

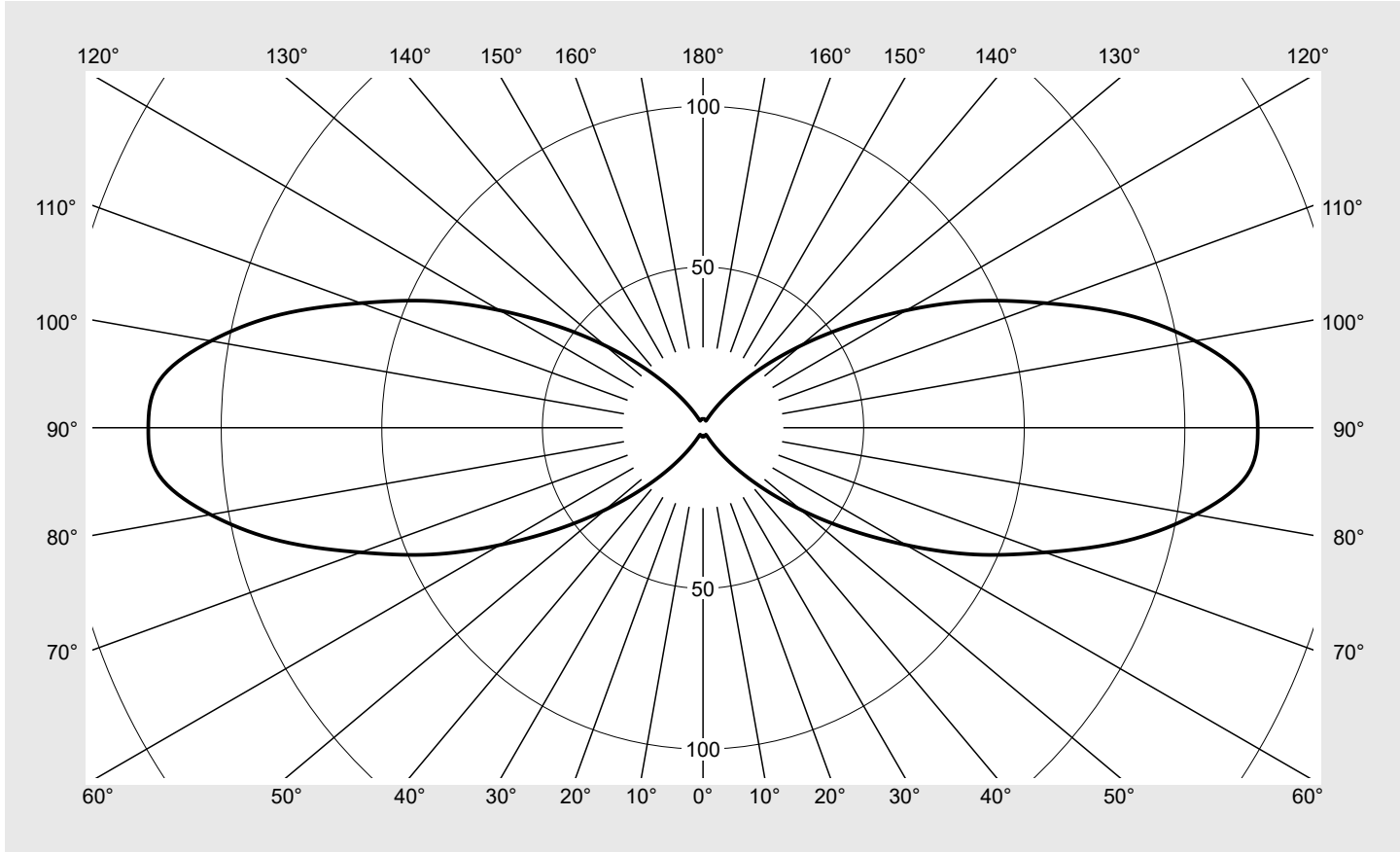


Photometric test report

| | | |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Family Silica® 21 Ring | Order number: 5PJBO4D3004A EAN: 4058352959114 | LP number 59505_22 |
|  | Version suspended luminaire incl. Pendant, white, outer ring side luminous, cover opal, polycarbonate, frosted, diffuse beam | serial documentation 08.11.2023 |
| | Lamps LED 4000 K CRI ≥ 80 | |
| | Controlgear ECG-DALI |  |
| Rated values Net luminous flux = 9260 lm Power consumption = 140.0 W Luminous efficacy = 66.1 lm/W | | |

Luminous intensity in cd/klm C180-0 **Imax: 173 cd/klm**



| Classifications | |
|-----------------|----------------------------------|
| DIN 5040 | C 1 1 |
| CIE | N1=2 N2=16 N3=49 N4=50 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 50.0% |
| ϕ_o | 50.0% |

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

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|-------------------------------------------------|-----------------------------------|
| Table of values for luminous intensities | Maximum luminous intensity |
|-------------------------------------------------|-----------------------------------|

| C-planes | 0° | Phi-zone | Total Phi-zone |
|----------|------------------------------|-------------------------|----------------|
| γ | Luminous intensity in cd/klm | Luminous flux in lm/klm | |
| 0° | 2.4 | 0.0 | 0.0 |
| 5° | 2.8 | 0.1 | 0.1 |
| 10° | 2.7 | 0.3 | 0.4 |
| 15° | 2.6 | 0.4 | 0.8 |
| 20° | 2.4 | 0.4 | 1.2 |
| 25° | 2.7 | 0.6 | 1.8 |
| 30° | 5.1 | 1.4 | 3.2 |
| 35° | 10.0 | 3.1 | 6.4 |
| 40° | 17.4 | 6.1 | 12.5 |
| 45° | 27.2 | 10.5 | 23.0 |
| 50° | 39.7 | 16.7 | 39.7 |
| 55° | 55.0 | 24.7 | 64.4 |
| 60° | 72.9 | 34.6 | 99.0 |
| 65° | 93.3 | 46.4 | 145.4 |
| 70° | 113.4 | 58.4 | 203.8 |
| 75° | 136.2 | 72.1 | 275.9 |
| 80° | 155.7 | 84.0 | 360.0 |
| 85° | 170.0 | 92.8 | 452.8 |
| 90° | 172.7 | 94.7 | 547.4 |
| 95° | 169.8 | 92.7 | 640.2 |
| 100° | 155.5 | 84.0 | 724.1 |
| 105° | 136.1 | 72.1 | 796.2 |
| 110° | 113.4 | 58.4 | 854.6 |
| 115° | 93.3 | 46.4 | 901.0 |
| 120° | 73.0 | 34.7 | 935.6 |
| 125° | 55.0 | 24.7 | 960.3 |
| 130° | 39.7 | 16.7 | 977.0 |
| 135° | 27.2 | 10.5 | 987.5 |
| 140° | 17.3 | 6.1 | 993.6 |
| 145° | 10.0 | 3.1 | 996.8 |
| 150° | 5.2 | 1.4 | 998.2 |
| 155° | 2.7 | 0.6 | 998.8 |
| 160° | 2.4 | 0.4 | 999.2 |
| 165° | 2.6 | 0.4 | 999.6 |
| 170° | 2.7 | 0.3 | 999.9 |
| 175° | 2.8 | 0.1 | 1000.0 |
| 180° | 2.6 | 0.0 | 1000.0 |

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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 | 25.3 | 26.8 | 26.0 | 27.6 | 28.5 | 25.3 | 26.8 | 26.0 | 27.6 | 28.5 |
| | 3H | 30.1 | 31.5 | 30.9 | 32.3 | 33.2 | 30.1 | 31.5 | 30.9 | 32.3 | 33.2 |
| | 4H | 32.6 | 33.9 | 33.3 | 34.7 | 35.7 | 32.6 | 33.9 | 33.3 | 34.7 | 35.7 |
| | 6H | 34.9 | 36.1 | 35.7 | 37.0 | 38.0 | 34.9 | 36.1 | 35.7 | 37.0 | 38.0 |
| | 8H | 35.9 | 37.1 | 36.7 | 37.9 | 39.0 | 35.9 | 37.1 | 36.7 | 37.9 | 39.0 |
| | 12H | 37.0 | 38.1 | 37.8 | 38.9 | 40.1 | 37.0 | 38.1 | 37.8 | 38.9 | 40.1 |
| 4H | 2H | 26.9 | 28.2 | 27.7 | 29.0 | 30.0 | 26.9 | 28.2 | 27.7 | 29.0 | 30.0 |
| | 3H | 31.5 | 32.6 | 32.3 | 33.5 | 34.5 | 31.5 | 32.6 | 32.3 | 33.5 | 34.5 |
| | 4H | 33.9 | 34.9 | 34.7 | 35.8 | 36.9 | 33.9 | 34.9 | 34.7 | 35.8 | 36.9 |
| | 6H | 36.3 | 37.2 | 37.2 | 38.2 | 39.3 | 36.3 | 37.2 | 37.2 | 38.2 | 39.3 |
| | 8H | 37.4 | 38.3 | 38.3 | 39.2 | 40.4 | 37.4 | 38.3 | 38.3 | 39.2 | 40.4 |
| | 12H | 38.5 | 39.3 | 39.4 | 40.2 | 41.5 | 38.5 | 39.3 | 39.4 | 40.2 | 41.5 |
| 8H | 4H | 34.7 | 35.6 | 35.6 | 36.5 | 37.7 | 34.7 | 35.6 | 35.6 | 36.5 | 37.7 |
| | 6H | 37.2 | 38.0 | 38.1 | 38.9 | 40.2 | 37.2 | 38.0 | 38.1 | 38.9 | 40.2 |
| | 8H | 38.5 | 39.2 | 39.4 | 40.2 | 41.4 | 38.5 | 39.2 | 39.4 | 40.2 | 41.4 |
| | 12H | 39.8 | 40.4 | 40.7 | 41.4 | 42.6 | 39.8 | 40.4 | 40.7 | 41.4 | 42.6 |
| 12H | 4H | 34.9 | 35.7 | 35.8 | 36.6 | 37.9 | 34.9 | 35.7 | 35.8 | 36.6 | 37.9 |
| | 6H | 37.5 | 38.2 | 38.4 | 39.2 | 40.4 | 37.5 | 38.2 | 38.4 | 39.2 | 40.4 |
| | 8H | 38.9 | 39.5 | 39.8 | 40.5 | 41.7 | 38.9 | 39.5 | 39.8 | 40.5 | 41.7 |

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|------------------------|---------------------------------------------------|--------------------------------------|---------------------------|------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: D = 77 | H(C0) = 48 H(C90) = 48 | H(C180) = 48 H(C270) = 48 |
|------------------------|---------------------------------------------------|--------------------------------------|---------------------------|------------------------------|

| | |
|----------|--------------------------------|
| C-planes | 0° |
| γ | Luminance in cd/m ² |
| 45° | 42636.0 |
| 50° | 63122.6 |
| 55° | 89343.3 |
| 60° | 122167.2 |
| 65° | 162529.7 |
| 70° | 207288.5 |
| 75° | 264081.4 |
| 80° | 324101.6 |
| 85° | 385066.6 |

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

