

## Photometric test report

**Family**  
**Licross® 21 Performance**

**Order number: 52TM16MN4E5M**  
**EAN: 4058352903582**

**LP number**  
**58519\_263**



**Version** cover frosted, direct-/ indirect distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG Multilumen  
**Rated values** Net luminous flux = 14970 lm  
 Power consumption = 83.2 W  
 Luminous efficacy = 179.9 lm/W

**serial**  
**documentation**  
**24.08.2023**

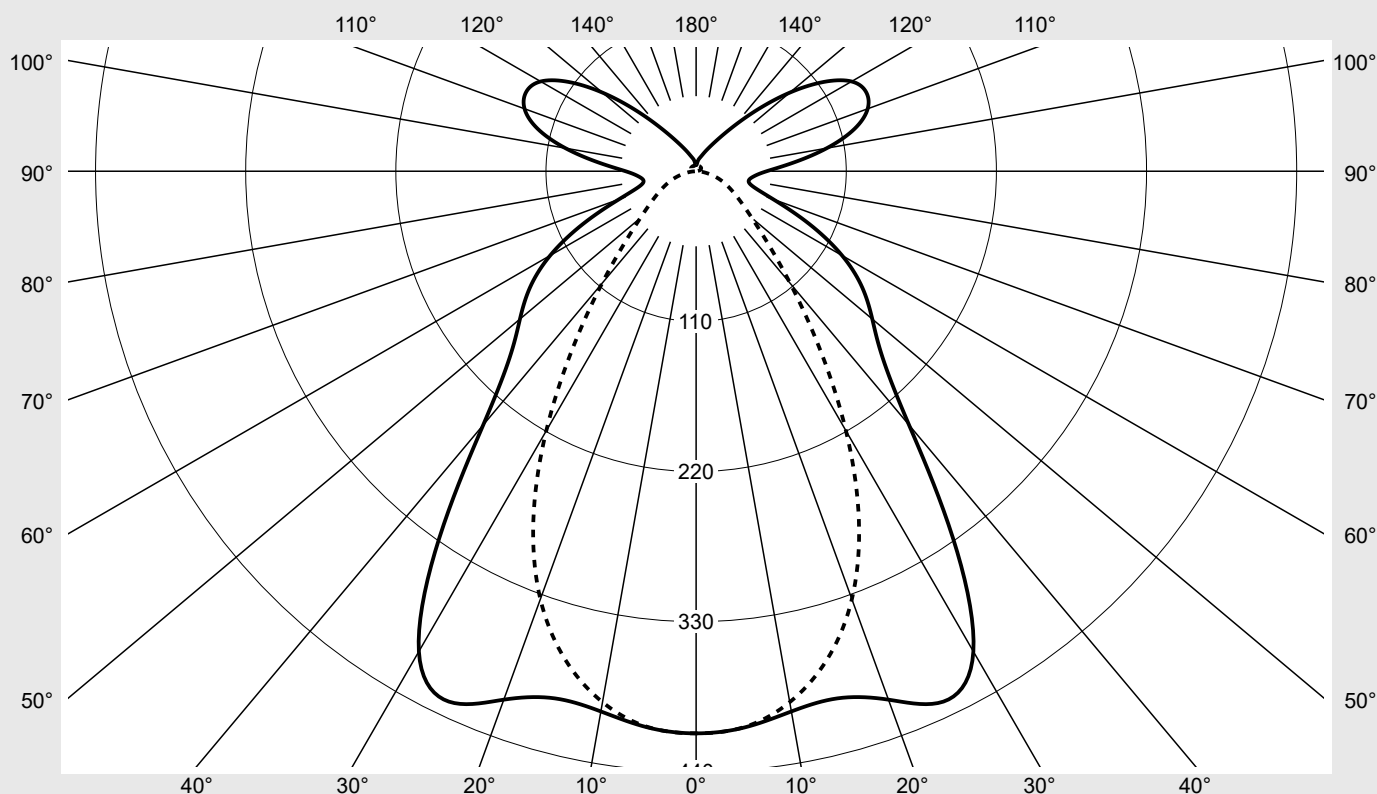
**siteco**

**Luminous intensity in cd/klm**

**C180-0**

**C270-90**

**Imax: 429 cd/klm**



### Classifications

DIN 5040 B 5 1  
 CIE N1=63 N2=86 N3=95  
 N4=78 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  78.1%  
 $\phi_o$  21.9%

### Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Licross® 21 Performance        | Order number: 52TM16MN4E5M<br>EAN: 4058352903582 | LP number<br>58519_263     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 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 |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |                             |                             |                             |                             |                             |             | Luminous flux in lm/klm |                   |
| 0°           | 411.8                        | 411.8                       | 411.8                       | 411.8                       | 411.8                       | 411.8                       | 411.8       | 2.5                     | 2.5               |
| 5°           | 409.0                        | 407.3                       | 405.0                       | 406.4                       | 408.3                       | 408.3                       | 408.7       | 19.5                    | 21.9              |
| 10°          | 401.9                        | 399.8                       | 395.6                       | 394.8                       | 395.0                       | 394.6                       | 395.0       | 37.7                    | 59.6              |
| 15°          | 399.8                        | 396.0                       | 386.0                       | 378.7                       | 373.7                       | 370.5                       | 370.4       | 54.1                    | 113.8             |
| 20°          | 412.0                        | 404.2                       | 382.1                       | 360.3                       | 344.8                       | 335.4                       | 333.6       | 68.7                    | 182.5             |
| 25°          | 428.7                        | 419.7                       | 386.2                       | 342.0                       | 307.4                       | 287.4                       | 282.2       | 81.0                    | 263.5             |
| 30°          | 406.2                        | 406.4                       | 384.2                       | 323.4                       | 261.9                       | 228.9                       | 219.5       | 87.6                    | 351.1             |
| 35°          | 328.1                        | 339.8                       | 351.8                       | 297.2                       | 211.1                       | 168.2                       | 156.8       | 84.4                    | 435.5             |
| 40°          | 242.7                        | 253.2                       | 284.0                       | 257.1                       | 161.6                       | 117.6                       | 107.2       | 73.3                    | 508.8             |
| 45°          | 193.2                        | 191.3                       | 206.1                       | 202.2                       | 118.6                       | 81.5                        | 73.7        | 60.3                    | 569.1             |
| 50°          | 168.5                        | 157.2                       | 146.5                       | 145.8                       | 85.8                        | 58.6                        | 53.4        | 49.3                    | 618.5             |
| 55°          | 148.6                        | 133.1                       | 107.2                       | 99.9                        | 62.9                        | 44.3                        | 40.9        | 40.6                    | 659.0             |
| 60°          | 123.5                        | 108.6                       | 80.0                        | 67.9                        | 46.9                        | 34.4                        | 32.2        | 32.9                    | 691.9             |
| 65°          | 91.5                         | 81.0                        | 59.1                        | 47.5                        | 36.1                        | 27.0                        | 25.4        | 25.6                    | 717.5             |
| 70°          | 60.2                         | 54.5                        | 42.3                        | 34.6                        | 28.0                        | 21.0                        | 19.4        | 18.9                    | 736.4             |
| 75°          | 43.1                         | 39.2                        | 31.3                        | 26.2                        | 21.7                        | 15.5                        | 13.5        | 14.3                    | 750.7             |
| 80°          | 39.2                         | 35.6                        | 27.4                        | 20.7                        | 16.7                        | 10.7                        | 8.0         | 12.1                    | 762.9             |
| 85°          | 42.5                         | 38.8                        | 29.2                        | 19.4                        | 12.9                        | 6.9                         | 3.4         | 11.8                    | 774.7             |
| 90°          | 51.7                         | 47.2                        | 34.3                        | 20.7                        | 11.3                        | 4.4                         | 0.6         | 13.1                    | 787.8             |
| 95°          | 71.3                         | 64.2                        | 44.5                        | 24.7                        | 12.8                        | 5.2                         | 1.1         | 17.1                    | 804.9             |
| 100°         | 97.2                         | 85.6                        | 55.2                        | 28.6                        | 14.3                        | 6.1                         | 1.8         | 21.5                    | 826.4             |
| 105°         | 120.2                        | 103.0                       | 65.3                        | 32.5                        | 15.7                        | 6.9                         | 2.8         | 25.1                    | 851.6             |
| 110°         | 133.8                        | 113.4                       | 72.0                        | 35.7                        | 17.0                        | 7.6                         | 3.5         | 27.0                    | 878.6             |
| 115°         | 137.4                        | 116.7                       | 75.1                        | 37.4                        | 17.7                        | 8.2                         | 3.9         | 27.0                    | 905.5             |
| 120°         | 131.5                        | 112.0                       | 72.9                        | 36.7                        | 17.5                        | 8.5                         | 4.2         | 25.0                    | 930.5             |
| 125°         | 114.0                        | 97.3                        | 64.4                        | 33.4                        | 16.5                        | 8.4                         | 4.4         | 20.9                    | 951.4             |
| 130°         | 89.6                         | 76.8                        | 52.0                        | 28.4                        | 14.9                        | 8.3                         | 4.5         | 15.9                    | 967.3             |
| 135°         | 64.2                         | 55.4                        | 38.9                        | 22.9                        | 13.2                        | 7.9                         | 4.4         | 11.1                    | 978.4             |
| 140°         | 43.4                         | 38.1                        | 28.3                        | 18.4                        | 11.3                        | 7.3                         | 4.5         | 7.5                     | 985.9             |
| 145°         | 29.7                         | 26.7                        | 21.1                        | 14.9                        | 9.5                         | 6.3                         | 4.4         | 5.0                     | 990.9             |
| 150°         | 21.4                         | 19.7                        | 16.5                        | 11.7                        | 8.2                         | 5.8                         | 4.4         | 3.4                     | 994.4             |
| 155°         | 16.0                         | 15.0                        | 12.7                        | 9.4                         | 8.0                         | 5.2                         | 4.3         | 2.3                     | 996.7             |
| 160°         | 12.3                         | 11.7                        | 9.5                         | 8.1                         | 6.6                         | 5.4                         | 4.1         | 1.5                     | 998.2             |
| 165°         | 10.0                         | 9.6                         | 7.9                         | 6.6                         | 5.9                         | 4.7                         | 4.5         | 1.0                     | 999.2             |
| 170°         | 7.8                          | 6.8                         | 5.5                         | 5.6                         | 6.0                         | 4.8                         | 4.8         | 0.6                     | 999.8             |
| 175°         | 4.9                          | 4.4                         | 4.8                         | 4.8                         | 4.9                         | 4.9                         | 5.2         | 0.2                     | 1000.0            |
| 180°         | 4.5                          | 4.5                         | 4.5                         | 4.5                         | 4.5                         | 4.5                         | 4.5         | 0.0                     | 1000.0            |

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|                                   |     |                     |                                                  |      |      |      |                    |      |      |                        |      |
|-----------------------------------|-----|---------------------|--------------------------------------------------|------|------|------|--------------------|------|------|------------------------|------|
| Family<br>Licross® 21 Performance |     |                     | Order number: 52TM16MN4E5M<br>EAN: 4058352903582 |      |      |      |                    |      |      | LP number<br>58519_263 |      |
| 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  | 20.8                | 22.1                                             | 21.4 | 22.6 | 23.3 | 16.4               | 17.6 | 16.9 | 18.2                   | 18.9 |
|                                   | 3H  | 21.6                | 22.7                                             | 22.2 | 23.3 | 24.0 | 16.9               | 18.0 | 17.5 | 18.6                   | 19.3 |
|                                   | 4H  | 21.9                | 22.9                                             | 22.5 | 23.5 | 24.3 | 17.1               | 18.2 | 17.8 | 18.8                   | 19.5 |
|                                   | 6H  | 22.2                | 23.1                                             | 22.9 | 23.8 | 24.6 | 17.3               | 18.3 | 18.0 | 18.9                   | 19.7 |
|                                   | 8H  | 22.5                | 23.3                                             | 23.2 | 23.9 | 24.8 | 17.3               | 18.2 | 18.0 | 18.9                   | 19.7 |
|                                   | 12H | 22.8                | 23.5                                             | 23.5 | 24.2 | 25.1 | 17.3               | 18.2 | 18.0 | 18.9                   | 19.7 |
| 4H                                | 2H  | 20.8                | 21.9                                             | 21.4 | 22.5 | 23.2 | 17.0               | 18.0 | 17.7 | 18.7                   | 19.4 |
|                                   | 3H  | 21.7                | 22.6                                             | 22.4 | 23.3 | 24.0 | 17.7               | 18.5 | 18.4 | 19.2                   | 20.0 |
|                                   | 4H  | 22.1                | 22.9                                             | 22.8 | 23.6 | 24.4 | 18.0               | 18.8 | 18.7 | 19.5                   | 20.3 |
|                                   | 6H  | 22.6                | 23.3                                             | 23.3 | 24.0 | 24.8 | 18.3               | 19.0 | 19.0 | 19.7                   | 20.5 |
|                                   | 8H  | 23.0                | 23.5                                             | 23.7 | 24.3 | 25.2 | 18.4               | 19.0 | 19.1 | 19.7                   | 20.6 |
|                                   | 12H | 23.5                | 24.0                                             | 24.2 | 24.7 | 25.6 | 18.4               | 19.0 | 19.1 | 19.7                   | 20.6 |
| 8H                                | 4H  | 22.1                | 22.7                                             | 22.8 | 23.4 | 24.3 | 18.3               | 18.9 | 19.0 | 19.6                   | 20.5 |
|                                   | 6H  | 22.7                | 23.2                                             | 23.5 | 24.0 | 24.9 | 18.7               | 19.2 | 19.5 | 20.0                   | 20.9 |
|                                   | 8H  | 23.2                | 23.6                                             | 24.0 | 24.4 | 25.3 | 18.9               | 19.4 | 19.7 | 20.1                   | 21.1 |
|                                   | 12H | 23.9                | 24.3                                             | 24.7 | 25.1 | 26.0 | 19.1               | 19.4 | 19.8 | 20.2                   | 21.2 |
| 12H                               | 4H  | 22.0                | 22.6                                             | 22.8 | 23.3 | 24.2 | 18.3               | 18.8 | 19.1 | 19.6                   | 20.5 |
|                                   | 6H  | 22.7                | 23.1                                             | 23.5 | 23.9 | 24.8 | 18.9               | 19.3 | 19.7 | 20.1                   | 21.0 |
|                                   | 8H  | 23.2                | 23.6                                             | 24.0 | 24.4 | 25.3 | 19.1               | 19.5 | 19.9 | 20.3                   | 21.2 |

|                 |          |                                 |                             |                               |                             |                             |                             |                             |
|-----------------|----------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Luminance table |          | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 1480<br>B = 115         | H(C0) = 36<br>H(C90) = 0    | H(C180) = 36<br>H(C270) = 0 |
| C-planes        | $\gamma$ | 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°                 |
|                 |          |                                 | Luminance in cd/m²          |                               |                             |                             |                             |                             |
| 45°             |          | 18306.1                         | 18275.4                     | 20172.5                       | 20595.3                     | 12752.8                     | 9374.8                      | 9170.2                      |
| 50°             |          | 16790.6                         | 15809.4                     | 15154.6                       | 15783.3                     | 9898.1                      | 7317.9                      | 7310.5                      |
| 55°             |          | 15750.0                         | 14250.3                     | 11851.3                       | 11635.2                     | 7879.0                      | 6085.0                      | 6270.9                      |
| 60°             |          | 14083.4                         | 12534.7                     | 9580.8                        | 8635.8                      | 6494.0                      | 5302.9                      | 5661.5                      |
| 65°             |          | 11392.3                         | 10226.5                     | 7773.5                        | 6710.5                      | 5623.5                      | 4792.6                      | 5279.8                      |
| 70°             |          | 8320.3                          | 7658.9                      | 6229.9                        | 5538.7                      | 5037.9                      | 4410.6                      | 4982.6                      |
| 75°             |          | 6754.8                          | 6266.5                      | 5294.5                        | 4878.9                      | 4662.6                      | 4035.9                      | 4597.6                      |
| 80°             |          | 7147.8                          | 6650.1                      | 5472.7                        | 4649.3                      | 4488.8                      | 3727.6                      | 4057.7                      |
| 85°             |          | 9373.3                          | 8776.5                      | 7182.9                        | 5550.3                      | 4663.7                      | 3616.8                      | 3466.5                      |

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Order number: 52TM16MN4E5M  
EAN: 4058352903582

LP number  
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Luminance values in cd/m²

γ 65°

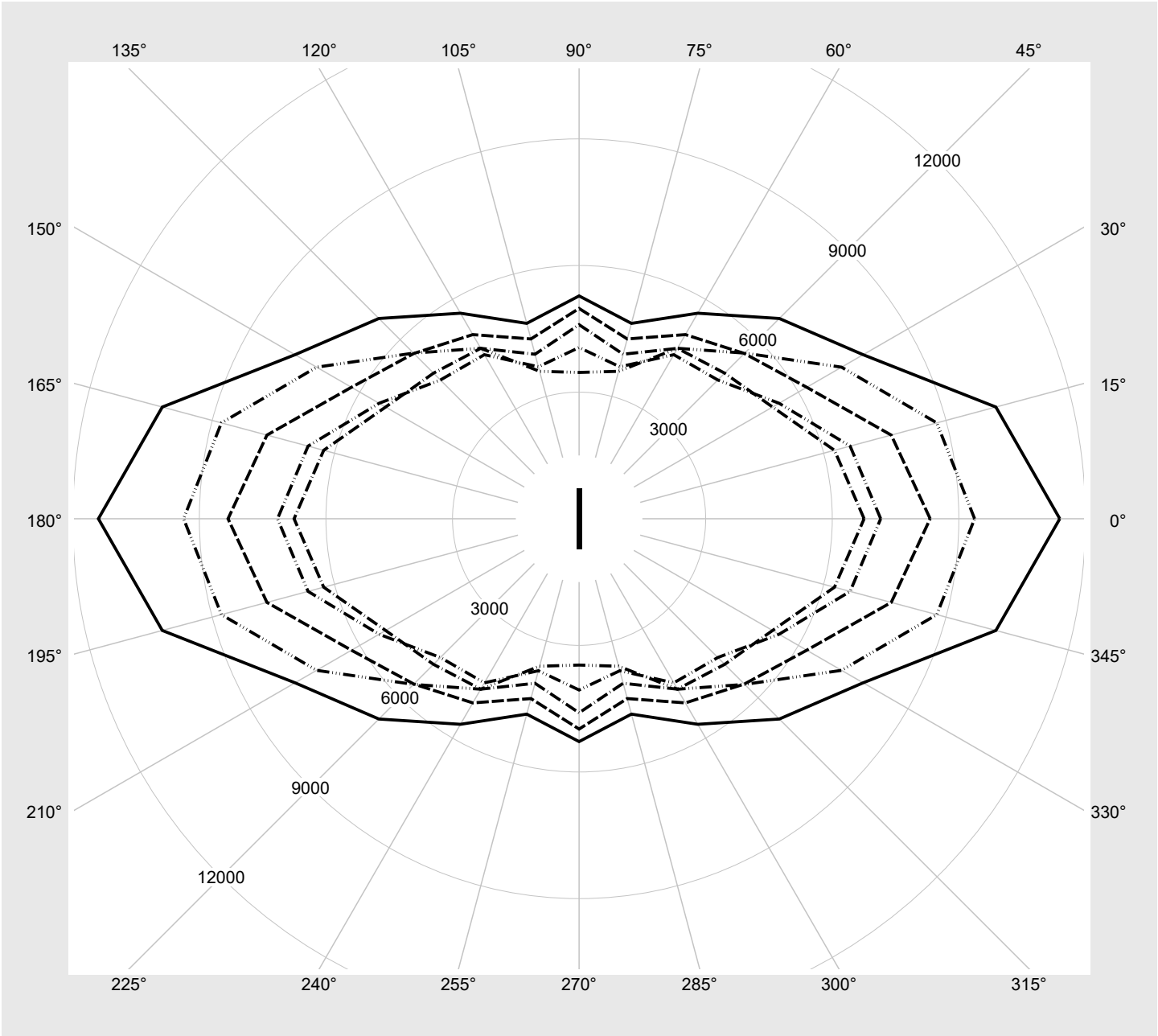
γ 70°

γ 75°

γ 80°

γ 85°

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Multilumen Table

environmental temperature: 25°C

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| DIP-Step | Switch Setting |   |   | Luminous flux<br>[lm] | Power consumption<br>[W] |
|----------|----------------|---|---|-----------------------|--------------------------|
|          | 1              | 2 | 3 |                       |                          |
| 1        | A              | C | E | 14970                 | 83.2                     |
| 2        | A              | C | F | 14060                 | 78.5                     |
| 3        | A              | D | E | 13060                 | 72.4                     |
| 4        | A              | D | F | 12060                 | 66.3                     |
| 5        | B              | C | E | 11040                 | 60.3                     |
| 6        | B              | C | F | 10000                 | 54.3                     |
| 7        | B              | D | E | 9030                  | 48.8                     |
| 8        | B              | D | F | 8050                  | 43.3                     |