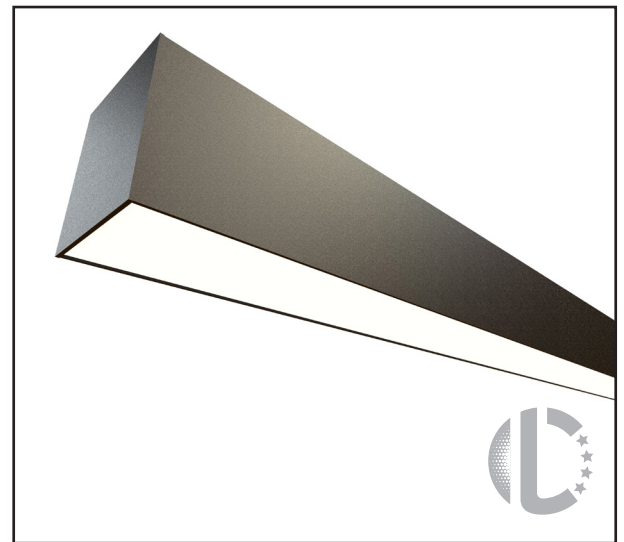
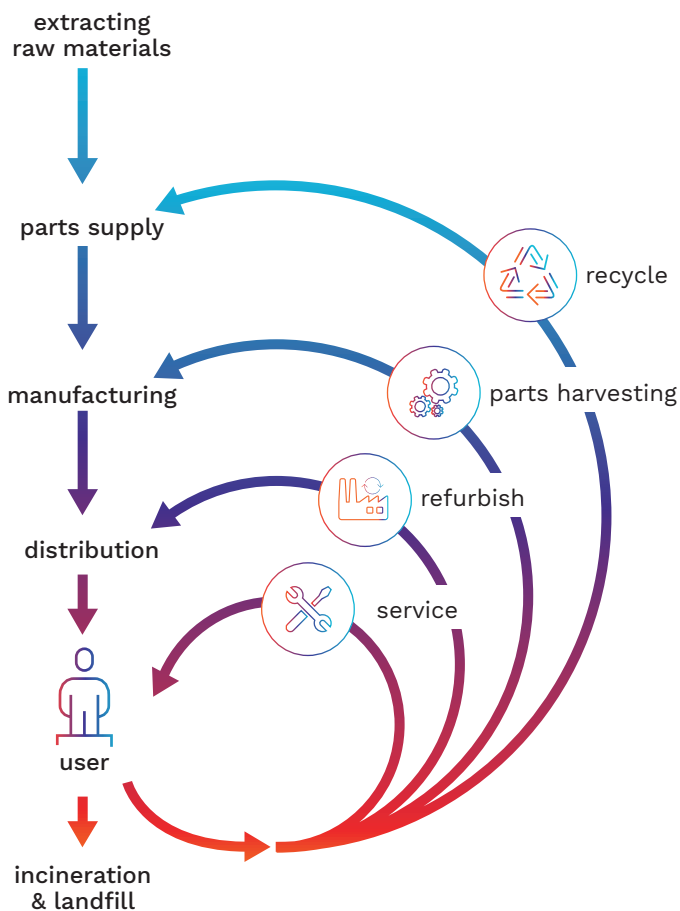




## PASSPORT



## GREENSTAR 3

Circularity focuses on reducing the environmental burden by valorising the flow of all materials. It is mainly defined in opposition to the traditional linear economy: take, make and dispose. In a circular economy, products are part of a value network where they will be used for as long as possible.

Then, depending on their characteristics, they can be reused, refurbished, upgraded or recycled. Schröder takes circular economy into account, right from the offset. Before we start to design our products, we incorporate it into their DNA.

After a careful analysis of the potential circularity of our luminaires, we decided to introduce a “circular lighting” product label. This label acts as a circular indicator for our customers.

It clearly designates products that are optimised for circular economy through 12 objective criteria.

### Circular highlights:







- Modularity in design – future ready for replaceable LED engine




- Luminaire body is made with high-grade aluminium which is 100% recyclable

POINTS 0 5 10 TOTAL

## LONG-LASTING, LONG USE

|  |   |                                      |  |   |   |  |
|--|---|--------------------------------------|--|---|---|--|
| <div>PERFORMANCE</div> <div></div>                  | Luminary efficacy <sup>(1)</sup>  | x < 115lm/w                          | 115 lm/w < x < 130lm/w   | x> 130 lm/w   | 10  |  |
|  | Rated life of the LEDs  | X < L80 B10/100,000h                 | L80 B10/100,000h < x < L90 B10/100,000h                            | L90 B10/100,000h < x  | 10  |  |
|  | Mechanical <sup>(2)</sup>   | Level 1                              | Level 2  | Level 3   | 5   |  |
|  | Energy adaptation   | No control solution                  | Dimmable   | Dynamic   | 10  |  |
|  | Smart ready <sup>(3)</sup>  | Not available                        | Proprietary smart solution ready                                   | Open smart solution ready   | 5   |  |
| <div>MAINTENANCE</div> <div></div>                | PARTS WITHDRAWAL <sup>(4)</sup>   | Armature opening                     | Fixed  | Specific tools  | Specific tools  | 10                                       |
|  |   | Optical bloc                         | Fixed  | Specific tools  | Basic tools   |  |
|  |   | Gear plate (driver, SPD, smart, ...) | Fixed  | Basic tools   | Tool free   |  |
|  | INFO AVAILABILITY   | Product sheet                        | In the box   | On the website  | On smart tag  | 5  |
|  |   | Installation sheet                   | In the box   | On the website  | On smart tag  |  |
|  |   | Asset data sheet                     | In the box   | On the website  | On smart tag  |  |
|  | <div>REFURBISH</div> <div></div> | SPARE PARTS                          | Availability <sup>(4)</sup>  | Product warranty  | Announced end of life   | 10 years after the announced end of life |
| UPGRADE  |   | Mechanical fixation method           | Directly to the mold (only one mechanical fixation method allowed) | Use of a gear plate for some functional parts (allow different fixation method) | Use of a module for all the functional parts (allow different fixation method ) | 10                                       |
| <div>NONDESTRUCTIVE DISASSEMBLY</div> <div></div> |   | Dissassembly depth                   | > 9  | 9 ≤ x < 7   | ≤ 7   | 10                                       |

## END OF LIFE

|   |                                       |                               |                                   |   |     |
|---|---------------------------------------|-------------------------------|-----------------------------------|---|-----|
| <b>RECYCLE</b><br> | Material separability                 | Not separable                 | /                                 | All materials   | 10  |
|   | Material compatibility with recycling | Less than 90% of product mass | Between 90% - 95% of product mass | Over 95% of the product mass (90% for products with no paint) | 10  |
|   |                                       |                               |                                   |   | 100 |

Remarks:

- (1) The luminaire's efficacy is the ratio between the output flux (F) and the consumed power (P). This measurement is carried out at 500mA with the maximum number of LEDs. When this configuration is not available, the variant with the maximum number of LEDs and highest current will be measured.
- (2) The mechanical criteria takes into account the IP and IK level of the luminaire. Our criteria is as follows:

| LEVEL 1 | LEVEL 2  | LEVEL 3   |
|---------|--|---|
| NA      | Any luminaire with an IK level equal or below IK 02.<br>Or any luminaire with an IP level equal or below IP 20 | Or any luminaire with an IP level equal or below IP 20 plus increased flammability resistance |

- (3) A luminaire is considered smart ready if it can integrate an IoT solution. An open smart solution is a Nema or Zagha (ZD4I) socket.
- (4) The replacement parts should be the same as the originals, but if this is not possible, equivalent spare parts that perform the same function to the same or higher performance level may be used.



The product obtained a score between 0 and 30

It was designed to be cost-efficient



The product obtained a score between 30 and 60

It was built to last but not with circular economy requirements



The product obtained a score between 60 and 90

It was developed to meet most of circular economy requirements



The product obtained a score between 90 and 120

It was developed to fully meet circular economy requirements