

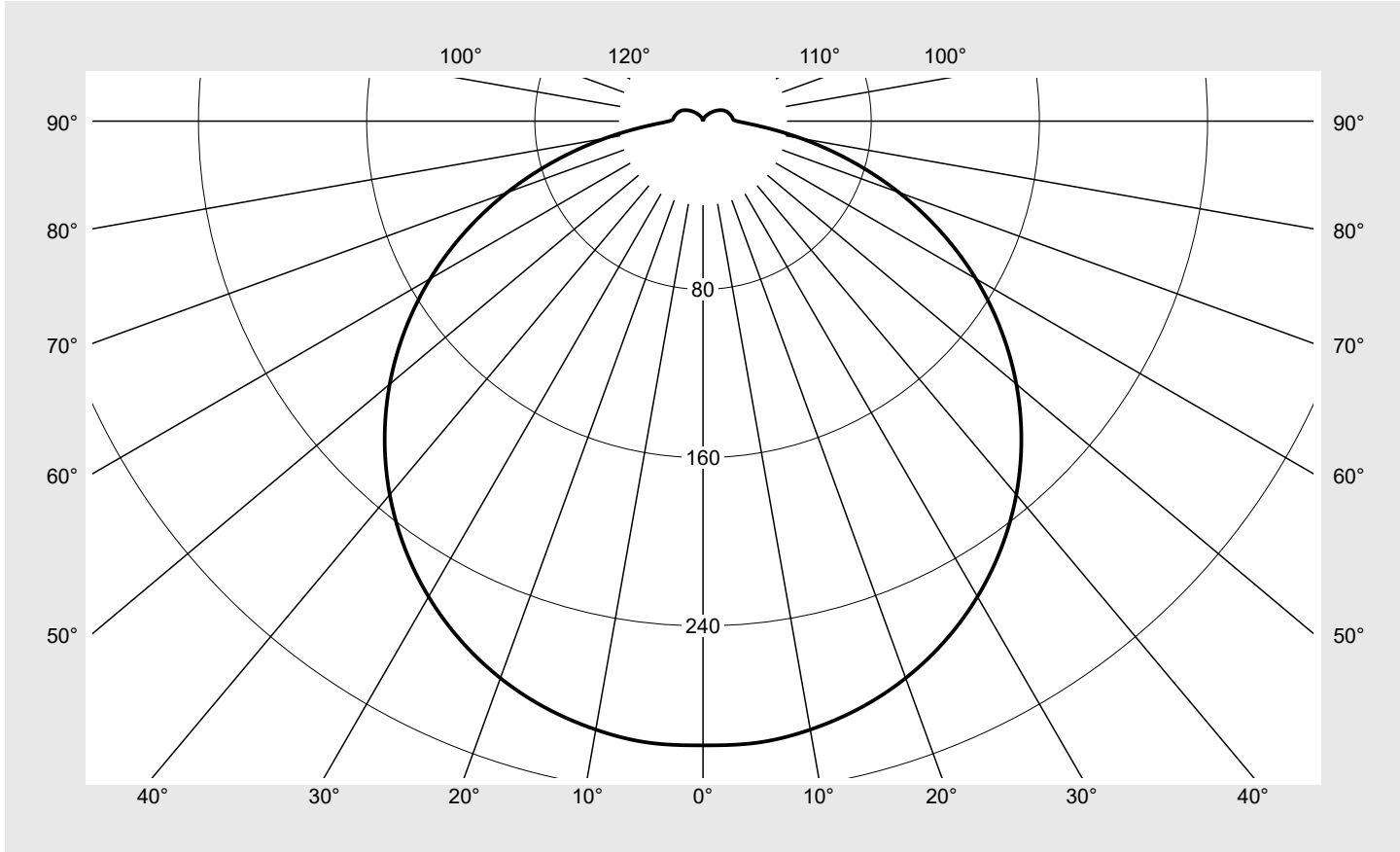


# Photometric test report

|   |  |   |
|---|--|---|
| <b>Family</b><br><b>Rondel 31</b>   | <b>Order number: 51WC10DB34AS</b><br><b>EAN: 4058352616826</b>   | <b>LP number</b><br><b>59345_52</b>   |
|  | <b>Version</b> enclosure, PC, transparent, opal, with presence- and daylightsensor, diffuse beam   | <b>serial documentation</b><br><b>09.08.2023</b>                                    |
|   | <b>Lamps</b> LED 3000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-DALI<br><b>Rated values</b> Net luminous flux = 4250 lm<br>Power consumption = 35.4 W<br>Luminous efficacy = 120.1 lm/W |   |
|   |  |  |

**Luminous intensity in cd/klm** C180-0 **Imax: 297 cd/klm**



| Classifications |                                   |
|-----------------|-----------------------------------|
| DIN 5040        | A 4 1                             |
| CIE             | N1=44 N2=75 N3=94<br>N4=94 N5=100 |

| Luminaire light output ratios |        |
|-------------------------------|--------|
| $\eta_{LB}$                   | 100.0% |
| $\phi_u$                      | 94.2%  |
| $\phi_o$                      | 5.8%   |

| 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°       | 296.8                        | 1.8                     | 1.8            |
| 5°       | 296.7                        | 14.2                    | 15.9           |
| 10°      | 293.8                        | 28.0                    | 43.9           |
| 15°      | 288.9                        | 41.0                    | 84.9           |
| 20°      | 281.8                        | 52.8                    | 137.7          |
| 25°      | 272.6                        | 63.1                    | 200.9          |
| 30°      | 261.1                        | 71.6                    | 272.4          |
| 35°      | 247.5                        | 77.8                    | 350.2          |
| 40°      | 231.8                        | 81.7                    | 431.9          |
| 45°      | 214.2                        | 83.0                    | 514.9          |
| 50°      | 194.6                        | 81.7                    | 596.6          |
| 55°      | 173.0                        | 77.7                    | 674.3          |
| 60°      | 149.9                        | 71.1                    | 745.5          |
| 65°      | 125.1                        | 62.1                    | 807.6          |
| 70°      | 99.2                         | 51.1                    | 858.7          |
| 75°      | 72.7                         | 38.5                    | 897.2          |
| 80°      | 47.5                         | 25.7                    | 922.8          |
| 85°      | 26.9                         | 14.7                    | 937.5          |
| 90°      | 16.1                         | 8.8                     | 946.3          |
| 95°      | 14.2                         | 7.7                     | 954.1          |
| 100°     | 13.7                         | 7.4                     | 961.5          |
| 105°     | 13.1                         | 7.0                     | 968.4          |
| 110°     | 12.4                         | 6.4                     | 974.8          |
| 115°     | 11.6                         | 5.8                     | 980.6          |
| 120°     | 10.4                         | 4.9                     | 985.5          |
| 125°     | 9.0                          | 4.0                     | 989.6          |
| 130°     | 7.6                          | 3.2                     | 992.7          |
| 135°     | 6.1                          | 2.4                     | 995.1          |
| 140°     | 4.9                          | 1.7                     | 996.8          |
| 145°     | 3.8                          | 1.2                     | 998.0          |
| 150°     | 2.9                          | 0.8                     | 998.8          |
| 155°     | 2.2                          | 0.5                     | 999.3          |
| 160°     | 1.6                          | 0.3                     | 999.6          |
| 165°     | 1.3                          | 0.2                     | 999.8          |
| 170°     | 1.2                          | 0.1                     | 999.9          |
| 175°     | 1.2                          | 0.1                     | 1000.0         |
| 180°     | 1.2                          | 0.0                     | 1000.0         |

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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                  | 18.8 | 20.5 | 19.1 | 20.8 | 21.2               | 18.8 | 20.5 | 19.1 | 20.8 | 21.2 |
|                              | 3H                  | 20.5 | 22.1 | 20.9 | 22.4 | 22.8               | 20.5 | 22.1 | 20.9 | 22.4 | 22.8 |
|                              | 4H                  | 21.2 | 22.7 | 21.6 | 23.0 | 23.4               | 21.2 | 22.7 | 21.6 | 23.0 | 23.4 |
|                              | 6H                  | 21.7 | 23.1 | 22.2 | 23.5 | 23.9               | 21.7 | 23.1 | 22.2 | 23.5 | 23.9 |
|                              | 8H                  | 22.0 | 23.3 | 22.4 | 23.6 | 24.0               | 22.0 | 23.3 | 22.4 | 23.6 | 24.0 |
|                              | 12H                 | 22.1 | 23.3 | 22.6 | 23.7 | 24.2               | 22.1 | 23.3 | 22.6 | 23.7 | 24.2 |
| 4H                           | 2H                  | 19.6 | 21.1 | 20.0 | 21.4 | 21.8               | 19.6 | 21.1 | 20.0 | 21.4 | 21.8 |
|                              | 3H                  | 21.5 | 22.8 | 21.9 | 23.1 | 23.5               | 21.5 | 22.8 | 21.9 | 23.1 | 23.5 |
|                              | 4H                  | 22.3 | 23.5 | 22.7 | 23.9 | 24.3               | 22.3 | 23.5 | 22.7 | 23.9 | 24.3 |
|                              | 6H                  | 23.0 | 24.0 | 23.4 | 24.4 | 24.9               | 23.0 | 24.0 | 23.4 | 24.4 | 24.9 |
|                              | 8H                  | 23.2 | 24.1 | 23.7 | 24.6 | 25.1               | 23.2 | 24.1 | 23.7 | 24.6 | 25.1 |
|                              | 12H                 | 23.4 | 24.3 | 23.9 | 24.7 | 25.2               | 23.4 | 24.3 | 23.9 | 24.7 | 25.2 |
| 8H                           | 4H                  | 22.7 | 23.6 | 23.1 | 24.0 | 24.5               | 22.7 | 23.6 | 23.1 | 24.0 | 24.5 |
|                              | 6H                  | 23.5 | 24.2 | 24.0 | 24.7 | 25.2               | 23.5 | 24.2 | 24.0 | 24.7 | 25.2 |
|                              | 8H                  | 23.8 | 24.5 | 24.3 | 25.0 | 25.5               | 23.8 | 24.5 | 24.3 | 25.0 | 25.5 |
|                              | 12H                 | 24.1 | 24.7 | 24.6 | 25.2 | 25.7               | 24.1 | 24.7 | 24.6 | 25.2 | 25.7 |
| 12H                          | 4H                  | 22.7 | 23.6 | 23.2 | 24.0 | 24.5               | 22.7 | 23.6 | 23.2 | 24.0 | 24.5 |
|                              | 6H                  | 23.6 | 24.3 | 24.1 | 24.7 | 25.2               | 23.6 | 24.3 | 24.1 | 24.7 | 25.2 |
|                              | 8H                  | 23.9 | 24.5 | 24.5 | 25.0 | 25.6               | 23.9 | 24.5 | 24.5 | 25.0 | 25.6 |

|                        |   |                                       |                           |                              |
|------------------------|---|---------------------------------------|---------------------------|------------------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | Photometric dimensions in mm: D = 480 | H(C0) = 30<br>H(C90) = 30 | H(C180) = 30<br>H(C270) = 30 |
|------------------------|---|---------------------------------------|---------------------------|------------------------------|

|          |                                |
|----------|--------------------------------|
| C-planes | 0°                             |
| $\gamma$ | Luminance in cd/m <sup>2</sup> |
| 45°      | 6588.9                         |
| 50°      | 6492.8                         |
| 55°      | 6361.8                         |
| 60°      | 6186.4                         |
| 65°      | 5937.0                         |
| 70°      | 5588.9                         |
| 75°      | 5085.1                         |
| 80°      | 4430.3                         |
| 85°      | 3789.3                         |

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

**siteco**

