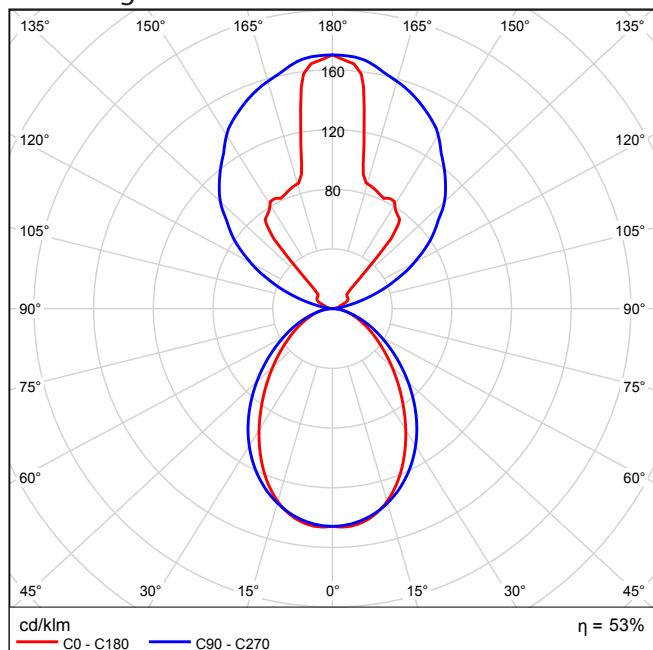
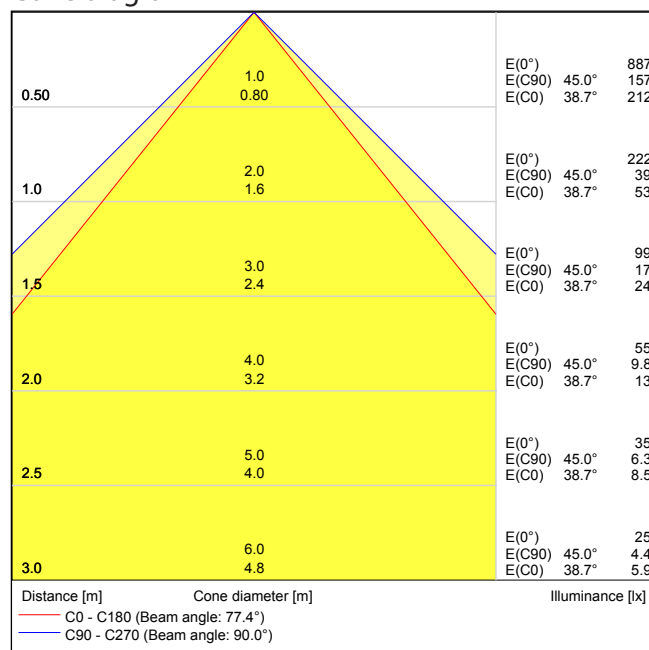


Polar diagram



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  | 16.7        | 17.5 | 17.5 | 18.3 | 19.3                                       | 18.9        | 19.7 | 19.7 | 20.5 | 21.5 |  |
|  | 3H  | 17.4        | 18.1 | 18.2 | 18.9 | 20.0                                       | 19.8        | 20.5 | 20.7 | 21.4 | 22.4 |  |
|  | 4H  | 17.6        | 18.3 | 18.5 | 19.1 | 20.2                                       | 20.1        | 20.8 | 21.0 | 21.6 | 22.7 |  |
|  | 6H  | 17.8        | 18.4 | 18.7 | 19.3 | 20.4                                       | 20.3        | 20.9 | 21.2 | 21.8 | 22.9 |  |
|  | 8H  | 17.8        | 18.4 | 18.7 | 19.3 | 20.4                                       | 20.3        | 20.9 | 21.2 | 21.8 | 22.9 |  |
| 4H   | 12H   | 17.9        | 18.4 | 18.8 | 19.3 | 20.4                                       | 20.3        | 20.9 | 21.2 | 21.8 | 22.9 |  |
|  | 2H  | 17.1        | 17.8 | 18.0 | 18.6 | 19.7                                       | 18.9        | 19.6 | 19.8 | 20.5 | 21.5 |  |
|  | 3H  | 17.9        | 18.5 | 18.8 | 19.4 | 20.5                                       | 20.0        | 20.6 | 20.9 | 21.5 | 22.6 |  |
|  | 4H  | 18.3        | 18.8 | 19.2 | 19.7 | 20.8                                       | 20.4        | 20.9 | 21.4 | 21.8 | 23.0 |  |
|  | 6H  | 18.5        | 18.9 | 19.5 | 19.9 | 21.0                                       | 20.7        | 21.1 | 21.7 | 22.1 | 23.2 |  |
| 8H   | 8H  | 18.6        | 19.0 | 19.5 | 19.9 | 21.1                                       | 20.8        | 21.2 | 21.7 | 22.1 | 23.3 |  |
|  | 12H   | 18.7        | 19.0 | 19.6 | 19.9 | 21.2                                       | 20.8        | 21.1 | 21.8 | 22.1 | 23.3 |  |
|  | 4H  | 18.4        | 18.8 | 19.3 | 19.7 | 20.9                                       | 20.4        | 20.8 | 21.4 | 21.7 | 22.9 |  |
|  | 6H  | 18.7        | 19.0 | 19.7 | 20.0 | 21.2                                       | 20.8        | 21.1 | 21.7 | 22.0 | 23.2 |  |
|  | 8H  | 18.9        | 19.1 | 19.9 | 20.1 | 21.4                                       | 20.9        | 21.1 | 21.9 | 22.1 | 23.4 |  |
| 12H  | 12H   | 19.0        | 19.2 | 20.0 | 20.2 | 21.5                                       | 20.9        | 21.2 | 21.9 | 22.1 | 23.4 |  |
|  | 4H  | 18.4        | 18.7 | 19.3 | 19.7 | 20.9                                       | 20.3        | 20.7 | 21.3 | 21.6 | 22.8 |  |
|  | 6H  | 18.7        | 19.0 | 19.7 | 20.0 | 21.2                                       | 20.7        | 21.0 | 21.7 | 22.0 | 23.2 |  |
|  | 8H  | 18.9        | 19.1 | 19.9 | 20.1 | 21.4                                       | 20.9        | 21.1 | 21.9 | 22.1 | 23.3 |  |
| Variation of the observer position for the luminaire distances S |   |             |      |      |      |  |             |      |      |      |      |  |
| S = 1.0H   |   | +0.3 / -0.4 |      |      |      |  | +0.2 / -0.3 |      |      |      |      |  |
| S = 1.5H   |   | +0.5 / -0.9 |      |      |      |  | +0.4 / -0.6 |      |      |      |      |  |
| S = 2.0H   |   | +0.9 / -1.5 |      |      |      |  | +1.2 / -1.2 |      |      |      |      |  |
| Standard table   |   | BK04        |      |      |      |  | BK04        |      |      |      |      |  |
| Correction summand   |   | 0.6         |      |      |      |  | 2.7         |      |      |      |      |  |
| Corrected glare indices referring to 1520lm Total luminous flux  |   |             |      |      |      |  |             |      |      |      |      |  |

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