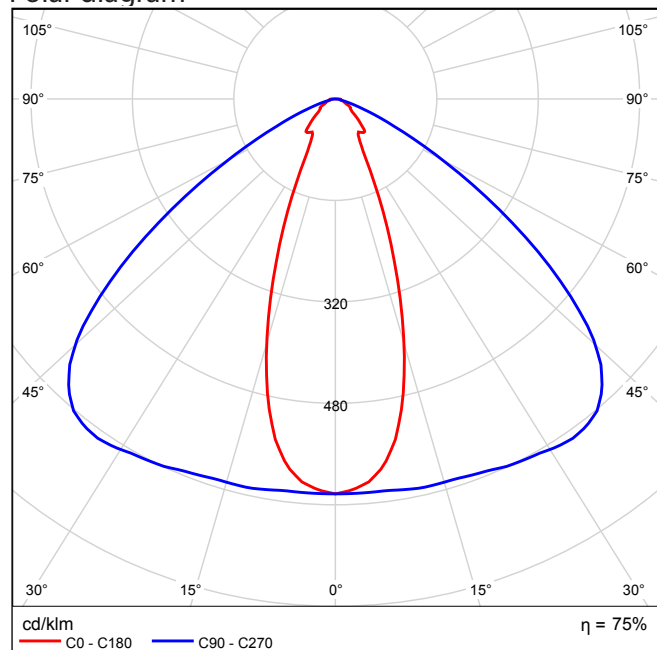
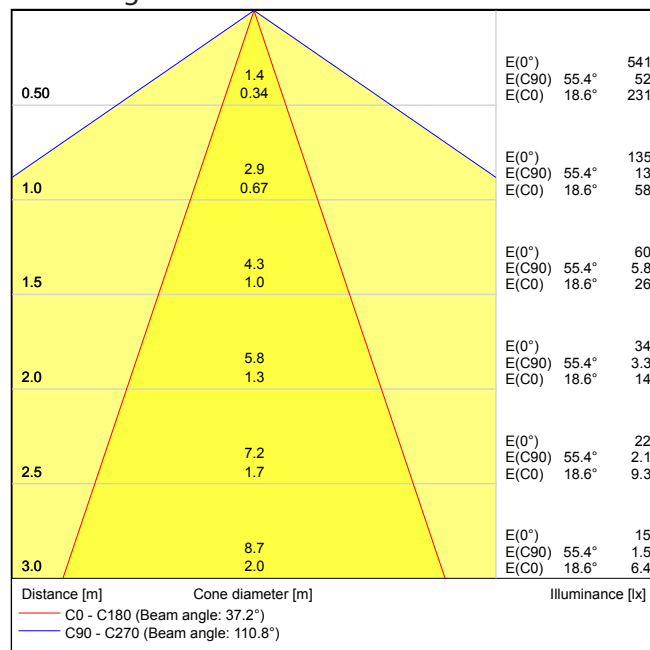


Polar diagram



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<br>Y  | Viewing direction at right angles<br>to lamp axis |             |      |      |      | Viewing direction parallel<br>to lamp axis |             |      |      |      |      |  |
| 2H   | 2H  | 8.8         | 9.7  | 9.0  | 9.9  | 10.1                                       | 21.9        | 22.8 | 22.2 | 23.1 | 23.3 |  |
|  | 3H  | 9.5         | 10.4 | 9.8  | 10.6 | 10.9                                       | 22.2        | 23.1 | 22.5 | 23.3 | 23.6 |  |
|  | 4H  | 9.8         | 10.6 | 10.1 | 10.9 | 11.2                                       | 22.2        | 23.0 | 22.5 | 23.3 | 23.6 |  |
|  | 6H  | 10.1        | 10.9 | 10.4 | 11.1 | 11.4                                       | 22.2        | 22.9 | 22.5 | 23.2 | 23.5 |  |
|  | 8H  | 10.3        | 11.0 | 10.6 | 11.3 | 11.6                                       | 22.2        | 22.9 | 22.5 | 23.2 | 23.5 |  |
|  | 12H   | 10.5        | 11.2 | 10.8 | 11.5 | 11.8                                       | 22.1        | 22.8 | 22.5 | 23.1 | 23.4 |  |
| 4H   | 2H  | 9.3         | 10.1 | 9.6  | 10.4 | 10.7                                       | 21.7        | 22.5 | 22.0 | 22.7 | 23.0 |  |
|  | 3H  | 10.2        | 10.8 | 10.5 | 11.2 | 11.5                                       | 22.0        | 22.7 | 22.4 | 23.0 | 23.3 |  |
|  | 4H  | 10.6        | 11.2 | 11.0 | 11.5 | 11.9                                       | 22.0        | 22.6 | 22.4 | 23.0 | 23.3 |  |
|  | 6H  | 11.0        | 11.5 | 11.4 | 11.9 | 12.3                                       | 22.0        | 22.5 | 22.4 | 22.9 | 23.3 |  |
|  | 8H  | 11.3        | 11.7 | 11.7 | 12.1 | 12.5                                       | 22.0        | 22.5 | 22.4 | 22.9 | 23.3 |  |
|  | 12H   | 11.6        | 12.0 | 12.0 | 12.4 | 12.8                                       | 22.0        | 22.4 | 22.4 | 22.8 | 23.2 |  |
| 8H   | 4H  | 10.9        | 11.4 | 11.4 | 11.8 | 12.2                                       | 21.9        | 22.4 | 22.4 | 22.8 | 23.2 |  |
|  | 6H  | 11.5        | 11.9 | 12.0 | 12.3 | 12.7                                       | 21.9        | 22.3 | 22.4 | 22.7 | 23.2 |  |
|  | 8H  | 11.9        | 12.2 | 12.3 | 12.6 | 13.1                                       | 21.9        | 22.3 | 22.4 | 22.7 | 23.2 |  |
|  | 12H   | 12.3        | 12.6 | 12.8 | 13.0 | 13.5                                       | 21.9        | 22.2 | 22.4 | 22.7 | 23.2 |  |
| 12H  | 4H  | 11.0        | 11.4 | 11.4 | 11.8 | 12.2                                       | 21.9        | 22.3 | 22.3 | 22.7 | 23.2 |  |
|  | 6H  | 11.6        | 11.9 | 12.1 | 12.4 | 12.9                                       | 21.9        | 22.2 | 22.4 | 22.7 | 23.2 |  |
|  | 8H  | 12.0        | 12.3 | 12.5 | 12.8 | 13.3                                       | 21.9        | 22.2 | 22.4 | 22.7 | 23.1 |  |
|  |   |             |      |      |      |  |             |      |      |      |      |  |
| Variation of the observer position for the luminaire distances S |   |             |      |      |      |  |             |      |      |      |      |  |
| S = 1.0H   |   | +0.5 / -0.7 |      |      |      |  | +1.9 / -3.7 |      |      |      |      |  |
| S = 1.5H   |   | +0.9 / -1.2 |      |      |      |  | +4.1 / -5.7 |      |      |      |      |  |
| S = 2.0H   |   | +2.0 / -1.5 |      |      |      |  | +6.0 / -7.3 |      |      |      |      |  |
| Standard table   |   | BK05        |      |      |      |  | BK01        |      |      |      |      |  |
| Correction summand   |   | -6.5        |      |      |      |  | 3.1         |      |      |      |      |  |
| Corrected glare indices referring to 217lm Total luminous flux   |   |             |      |      |      |  |             |      |      |      |      |  |

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