

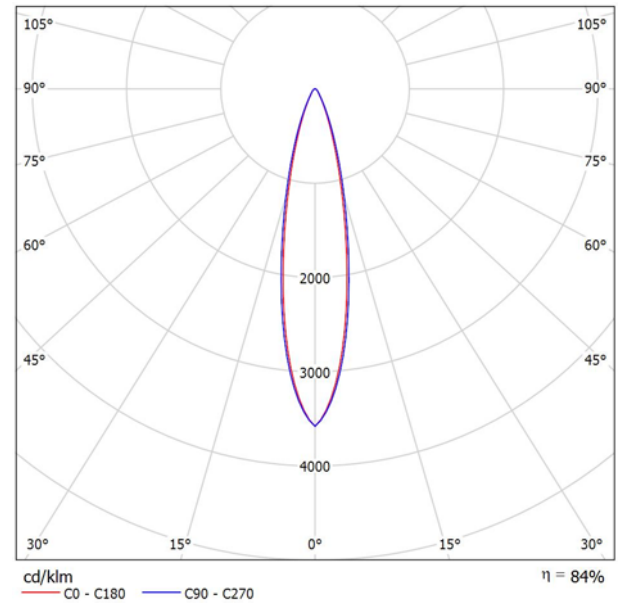
GlacialTech Inc.  
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## GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight) / Luminaire Data Sheet

### Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100  
 CIE flux code: 90 96 99 100 84

### Luminous emittance 1:

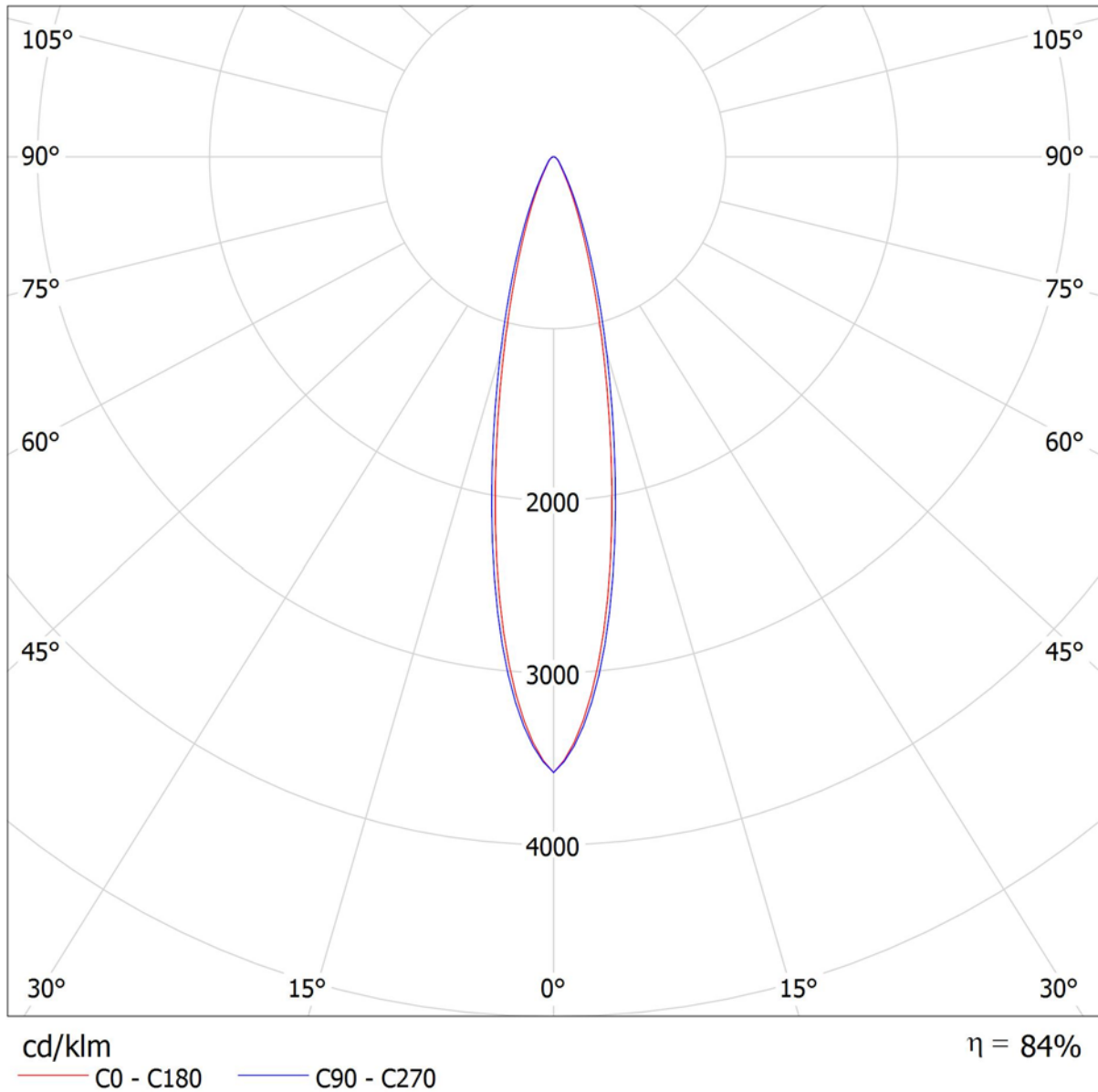
| Glare Evaluation According to UGR                                |   |      |      |      |      |  |      |      |      |      |      |
|--|---|------|------|------|------|--|------|------|------|------|------|
| ρ Ceiling  | 70  | 70   | 50   | 50   | 30   | 70   | 70   | 50   | 50   | 30   |      |
| 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<br>X Y   | Viewing direction at right angles<br>to lamp axis |      |      |      |      | Viewing direction parallel<br>to lamp axis |      |      |      |      |      |
| 2H   | 2H  | 10.4 | 11.1 | 10.6 | 11.3 | 11.5                                       | 10.5 | 11.2 | 10.7 | 11.4 | 11.6 |
|  | 3H  | 11.0 | 11.7 | 11.3 | 11.9 | 12.2                                       | 11.3 | 11.9 | 11.5 | 12.2 | 12.4 |
|  | 4H  | 11.3 | 12.0 | 11.7 | 12.3 | 12.5                                       | 11.7 | 12.3 | 12.0 | 12.6 | 12.9 |
|  | 6H  | 11.7 | 12.3 | 12.0 | 12.6 | 12.9                                       | 11.9 | 12.5 | 12.2 | 12.8 | 13.1 |
|  | 8H  | 11.9 | 12.5 | 12.3 | 12.8 | 13.1                                       | 12.0 | 12.6 | 12.3 | 12.9 | 13.2 |
| 12H  | 12.2  | 12.7 | 12.5 | 13.0 | 13.4 | 12.1                                       | 12.6 | 12.4 | 12.9 | 13.3 |      |
| 4H   | 2H  | 10.7 | 11.4 | 11.0 | 11.6 | 11.9                                       | 10.8 | 11.4 | 11.1 | 11.7 | 12.0 |
|  | 3H  | 11.7 | 12.2 | 12.0 | 12.5 | 12.8                                       | 11.7 | 12.2 | 12.0 | 12.5 | 12.8 |
|  | 4H  | 12.2 | 12.7 | 12.6 | 13.0 | 13.4                                       | 12.3 | 12.8 | 12.7 | 13.1 | 13.4 |
|  | 6H  | 12.7 | 13.1 | 13.1 | 13.5 | 13.9                                       | 12.8 | 13.2 | 13.2 | 13.5 | 13.9 |
|  | 8H  | 13.0 | 13.4 | 13.4 | 13.8 | 14.2                                       | 12.9 | 13.3 | 13.3 | 13.7 | 14.1 |
| 12H  | 13.4  | 13.7 | 13.8 | 14.1 | 14.5 | 13.1                                       | 13.4 | 13.5 | 13.8 | 14.2 |      |
| 8H   | 4H  | 12.4 | 12.7 | 12.8 | 13.1 | 13.5                                       | 12.5 | 12.9 | 12.9 | 13.2 | 13.6 |
|  | 6H  | 13.1 | 13.4 | 13.5 | 13.8 | 14.2                                       | 13.1 | 13.4 | 13.6 | 13.9 | 14.3 |
|  | 8H  | 13.5 | 13.8 | 14.0 | 14.2 | 14.7                                       | 13.4 | 13.7 | 13.9 | 14.1 | 14.6 |
|  | 12H   | 14.1 | 14.3 | 14.6 | 14.7 | 15.2                                       | 13.7 | 13.9 | 14.2 | 14.4 | 14.9 |
|  | 12H   | 4H   | 12.4 | 12.7 | 12.8 | 13.1                                       | 13.6 | 12.5 | 12.8 | 12.9 | 13.2 |
| 6H   |   | 13.2 | 13.4 | 13.6 | 13.8 | 14.3                                       | 13.2 | 13.5 | 13.7 | 13.9 | 14.4 |
| 8H   |   | 13.7 | 13.9 | 14.1 | 14.3 | 14.8                                       | 13.6 | 13.8 | 14.1 | 14.2 | 14.7 |
| Variation of the observer position for the luminaire distances S |   |      |      |      |      |  |      |      |      |      |      |
| S = 1.0H   | +0.5 / -0.4                                       |      |      |      |      | +0.8 / -0.5                                |      |      |      |      |      |
| S = 1.5H   | +1.1 / -0.8                                       |      |      |      |      | +1.8 / -0.9                                |      |      |      |      |      |
| S = 2.0H   | +2.0 / -1.4                                       |      |      |      |      | +3.0 / -1.4                                |      |      |      |      |      |
| Standard table   | BK05  |      |      |      |      | BK04                                       |      |      |      |      |      |
| Correction   | -4.6  |      |      |      |      | -5.2                                       |      |      |      |      |      |
| Summand  |   |      |      |      |      |  |      |      |      |      |      |
| Corrected Glare Indices referring to 860lm Total Luminous Flux   |   |      |      |      |      |  |      |      |      |      |      |

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## GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight) / LDC (Polar)

Luminaire: GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight)  
Lamps: 1 x AR111

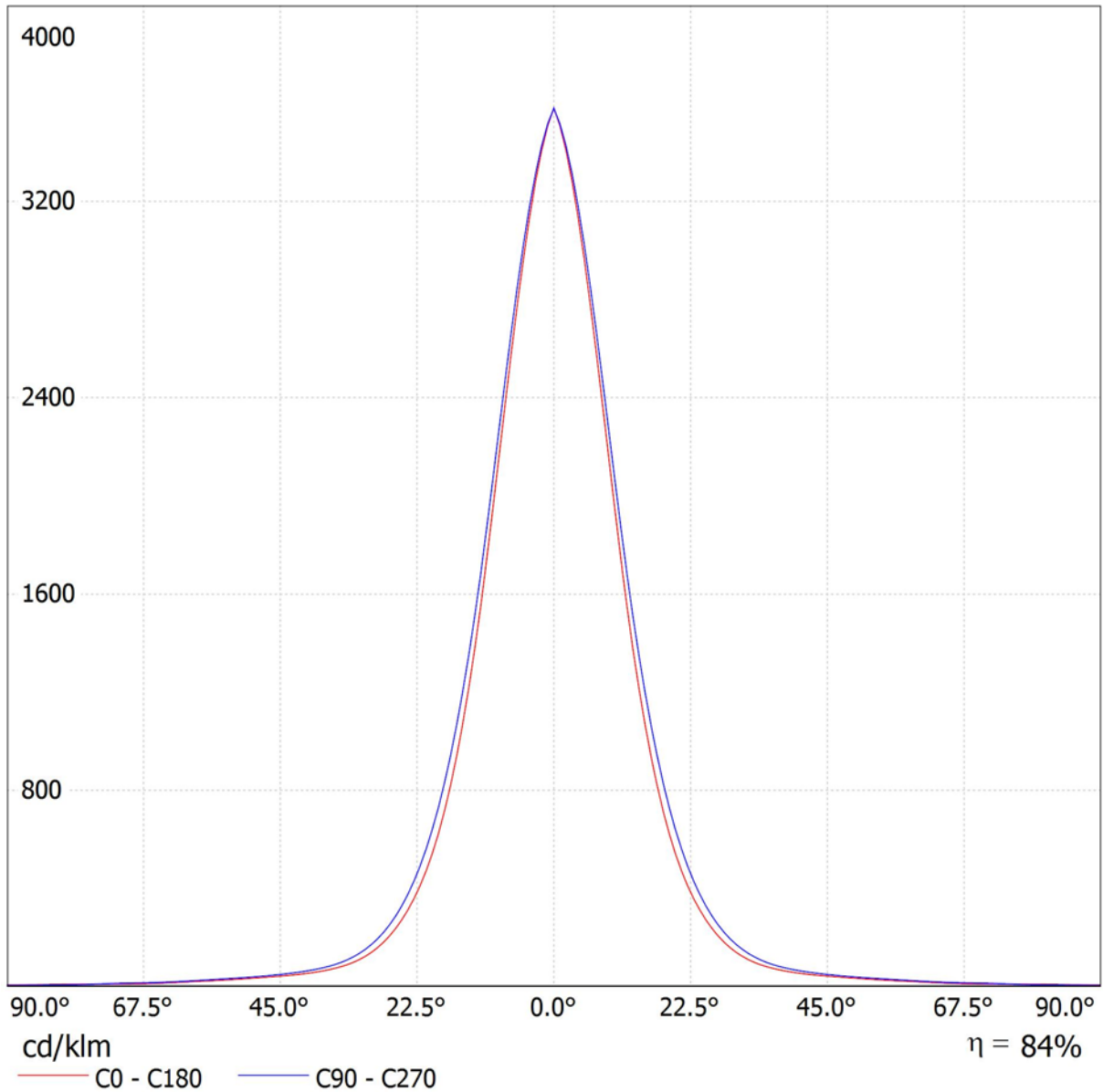


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## GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight) / LDC (Linear)

Luminaire: GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight)  
Lamps: 1 x AR111



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### GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight) / UGR-Table

Luminaire: GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight)  
 Lamps: 1 x AR111

| <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  | 10.4  | 11.1 | 10.6 | 11.3 | 11.5 | 10.5                                       | 11.2 | 10.7 | 11.4 | 11.6 |
|  | 3H  | 11.0  | 11.7 | 11.3 | 11.9 | 12.2 | 11.3                                       | 11.9 | 11.5 | 12.2 | 12.4 |
|  | 4H  | 11.3  | 12.0 | 11.7 | 12.3 | 12.5 | 11.7                                       | 12.3 | 12.0 | 12.6 | 12.9 |
|  | 6H  | 11.7  | 12.3 | 12.0 | 12.6 | 12.9 | 11.9                                       | 12.5 | 12.2 | 12.8 | 13.1 |
|  | 8H  | 11.9  | 12.5 | 12.3 | 12.8 | 13.1 | 12.0                                       | 12.6 | 12.3 | 12.9 | 13.2 |
|  | 12H | 12.2  | 12.7 | 12.5 | 13.0 | 13.4 | 12.1                                       | 12.6 | 12.4 | 12.9 | 13.3 |
| 4H   | 2H  | 10.7  | 11.4 | 11.0 | 11.6 | 11.9 | 10.8                                       | 11.4 | 11.1 | 11.7 | 12.0 |
|  | 3H  | 11.7  | 12.2 | 12.0 | 12.5 | 12.8 | 11.7                                       | 12.2 | 12.0 | 12.5 | 12.8 |
|  | 4H  | 12.2  | 12.7 | 12.6 | 13.0 | 13.4 | 12.3                                       | 12.8 | 12.7 | 13.1 | 13.4 |
|  | 6H  | 12.7  | 13.1 | 13.1 | 13.5 | 13.9 | 12.8                                       | 13.2 | 13.2 | 13.5 | 13.9 |
|  | 8H  | 13.0  | 13.4 | 13.4 | 13.8 | 14.2 | 12.9                                       | 13.3 | 13.3 | 13.7 | 14.1 |
|  | 12H | 13.4  | 13.7 | 13.8 | 14.1 | 14.5 | 13.1                                       | 13.4 | 13.5 | 13.8 | 14.2 |
| 8H   | 4H  | 12.4  | 12.7 | 12.8 | 13.1 | 13.5 | 12.5                                       | 12.9 | 12.9 | 13.2 | 13.6 |
|  | 6H  | 13.1  | 13.4 | 13.5 | 13.8 | 14.2 | 13.1                                       | 13.4 | 13.6 | 13.9 | 14.3 |
|  | 8H  | 13.5  | 13.8 | 14.0 | 14.2 | 14.7 | 13.4                                       | 13.7 | 13.9 | 14.1 | 14.6 |
|  | 12H | 14.1  | 14.3 | 14.6 | 14.7 | 15.2 | 13.7                                       | 13.9 | 14.2 | 14.4 | 14.9 |
| 12H  | 4H  | 12.4  | 12.7 | 12.8 | 13.1 | 13.6 | 12.5                                       | 12.8 | 12.9 | 13.2 | 13.7 |
|  | 6H  | 13.2  | 13.4 | 13.6 | 13.8 | 14.3 | 13.2                                       | 13.5 | 13.7 | 13.9 | 14.4 |
|  | 8H  | 13.7  | 13.9 | 14.1 | 14.3 | 14.8 | 13.6                                       | 13.8 | 14.1 | 14.2 | 14.7 |
| Variation of the observer position for the luminaire distances S |     |   |      |      |      |      |  |      |      |      |      |
| S = 1.0H   |     | +0.5 / -0.4                                       |      |      |      |      | +0.8 / -0.5                                |      |      |      |      |
| S = 1.5H   |     | +1.1 / -0.8                                       |      |      |      |      | +1.8 / -0.9                                |      |      |      |      |
| S = 2.0H   |     | +2.0 / -1.4                                       |      |      |      |      | +3.0 / -1.4                                |      |      |      |      |
| Standard table   |     | BK05  |      |      |      |      | BK04                                       |      |      |      |      |
| Correction<br>Summand  |     | -4.6  |      |      |      |      | -5.2                                       |      |      |      |      |
| Corrected Glare Indices referring to 860lm 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-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight) / Glare Data Sheet

Luminaire: GlacialLight GL-AR111-V2AN-12-NL-WW-2700K-26D-(Natural Sunlight)

Lamps: 1 x AR111

| 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   | 10.4 | 11.1 | 10.6 | 11.3 | 11.5                                    | 10.5 | 11.2 | 10.7 | 11.4 | 11.6 |
|  | 3H   | 11.0 | 11.7 | 11.3 | 11.9 | 12.2                                    | 11.3 | 11.9 | 11.5 | 12.2 | 12.4 |
|  | 4H   | 11.3 | 12.0 | 11.7 | 12.3 | 12.5                                    | 11.7 | 12.3 | 12.0 | 12.6 | 12.9 |
|  | 6H   | 11.7 | 12.3 | 12.0 | 12.6 | 12.9                                    | 11.9 | 12.5 | 12.2 | 12.8 | 13.1 |
|  | 8H   | 11.9 | 12.5 | 12.3 | 12.8 | 13.1                                    | 12.0 | 12.6 | 12.3 | 12.9 | 13.2 |
| 12H  | 12.2   | 12.7 | 12.5 | 13.0 | 13.4 | 12.1                                    | 12.6 | 12.4 | 12.9 | 13.3 |      |
| 4H   | 2H   | 10.7 | 11.4 | 11.0 | 11.6 | 11.9                                    | 10.8 | 11.4 | 11.1 | 11.7 | 12.0 |
|  | 3H   | 11.7 | 12.2 | 12.0 | 12.5 | 12.8                                    | 11.7 | 12.2 | 12.0 | 12.5 | 12.8 |
|  | 4H   | 12.2 | 12.7 | 12.6 | 13.0 | 13.4                                    | 12.3 | 12.8 | 12.7 | 13.1 | 13.4 |
|  | 6H   | 12.7 | 13.1 | 13.1 | 13.5 | 13.9                                    | 12.8 | 13.2 | 13.2 | 13.5 | 13.9 |
|  | 8H   | 13.0 | 13.4 | 13.4 | 13.8 | 14.2                                    | 12.9 | 13.3 | 13.3 | 13.7 | 14.1 |
| 12H  | 13.4   | 13.7 | 13.8 | 14.1 | 14.5 | 13.1                                    | 13.4 | 13.5 | 13.8 | 14.2 |      |
| 8H   | 4H   | 12.4 | 12.7 | 12.8 | 13.1 | 13.5                                    | 12.5 | 12.9 | 12.9 | 13.2 | 13.6 |
|  | 6H   | 13.1 | 13.4 | 13.5 | 13.8 | 14.2                                    | 13.1 | 13.4 | 13.6 | 13.9 | 14.3 |
|  | 8H   | 13.5 | 13.8 | 14.0 | 14.2 | 14.7                                    | 13.4 | 13.7 | 13.9 | 14.1 | 14.6 |
|  | 12H  | 14.1 | 14.3 | 14.6 | 14.7 | 15.2                                    | 13.7 | 13.9 | 14.2 | 14.4 | 14.9 |
| 12H  | 4H   | 12.4 | 12.7 | 12.8 | 13.1 | 13.6                                    | 12.5 | 12.8 | 12.9 | 13.2 | 13.7 |
|  | 6H   | 13.2 | 13.4 | 13.6 | 13.8 | 14.3                                    | 13.2 | 13.5 | 13.7 | 13.9 | 14.4 |
|  | 8H   | 13.7 | 13.9 | 14.1 | 14.3 | 14.8                                    | 13.6 | 13.8 | 14.1 | 14.2 | 14.7 |
| Variation of the observer position for the luminaire distances S |  |      |      |      |      |   |      |      |      |      |      |
| S = 1.0H   | +0.5 / -0.4                                    |      |      |      |      | +0.8 / -0.5                             |      |      |      |      |      |
| S = 1.5H   | +1.1 / -0.8                                    |      |      |      |      | +1.8 / -0.9                             |      |      |      |      |      |
| S = 2.0H   | +2.0 / -1.4                                    |      |      |      |      | +3.0 / -1.4                             |      |      |      |      |      |
| Standard table   | BK05   |      |      |      |      | BK04                                    |      |      |      |      |      |
| Correction Summand   | -4.6   |      |      |      |      | -5.2                                    |      |      |      |      |      |
| Corrected Glare Indices referring to 860lm Total Luminous Flux   |  |      |      |      |      |   |      |      |      |      |      |

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

