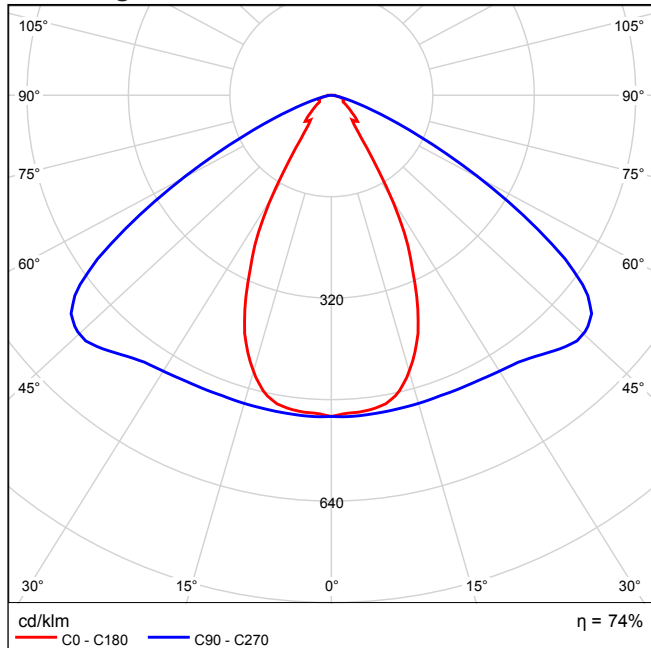
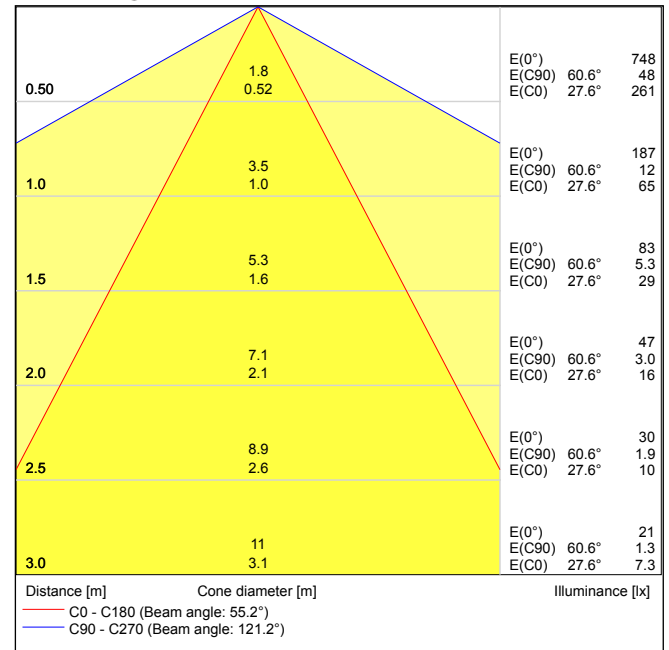


Polar diagram



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  | 11.6  | 12.6 | 11.9 | 12.8 | 13.0 | 24.2                                       | 25.2 | 24.5 | 25.4 | 25.6 |  |
|  | 3H  | 12.7  | 13.6 | 13.0 | 13.8 | 14.1 | 24.7                                       | 25.6 | 25.0 | 25.8 | 26.1 |  |
|  | 4H  | 13.4  | 14.2 | 13.7 | 14.4 | 14.7 | 24.7                                       | 25.6 | 25.1 | 25.8 | 26.1 |  |
|  | 6H  | 13.7  | 14.5 | 14.1 | 14.8 | 15.1 | 24.7                                       | 25.5 | 25.1 | 25.8 | 26.1 |  |
|  | 8H  | 13.8  | 14.6 | 14.2 | 14.9 | 15.2 | 24.7                                       | 25.4 | 25.0 | 25.7 | 26.0 |  |
|  | 12H | 13.9  | 14.6 | 14.3 | 14.9 | 15.2 | 24.7                                       | 25.4 | 25.0 | 25.7 | 26.0 |  |
| 4H   | 2H  | 11.9  | 12.8 | 12.2 | 13.0 | 13.3 | 24.0                                       | 24.8 | 24.3 | 25.1 | 25.4 |  |
|  | 3H  | 13.3  | 14.0 | 13.6 | 14.3 | 14.6 | 24.5                                       | 25.2 | 24.8 | 25.5 | 25.8 |  |
|  | 4H  | 14.1  | 14.8 | 14.5 | 15.1 | 15.5 | 24.6                                       | 25.2 | 24.9 | 25.5 | 25.9 |  |
|  | 6H  | 14.7  | 15.2 | 15.1 | 15.6 | 16.0 | 24.5                                       | 25.1 | 25.0 | 25.4 | 25.8 |  |
|  | 8H  | 14.8  | 15.3 | 15.2 | 15.7 | 16.1 | 24.5                                       | 25.0 | 25.0 | 25.4 | 25.8 |  |
|  | 12H | 14.9  | 15.3 | 15.3 | 15.7 | 16.2 | 24.5                                       | 24.9 | 24.9 | 25.3 | 25.8 |  |
| 8H   | 4H  | 14.4  | 14.9 | 14.9 | 15.3 | 15.7 | 24.5                                       | 24.9 | 24.9 | 25.3 | 25.7 |  |
|  | 6H  | 15.1  | 15.5 | 15.5 | 15.9 | 16.4 | 24.5                                       | 24.9 | 24.9 | 25.3 | 25.7 |  |
|  | 8H  | 15.3  | 15.6 | 15.7 | 16.1 | 16.5 | 24.5                                       | 24.8 | 24.9 | 25.2 | 25.7 |  |
|  | 12H | 15.4  | 15.7 | 15.9 | 16.2 | 16.7 | 24.4                                       | 24.7 | 24.9 | 25.2 | 25.7 |  |
| 12H  | 4H  | 14.5  | 14.9 | 14.9 | 15.3 | 15.7 | 24.4                                       | 24.9 | 24.9 | 25.3 | 25.7 |  |
|  | 6H  | 15.2  | 15.5 | 15.6 | 15.9 | 16.4 | 24.4                                       | 24.8 | 24.9 | 25.2 | 25.7 |  |
|  | 8H  | 15.4  | 15.7 | 15.9 | 16.1 | 16.6 | 24.4                                       | 24.7 | 24.9 | 25.2 | 25.7 |  |
| Variation of the observer position for the luminaire distances S |     |   |      |      |      |      |  |      |      |      |      |  |
| S = 1.0H   |     | +0.6 / -0.4                                       |      |      |      |      | +1.8 / -5.0                                |      |      |      |      |  |
| S = 1.5H   |     | +1.4 / -0.9                                       |      |      |      |      | +4.1 / -7.3                                |      |      |      |      |  |
| S = 2.0H   |     | +2.4 / -1.2                                       |      |      |      |      | +6.0 / -8.5                                |      |      |      |      |  |
| Standard table   |     | BK05  |      |      |      |      | BK01                                       |      |      |      |      |  |
| Correction summand   |     | -3.4  |      |      |      |      | 5.6  |      |      |      |      |  |
| Corrected glare indices referring to 369lm Total luminous flux   |     |   |      |      |      |      |  |      |      |      |      |  |

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