

This appendix refers to the EPD MD-20037-EN, developed according to EN15804+A2:2019.

Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

Product 1: August

| ENVIRONMENTAL IMPACTS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|-----------|-----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | 3,11E+01 | 1,16E+02 | 0,00E+00 | 1,89E-04 | 1,89E-03 | 0,00E+00 | -6,58E+00 |
| ODP | [kg CFC11-eq.] | 2,62E-06 | 4,08E-12 | 0,00E+00 | 4,69E-20 | 4,69E-19 | 0,00E+00 | -1,81E-07 |
| AP | [kg SO ₂ -eq.] | 1,96E-01 | 1,34E-01 | 0,00E+00 | 1,65E-07 | 1,65E-06 | 0,00E+00 | -3,12E-02 |
| EP | [kg PO ₄ ³⁻ -eq.] | 1,38E-01 | 2,66E-02 | 0,00E+00 | 3,07E-08 | 3,07E-07 | 0,00E+00 | -3,71E-03 |
| POCP | [kg ethene-eq.] | 1,76E-02 | 1,31E-02 | 0,00E+00 | -2,31E-09 | -2,31E-08 | 0,00E+00 | -2,33E-03 |
| ADPE | [kg Sb-eq.] | 1,31E-02 | 5,01E-05 | 0,00E+00 | 1,55E-11 | 1,55E-10 | 0,00E+00 | -7,55E-05 |
| ADPF | [MJ] | 4,68E+02 | 1,15E+03 | 0,00E+00 | 2,56E-03 | 2,56E-02 | 0,00E+00 | -7,56E+01 |
| Caption | GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources | | | | | | | |

| RESOURCE USE PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| PERE | [MJ] | 5,42E+01 | 2,04E+03 | 0,00E+00 | 1,48E-04 | 1,48E-03 | 0,00E+00 | -8,49E+00 |
| PERM | [MJ] | 3,80E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 9,22E+01 | 2,04E+03 | 0,00E+00 | 1,48E-04 | 1,48E-03 | 0,00E+00 | -8,49E+00 |
| PENRE | [MJ] | 5,24E+02 | 1,33E+03 | 0,00E+00 | 2,57E-03 | 2,57E-02 | 0,00E+00 | -8,11E+01 |
| PENRM | [MJ] | 3,81E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 5,28E+02 | 1,33E+03 | 0,00E+00 | 2,57E-03 | 2,57E-02 | 0,00E+00 | -8,11E+01 |
| SM | [kg] | 8,10E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| RSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| NRSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 3,28E-01 | 9,11E-01 | 0,00E+00 | 1,73E-07 | 1,73E-06 | 0,00E+00 | -5,56E-02 |
| Caption | PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| HWD | [kg] | 1,56E-06 | 2,09E-06 | 0,00E+00 | 1,19E-10 | 1,19E-09 | 0,00E+00 | -1,15E-06 |
| NHWD | [kg] | 9,07E-01 | 4,37E+00 | 0,00E+00 | 4,07E-07 | 4,07E-06 | 0,00E+00 | -8,49E-01 |
| RWD | [kg] | 1,98E-03 | 7,32E-02 | 0,00E+00 | 4,74E-09 | 4,74E-08 | 0,00E+00 | -1,06E-03 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,48E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,26E-01 | 0,00E+00 | 0,00E+00 |
| MER | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Caption | HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy | | | | | | | |

Product 2: Natural History – ReUse

| ENVIRONMENTAL IMPACTS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|-----------|-----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | 3,43E+01 | 2,89E+02 | 0,00E+00 | 2,95E-04 | 2,95E-03 | 0,00E+00 | -3,21E+00 |
| ODP | [kg CFC11-eq.] | 2,76E-06 | 1,02E-11 | 0,00E+00 | 7,34E-20 | 7,34E-19 | 0,00E+00 | -4,01E-08 |
| AP | [kg SO ₂ -eq.] | 2,15E-01 | 3,34E-01 | 0,00E+00 | 2,57E-07 | 2,57E-06 | 0,00E+00 | -1,36E-02 |
| EP | [kg PO ₄ ³⁻ -eq.] | 1,51E-01 | 6,65E-02 | 0,00E+00 | 4,80E-08 | 4,80E-07 | 0,00E+00 | -1,32E-03 |
| POCP | [kg ethene-eq.] | 2,09E-02 | 3,26E-02 | 0,00E+00 | -3,61E-09 | -3,61E-08 | 0,00E+00 | -8,60E-04 |
| ADPE | [kg Sb-eq.] | 1,32E-02 | 1,25E-04 | 0,00E+00 | 2,43E-11 | 2,43E-10 | 0,00E+00 | -1,23E-05 |
| ADPF | [MJ] | 5,18E+02 | 2,88E+03 | 0,00E+00 | 4,00E-03 | 4,00E-02 | 0,00E+00 | -3,69E+01 |
| Caption | GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources | | | | | | | |

| RESOURCE USE PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| PERE | [MJ] | 7,11E+01 | 5,09E+03 | 0,00E+00 | 2,32E-04 | 2,32E-03 | 0,00E+00 | -1,64E+01 |
| PERM | [MJ] | 4,06E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 1,12E+02 | 5,09E+03 | 0,00E+00 | 2,32E-04 | 2,32E-03 | 0,00E+00 | -1,64E+01 |
| PENRE | [MJ] | 5,91E+02 | 3,32E+03 | 0,00E+00 | 4,02E-03 | 4,02E-02 | 0,00E+00 | -4,32E+01 |
| PENRM | [MJ] | 4,18E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 5,91E+02 | 3,32E+03 | 0,00E+00 | 4,02E-03 | 4,02E-02 | 0,00E+00 | -4,32E+01 |
| SM | [kg] | 7,65E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| RSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| NRSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 3,79E-01 | 2,28E+00 | 0,00E+00 | 2,70E-07 | 2,70E-06 | 0,00E+00 | -4,26E-02 |
| Caption | PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| HWD | [kg] | 1,21E-06 | 5,21E-06 | 0,00E+00 | 1,86E-10 | 1,86E-09 | 0,00E+00 | -7,29E-07 |
| NHWD | [kg] | 1,05E+00 | 1,09E+01 | 0,00E+00 | 6,37E-07 | 6,37E-06 | 0,00E+00 | -7,95E-01 |
| RWD | [kg] | 3,33E-03 | 1,83E-01 | 0,00E+00 | 7,41E-09 | 7,41E-08 | 0,00E+00 | -2,32E-03 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 7,96E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,97E-01 | 0,00E+00 | 0,00E+00 |
| MER | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Caption | HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy | | | | | | | |

Product 3: Unnatural History – painted and new diffuser

| ENVIRONMENTAL IMPACTS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|-----------|-----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | 4,23E+01 | 2,57E+02 | 0,00E+00 | 2,95E-04 | 2,95E-03 | 0,00E+00 | 1,11E+01 |
| ODP | [kg CFC11-eq.] | 3,85E-06 | 9,08E-12 | 0,00E+00 | 7,34E-20 | 7,34E-19 | 0,00E+00 | -1,14E-06 |
| AP | [kg SO ₂ -eq.] | 2,42E-01 | 2,97E-01 | 0,00E+00 | 2,57E-07 | 2,57E-06 | 0,00E+00 | -4,08E-02 |
| EP | [kg PO ₄ ³⁻ -eq.] | 1,64E-01 | 5,91E-02 | 0,00E+00 | 4,80E-08 | 4,80E-07 | 0,00E+00 | -1,46E-02 |
| POCP | [kg ethene-eq.] | 2,35E-02 | 2,90E-02 | 0,00E+00 | -3,61E-09 | -3,61E-08 | 0,00E+00 | -3,41E-03 |
| ADPE | [kg Sb-eq.] | 1,33E-02 | 1,11E-04 | 0,00E+00 | 2,43E-11 | 2,43E-10 | 0,00E+00 | -9,53E-05 |
| ADPF | [MJ] | 6,60E+02 | 2,56E+03 | 0,00E+00 | 4,00E-03 | 4,00E-02 | 0,00E+00 | 1,79E+02 |
| Caption | GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources | | | | | | | |

| RESOURCE USE PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| PERE | [MJ] | 8,10E+01 | 4,52E+03 | 0,00E+00 | 2,32E-04 | 2,32E-03 | 0,00E+00 | 2,63E+01 |
| PERM | [MJ] | 4,06E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 1,22E+02 | 4,52E+03 | 0,00E+00 | 2,32E-04 | 2,32E-03 | 0,00E+00 | 2,63E+01 |
| PENRE | [MJ] | 7,45E+02 | 2,96E+03 | 0,00E+00 | 4,02E-03 | 4,02E-02 | 0,00E+00 | 2,05E+02 |
| PENRM | [MJ] | 7,60E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 7,53E+02 | 2,96E+03 | 0,00E+00 | 4,02E-03 | 4,02E-02 | 0,00E+00 | 2,05E+02 |
| SM | [kg] | 7,65E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| RSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| NRSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 6,11E-01 | 2,03E+00 | 0,00E+00 | 2,70E-07 | 2,70E-06 | 0,00E+00 | -2,75E-01 |
| Caption | PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| HWD | [kg] | 1,22E-06 | 4,64E-06 | 0,00E+00 | 1,86E-10 | 1,86E-09 | 0,00E+00 | -7,36E-07 |
| NHWD | [kg] | 1,07E+00 | 9,70E+00 | 0,00E+00 | 6,37E-07 | 6,37E-06 | 0,00E+00 | -8,13E-01 |
| RWD | [kg] | 4,00E-03 | 1,63E-01 | 0,00E+00 | 7,41E-09 | 7,41E-08 | 0,00E+00 | -2,99E-03 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 8,48E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,97E-01 | 0,00E+00 | 0,00E+00 |
| MER | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Caption | HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy | | | | | | | |

Product 4: VENUS

| ENVIRONMENTAL IMPACTS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|-----------|-----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | 4,84E+01 | 2,57E+02 | 0,00E+00 | 8,69E-04 | 8,69E-03 | 0,00E+00 | -6,04E+00 |
| ODP | [kg CFC11-eq.] | 2,96E-06 | 9,08E-12 | 0,00E+00 | 2,16E-19 | 2,16E-18 | 0,00E+00 | -1,60E-08 |
| AP | [kg SO ₂ -eq.] | 2,81E-01 | 2,97E-01 | 0,00E+00 | 7,58E-07 | 7,58E-06 | 0,00E+00 | -1,83E-02 |
| EP | [kg PO ₄ ³⁻ -eq.] | 1,67E-01 | 5,91E-02 | 0,00E+00 | 1,41E-07 | 1,41E-06 | 0,00E+00 | -3,51E-03 |
| POCP | [kg ethene-eq.] | 2,79E-02 | 2,90E-02 | 0,00E+00 | -1,06E-08 | -1,06E-07 | 0,00E+00 | -1,53E-03 |
| ADPE | [kg Sb-eq.] | 1,34E-02 | 1,11E-04 | 0,00E+00 | 7,16E-11 | 7,16E-10 | 0,00E+00 | -1,64E-05 |
| ADPF | [MJ] | 7,82E+02 | 2,56E+03 | 0,00E+00 | 1,18E-02 | 1,18E-01 | 0,00E+00 | -1,69E+02 |
| Caption | GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources | | | | | | | |

| RESOURCE USE PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| PERE | [MJ] | 7,76E+01 | 4,52E+03 | 0,00E+00 | 6,82E-04 | 6,82E-03 | 0,00E+00 | -1,13E+01 |
| PERM | [MJ] | 4,75E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 1,25E+02 | 4,52E+03 | 0,00E+00 | 6,82E-04 | 6,82E-03 | 0,00E+00 | -1,13E+01 |
| PENRE | [MJ] | 8,35E+02 | 2,96E+03 | 0,00E+00 | 1,18E-02 | 1,18E-01 | 0,00E+00 | -1,83E+02 |
| PENRM | [MJ] | 3,67E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 8,72E+02 | 2,96E+03 | 0,00E+00 | 1,18E-02 | 1,18E-01 | 0,00E+00 | -1,83E+02 |
| SM | [kg] | 3,91E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| RSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| NRSF | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 1,20E+00 | 2,03E+00 | 0,00E+00 | 7,95E-07 | 7,95E-06 | 0,00E+00 | -7,87E-01 |
| Caption | PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER 1 PIECE OF LIGHTING SYSTEM USED FOR 15 YEARS | | | | | | | | |
|--|---|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | B6 | C1 | C2 | C3 | C4 | D |
| HWD | [kg] | 2,35E-06 | 4,64E-06 | 0,00E+00 | 5,48E-10 | 5,48E-09 | 0,00E+00 | -1,81E-06 |
| NHWD | [kg] | 1,72E+00 | 9,70E+00 | 0,00E+00 | 1,88E-06 | 1,88E-05 | 0,00E+00 | -9,34E-02 |
| RWD | [kg] | 4,69E-03 | 1,63E-01 | 0,00E+00 | 2,18E-08 | 2,18E-07 | 0,00E+00 | -3,34E-03 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 5,47E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 5,80E-01 | 0,00E+00 | 0,00E+00 |
| MER | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Caption | HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy | | | | | | | |

Checked and approved by



 Linda Høiby
 Third party verifier of MD-20037-EN



 Henrik Fred Larsen
 EPD Danmark