

## Photometric test report

**Family**  
Licross® 11 Protected

**Order number: 51TD1BDN49XG3S**  
**EAN: 4058352938485**

**LP number**  
**58522\_249**

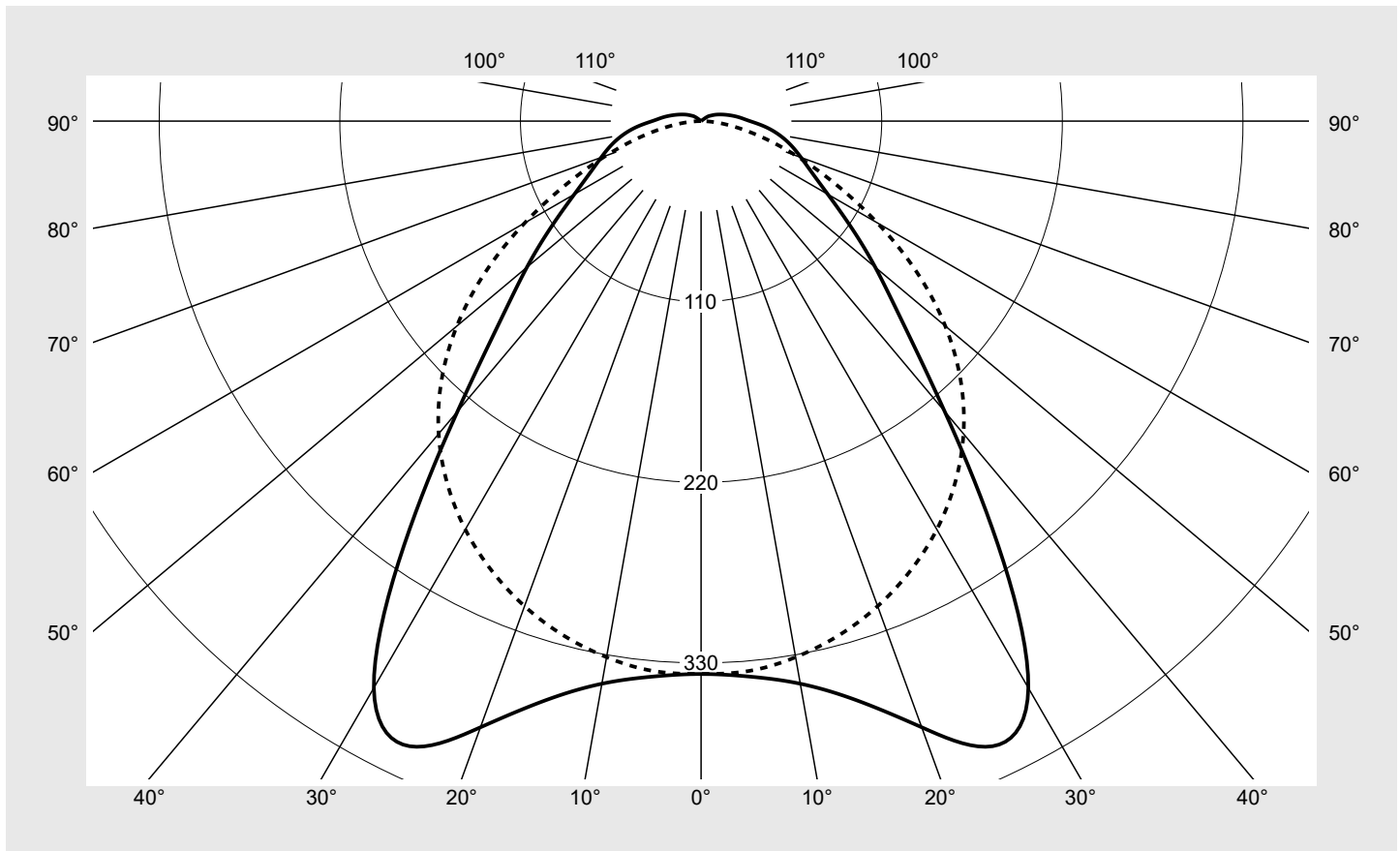
**Version** prismatic cover, frosted, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Setting** emergency light operation: 3 h  
**Rated values** Net luminous flux = 920 lm  
 Power consumption = 6.8 W  
 Luminous efficacy = 135.3 lm/W

**serial**  
**documentation**  
**29.09.2023**

**sitEco**

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

**Imax: 420 cd/klm**



### Classifications

DIN 5040 A 4 1  
 CIE N1=54 N2=82 N3=95  
 N4=97 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  96.8%  
 $\phi_o$  3.2%

### Measurement conditions

DIN EN 13032 and DIN 5032

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|   |  |                                      |
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| <b>Table of values for luminous intensities</b> |  | <b>Maximum luminous intensity</b>    |
|   |  | <b>siteco</b>                        |

| C-planes<br>γ                | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
|                              |            | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                         |                   |
| Luminous intensity in cd/klm |            |                      |                      |                      |                      |                      |             | Luminous flux in lm/klm |                   |
| 0°                           | 336.7      | 336.7                | 336.7                | 336.7                | 336.7                | 336.7                | 336.7       | 2.0                     | 2.0               |
| 5°                           | 339.6      | 338.6                | 335.9                | 336.3                | 336.9                | 336.0                | 336.1       | 16.1                    | 18.1              |
| 10°                          | 347.9      | 347.0                | 341.3                | 338.0                | 335.2                | 332.1                | 331.5       | 32.3                    | 50.4              |
| 15°                          | 365.1      | 363.4                | 352.6                | 343.0                | 333.9                | 326.3                | 324.2       | 48.8                    | 99.2              |
| 20°                          | 392.9      | 389.6                | 370.2                | 350.5                | 332.5                | 318.7                | 314.4       | 66.1                    | 165.3             |
| 25°                          | 420.1      | 417.2                | 393.2                | 361.7                | 330.8                | 309.3                | 301.9       | 83.9                    | 249.2             |
| 30°                          | 398.6      | 403.0                | 395.6                | 369.9                | 329.0                | 297.6                | 287.2       | 97.7                    | 346.8             |
| 35°                          | 315.4      | 327.2                | 346.9                | 353.5                | 322.7                | 283.2                | 269.5       | 100.9                   | 447.7             |
| 40°                          | 230.7      | 242.3                | 270.7                | 302.4                | 300.6                | 265.5                | 248.6       | 95.2                    | 542.9             |
| 45°                          | 173.9      | 182.1                | 205.6                | 239.8                | 258.3                | 240.0                | 223.6       | 85.6                    | 628.5             |
| 50°                          | 138.5      | 144.5                | 161.6                | 188.3                | 208.7                | 204.6                | 194.1       | 75.2                    | 703.7             |
| 55°                          | 110.6      | 115.5                | 130.2                | 150.3                | 164.6                | 163.9                | 160.4       | 64.4                    | 768.0             |
| 60°                          | 89.1       | 92.4                 | 103.6                | 120.9                | 128.5                | 124.9                | 123.9       | 53.5                    | 821.6             |
| 65°                          | 74.6       | 76.3                 | 82.5                 | 95.4                 | 99.4                 | 91.8                 | 89.8        | 43.7                    | 865.3             |
| 70°                          | 64.8       | 65.1                 | 66.4                 | 73.4                 | 75.2                 | 65.0                 | 61.7        | 35.1                    | 900.3             |
| 75°                          | 56.7       | 56.1                 | 54.1                 | 55.3                 | 54.0                 | 43.4                 | 39.3        | 27.4                    | 927.8             |
| 80°                          | 48.3       | 47.2                 | 43.9                 | 40.6                 | 36.4                 | 26.8                 | 21.9        | 20.7                    | 948.5             |
| 85°                          | 39.1       | 38.0                 | 34.5                 | 29.4                 | 22.9                 | 14.4                 | 9.1         | 14.9                    | 963.3             |
| 90°                          | 29.8       | 28.8                 | 25.7                 | 20.2                 | 13.1                 | 5.8                  | 0.8         | 9.9                     | 973.3             |
| 95°                          | 24.0       | 23.5                 | 21.4                 | 16.6                 | 9.9                  | 3.5                  | 0.7         | 7.9                     | 981.2             |
| 100°                         | 19.2       | 18.8                 | 17.3                 | 13.3                 | 7.4                  | 1.9                  | 0.6         | 6.2                     | 987.4             |
| 105°                         | 15.1       | 14.8                 | 13.6                 | 10.2                 | 5.0                  | 0.8                  | 0.6         | 4.6                     | 992.0             |
| 110°                         | 11.8       | 11.3                 | 10.2                 | 7.3                  | 2.9                  | 0.6                  | 0.6         | 3.3                     | 995.3             |
| 115°                         | 9.0        | 8.5                  | 7.3                  | 4.7                  | 1.4                  | 0.7                  | 0.7         | 2.3                     | 997.6             |
| 120°                         | 6.6        | 6.1                  | 4.9                  | 2.7                  | 0.8                  | 0.7                  | 0.7         | 1.5                     | 999.1             |
| 125°                         | 4.4        | 4.0                  | 2.9                  | 1.3                  | 0.7                  | 0.8                  | 0.8         | 0.9                     | 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            |

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|--|--|-------------------------------|
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|--|--|-------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <b>UGR-Table</b> | <b>Standard room</b> | <b>siteco</b> |
|------------------|----------------------|---------------|

|                              |                     |      |      |      |      |                    |      |      |      |      |      |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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                  | 12.9 | 14.5 | 13.2 | 14.8 | 15.1               | 14.8 | 16.4 | 15.1 | 16.7 | 17.0 |
|                              | 3H                  | 14.0 | 15.5 | 14.4 | 15.9 | 16.2               | 15.8 | 17.2 | 16.2 | 17.6 | 17.9 |
|                              | 4H                  | 14.7 | 16.1 | 15.1 | 16.5 | 16.8               | 16.1 | 17.5 | 16.5 | 17.9 | 18.2 |
|                              | 6H                  | 15.5 | 16.8 | 15.9 | 17.2 | 17.5               | 16.4 | 17.7 | 16.8 | 18.0 | 18.4 |
|                              | 8H                  | 15.9 | 17.1 | 16.3 | 17.5 | 17.9               | 16.5 | 17.7 | 16.9 | 18.1 | 18.5 |
|                              | 12H                 | 16.3 | 17.4 | 16.7 | 17.8 | 18.2               | 16.5 | 17.7 | 17.0 | 18.0 | 18.5 |
| 4H                           | 2H                  | 13.7 | 15.1 | 14.1 | 15.5 | 15.8               | 15.2 | 16.6 | 15.6 | 16.9 | 17.3 |
|                              | 3H                  | 15.1 | 16.3 | 15.5 | 16.6 | 17.0               | 16.5 | 17.7 | 16.9 | 18.0 | 18.5 |
|                              | 4H                  | 15.9 | 17.0 | 16.3 | 17.4 | 17.8               | 17.0 | 18.0 | 17.4 | 18.4 | 18.9 |
|                              | 6H                  | 16.8 | 17.7 | 17.2 | 18.2 | 18.6               | 17.3 | 18.3 | 17.8 | 18.7 | 19.2 |
|                              | 8H                  | 17.3 | 18.1 | 17.7 | 18.6 | 19.0               | 17.5 | 18.3 | 17.9 | 18.8 | 19.2 |
|                              | 12H                 | 17.7 | 18.5 | 18.2 | 19.0 | 19.5               | 17.6 | 18.3 | 18.0 | 18.8 | 19.3 |
| 8H                           | 4H                  | 16.3 | 17.2 | 16.8 | 17.6 | 18.1               | 17.2 | 18.1 | 17.7 | 18.5 | 19.0 |
|                              | 6H                  | 17.4 | 18.1 | 17.9 | 18.6 | 19.1               | 17.8 | 18.5 | 18.3 | 19.0 | 19.5 |
|                              | 8H                  | 18.0 | 18.6 | 18.5 | 19.1 | 19.6               | 18.0 | 18.6 | 18.5 | 19.1 | 19.6 |
|                              | 12H                 | 18.6 | 19.2 | 19.1 | 19.6 | 20.2               | 18.2 | 18.7 | 18.7 | 19.2 | 19.7 |
| 12H                          | 4H                  | 16.4 | 17.1 | 16.9 | 17.6 | 18.1               | 17.3 | 18.1 | 17.8 | 18.5 | 19.0 |
|                              | 6H                  | 17.5 | 18.1 | 18.0 | 18.6 | 19.1               | 17.9 | 18.5 | 18.4 | 19.0 | 19.5 |
|                              | 8H                  | 18.2 | 18.7 | 18.7 | 19.2 | 19.7               | 18.2 | 18.7 | 18.7 | 19.2 | 19.7 |

|                        |   |                                      |                 |                   |                     |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1480</b> | <b>H(C0) = 13</b> | <b>H(C180) = 13</b> |
|                        |   |                                      | <b>B = 78</b>   | <b>H(C90) = 0</b> | <b>H(C270) = 0</b>  |

| C-planes | $\gamma$ | Luminance in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |  |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
|          |          | 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° |  |
| 45°      |          | 1679.7                         | 1767.9                      | 2024.8                      | 2417.7                      | 2686.8                      | 2592.8                      | 2520.3      |  |
| 50°      |          | 1432.4                         | 1502.8                      | 1709.7                      | 2047.3                      | 2353.6                      | 2413.2                      | 2406.8      |  |
| 55°      |          | 1240.8                         | 1304.7                      | 1500.3                      | 1787.5                      | 2044.1                      | 2145.1                      | 2228.2      |  |
| 60°      |          | 1102.4                         | 1151.8                      | 1321.0                      | 1600.0                      | 1789.9                      | 1852.1                      | 1975.5      |  |
| 65°      |          | 1036.8                         | 1070.0                      | 1187.8                      | 1436.6                      | 1590.8                      | 1585.1                      | 1693.9      |  |
| 70°      |          | 1035.0                         | 1052.5                      | 1108.4                      | 1292.4                      | 1425.6                      | 1354.6                      | 1437.6      |  |
| 75°      |          | 1075.5                         | 1080.0                      | 1082.6                      | 1181.7                      | 1269.4                      | 1150.5                      | 1209.5      |  |
| 80°      |          | 1139.1                         | 1133.2                      | 1108.4                      | 1116.1                      | 1133.9                      | 988.7                       | 1003.4      |  |
| 85°      |          | 1229.7                         | 1223.1                      | 1189.7                      | 1145.9                      | 1073.7                      | 879.4                       | 834.1       |  |

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**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**

