
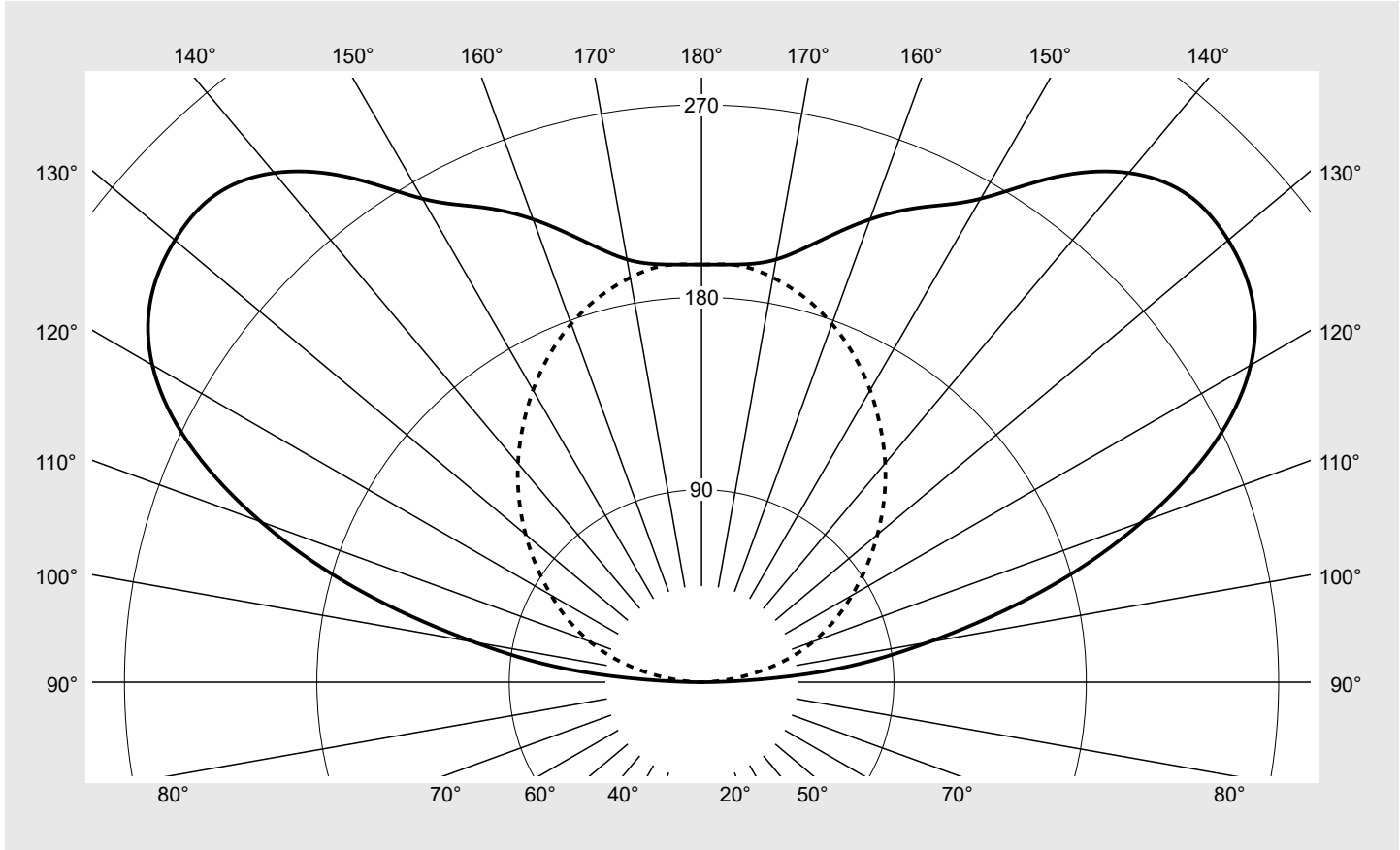


# Photometric test report

|                                 |   |  |
|---------------------------------|---|--|
| <b>Family</b><br><b>Silica®</b> | <b>Order number: 5MX51BS3WZK00002XX</b><br><b>EAN: 4058352370117</b>  | <b>LP number</b><br><b>59001_4</b>               |
|                                 | <b>Version</b> Combined lens and reflector optics, frosted cover, UGR≤19 (L65≤3000cd/m²)<br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-DALI<br><b>Setting</b> individual position: only indirect light<br><b>Rated values</b> Net luminous flux = 8500 lm<br>Power consumption = 54.9 W<br>Luminous efficacy = 154.8 lm/W | <b>serial documentation</b><br><b>07.08.2020</b> |



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 322 cd/klm**



| Classifications |  |
|-----------------|--|
| DIN 5040        | E 1 2  |
| CIE             | N1=n. def. N2=n. def.<br>N3=n. def.<br>N4=0 N5=100 |

| Luminaire light output ratios |        |
|-------------------------------|--------|
| $\eta_{LB}$                   | 100.0% |
| $\phi_u$                      | 0.0%   |
| $\phi_o$                      | 100.0% |

| Measurement conditions    |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

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

| C-planes<br>$\gamma$ | 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 |
|----------------------|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------|-------------------|
|                      |            |                             |                             |                             |                             |                             |             |          |                   |
| 0°                   | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 5°                   | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 10°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 15°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 20°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 25°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 30°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 35°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 40°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 45°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 50°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 55°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 60°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 65°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 70°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 75°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 80°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 85°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 90°                  | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 95°                  | 56.4       | 57.9                        | 59.9                        | 48.9                        | 29.0                        | 16.6                        | 10.7        | 22.4     | 22.4              |
| 100°                 | 108.0      | 112.0                       | 113.8                       | 92.7                        | 56.1                        | 35.6                        | 25.9        | 42.9     | 65.3              |
| 105°                 | 165.4      | 170.9                       | 170.4                       | 139.2                       | 83.5                        | 52.7                        | 41.6        | 63.6     | 128.9             |
| 110°                 | 219.4      | 226.0                       | 219.5                       | 176.2                       | 104.6                       | 68.1                        | 55.7        | 80.0     | 208.9             |
| 115°                 | 265.0      | 267.8                       | 257.6                       | 198.4                       | 117.3                       | 82.9                        | 68.8        | 90.3     | 299.2             |
| 120°                 | 296.7      | 296.0                       | 281.7                       | 205.0                       | 126.3                       | 96.8                        | 81.2        | 94.5     | 393.7             |
| 125°                 | 314.3      | 312.2                       | 289.6                       | 202.8                       | 135.3                       | 108.9                       | 94.2        | 93.8     | 487.5             |
| 130°                 | 321.6      | 316.4                       | 281.7                       | 196.8                       | 146.7                       | 120.1                       | 107.4       | 89.3     | 576.8             |
| 135°                 | 322.1      | 312.1                       | 267.2                       | 193.9                       | 158.1                       | 131.1                       | 120.7       | 82.9     | 659.7             |
| 140°                 | 311.0      | 297.7                       | 250.7                       | 196.7                       | 168.1                       | 141.8                       | 133.6       | 75.0     | 734.7             |
| 145°                 | 288.4      | 274.9                       | 236.3                       | 202.9                       | 177.0                       | 151.9                       | 145.8       | 66.0     | 800.8             |
| 150°                 | 261.1      | 252.0                       | 229.8                       | 205.7                       | 180.7                       | 161.8                       | 157.7       | 56.6     | 857.4             |
| 155°                 | 245.2      | 240.4                       | 224.5                       | 206.1                       | 182.9                       | 170.8                       | 168.7       | 47.6     | 904.9             |
| 160°                 | 230.4      | 227.2                       | 216.3                       | 199.9                       | 186.3                       | 180.0                       | 178.3       | 37.9     | 942.9             |
| 165°                 | 213.7      | 211.3                       | 203.4                       | 195.6                       | 189.3                       | 186.5                       | 186.3       | 28.0     | 970.9             |
| 170°                 | 200.8      | 200.1                       | 197.1                       | 193.7                       | 192.6                       | 192.3                       | 192.2       | 18.6     | 989.5             |
| 175°                 | 196.2      | 195.9                       | 194.2                       | 194.1                       | 195.0                       | 195.5                       | 195.7       | 9.3      | 998.8             |
| 180°                 | 195.4      | 195.4                       | 195.4                       | 195.4                       | 195.4                       | 195.4                       | 195.4       | 1.2      | 1000.0            |

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

The UGR formula for this luminaire type cannot be used, see LiTG Publication 20:  
 "The UGR - Process for Evaluation of Direct Glare of Artificial Lighting in Indoor Rooms"

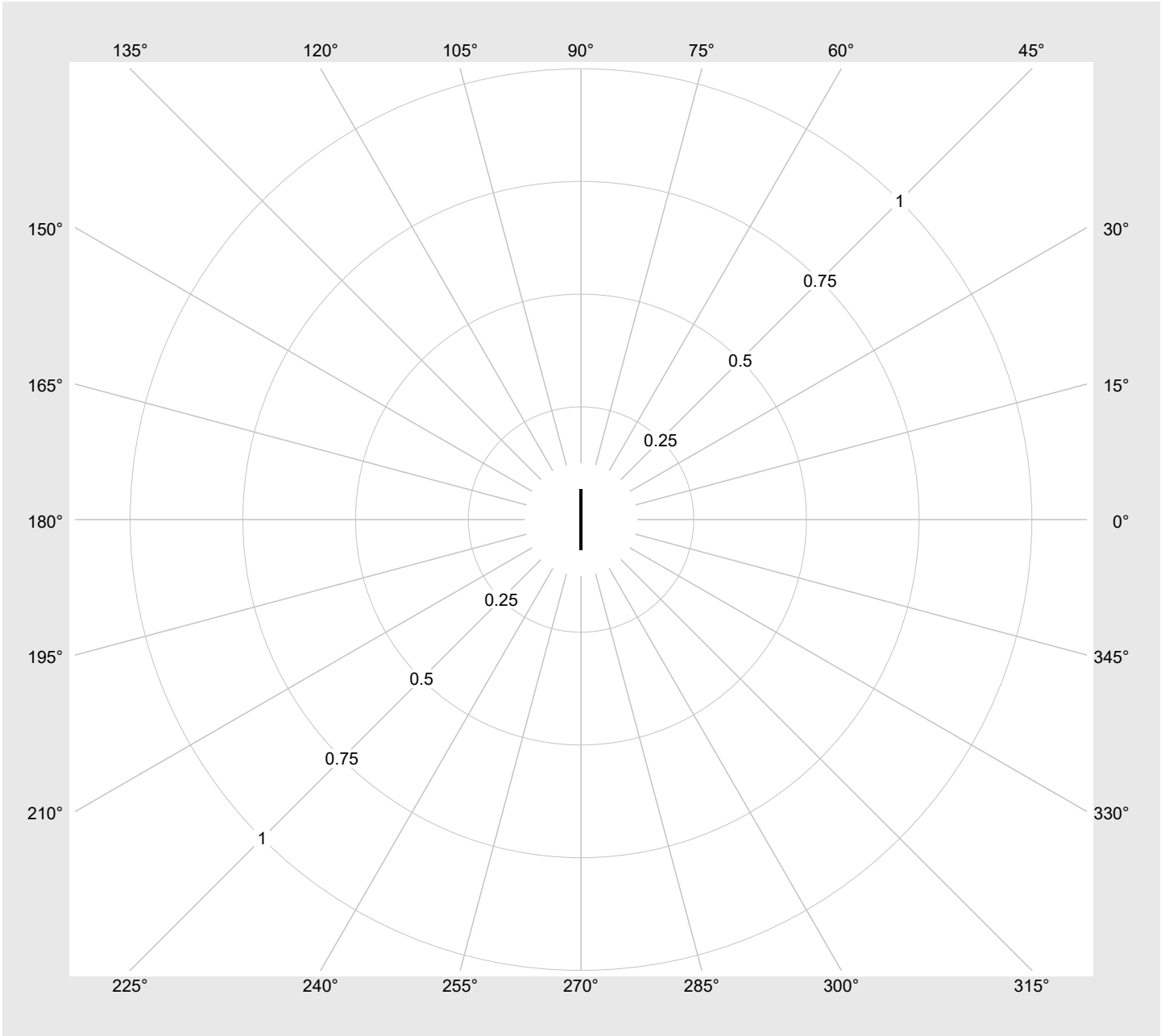
|                 |                                 |                               |                    |
|-----------------|---------------------------------|-------------------------------|--------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1147<br>B = 61 |
|-----------------|---------------------------------|-------------------------------|--------------------|

| C-planes | $\gamma$ | 0°                 | 15°  | 30°  | 45°  | 60°  | 75°  | 90°  |
|----------|----------|--------------------|------|------|------|------|------|------|
|          |          | 180°               | 165° | 150° | 135° | 120° | 105° | 270° |
|          |          | 195°               | 210° | 225° | 240° | 255° | 285° |      |
|          |          | 345°               | 330° | 315° | 300° |      |      |      |
|          |          | Luminance in cd/m² |      |      |      |      |      |      |
| 45°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 85°      | 0.0      | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

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

Luminance values in cd/m<sup>2</sup>      $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°



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

|                             |                                 |               |
|-----------------------------|---------------------------------|---------------|
| <b>Dimming levels table</b> | environmental temperature: 25°C | <b>sITeco</b> |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100             | 254                  | 254                       | 8500               | 54.9                  |
| 95              | 240                  | 252                       | 8074               | 51.7                  |
| 90              | 226                  | 250                       | 7643               | 48.6                  |
| 85              | 213                  | 248                       | 7238               | 45.7                  |
| 80              | 199                  | 245                       | 6798               | 42.7                  |
| 75              | 186                  | 243                       | 6384               | 40.0                  |
| 70              | 173                  | 240                       | 5964               | 37.2                  |
| 65              | 159                  | 237                       | 5510               | 34.1                  |
| 60              | 147                  | 234                       | 5116               | 31.6                  |
| 55              | 134                  | 231                       | 4686               | 28.9                  |
| 50              | 121                  | 227                       | 4252               | 26.2                  |
| 45              | 108                  | 223                       | 3814               | 23.6                  |
| 40              | 96                   | 218                       | 3406               | 21.1                  |
| 35              | 83                   | 213                       | 2961               | 18.5                  |
| 30              | 71                   | 207                       | 2546               | 16.1                  |
| 25              | 59                   | 201                       | 2128               | 13.6                  |
| 20              | 47                   | 192                       | 1707               | 11.2                  |
| 15              | 35                   | 181                       | 1282               | 8.8                   |
| 10              | 23                   | 166                       | 855                | 6.4                   |
| 5               | 11                   | 139                       | 424                | 4.2                   |
| 2               | 5                    | 110                       | 207                | 3.0                   |