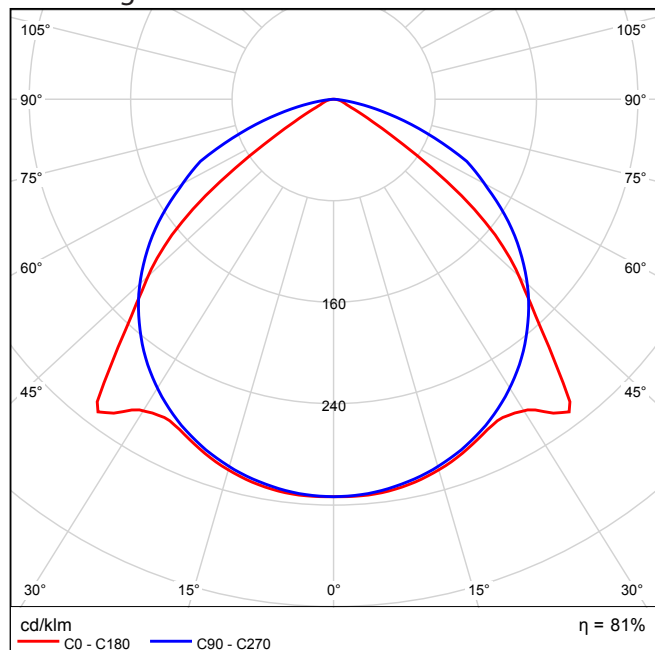
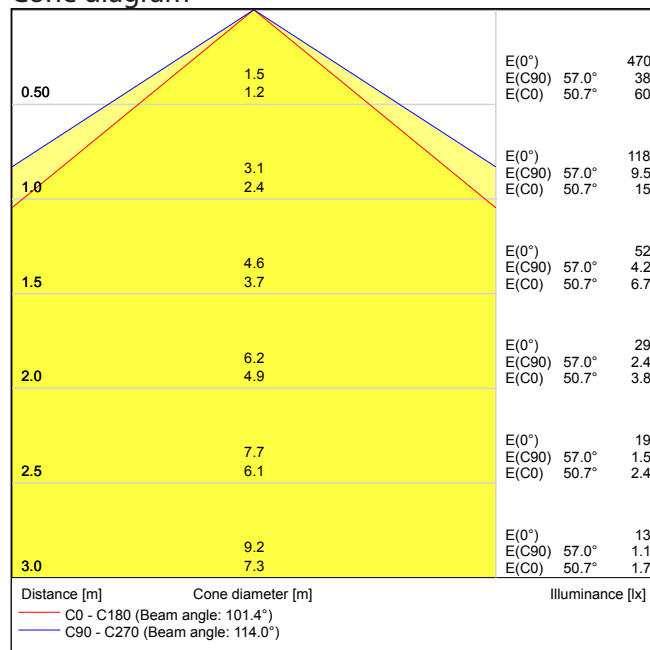


Polar diagram



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  | 21.0         | 22.3 | 21.3 | 22.5 | 22.7                                       | 24.3        | 25.5 | 24.6 | 25.7 | 25.9 |  |
|  | 3H  | 20.9         | 22.0 | 21.2 | 22.3 | 22.5                                       | 25.5        | 26.6 | 25.8 | 26.9 | 27.1 |  |
|  | 4H  | 20.9         | 21.9 | 21.2 | 22.2 | 22.4                                       | 25.9        | 26.9 | 26.2 | 27.2 | 27.5 |  |
|  | 6H  | 20.8         | 21.7 | 21.2 | 22.0 | 22.3                                       | 26.0        | 27.0 | 26.4 | 27.3 | 27.6 |  |
|  | 8H  | 20.8         | 21.7 | 21.1 | 22.0 | 22.3                                       | 26.0        | 26.9 | 26.4 | 27.2 | 27.5 |  |
|  | 12H   | 20.7         | 21.6 | 21.1 | 21.9 | 22.2                                       | 26.0        | 26.9 | 26.4 | 27.2 | 27.5 |  |
| 4H   | 2H  | 21.6         | 22.6 | 21.9 | 22.9 | 23.2                                       | 24.4        | 25.4 | 24.7 | 25.7 | 26.0 |  |
|  | 3H  | 21.5         | 22.4 | 21.9 | 22.7 | 23.0                                       | 25.7        | 26.6 | 26.1 | 26.9 | 27.2 |  |
|  | 4H  | 21.5         | 22.2 | 21.9 | 22.6 | 22.9                                       | 26.1        | 26.9 | 26.5 | 27.2 | 27.6 |  |
|  | 6H  | 21.4         | 22.1 | 21.8 | 22.4 | 22.8                                       | 26.3        | 27.0 | 26.7 | 27.3 | 27.7 |  |
|  | 8H  | 21.4         | 22.0 | 21.8 | 22.4 | 22.8                                       | 26.3        | 26.9 | 26.8 | 27.3 | 27.7 |  |
|  | 12H   | 21.4         | 21.9 | 21.8 | 22.3 | 22.7                                       | 26.3        | 26.9 | 26.8 | 27.3 | 27.7 |  |
| 8H   | 4H  | 21.5         | 22.1 | 21.9 | 22.5 | 22.9                                       | 26.0        | 26.6 | 26.5 | 27.0 | 27.4 |  |
|  | 6H  | 21.5         | 21.9 | 21.9 | 22.4 | 22.8                                       | 26.2        | 26.7 | 26.7 | 27.1 | 27.6 |  |
|  | 8H  | 21.4         | 21.8 | 21.9 | 22.3 | 22.8                                       | 26.2        | 26.7 | 26.7 | 27.1 | 27.6 |  |
|  | 12H   | 21.4         | 21.8 | 21.9 | 22.2 | 22.7                                       | 26.2        | 26.6 | 26.7 | 27.1 | 27.6 |  |
| 12H  | 4H  | 21.5         | 22.0 | 21.9 | 22.4 | 22.8                                       | 26.0        | 26.5 | 26.5 | 27.0 | 27.4 |  |
|  | 6H  | 21.4         | 21.8 | 21.9 | 22.3 | 22.8                                       | 26.2        | 26.6 | 26.7 | 27.1 | 27.5 |  |
|  | 8H  | 21.4         | 21.8 | 21.9 | 22.2 | 22.7                                       | 26.2        | 26.6 | 26.7 | 27.0 | 27.5 |  |
| Variation of the observer position for the luminaire distances S |   |              |      |      |      |  |             |      |      |      |      |  |
| S = 1.0H   |   | +0.7 / -1.2  |      |      |      |  | +0.1 / -0.2 |      |      |      |      |  |
| S = 1.5H   |   | +2.0 / -7.1  |      |      |      |  | +0.4 / -0.6 |      |      |      |      |  |
| S = 2.0H   |   | +3.2 / -10.7 |      |      |      |  | +1.1 / -1.4 |      |      |      |      |  |
| Standard table   |   | BK01         |      |      |      |  | BK03        |      |      |      |      |  |
| Correction summand   |   | 2.8          |      |      |      |  | 8.0         |      |      |      |      |  |
| Corrected glare indices referring to 375lm Total luminous flux   |   |              |      |      |      |  |             |      |      |      |      |  |

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