

# Project 1

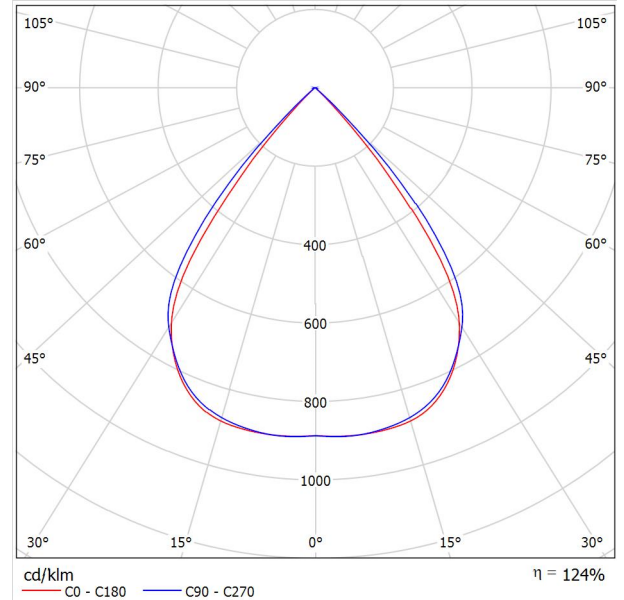
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## GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade / Luminaire Data Sheet

### Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100  
 CIE flux code: 91 99 100 100 124

### Luminous emittance 1:

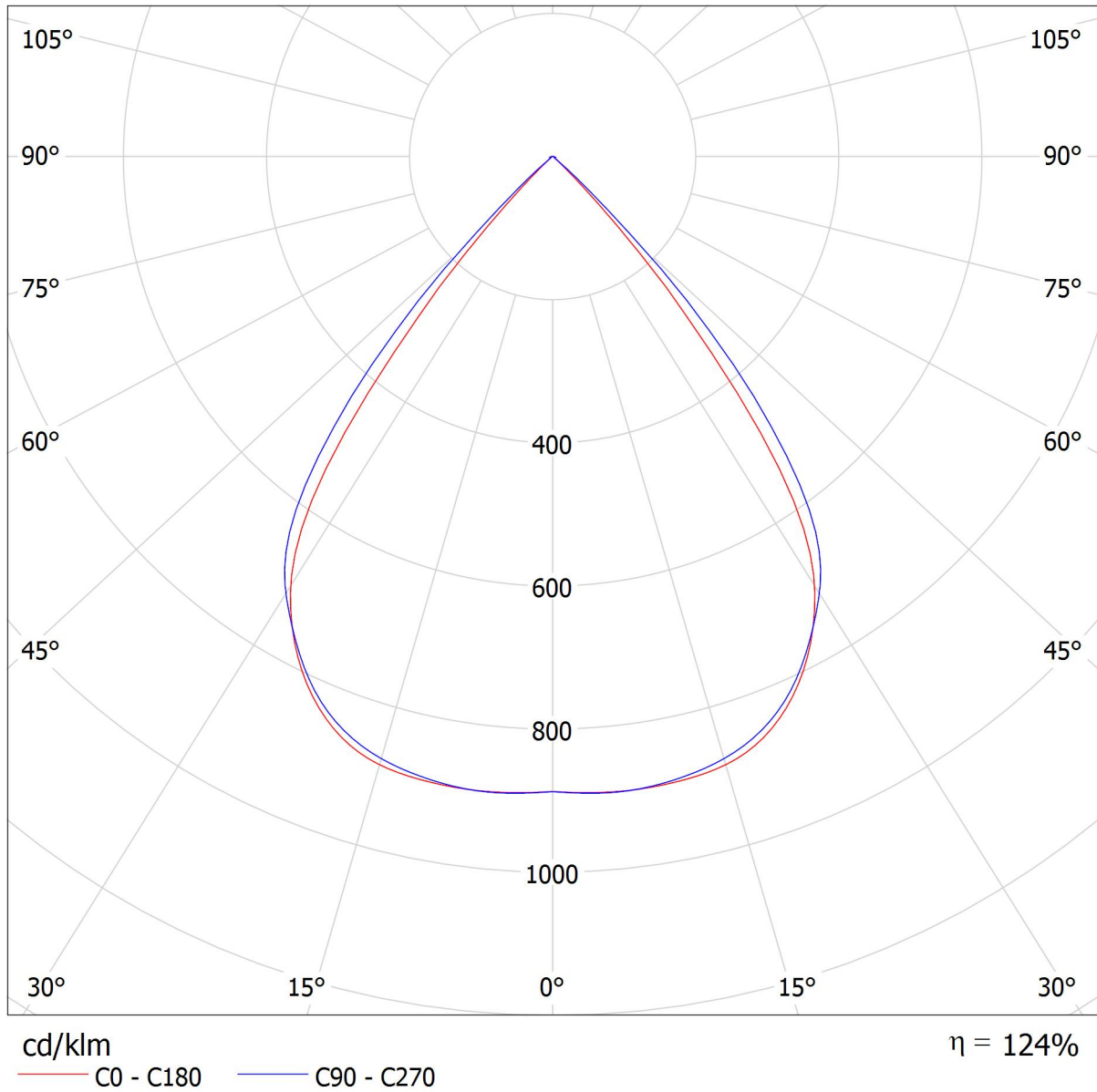
| Glare Evaluation According to UGR                                |  |      |      |      |      |   |      |      |      |      |      |
|--|--|------|------|------|------|---|------|------|------|------|------|
| ρ Ceiling  | 70   | 70   | 50   | 50   | 30   | 70                                      | 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 X Y  | Viewing direction at right angles to lamp axis |      |      |      |      | Viewing direction parallel to lamp axis |      |      |      |      |      |
| 2H   | 2H   | 21.5 | 22.2 | 21.7 | 22.4 | 22.6                                    | 22.6 | 23.3 | 22.8 | 23.5 | 23.7 |
|  | 3H   | 21.3 | 22.0 | 21.6 | 22.2 | 22.5                                    | 22.4 | 23.1 | 22.7 | 23.3 | 23.6 |
|  | 4H   | 21.3 | 21.9 | 21.6 | 22.1 | 22.4                                    | 22.4 | 23.0 | 22.7 | 23.2 | 23.5 |
|  | 6H   | 21.2 | 21.8 | 21.5 | 22.1 | 22.3                                    | 22.3 | 22.9 | 22.6 | 23.1 | 23.4 |
|  | 8H   | 21.2 | 21.7 | 21.5 | 22.0 | 22.3                                    | 22.2 | 22.8 | 22.6 | 23.1 | 23.4 |
| 4H   | 12H  | 21.1 | 21.6 | 21.5 | 22.0 | 22.3                                    | 22.2 | 22.7 | 22.6 | 23.0 | 23.3 |
|  | 2H   | 21.3 | 21.9 | 21.6 | 22.1 | 22.4                                    | 22.4 | 23.0 | 22.7 | 23.2 | 23.5 |
|  | 3H   | 21.1 | 21.6 | 21.5 | 21.9 | 22.3                                    | 22.2 | 22.7 | 22.6 | 23.0 | 23.3 |
|  | 4H   | 21.1 | 21.5 | 21.4 | 21.8 | 22.2                                    | 22.1 | 22.6 | 22.5 | 22.9 | 23.3 |
|  | 6H   | 21.0 | 21.4 | 21.4 | 21.7 | 22.1                                    | 22.1 | 22.4 | 22.5 | 22.8 | 23.2 |
| 8H   | 8H   | 20.9 | 21.3 | 21.4 | 21.7 | 22.1                                    | 22.0 | 22.4 | 22.4 | 22.7 | 23.1 |
|  | 12H  | 20.9 | 21.2 | 21.3 | 21.6 | 22.0                                    | 22.0 | 22.3 | 22.4 | 22.7 | 23.1 |
|  | 4H   | 20.9 | 21.3 | 21.4 | 21.7 | 22.1                                    | 22.0 | 22.4 | 22.4 | 22.7 | 23.1 |
|  | 6H   | 20.9 | 21.1 | 21.3 | 21.5 | 22.0                                    | 21.9 | 22.2 | 22.4 | 22.6 | 23.1 |
|  | 8H   | 20.8 | 21.0 | 21.3 | 21.5 | 21.9                                    | 21.9 | 22.1 | 22.4 | 22.6 | 23.0 |
| 12H  | 12H  | 20.8 | 21.0 | 21.3 | 21.4 | 21.9                                    | 21.9 | 22.0 | 22.3 | 22.5 | 23.0 |
|  | 4H   | 20.9 | 21.2 | 21.3 | 21.6 | 22.0                                    | 22.0 | 22.3 | 22.4 | 22.7 | 23.1 |
|  | 6H   | 20.8 | 21.0 | 21.3 | 21.5 | 21.9                                    | 21.9 | 22.1 | 22.4 | 22.6 | 23.0 |
| 8H   | 20.8   | 21.0 | 21.3 | 21.4 | 21.9 | 21.9                                    | 22.0 | 22.3 | 22.5 | 23.0 |      |
| Variation of the observer position for the luminaire distances S |  |      |      |      |      |   |      |      |      |      |      |
| S = 1.0H   | +4.1 / -16.4                                   |      |      |      |      | +3.5 / -16.4                            |      |      |      |      |      |
| S = 1.5H   | +6.8 / -16.7                                   |      |      |      |      | +6.3 / -16.8                            |      |      |      |      |      |
| S = 2.0H   | +8.8 / -17.1                                   |      |      |      |      | +8.3 / -17.1                            |      |      |      |      |      |
| Standard table   | BK00   |      |      |      |      | BK00                                    |      |      |      |      |      |
| Correction Summand   | 3.6  |      |      |      |      | 4.6                                     |      |      |      |      |      |
| Corrected Glare Indices referring to 22200lm Total Luminous Flux |  |      |      |      |      |   |      |      |      |      |      |

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### GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade / LDC (Polar)

Luminaire: GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade  
Lamps: 1 x Flood Light

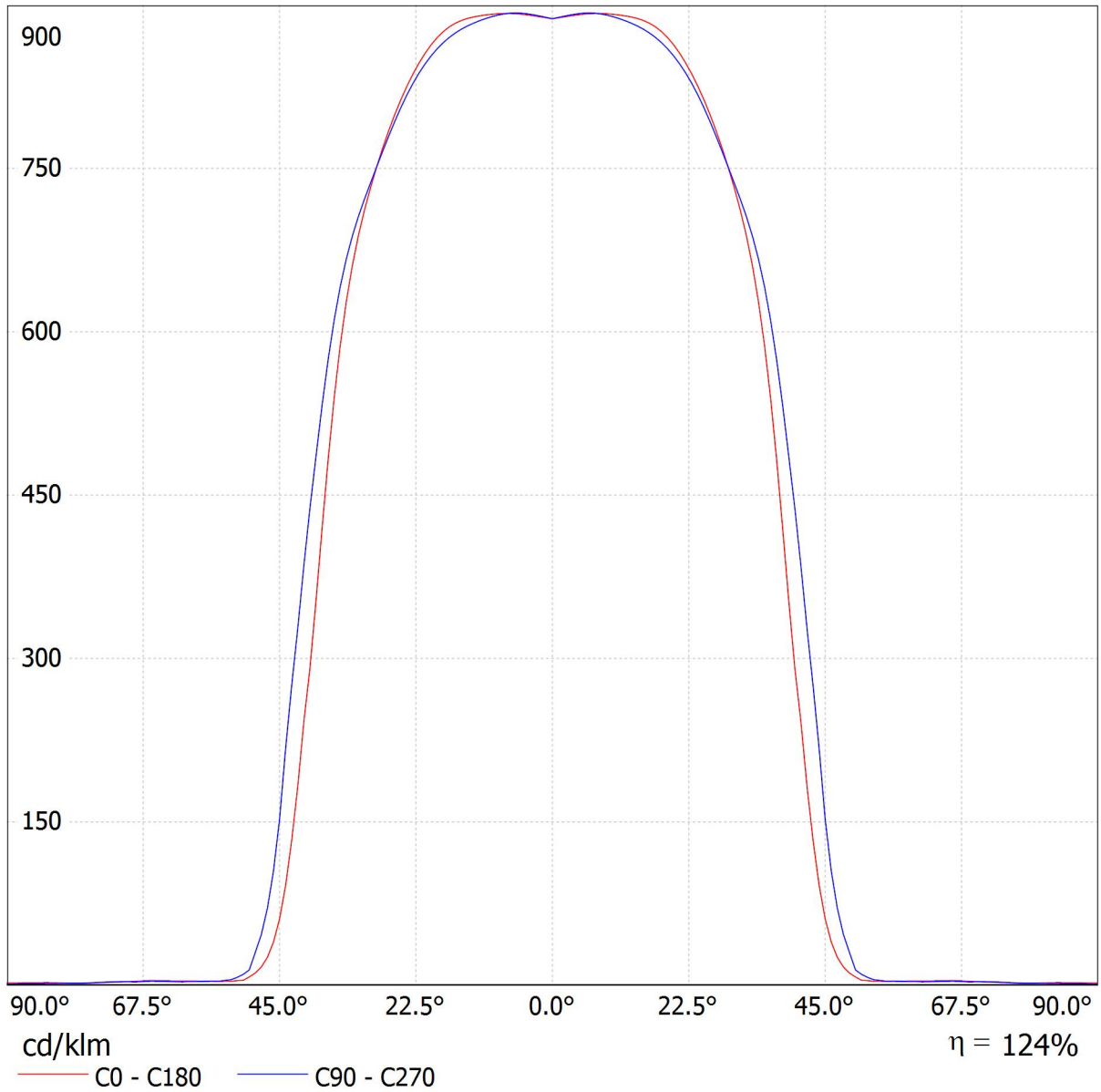


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### GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade / LDC (Linear)

Luminaire: GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade  
Lamps: 1 x Flood Light



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### GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade / UGR-Table

Luminaire: GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade  
 Lamps: 1 x Flood Light

| <b>Glare Evaluation According to UGR</b>                         |     |   |      |      |      |      |  |      |      |      |      |
|--|-----|---|------|------|------|------|--|------|------|------|------|
| 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  | 21.5  | 22.2 | 21.7 | 22.4 | 22.6 | 22.6                                       | 23.3 | 22.8 | 23.5 | 23.7 |
|  | 3H  | 21.3  | 22.0 | 21.6 | 22.2 | 22.5 | 22.4                                       | 23.1 | 22.7 | 23.3 | 23.6 |
|  | 4H  | 21.3  | 21.9 | 21.6 | 22.1 | 22.4 | 22.4                                       | 23.0 | 22.7 | 23.2 | 23.5 |
|  | 6H  | 21.2  | 21.8 | 21.5 | 22.1 | 22.3 | 22.3                                       | 22.9 | 22.6 | 23.1 | 23.4 |
|  | 8H  | 21.2  | 21.7 | 21.5 | 22.0 | 22.3 | 22.2                                       | 22.8 | 22.6 | 23.1 | 23.4 |
|  | 12H | 21.1  | 21.6 | 21.5 | 22.0 | 22.3 | 22.2                                       | 22.7 | 22.6 | 23.0 | 23.3 |
| 4H   | 2H  | 21.3  | 21.9 | 21.6 | 22.1 | 22.4 | 22.4                                       | 23.0 | 22.7 | 23.2 | 23.5 |
|  | 3H  | 21.1  | 21.6 | 21.5 | 21.9 | 22.3 | 22.2                                       | 22.7 | 22.6 | 23.0 | 23.3 |
|  | 4H  | 21.1  | 21.5 | 21.4 | 21.8 | 22.2 | 22.1                                       | 22.6 | 22.5 | 22.9 | 23.3 |
|  | 6H  | 21.0  | 21.4 | 21.4 | 21.7 | 22.1 | 22.1                                       | 22.4 | 22.5 | 22.8 | 23.2 |
|  | 8H  | 20.9  | 21.3 | 21.4 | 21.7 | 22.1 | 22.0                                       | 22.4 | 22.4 | 22.7 | 23.1 |
|  | 12H | 20.9  | 21.2 | 21.3 | 21.6 | 22.0 | 22.0                                       | 22.3 | 22.4 | 22.7 | 23.1 |
| 8H   | 4H  | 20.9  | 21.3 | 21.4 | 21.7 | 22.1 | 22.0                                       | 22.4 | 22.4 | 22.7 | 23.1 |
|  | 6H  | 20.9  | 21.1 | 21.3 | 21.5 | 22.0 | 21.9                                       | 22.2 | 22.4 | 22.6 | 23.1 |
|  | 8H  | 20.8  | 21.0 | 21.3 | 21.5 | 21.9 | 21.9                                       | 22.1 | 22.4 | 22.6 | 23.0 |
|  | 12H | 20.8  | 21.0 | 21.3 | 21.4 | 21.9 | 21.9                                       | 22.0 | 22.3 | 22.5 | 23.0 |
| 12H  | 4H  | 20.9  | 21.2 | 21.3 | 21.6 | 22.0 | 22.0                                       | 22.3 | 22.4 | 22.7 | 23.1 |
|  | 6H  | 20.8  | 21.0 | 21.3 | 21.5 | 21.9 | 21.9                                       | 22.1 | 22.4 | 22.6 | 23.0 |
|  | 8H  | 20.8  | 21.0 | 21.3 | 21.4 | 21.9 | 21.9                                       | 22.0 | 22.3 | 22.5 | 23.0 |
| Variation of the observer position for the luminaire distances S |     |   |      |      |      |      |  |      |      |      |      |
| S = 1.0H   |     | +4.1 / -16.4                                      |      |      |      |      | +3.5 / -16.4                               |      |      |      |      |
| S = 1.5H   |     | +6.8 / -16.7                                      |      |      |      |      | +6.3 / -16.8                               |      |      |      |      |
| S = 2.0H   |     | +8.8 / -17.1                                      |      |      |      |      | +8.3 / -17.1                               |      |      |      |      |
| Standard table   |     | BK00  |      |      |      |      | BK00                                       |      |      |      |      |
| Correction Summand   |     | 3.6   |      |      |      |      | 4.6  |      |      |      |      |
| Corrected Glare Indices referring to 22200lm Total Luminous Flux |     |   |      |      |      |      |  |      |      |      |      |

The UGR values have been calculated according to CIE Publ. 117 Spacing-to-Height-Ratio = 0.25.

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## GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade / Glare Data Sheet

Luminaire: GlacialLight GL-FL190-NW-4000K-70D Lens-with lampshade

Lamps: 1 x Flood Light

| 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 X Y  |              | Viewing direction at right angles to lamp axis |      |      |      |              | Viewing direction parallel to lamp axis |      |      |      |      |
| 2H   | 2H           | 21.5   | 22.2 | 21.7 | 22.4 | 22.6         | 22.6                                    | 23.3 | 22.8 | 23.5 | 23.7 |
|  | 3H           | 21.3   | 22.0 | 21.6 | 22.2 | 22.5         | 22.4                                    | 23.1 | 22.7 | 23.3 | 23.6 |
|  | 4H           | 21.3   | 21.9 | 21.6 | 22.1 | 22.4         | 22.4                                    | 23.0 | 22.7 | 23.2 | 23.5 |
|  | 6H           | 21.2   | 21.8 | 21.5 | 22.1 | 22.3         | 22.3                                    | 22.9 | 22.6 | 23.1 | 23.4 |
|  | 8H           | 21.2   | 21.7 | 21.5 | 22.0 | 22.3         | 22.2                                    | 22.8 | 22.6 | 23.1 | 23.4 |
|  | 12H          | 21.1   | 21.6 | 21.5 | 22.0 | 22.3         | 22.2                                    | 22.7 | 22.6 | 23.0 | 23.3 |
| 4H   | 2H           | 21.3   | 21.9 | 21.6 | 22.1 | 22.4         | 22.4                                    | 23.0 | 22.7 | 23.2 | 23.5 |
|  | 3H           | 21.1   | 21.6 | 21.5 | 21.9 | 22.3         | 22.2                                    | 22.7 | 22.6 | 23.0 | 23.3 |
|  | 4H           | 21.1   | 21.5 | 21.4 | 21.8 | 22.2         | 22.1                                    | 22.6 | 22.5 | 22.9 | 23.3 |
|  | 6H           | 21.0   | 21.4 | 21.4 | 21.7 | 22.1         | 22.1                                    | 22.4 | 22.5 | 22.8 | 23.2 |
|  | 8H           | 20.9   | 21.3 | 21.4 | 21.7 | 22.1         | 22.0                                    | 22.4 | 22.4 | 22.7 | 23.1 |
|  | 12H          | 20.9   | 21.2 | 21.3 | 21.6 | 22.0         | 22.0                                    | 22.3 | 22.4 | 22.7 | 23.1 |
| 8H   | 4H           | 20.9   | 21.3 | 21.4 | 21.7 | 22.1         | 22.0                                    | 22.4 | 22.4 | 22.7 | 23.1 |
|  | 6H           | 20.9   | 21.1 | 21.3 | 21.5 | 22.0         | 21.9                                    | 22.2 | 22.4 | 22.6 | 23.1 |
|  | 8H           | 20.8   | 21.0 | 21.3 | 21.5 | 21.9         | 21.9                                    | 22.1 | 22.4 | 22.6 | 23.0 |
|  | 12H          | 20.8   | 21.0 | 21.3 | 21.4 | 21.9         | 21.9                                    | 22.0 | 22.3 | 22.5 | 23.0 |
| 12H  | 4H           | 20.9   | 21.2 | 21.3 | 21.6 | 22.0         | 22.0                                    | 22.3 | 22.4 | 22.7 | 23.1 |
|  | 6H           | 20.8   | 21.0 | 21.3 | 21.5 | 21.9         | 21.9                                    | 22.1 | 22.4 | 22.6 | 23.0 |
|  | 8H           | 20.8   | 21.0 | 21.3 | 21.4 | 21.9         | 21.9                                    | 22.0 | 22.3 | 22.5 | 23.0 |
| Variation of the observer position for the luminaire distances S |              |  |      |      |      |              |   |      |      |      |      |
| S = 1.0H   | +4.1 / -16.4 |  |      |      |      | +3.5 / -16.4 |   |      |      |      |      |
| S = 1.5H   | +6.8 / -16.7 |  |      |      |      | +6.3 / -16.8 |   |      |      |      |      |
| S = 2.0H   | +8.8 / -17.1 |  |      |      |      | +8.3 / -17.1 |   |      |      |      |      |
| Standard table   | BK00         |  |      |      |      | BK00         |   |      |      |      |      |
| Correction Summand   | 3.6          |  |      |      |      | 4.6          |   |      |      |      |      |
| Corrected Glare Indices referring to 22200lm Total Luminous Flux |              |  |      |      |      |              |   |      |      |      |      |

The UGR values have been calculated according to CIE Publ. 117 Spacing-to-Height-Ratio = 0.25.

