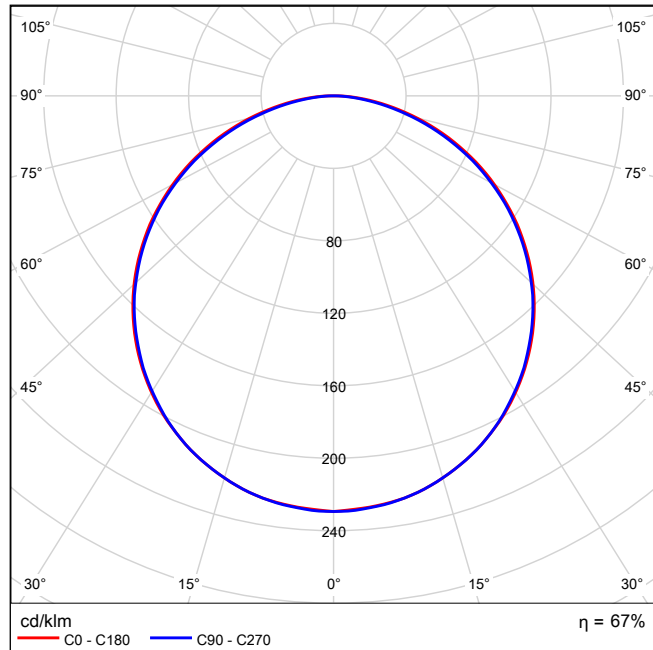
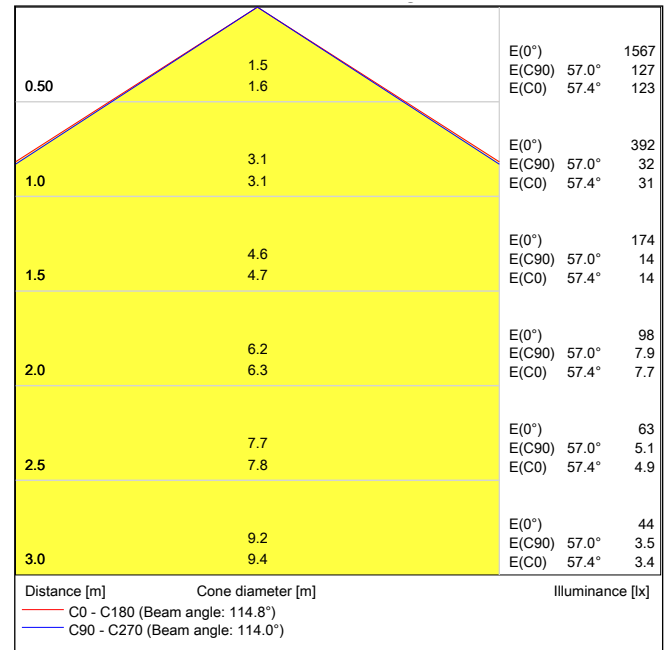


Polar diagram



Cone diagram



UGR diagram

| Glare evaluation according to UGR                                |     |   |      |      |      |      |  |      |      |      |      |  |
|--|-----|---|------|------|------|------|--|------|------|------|------|--|
| ρ Ceiling  |     | 70  | 70   | 50   | 50   | 30   | 70   | 70   | 50   | 50   | 30   |  |
| ρ Walls  |     | 50  | 30   | 50   | 30   | 30   | 50   | 30   | 50   | 30   | 30   |  |
| ρ Floor  |     | 20  | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |  |
| Room size<br>X                  Y                                |     | Viewing direction at right angles<br>to lamp axis |      |      |      |      | Viewing direction parallel<br>to lamp axis |      |      |      |      |  |
| 2H   | 2H  | 20.8  | 22.1 | 21.1 | 22.4 | 22.6 | 21.7                                       | 23.1 | 22.0 | 23.3 | 23.5 |  |
|  | 3H  | 22.1  | 23.3 | 22.4 | 23.6 | 23.8 | 23.3                                       | 24.5 | 23.6 | 24.8 | 25.1 |  |
|  | 4H  | 22.5  | 23.7 | 22.9 | 24.0 | 24.3 | 23.9                                       | 25.1 | 24.3 | 25.4 | 25.6 |  |
|  | 6H  | 22.8  | 23.9 | 23.2 | 24.2 | 24.5 | 24.4                                       | 25.4 | 24.7 | 25.7 | 26.0 |  |
|  | 8H  | 22.9  | 23.9 | 23.3 | 24.2 | 24.6 | 24.5                                       | 25.5 | 24.9 | 25.8 | 26.2 |  |
|  | 12H | 22.9  | 23.9 | 23.3 | 24.2 | 24.6 | 24.6                                       | 25.5 | 24.9 | 25.9 | 26.2 |  |
| 4H   | 2H  | 21.5  | 22.6 | 21.8 | 22.9 | 23.2 | 22.2                                       | 23.4 | 22.6 | 23.7 | 23.9 |  |
|  | 3H  | 22.9  | 23.9 | 23.3 | 24.2 | 24.6 | 23.9                                       | 24.9 | 24.3 | 25.2 | 25.6 |  |
|  | 4H  | 23.5  | 24.4 | 23.9 | 24.7 | 25.1 | 24.7                                       | 25.5 | 25.1 | 25.9 | 26.3 |  |
|  | 6H  | 23.9  | 24.6 | 24.3 | 25.0 | 25.4 | 25.2                                       | 26.0 | 25.6 | 26.3 | 26.7 |  |
|  | 8H  | 24.0  | 24.7 | 24.4 | 25.1 | 25.5 | 25.4                                       | 26.1 | 25.8 | 26.5 | 26.9 |  |
|  | 12H | 24.0  | 24.7 | 24.5 | 25.1 | 25.5 | 25.5                                       | 26.1 | 25.9 | 26.5 | 27.0 |  |
| 8H   | 4H  | 23.8  | 24.5 | 24.2 | 24.9 | 25.3 | 24.8                                       | 25.5 | 25.3 | 25.9 | 26.3 |  |
|  | 6H  | 24.2  | 24.8 | 24.7 | 25.2 | 25.7 | 25.4                                       | 26.0 | 25.9 | 26.4 | 26.9 |  |
|  | 8H  | 24.4  | 24.9 | 24.9 | 25.4 | 25.8 | 25.7                                       | 26.2 | 26.1 | 26.6 | 27.1 |  |
|  | 12H | 24.5  | 24.9 | 25.0 | 25.4 | 25.9 | 25.8                                       | 26.3 | 26.3 | 26.7 | 27.2 |  |
| 12H  | 4H  | 23.8  | 24.4 | 24.2 | 24.8 | 25.3 | 24.8                                       | 25.5 | 25.3 | 25.9 | 26.3 |  |
|  | 6H  | 24.3  | 24.8 | 24.8 | 25.2 | 25.7 | 25.5                                       | 26.0 | 25.9 | 26.4 | 26.9 |  |
|  | 8H  | 24.5  | 24.9 | 25.0 | 25.4 | 25.9 | 25.7                                       | 26.1 | 26.2 | 26.6 | 27.1 |  |
| 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 / -0.2<br>+0.6 / -0.7  |      |      |      |      |  |
| Standard table   |     | BK05  |      |      |      |      | BK05                                       |      |      |      |      |  |
| Correction summand   |     | 5.7   |      |      |      |      | 7.0  |      |      |      |      |  |
| Corrected glare indices referring to 1708lm Total luminous flux  |     |   |      |      |      |      |  |      |      |      |      |  |

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