

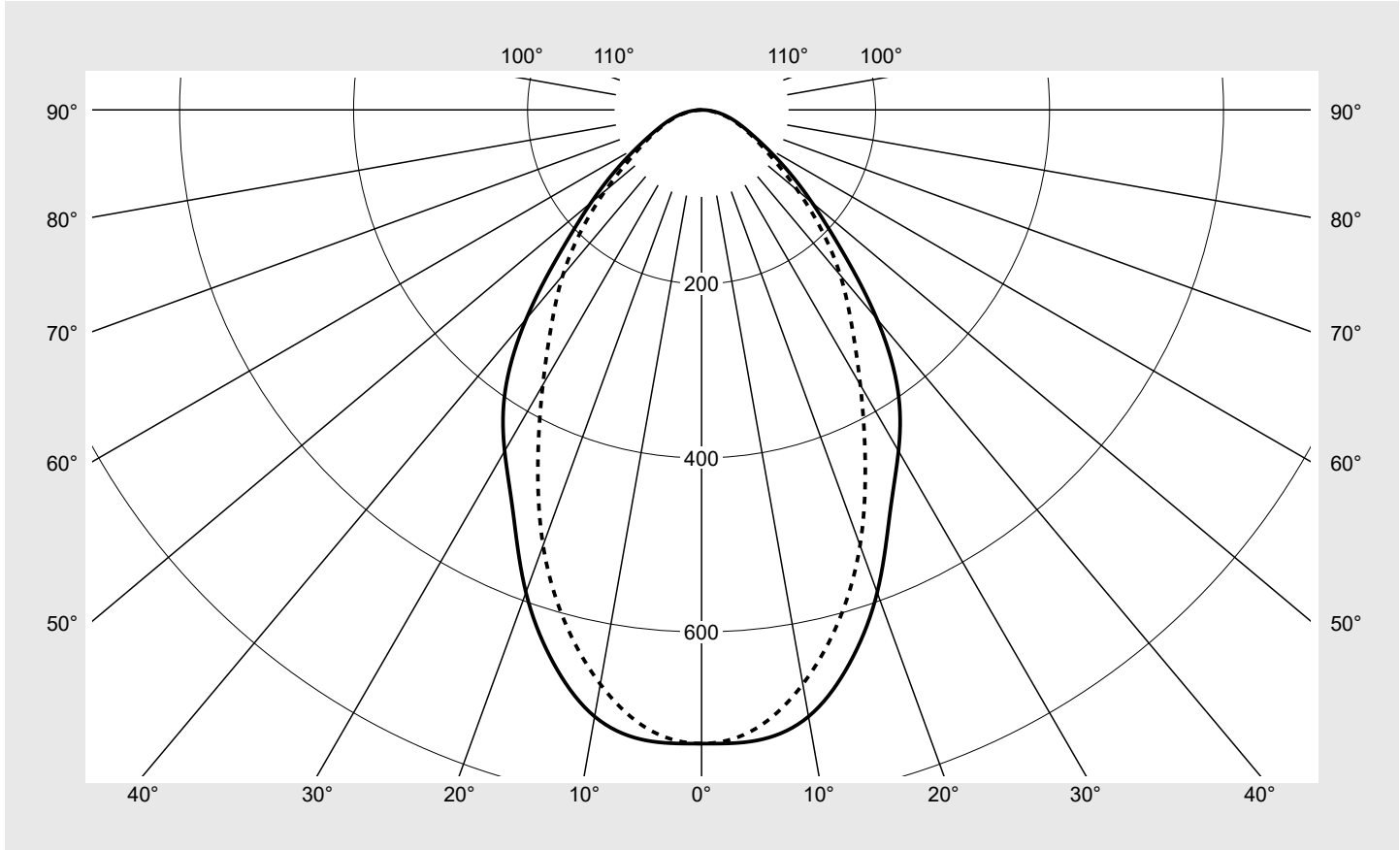


Photometric test report

| | | | | | | | | | | | | |
|--|--|-------------------------------------|---|--------------|-----------------------|--------------------|----------|----------------|---------|---------------------|--|---|
| Family Licross® 21 Recessed | Order number: 52TL12DN4FXM3S EAN: 4058352908167 | LP number 59446_50 | | | | | | | | | | |
|  | <table border="0"> <tr> <td>Version</td> <td>cover frosted, wide distribution, high visual comfort</td> </tr> <tr> <td>Lamps</td> <td>LED 4000 K CRI ≥ 80</td> </tr> <tr> <td>Controlgear</td> <td>ECG-DALI</td> </tr> <tr> <td>Setting</td> <td>AC-mode</td> </tr> <tr> <td>Rated values</td> <td> Net luminous flux = 15000 lm Power consumption = 88.4 W Luminous efficacy = 169.7 lm/W </td> </tr> </table> | Version | cover frosted, wide distribution, high visual comfort | Lamps | LED 4000 K CRI ≥ 80 | Controlgear | ECG-DALI | Setting | AC-mode | Rated values | Net luminous flux = 15000 lm Power consumption = 88.4 W Luminous efficacy = 169.7 lm/W | serial documentation 17.08.2023  |
| Version | cover frosted, wide distribution, high visual comfort | | | | | | | | | | | |
| Lamps | LED 4000 K CRI ≥ 80 | | | | | | | | | | | |
| Controlgear | ECG-DALI | | | | | | | | | | | |
| Setting | AC-mode | | | | | | | | | | | |
| Rated values | Net luminous flux = 15000 lm Power consumption = 88.4 W Luminous efficacy = 169.7 lm/W | | | | | | | | | | | |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 728 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 5 0 |
| CIE | N1=69 N2=91 N3=98 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

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|---|--|-------------------------------------|
| Family Licross® 21 Recessed | Order number: 52TL12DN4FXM3S EAN: 4058352908167 | LP number 59446_50 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | sITeco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | Luminous flux in lm/klm | | |
| 0° | 728.4 | 728.4 | 728.4 | 728.4 | 728.4 | 728.4 | 728.4 | 4.4 | 4.4 |
| 5° | 727.5 | 724.8 | 717.6 | 716.9 | 716.5 | 714.4 | 713.9 | 34.3 | 38.7 |
| 10° | 708.0 | 704.6 | 693.5 | 687.1 | 680.0 | 672.5 | 670.2 | 65.5 | 104.1 |
| 15° | 658.1 | 653.2 | 637.7 | 629.5 | 623.7 | 612.7 | 608.6 | 89.6 | 193.8 |
| 20° | 590.3 | 582.5 | 562.9 | 551.9 | 546.6 | 538.5 | 532.6 | 104.5 | 298.2 |
| 25° | 512.2 | 499.8 | 475.2 | 461.5 | 453.8 | 449.4 | 445.1 | 108.8 | 407.1 |
| 30° | 452.8 | 433.7 | 396.2 | 371.8 | 363.4 | 365.0 | 364.9 | 106.8 | 513.9 |
| 35° | 393.4 | 374.1 | 335.3 | 295.7 | 285.6 | 295.2 | 300.5 | 101.3 | 615.2 |
| 40° | 313.5 | 300.8 | 276.8 | 238.3 | 224.4 | 239.2 | 248.1 | 91.6 | 706.8 |
| 45° | 227.2 | 217.7 | 208.5 | 191.4 | 176.2 | 187.2 | 194.9 | 77.0 | 783.8 |
| 50° | 165.8 | 151.3 | 143.3 | 147.8 | 138.9 | 142.4 | 144.5 | 61.5 | 845.3 |
| 55° | 119.7 | 105.2 | 93.7 | 108.9 | 109.4 | 104.2 | 103.2 | 47.4 | 892.7 |
| 60° | 84.3 | 73.0 | 63.0 | 78.5 | 83.8 | 75.4 | 76.1 | 35.9 | 928.6 |
| 65° | 60.6 | 51.5 | 43.5 | 55.3 | 61.5 | 55.5 | 56.9 | 27.0 | 955.6 |
| 70° | 44.8 | 36.9 | 29.5 | 37.3 | 40.5 | 40.0 | 42.0 | 19.5 | 975.1 |
| 75° | 31.9 | 25.4 | 19.2 | 23.6 | 27.6 | 27.0 | 29.3 | 13.5 | 988.6 |
| 80° | 20.2 | 15.5 | 11.1 | 12.8 | 15.3 | 15.6 | 17.2 | 8.0 | 996.7 |
| 85° | 9.4 | 7.2 | 4.9 | 5.0 | 5.8 | 6.0 | 6.3 | 3.3 | 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

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| Family Licross® 21 Recessed | Order number: 52TL12DN4FXM3S EAN: 4058352908167 | LP number 59446_50 |
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| | | |
|------------------|----------------------|---------------|
| 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 | 23.7 | 25.2 | 24.1 | 25.5 | 25.8 | 23.3 | 24.8 | 23.7 | 25.1 | 25.4 |
| | 3H | 24.4 | 25.7 | 24.8 | 26.0 | 26.4 | 24.1 | 25.4 | 24.5 | 25.8 | 26.1 |
| | 4H | 24.8 | 26.0 | 25.2 | 26.3 | 26.7 | 24.5 | 25.7 | 24.9 | 26.1 | 26.4 |
| | 6H | 25.1 | 26.2 | 25.5 | 26.5 | 26.9 | 24.8 | 25.9 | 25.2 | 26.3 | 26.6 |
| | 8H | 25.3 | 26.3 | 25.7 | 26.6 | 27.0 | 24.9 | 25.9 | 25.4 | 26.3 | 26.7 |
| | 12H | 25.4 | 26.3 | 25.8 | 26.7 | 27.1 | 25.0 | 25.9 | 25.4 | 26.3 | 26.7 |
| 4H | 2H | 24.0 | 25.2 | 24.4 | 25.6 | 25.9 | 23.7 | 24.9 | 24.1 | 25.3 | 25.6 |
| | 3H | 24.8 | 25.8 | 25.2 | 26.2 | 26.6 | 24.7 | 25.7 | 25.1 | 26.1 | 26.5 |
| | 4H | 25.2 | 26.1 | 25.6 | 26.5 | 26.9 | 25.2 | 26.1 | 25.6 | 26.5 | 26.9 |
| | 6H | 25.6 | 26.3 | 26.0 | 26.8 | 27.2 | 25.5 | 26.3 | 26.0 | 26.7 | 27.2 |
| | 8H | 25.7 | 26.4 | 26.2 | 26.9 | 27.4 | 25.7 | 26.3 | 26.1 | 26.8 | 27.3 |
| | 12H | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 | 25.7 | 26.3 | 26.2 | 26.8 | 27.3 |
| 8H | 4H | 25.3 | 26.0 | 25.7 | 26.4 | 26.9 | 25.3 | 26.0 | 25.7 | 26.4 | 26.9 |
| | 6H | 25.7 | 26.3 | 26.2 | 26.7 | 27.3 | 25.7 | 26.3 | 26.2 | 26.8 | 27.3 |
| | 8H | 25.9 | 26.4 | 26.4 | 26.9 | 27.4 | 25.9 | 26.4 | 26.4 | 26.9 | 27.4 |
| | 12H | 26.1 | 26.5 | 26.6 | 27.0 | 27.6 | 26.0 | 26.4 | 26.5 | 26.9 | 27.5 |
| 12H | 4H | 25.3 | 25.9 | 25.8 | 26.4 | 26.8 | 25.3 | 25.9 | 25.8 | 26.3 | 26.8 |
| | 6H | 25.7 | 26.2 | 26.2 | 26.7 | 27.2 | 25.8 | 26.2 | 26.3 | 26.7 | 27.2 |
| | 8H | 25.9 | 26.4 | 26.5 | 26.9 | 27.4 | 25.9 | 26.3 | 26.4 | 26.8 | 27.4 |

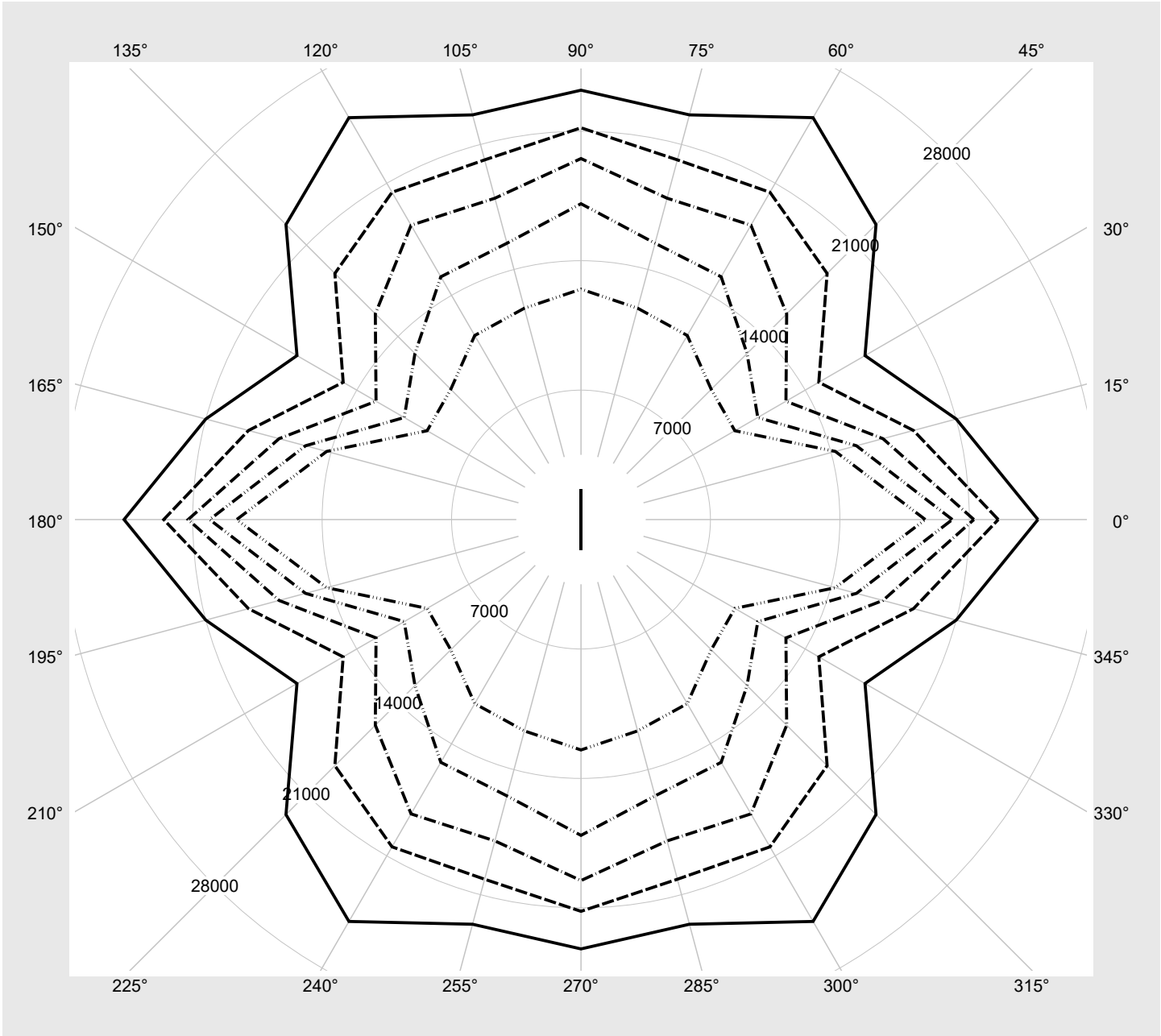
| | | | |
|------------------------|---|--------------------------------------|----------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1500 B = 58 |
|------------------------|---|--------------------------------------|----------------------------------|

| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45° | | 55409.9 | 53079.1 | 50839.0 | 46676.1 | 42966.5 | 45633.5 | 47514.6 | |
| 50° | | 44481.6 | 40579.4 | 38435.2 | 39631.8 | 37267.4 | 38189.8 | 38746.6 | |
| 55° | | 35989.6 | 31635.1 | 28170.5 | 32738.9 | 32897.3 | 31318.6 | 31025.2 | |
| 60° | | 29083.8 | 25162.4 | 21716.6 | 27064.1 | 28885.9 | 26001.0 | 26252.1 | |
| 65° | | 24713.3 | 21009.4 | 17735.9 | 22564.2 | 25098.9 | 22659.2 | 23221.4 | |
| 70° | | 22567.7 | 18616.6 | 14850.4 | 18824.3 | 20439.4 | 20139.5 | 21188.5 | |
| 75° | | 21247.7 | 16905.0 | 12798.9 | 15730.6 | 18381.2 | 17992.9 | 19524.4 | |
| 80° | | 20083.2 | 15422.6 | 11039.0 | 12700.1 | 15161.5 | 15472.2 | 17080.7 | |
| 85° | | 18621.0 | 14239.3 | 9608.2 | 9960.4 | 11495.5 | 11833.8 | 12460.8 | |

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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| | | |
|-----------------------------|---------------------------------|---------------|
| Dimming levels table | environmental temperature: 25°C | sITeco |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100 | 254 | 254 | 15000 | 88.4 |
| 95 | 240 | 252 | 14247 | 83.8 |
| 90 | 226 | 250 | 13483 | 79.0 |
| 85 | 213 | 248 | 12769 | 74.8 |
| 80 | 199 | 245 | 11989 | 70.1 |
| 75 | 186 | 243 | 11253 | 65.8 |
| 70 | 173 | 240 | 10512 | 61.6 |
| 65 | 160 | 237 | 9761 | 57.4 |
| 60 | 147 | 234 | 9006 | 53.1 |
| 55 | 134 | 231 | 8243 | 48.9 |
| 50 | 122 | 227 | 7528 | 45.0 |
| 45 | 109 | 223 | 6751 | 40.9 |
| 40 | 97 | 219 | 6028 | 37.0 |
| 35 | 84 | 213 | 5233 | 32.9 |
| 30 | 72 | 208 | 4497 | 29.2 |
| 25 | 60 | 201 | 3756 | 25.4 |
| 20 | 48 | 193 | 3006 | 21.6 |
| 15 | 36 | 182 | 2255 | 17.8 |
| 10 | 24 | 168 | 1498 | 14.0 |
| 5 | 12 | 142 | 734 | 10.3 |
| 1 | 4 | 102 | 224 | 7.9 |