**Appendix I: Economic analysis of efficient lighting (CFL for T2 building class)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **CP** | **OC** | **TC** | **DC** | **TB** | **DB** | **NCF** | **NPV** |
| 0 | 59.64 |  | 59.64 | 59.64 | 0 | 0 | -59.64 | -59.64 |
| 1 |  | 7.88 | 7.88 | 7.51 | 39.42 | 37.54 | 31.54 | 30.03 |
| 2 |  | 7.88 | 7.88 | 7.15 | 39.42 | 35.76 | 31.54 | 28.60 |
| 3 |  | 7.88 | 7.88 | 6.81 | 39.42 | 34.05 | 31.54 | 27.24 |
| 4 |  | 7.88 | 7.88 | 6.49 | 39.42 | 32.43 | 31.54 | 25.94 |
| 5 |  | 7.88 | 7.88 | 6.18 | 39.42 | 30.89 | 31.54 | 24.71 |
| 6 |  | 7.88 | 7.88 | 5.88 | 39.42 | 29.42 | 31.54 | 23.53 |
| 7 |  | 7.88 | 7.88 | 5.60 | 39.42 | 28.02 | 31.54 | 22.41 |
| 8 |  | 7.88 | 7.88 | 5.34 | 39.42 | 26.68 | 31.54 | 21.34 |
| 9 |  | 7.88 | 7.88 | 5.08 | 39.42 | 25.41 | 31.54 | 20.33 |
| 10 |  | 7.88 | 7.88 | 4.84 | 39.42 | 24.20 | 31.54 | 19.36 |
| 11 |  | 7.88 | 7.88 | 4.61 | 39.42 | 23.05 | 31.54 | 18.44 |
| 12 |  | 7.88 | 7.88 | 4.39 | 39.42 | 21.95 | 31.54 | 17.56 |
| 13 |  | 7.88 | 7.88 | 4.18 | 39.42 | 20.91 | 31.54 | 16.72 |
| 14 |  | 7.88 | 7.88 | 3.98 | 39.42 | 19.91 | 31.54 | 15.93 |
| 15 |  | 7.88 | 7.88 | 3.79 | 39.42 | 18.96 | 31.54 | 15.17 |
| 16 |  | 7.88 | 7.88 | 3.61 | 39.42 | 18.06 | 31.54 | 14.45 |
| 17 |  | 7.88 | 7.88 | 3.44 | 39.42 | 17.20 | 31.54 | 13.76 |
| 18 |  | 7.88 | 7.88 | 3.28 | 39.42 | 16.38 | 31.54 | 13.10 |
| 19 |  | 7.88 | 7.88 | 3.12 | 39.42 | 15.60 | 31.54 | 12.48 |
| 20 |  | 7.88 | 7.88 | 2.97 | 39.42 | 14.86 | 31.54 | 11.89 |
| 21 |  | 7.88 | 7.88 | 2.83 | 39.42 | 14.15 | 31.54 | 11.32 |
| 22 |  | 7.88 | 7.88 | 2.70 | 39.42 | 13.48 | 31.54 | 10.78 |
| **Total** | **59.64** | **173.45** | **233.09** | **163.42** | **867.24** | **518.89** | **634.15** | **355.47** |
| **NPV** | | | | | | | | **338.54** |
| **BCR (Total DB/Total DC)** | | | | | | | | **3.18** |

Where:

CP: capital cost

OC: operation cost

TC: total cost

DC: discounted cost

DB: discounted benefit

NCF: net cash flow

NPV: net present value