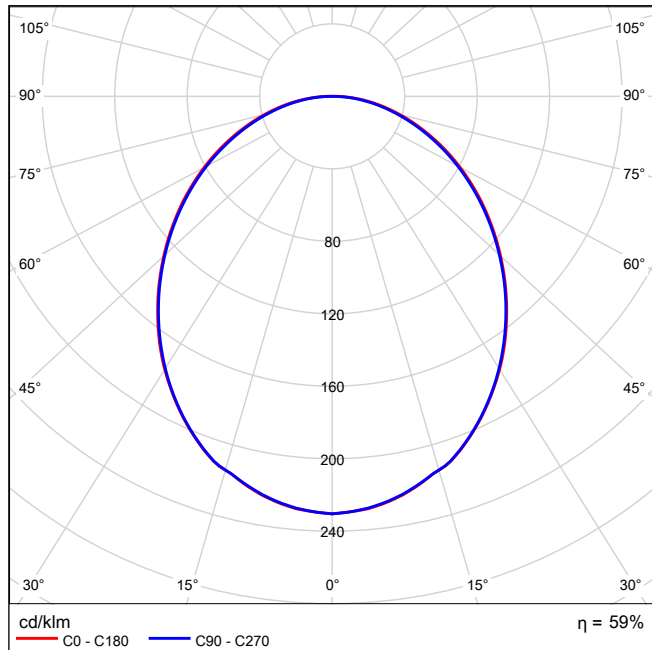
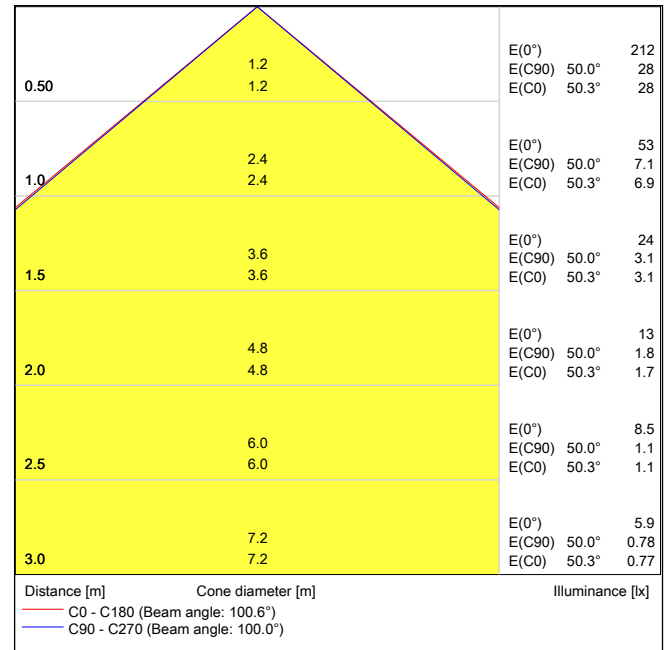


Polar diagram



Cone diagram



UGR diagram

| Glare evaluation according to UGR                                |     |                                                   |      |      |      |      |                                            |      |      |      |      |  |
|------------------------------------------------------------------|-----|---------------------------------------------------|------|------|------|------|--------------------------------------------|------|------|------|------|--|
| p Ceiling                                                        |     | 70                                                | 70   | 50   | 50   | 30   | 70                                         | 70   | 50   | 50   | 30   |  |
| p Walls                                                          |     | 50                                                | 30   | 50   | 30   | 30   | 50                                         | 30   | 50   | 30   | 30   |  |
| p Floor                                                          |     | 20                                                | 20   | 20   | 20   | 20   | 20                                         | 20   | 20   | 20   | 20   |  |
| Room size<br>X<br>Y                                              |     | Viewing direction at right angles<br>to lamp axis |      |      |      |      | Viewing direction parallel<br>to lamp axis |      |      |      |      |  |
| 2H                                                               | 2H  | 17.9                                              | 19.2 | 18.2 | 19.4 | 19.7 | 18.6                                       | 19.9 | 18.9 | 20.1 | 20.4 |  |
|                                                                  | 3H  | 19.2                                              | 20.3 | 19.5 | 20.6 | 20.9 | 20.1                                       | 21.3 | 20.4 | 21.5 | 21.8 |  |
|                                                                  | 4H  | 19.6                                              | 20.7 | 20.0 | 21.0 | 21.3 | 20.7                                       | 21.8 | 21.1 | 22.1 | 22.4 |  |
|                                                                  | 6H  | 20.0                                              | 21.0 | 20.3 | 21.3 | 21.6 | 21.2                                       | 22.3 | 21.6 | 22.6 | 22.9 |  |
|                                                                  | 8H  | 20.1                                              | 21.1 | 20.4 | 21.4 | 21.7 | 21.4                                       | 22.4 | 21.8 | 22.7 | 23.0 |  |
|                                                                  | 12H | 20.1                                              | 21.1 | 20.5 | 21.4 | 21.7 | 21.5                                       | 22.5 | 21.9 | 22.8 | 23.1 |  |
| 4H                                                               | 2H  | 18.6                                              | 19.7 | 18.9 | 20.0 | 20.2 | 19.1                                       | 20.2 | 19.4 | 20.5 | 20.8 |  |
|                                                                  | 3H  | 20.0                                              | 20.9 | 20.4 | 21.3 | 21.6 | 20.7                                       | 21.7 | 21.1 | 22.0 | 22.4 |  |
|                                                                  | 4H  | 20.6                                              | 21.4 | 21.0 | 21.8 | 22.1 | 21.5                                       | 22.4 | 21.9 | 22.7 | 23.1 |  |
|                                                                  | 6H  | 21.0                                              | 21.8 | 21.4 | 22.1 | 22.5 | 22.1                                       | 22.9 | 22.6 | 23.3 | 23.7 |  |
|                                                                  | 8H  | 21.2                                              | 21.8 | 21.6 | 22.2 | 22.6 | 22.4                                       | 23.1 | 22.8 | 23.5 | 23.9 |  |
|                                                                  | 12H | 21.2                                              | 21.9 | 21.7 | 22.3 | 22.7 | 22.5                                       | 23.2 | 23.0 | 23.6 | 24.0 |  |
| 8H                                                               | 4H  | 20.8                                              | 21.5 | 21.3 | 21.9 | 22.3 | 21.7                                       | 22.4 | 22.1 | 22.8 | 23.2 |  |
|                                                                  | 6H  | 21.4                                              | 22.0 | 21.9 | 22.4 | 22.9 | 22.4                                       | 23.0 | 22.9 | 23.4 | 23.9 |  |
|                                                                  | 8H  | 21.6                                              | 22.1 | 22.1 | 22.6 | 23.0 | 22.7                                       | 23.2 | 23.2 | 23.7 | 24.2 |  |
|                                                                  | 12H | 21.8                                              | 22.2 | 22.3 | 22.7 | 23.2 | 23.0                                       | 23.4 | 23.4 | 23.8 | 24.4 |  |
| 12H                                                              | 4H  | 20.9                                              | 21.5 | 21.3 | 21.9 | 22.3 | 21.7                                       | 22.3 | 22.2 | 22.7 | 23.2 |  |
|                                                                  | 6H  | 21.5                                              | 22.0 | 21.9 | 22.4 | 22.9 | 22.5                                       | 23.0 | 23.0 | 23.4 | 23.9 |  |
|                                                                  | 8H  | 21.7                                              | 22.1 | 22.2 | 22.6 | 23.1 | 22.8                                       | 23.2 | 23.3 | 23.7 | 24.2 |  |
| Variation of the observer position for the luminaire distances S |     |                                                   |      |      |      |      |                                            |      |      |      |      |  |
| S = 1.0H<br>S = 1.5H<br>S = 2.0H                                 |     | +0.1 / -0.2<br>+0.3 / -0.5<br>+0.5 / -0.9         |      |      |      |      | +0.1 / -0.1<br>+0.2 / -0.3<br>+0.5 / -0.6  |      |      |      |      |  |
| Standard table                                                   |     | BK05                                              |      |      |      |      | BK06                                       |      |      |      |      |  |
| Correction summand                                               |     | 2.4                                               |      |      |      |      | 4.0                                        |      |      |      |      |  |
| Corrected glare indices referring to 350lm Total luminous flux   |     |                                                   |      |      |      |      |                                            |      |      |      |      |  |

The UGR values are calculated in acc. with CIE Publ. 117. Spacing-to-Height-Ratio = 0.25