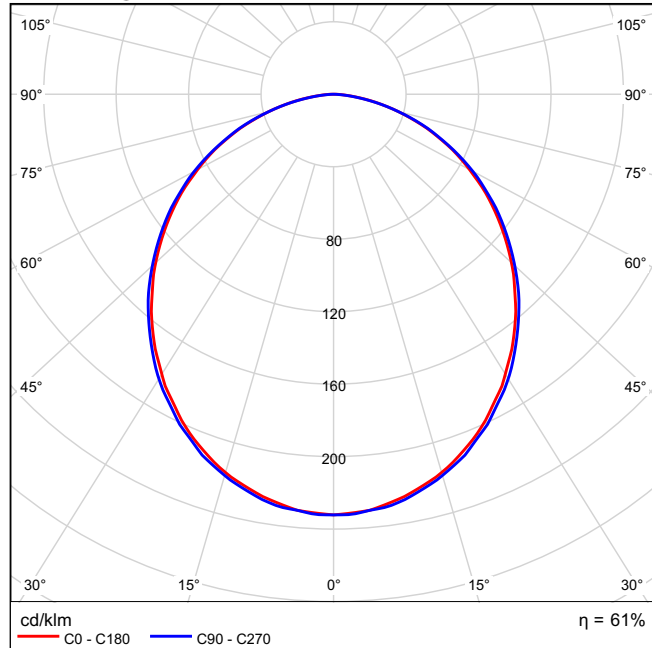
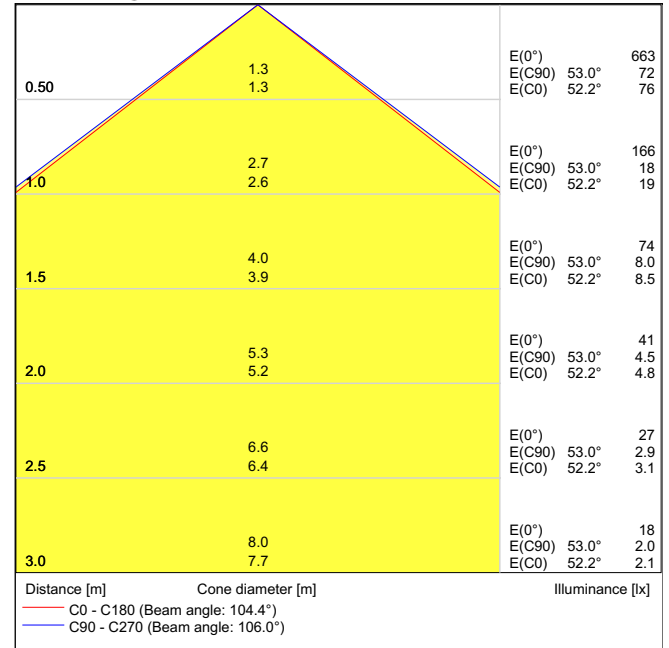


Polar diagram



Cone diagram



UGR diagram

| Glare evaluation according to UGR                                |     |   |      |      |      |      |  |      |      |      |      |      |
|--|-----|---|------|------|------|------|--|------|------|------|------|------|
| $\rho$ Ceiling   |     | 70  | 70   | 50   | 50   | 30   | 70   | 70   | 50   | 50   | 30   | 30   |
| $\rho$ Walls   |     | 50  | 30   | 50   | 30   | 30   | 50   | 30   | 50   | 30   | 30   | 30   |
| $\rho$ Floor   |     | 20  | 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  | 20.9  | 22.2 | 21.2 | 22.4 | 22.6 | 21.8                                       | 23.1 | 22.1 | 23.3 | 23.5 | 23.5 |
|  | 3H  | 22.1  | 23.2 | 22.4 | 23.5 | 23.8 | 23.2                                       | 24.4 | 23.5 | 24.6 | 24.9 | 24.9 |
|  | 4H  | 22.5  | 23.6 | 22.8 | 23.8 | 24.1 | 23.7                                       | 24.8 | 24.1 | 25.1 | 25.4 | 25.4 |
|  | 6H  | 22.7  | 23.7 | 23.0 | 24.0 | 24.3 | 24.1                                       | 25.1 | 24.4 | 25.4 | 25.7 | 25.7 |
|  | 8H  | 22.7  | 23.7 | 23.1 | 24.0 | 24.3 | 24.1                                       | 25.1 | 24.5 | 25.4 | 25.8 | 25.8 |
| 4H   | 12H | 22.7  | 23.6 | 23.1 | 24.0 | 24.3 | 24.2                                       | 25.1 | 24.5 | 25.4 | 25.8 | 25.8 |
|  | 2H  | 21.5  | 22.6 | 21.8 | 22.9 | 23.2 | 22.2                                       | 23.3 | 22.6 | 23.6 | 23.9 | 23.9 |
|  | 3H  | 22.9  | 23.8 | 23.2 | 24.1 | 24.5 | 23.8                                       | 24.8 | 24.2 | 25.1 | 25.4 | 25.4 |
|  | 4H  | 23.4  | 24.2 | 23.7 | 24.5 | 24.9 | 24.4                                       | 25.3 | 24.8 | 25.6 | 26.0 | 26.0 |
|  | 6H  | 23.6  | 24.4 | 24.1 | 24.7 | 25.1 | 24.9                                       | 25.6 | 25.3 | 26.0 | 26.4 | 26.4 |
| 8H   | 8H  | 23.7  | 24.4 | 24.1 | 24.8 | 25.2 | 25.0                                       | 25.6 | 25.4 | 26.0 | 26.4 | 26.4 |
|  | 12H | 23.7  | 24.3 | 24.2 | 24.7 | 25.2 | 25.0                                       | 25.6 | 25.5 | 26.0 | 26.5 | 26.5 |
|  | 4H  | 23.6  | 24.2 | 24.0 | 24.6 | 25.0 | 24.6                                       | 25.2 | 25.0 | 25.6 | 26.1 | 26.1 |
|  | 6H  | 23.9  | 24.5 | 24.4 | 24.9 | 25.4 | 25.1                                       | 25.6 | 25.5 | 26.0 | 26.5 | 26.5 |
|  | 8H  | 24.0  | 24.5 | 24.5 | 25.0 | 25.4 | 25.2                                       | 25.7 | 25.7 | 26.1 | 26.6 | 26.6 |
| 12H  | 12H | 24.1  | 24.5 | 24.6 | 25.0 | 25.5 | 25.3                                       | 25.7 | 25.8 | 26.2 | 26.7 | 26.7 |
|  | 4H  | 23.6  | 24.2 | 24.0 | 24.6 | 25.0 | 24.6                                       | 25.2 | 25.0 | 25.6 | 26.0 | 26.0 |
|  | 6H  | 24.0  | 24.4 | 24.4 | 24.9 | 25.4 | 25.1                                       | 25.5 | 25.6 | 26.0 | 26.5 | 26.5 |
|  | 8H  | 24.1  | 24.5 | 24.6 | 25.0 | 25.5 | 25.2                                       | 25.6 | 25.7 | 26.1 | 26.6 | 26.6 |
| Variation of the observer position for the luminaire distances S |     |   |      |      |      |      |  |      |      |      |      |      |
| S = 1.0H   |     | +0.2 / -0.2                                       |      |      |      |      | +0.1 / -0.1                                |      |      |      |      |      |
| S = 1.5H   |     | +0.3 / -0.6                                       |      |      |      |      | +0.2 / -0.3                                |      |      |      |      |      |
| S = 2.0H   |     | +0.6 / -1.1                                       |      |      |      |      | +0.6 / -0.8                                |      |      |      |      |      |
| Standard table   |     | BK04  |      |      |      |      | BK05                                       |      |      |      |      |      |
| Correction summand   |     | 4.7   |      |      |      |      | 6.3  |      |      |      |      |      |
| Corrected glare indices referring to 714lm Total luminous flux   |     |   |      |      |      |      |  |      |      |      |      |      |

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