% 9.56% Brass Copper Plastics (general Nylon 6.6 Aluminium primary ingot PMMA (acrylic, pekiglass))			
(general) board mixed or galvanised) Ingot from old primary ingot plexiglass)	20% 10% 4.67% 5.68% 2.71% 0.38% 0.05% 9.56% Brass Copper Plastics (general Nylon 6.6 Aluminium primary ingot PMMA (acrylic, pekiglass))			
(general) board mixed or galvanised) Ingot from old primary ingot plexiglass)	20% 10% 4.67% 5.68% 2.71% 0.38% 0.05% 9.56% Brass Copper Plastics (general Nylon 6.6 Aluminium primary ingot PMMA (acrylic, pekiglass))			
30% 22.84%	30%	10%         4.67%         5.68%         2.71%         0.38%         0.05%         9.56%           Brass         Copper         Plastics         Printed circuit         Stailess steel (general         Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic,	10%         4.67%         5.68%         2.71%         0.38%         0.05%         9.56%           Brass         Copper         Plastics         Printed circuit         Stainless steel         Steel (general         Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic,	
30% 22.84%	30%	20%         9.56%           10%         4.67%         5.68%         0.05%         2.71%         0.38%         0.05%           Brass         Copper         Plastics         Printed circuit         Stalless steel (general         Nylon 6,6         Aluminium         Aluminium	20%         9.56%           10%         4.67%         5.68%         0.05%         9.56%           0.77%         0.05%         2.71%         0.38%         0.05%         9.56%           Brass         Copper         Plastics         Printed circuit Stainless steel Steel (general Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic,	
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	22.84%	10%         4.67%         5.68%         2.71%         0.38%         0.05%           Brass         Copper         Plastics         Printed circuit         Stalless steel (general         Nylon 6,6         Aluminium         Aluminium         PMMA (acrylic,	10%     4.67%     5.68%     2.71%     0.38%     0.05%       Brass     Copper     Plastics     Printed circuit Stainless steel Steel (general Nylon 6,6     Aluminium     Aluminium	
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	20%			

## **STOANE** LIGHTING

## EQUIPMENT DESIGN + MANUFACTURE

TM65.2 Lighting Calculation: Luminaire

## ZTA.50 Pole Clamp

## CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material Extraction	2.143
A2: Transport	0.165
A3: Manufacturing	3.872
A4: Transport to Site	0.017
B3: Repair	0.034
C2: Transport	0.006
C3: Waste Processing	1.936
C4: Disposal	0.002
Embodied Carbon Results (kg CO <sub>2</sub> e)	
A1-C4	8.17
A1-C4 with Buffer Factor	10.63
Assumptions	
A1: Material carbon coefficient source	TM65, Table 2.1; TM65.2 Table 9
C4 Percentage of product going to landfill(%)	55% - TM65 Table 4.14

This report was generated using the CIBSE TM65 Manufacturers form 'beta' version V1.3. Released in August 2023

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 calcualted based on light source and control gear replacement once in the 25 year product life

Regional variations of the TM65 methodology are being developed; please contact us if there is a requirement for a speific regional assessment where such a local addendum exists. For more inoformation please contact us via our website shown below.



This report was produced using the CIBSE documents; TM65 Embodied Carbon of MEP Products - June 2021 TM65.2 Lighting - August 2023

www.stoanelighting.com