

## Photometric test report

**Family**  
**Licross® 21 Recessed**

**Order number: 52TL1ECN48XG**  
**EAN: 4058352891643**

**LP number**  
**59263\_121**



**Version** cover frosted, elliptical narrow distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-Multilumen CLOi  
**Rated values** Net luminous flux = 8020 lm  
 Power consumption = 44.4 W  
 Luminous efficacy = 180.6 lm/W

**serial**  
**documentation**  
**17.08.2023**

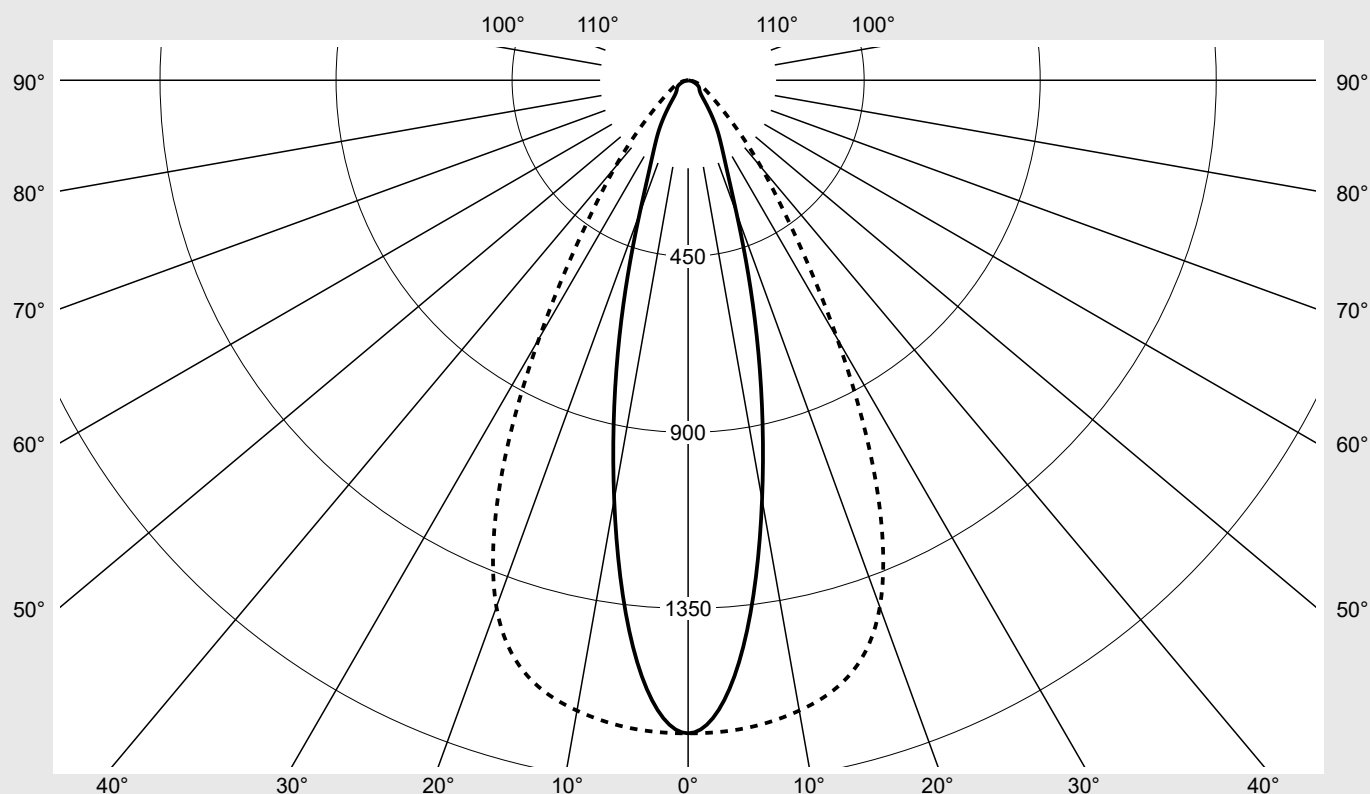
**siteco**

**Luminous intensity in cd/klm**

**C180-0**

**C270-90**

**Imax: 1670 cd/klm**



### Classifications

DIN 5040 A 7 0  
 CIE N1=85 N2=95 N3=99  
 N4=100 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  0.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Licross® 21 Recessed           | Order number: 52TL1ECN48XG<br>EAN: 4058352891643 | LP number<br>59263_121     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 0°<br>180°                   | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |                             |                             |                             |                             |                             |             | Luminous flux in lm/klm |                   |
| 0°           | 1669.5                       | 1669.5                      | 1669.5                      | 1669.5                      | 1669.5                      | 1669.5                      | 1669.5      | 10.0                    | 10.0              |
| 5°           | 1493.3                       | 1495.6                      | 1516.6                      | 1565.9                      | 1616.3                      | 1649.8                      | 1662.9      | 75.0                    | 85.0              |
| 10°          | 1088.5                       | 1106.7                      | 1175.0                      | 1303.4                      | 1460.6                      | 1586.1                      | 1636.2      | 126.8                   | 211.8             |
| 15°          | 678.3                        | 712.7                       | 825.0                       | 1006.5                      | 1239.9                      | 1474.8                      | 1578.7      | 151.0                   | 362.9             |
| 20°          | 362.1                        | 388.9                       | 492.0                       | 707.6                       | 980.6                       | 1275.8                      | 1432.9      | 148.2                   | 511.0             |
| 25°          | 217.8                        | 231.1                       | 285.8                       | 436.7                       | 705.9                       | 972.9                       | 1137.5      | 127.8                   | 638.8             |
| 30°          | 151.3                        | 158.5                       | 185.3                       | 264.1                       | 455.8                       | 646.3                       | 761.7       | 99.0                    | 737.8             |
| 35°          | 95.4                         | 107.0                       | 131.3                       | 171.8                       | 268.4                       | 391.1                       | 463.8       | 70.7                    | 808.5             |
| 40°          | 57.7                         | 64.5                        | 93.9                        | 120.6                       | 157.9                       | 239.7                       | 291.4       | 50.0                    | 858.5             |
| 45°          | 43.5                         | 45.9                        | 58.2                        | 86.3                        | 99.5                        | 145.4                       | 176.9       | 35.2                    | 893.7             |
| 50°          | 37.7                         | 39.0                        | 42.8                        | 61.0                        | 68.3                        | 89.3                        | 109.1       | 26.2                    | 919.9             |
| 55°          | 34.6                         | 35.0                        | 36.7                        | 43.5                        | 50.5                        | 59.6                        | 73.7        | 20.9                    | 940.8             |
| 60°          | 30.2                         | 31.1                        | 32.8                        | 34.2                        | 38.6                        | 42.0                        | 53.5        | 17.5                    | 958.3             |
| 65°          | 23.9                         | 25.4                        | 29.1                        | 28.1                        | 30.1                        | 30.8                        | 41.3        | 14.6                    | 972.8             |
| 70°          | 17.0                         | 18.4                        | 22.5                        | 23.3                        | 23.4                        | 22.7                        | 30.8        | 11.5                    | 984.3             |
| 75°          | 10.9                         | 12.0                        | 16.2                        | 17.9                        | 17.4                        | 15.7                        | 20.7        | 8.4                     | 992.7             |
| 80°          | 6.2                          | 6.7                         | 9.0                         | 10.7                        | 11.0                        | 9.3                         | 11.6        | 5.0                     | 997.7             |
| 85°          | 3.1                          | 3.3                         | 4.2                         | 5.0                         | 4.8                         | 3.9                         | 4.2         | 2.3                     | 1000.0            |
| 90°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 95°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 100°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 105°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 110°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 115°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 120°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 125°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 130°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 135°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 140°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 145°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 150°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 155°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 160°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 165°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 170°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 175°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 180°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |

Photometric test report

|                                |                                                  |                        |
|--------------------------------|--------------------------------------------------|------------------------|
| Family<br>Licross® 21 Recessed | Order number: 52TL1ECN48XG<br>EAN: 4058352891643 | LP number<br>59263_121 |
|--------------------------------|--------------------------------------------------|------------------------|

| UGR-Table                    |     | Standard room       |      |      |      |      |                    |      | siteco |      |      |
|------------------------------|-----|---------------------|------|------|------|------|--------------------|------|--------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7                 | 0.5  | 0.5  | 0.3  | 0.7  | 0.7                | 0.5  | 0.5    | 0.3  |      |
| Reflection factor of walls   | 0.5 | 0.3                 | 0.5  | 0.3  | 0.3  | 0.5  | 0.3                | 0.5  | 0.3    | 0.3  |      |
| Reflection factor of floor   | 0.2 | 0.2                 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2                | 0.2  | 0.2    | 0.2  |      |
| Room dimensions              |     | View crosswise (C0) |      |      |      |      | View endwise (C90) |      |        |      |      |
| x                            | y   |                     |      |      |      |      |                    |      |        |      |      |
| 2H                           | 2H  | 14.4                | 15.6 | 14.7 | 15.9 | 16.2 | 19.4               | 20.6 | 19.7   | 20.9 | 21.3 |
|                              | 3H  | 15.6                | 16.6 | 15.9 | 17.0 | 17.3 | 20.0               | 21.0 | 20.4   | 21.4 | 21.7 |
|                              | 4H  | 15.9                | 17.0 | 16.3 | 17.3 | 17.7 | 20.2               | 21.2 | 20.6   | 21.6 | 21.9 |
|                              | 6H  | 16.1                | 17.1 | 16.5 | 17.5 | 17.9 | 20.5               | 21.3 | 20.9   | 21.7 | 22.1 |
|                              | 8H  | 16.3                | 17.1 | 16.8 | 17.5 | 17.9 | 20.6               | 21.4 | 21.0   | 21.7 | 22.1 |
|                              | 12H | 16.4                | 17.1 | 16.8 | 17.5 | 18.0 | 20.6               | 21.3 | 21.1   | 21.7 | 22.1 |
| 4H                           | 2H  | 15.2                | 16.2 | 15.6 | 16.5 | 16.9 | 19.4               | 20.4 | 19.8   | 20.8 | 21.1 |
|                              | 3H  | 16.6                | 17.5 | 17.1 | 17.8 | 18.3 | 20.1               | 20.9 | 20.5   | 21.3 | 21.7 |
|                              | 4H  | 17.1                | 17.9 | 17.6 | 18.3 | 18.7 | 20.5               | 21.2 | 20.9   | 21.6 | 22.1 |
|                              | 6H  | 17.4                | 18.1 | 17.9 | 18.5 | 19.0 | 20.8               | 21.4 | 21.2   | 21.8 | 22.3 |
|                              | 8H  | 17.5                | 18.1 | 18.0 | 18.6 | 19.1 | 20.9               | 21.4 | 21.4   | 21.9 | 22.4 |
|                              | 12H | 17.6                | 18.1 | 18.1 | 18.6 | 19.1 | 21.0               | 21.4 | 21.4   | 21.9 | 22.4 |
| 8H                           | 4H  | 17.6                | 18.2 | 18.1 | 18.6 | 19.1 | 20.6               | 21.1 | 21.0   | 21.6 | 22.1 |
|                              | 6H  | 18.1                | 18.5 | 18.6 | 19.0 | 19.5 | 21.0               | 21.4 | 21.5   | 21.9 | 22.4 |
|                              | 8H  | 18.2                | 18.6 | 18.7 | 19.1 | 19.6 | 21.1               | 21.5 | 21.6   | 22.0 | 22.5 |
|                              | 12H | 18.3                | 18.7 | 18.9 | 19.2 | 19.7 | 21.2               | 21.5 | 21.7   | 22.0 | 22.6 |
| 12H                          | 4H  | 17.7                | 18.1 | 18.2 | 18.6 | 19.1 | 20.5               | 21.1 | 21.0   | 21.5 | 22.0 |
|                              | 6H  | 18.2                | 18.5 | 18.7 | 19.0 | 19.6 | 21.0               | 21.4 | 21.5   | 21.9 | 22.4 |
|                              | 8H  | 18.4                | 18.7 | 18.9 | 19.2 | 19.8 | 21.1               | 21.5 | 21.6   | 22.0 | 22.5 |

| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 1500<br>B = 58          |             |
|-----------------|--------------------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-------------|
| C-planes        | 0°<br>180°         | 15°<br>165°<br>195°<br>345°     | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315°   | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |
| $\gamma$        | Luminance in cd/m² |                                 |                             |                               |                             |                             |             |
| 45°             | 5669.6             | 5980.6                          | 7581.1                      | 11247.9                       | 12976.0                     | 18955.5                     | 23067.3     |
| 50°             | 5412.3             | 5590.2                          | 6137.6                      | 8753.2                        | 9796.7                      | 12811.1                     | 15651.5     |
| 55°             | 5554.7             | 5622.1                          | 5901.6                      | 6987.2                        | 8119.0                      | 9583.0                      | 11848.0     |
| 60°             | 5559.8             | 5742.5                          | 6050.0                      | 6310.4                        | 7115.3                      | 7739.9                      | 9862.2      |
| 65°             | 5219.3             | 5534.7                          | 6351.2                      | 6131.3                        | 6572.1                      | 6713.7                      | 9011.6      |
| 70°             | 4575.8             | 4949.3                          | 6058.7                      | 6285.9                        | 6305.9                      | 6109.4                      | 8309.0      |
| 75°             | 3867.0             | 4277.3                          | 5767.8                      | 6387.2                        | 6202.7                      | 5606.5                      | 7368.8      |
| 80°             | 3266.9             | 3532.9                          | 4781.0                      | 5657.4                        | 5823.6                      | 4930.7                      | 6168.7      |
| 85°             | 3305.3             | 3525.3                          | 4485.7                      | 5317.0                        | 5093.8                      | 4118.7                      | 4413.7      |

Photometric test report

Family  
**Licross® 21 Recessed**

Order number: **52TL1ECN48XG**  
EAN: **4058352891643**

LP number  
**59263\_121**

Luminance values in cd/m²

γ 65°

γ 70°

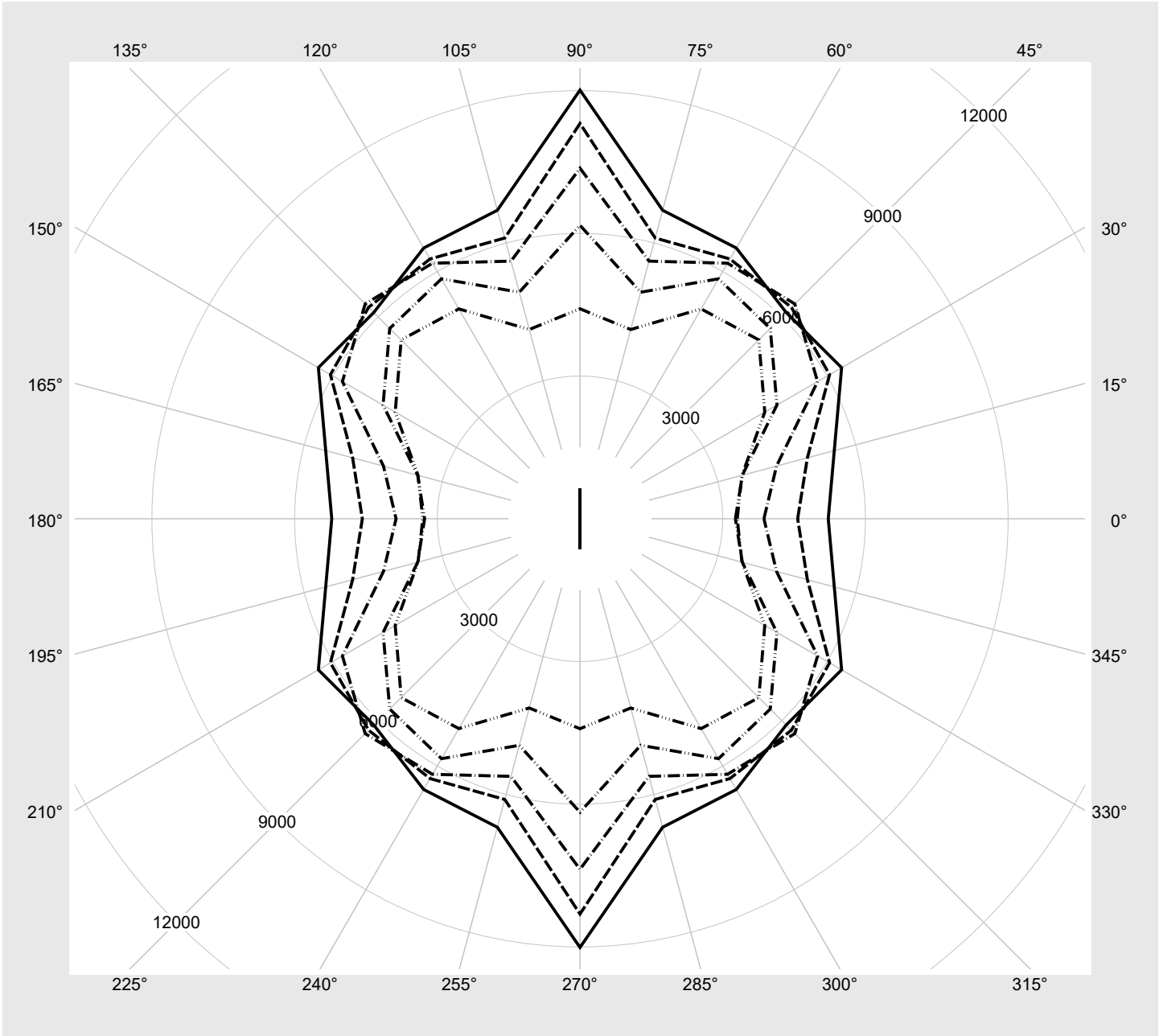
γ 75°

γ 80°

γ 85°

sit

eco



Photometric test report

|                                |                                                  |                        |
|--------------------------------|--------------------------------------------------|------------------------|
| Family<br>Licross® 21 Recessed | Order number: 52TL1ECN48XG<br>EAN: 4058352891643 | LP number<br>59263_121 |
| Multilumen Table               | environmental temperature: 25°C                  | siteco                 |

| DIP-Step | Switch Setting |   |   | Luminous flux<br>[lm] | Power consumption<br>[W] | Power consumption<br>[W] | Power consumption<br>[W] |
|----------|----------------|---|---|-----------------------|--------------------------|--------------------------|--------------------------|
|          | 1              | 2 | 3 |                       |                          | end of lifetime          | average                  |
| 1        | A              | C | E | 8020                  | 44.4                     | 53.0                     | 48.7                     |
| 2        | A              | C | F | 7510                  | 41.4                     | 49.5                     | 45.4                     |
| 3        | A              | D | E | 6990                  | 38.4                     | 45.6                     | 42.0                     |
| 4        | A              | D | F | 6470                  | 35.3                     | 42.2                     | 38.8                     |
| 5        | B              | C | E | 6020                  | 32.8                     | 39.2                     | 36.0                     |
| 6        | B              | C | F | 5490                  | 29.9                     | 35.3                     | 32.6                     |
| 7        | B              | D | E | 5030                  | 27.4                     | 32.4                     | 29.9                     |
| 8        | B              | D | F | 4490                  | 24.5                     | 28.7                     | 26.6                     |