

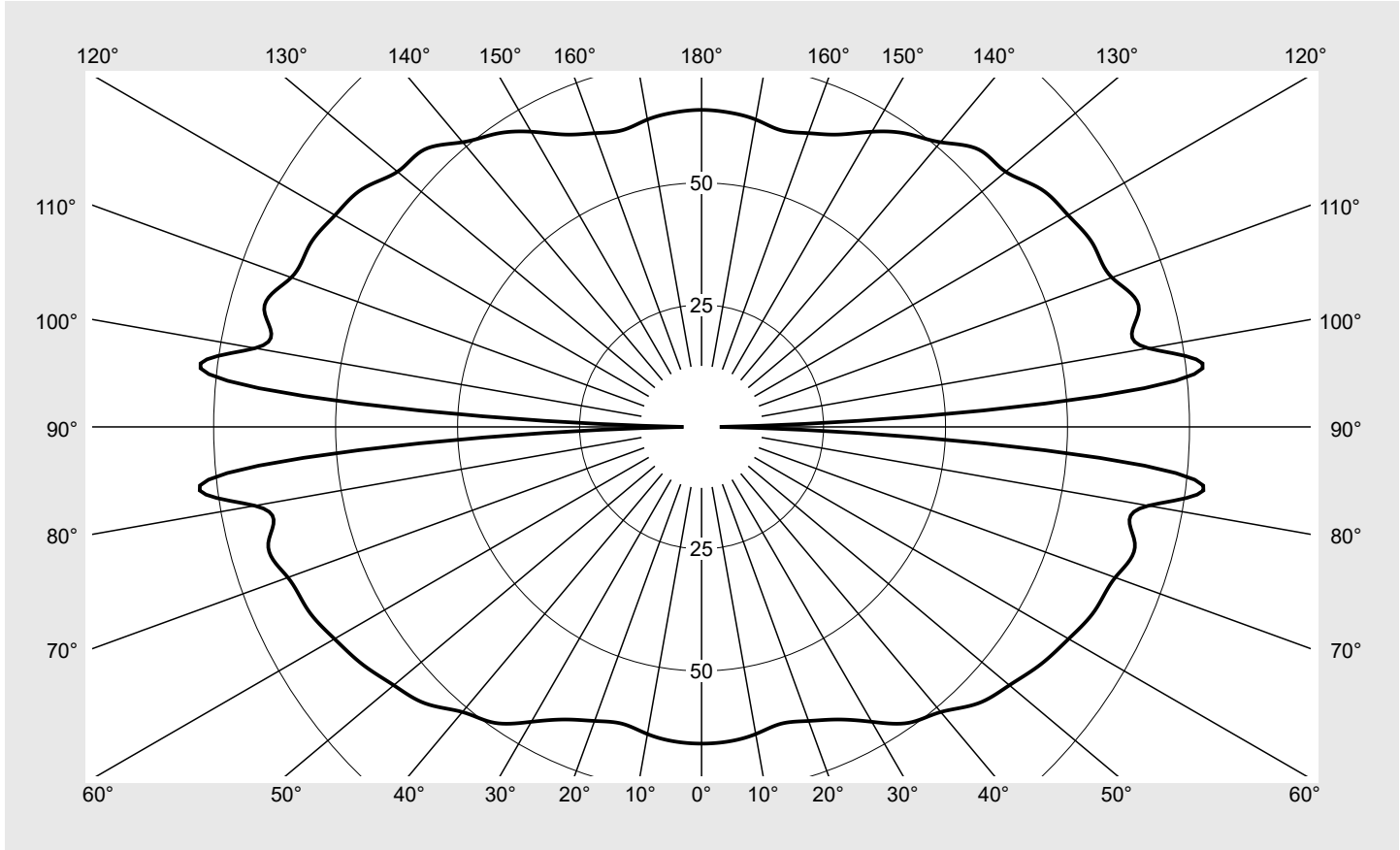


# Photometric test report

|  |   |   |
|--|---|---|
| <b>Family</b><br><b>Silica® 21 Ring</b>  | <b>Order number: 5PJBI1D1104A</b><br><b>EAN: 4058352960233</b>  | <b>LP number</b><br><b>59506_2</b>  |
|                               | <b>Version</b> suspended luminaire incl. Pendant, black, inner ring side luminous, cover opal, polycarbonate, frosted, diffuse beam | <b>serial documentation</b><br><b>08.11.2023</b>                                    |
|  | <b>Lamps</b> LED 3000 K   CRI ≥ 80  |   |
|  | <b>Controlgear</b> ECG-DALI   |  |
| <b>Rated values</b> Net luminous flux = 3430 lm<br>Power consumption = 60.0 W<br>Luminous efficacy = 57.2 lm/W |   |   |

**Luminous intensity in cd/klm** C180-0 **Imax: 93 cd/klm**



| Classifications |                                   |
|-----------------|-----------------------------------|
| DIN 5040        | C 2 2                             |
| CIE             | N1=22 N2=48 N3=76<br>N4=50 N5=100 |

| Luminaire light output ratios |        |
|-------------------------------|--------|
| $\eta_{LB}$                   | 100.0% |
| $\phi_u$                      | 50.0%  |
| $\phi_o$                      | 50.0%  |

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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

**sITeco**

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

| C-planes | 0°                           | Phi-zone                | Total Phi-zone |
|----------|------------------------------|-------------------------|----------------|
| $\gamma$ | Luminous intensity in cd/klm | Luminous flux in lm/klm |                |
| 0°       | 64.9                         | 0.4                     | 0.4            |
| 5°       | 64.7                         | 3.1                     | 3.5            |
| 10°      | 63.9                         | 6.1                     | 9.6            |
| 15°      | 63.0                         | 8.9                     | 18.5           |
| 20°      | 64.1                         | 12.0                    | 30.5           |
| 25°      | 66.2                         | 15.3                    | 45.8           |
| 30°      | 69.8                         | 19.1                    | 65.0           |
| 35°      | 74.0                         | 23.3                    | 88.2           |
| 40°      | 76.3                         | 26.9                    | 115.1          |
| 45°      | 80.1                         | 31.1                    | 146.2          |
| 50°      | 82.4                         | 34.6                    | 180.7          |
| 55°      | 84.8                         | 38.1                    | 218.8          |
| 60°      | 86.9                         | 41.2                    | 260.1          |
| 65°      | 89.0                         | 44.2                    | 304.3          |
| 70°      | 90.2                         | 46.5                    | 350.7          |
| 75°      | 91.9                         | 48.7                    | 399.4          |
| 80°      | 93.0                         | 50.2                    | 449.6          |
| 85°      | 91.1                         | 49.8                    | 499.4          |
| 90°      | 3.7                          | 2.0                     | 501.4          |
| 95°      | 91.1                         | 49.7                    | 551.1          |
| 100°     | 92.9                         | 50.2                    | 601.3          |
| 105°     | 92.8                         | 49.1                    | 650.4          |
| 110°     | 89.5                         | 46.1                    | 696.5          |
| 115°     | 88.6                         | 44.0                    | 740.5          |
| 120°     | 86.8                         | 41.2                    | 781.7          |
| 125°     | 84.9                         | 38.1                    | 819.8          |
| 130°     | 81.3                         | 34.2                    | 854.0          |
| 135°     | 80.4                         | 31.1                    | 885.1          |
| 140°     | 76.2                         | 26.8                    | 912.0          |
| 145°     | 73.3                         | 23.1                    | 935.0          |
| 150°     | 69.8                         | 19.1                    | 954.2          |
| 155°     | 66.1                         | 15.3                    | 969.5          |
| 160°     | 64.1                         | 12.0                    | 981.5          |
| 165°     | 62.9                         | 8.9                     | 990.4          |
| 170°     | 63.9                         | 6.1                     | 996.5          |
| 175°     | 64.7                         | 3.1                     | 999.6          |
| 180°     | 65.0                         | 0.4                     | 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                  | 25.5 | 26.7 | 26.3 | 27.5 | 28.6               | 25.5 | 26.7 | 26.3 | 27.5 | 28.6 |
|                              | 3H                  | 28.1 | 29.2 | 29.0 | 30.1 | 31.2               | 28.1 | 29.2 | 29.0 | 30.1 | 31.2 |
|                              | 4H                  | 29.5 | 30.5 | 30.4 | 31.4 | 32.6               | 29.5 | 30.5 | 30.4 | 31.4 | 32.6 |
|                              | 6H                  | 30.9 | 31.8 | 31.8 | 32.8 | 33.9               | 30.9 | 31.8 | 31.8 | 32.8 | 33.9 |
|                              | 8H                  | 31.5 | 32.4 | 32.4 | 33.3 | 34.6               | 31.5 | 32.4 | 32.4 | 33.3 | 34.6 |
|                              | 12H                 | 32.2 | 33.1 | 33.2 | 34.0 | 35.2               | 32.2 | 33.1 | 33.2 | 34.0 | 35.2 |
| 4H                           | 2H                  | 26.4 | 27.4 | 27.2 | 28.3 | 29.4               | 26.4 | 27.4 | 27.2 | 28.3 | 29.4 |
|                              | 3H                  | 29.2 | 30.0 | 30.1 | 31.0 | 32.2               | 29.2 | 30.0 | 30.1 | 31.0 | 32.2 |
|                              | 4H                  | 30.7 | 31.5 | 31.6 | 32.4 | 33.7               | 30.7 | 31.5 | 31.6 | 32.4 | 33.7 |
|                              | 6H                  | 32.2 | 32.9 | 33.2 | 33.9 | 35.1               | 32.2 | 32.9 | 33.2 | 33.9 | 35.1 |
|                              | 8H                  | 33.0 | 33.6 | 33.9 | 34.6 | 35.9               | 33.0 | 33.6 | 33.9 | 34.6 | 35.9 |
|                              | 12H                 | 33.8 | 34.3 | 34.7 | 35.3 | 36.6               | 33.8 | 34.3 | 34.7 | 35.3 | 36.6 |
| 8H                           | 4H                  | 31.2 | 31.8 | 32.2 | 32.8 | 34.1               | 31.2 | 31.8 | 32.2 | 32.8 | 34.1 |
|                              | 6H                  | 33.0 | 33.5 | 34.0 | 34.5 | 35.8               | 33.0 | 33.5 | 34.0 | 34.5 | 35.8 |
|                              | 8H                  | 33.9 | 34.4 | 34.9 | 35.4 | 36.8               | 33.9 | 34.4 | 34.9 | 35.4 | 36.8 |
|                              | 12H                 | 34.9 | 35.3 | 35.9 | 36.3 | 37.7               | 34.9 | 35.3 | 35.9 | 36.3 | 37.7 |
| 12H                          | 4H                  | 31.3 | 31.9 | 32.3 | 32.9 | 34.2               | 31.3 | 31.9 | 32.3 | 32.9 | 34.2 |
|                              | 6H                  | 33.2 | 33.6 | 34.2 | 34.7 | 36.0               | 33.2 | 33.6 | 34.2 | 34.7 | 36.0 |
|                              | 8H                  | 34.2 | 34.7 | 35.2 | 35.7 | 37.0               | 34.2 | 34.7 | 35.2 | 35.7 | 37.0 |

|                        |   |                                      |                           |                              |
|------------------------|---|--------------------------------------|---------------------------|------------------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | Photometric dimensions in mm: D = 47 | H(C0) = 48<br>H(C90) = 48 | H(C180) = 48<br>H(C270) = 48 |
|------------------------|---|--------------------------------------|---------------------------|------------------------------|

|          |                                |
|----------|--------------------------------|
| C-planes | 0°                             |
| $\gamma$ | Luminance in cd/m <sup>2</sup> |
| 45°      | 97382.2                        |
| 50°      | 99345.1                        |
| 55°      | 102357.2                       |
| 60°      | 105612.7                       |
| 65°      | 109847.4                       |
| 70°      | 114043.3                       |
| 75°      | 119983.7                       |
| 80°      | 126407.2                       |
| 85°      | 130290.3                       |

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



**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

