

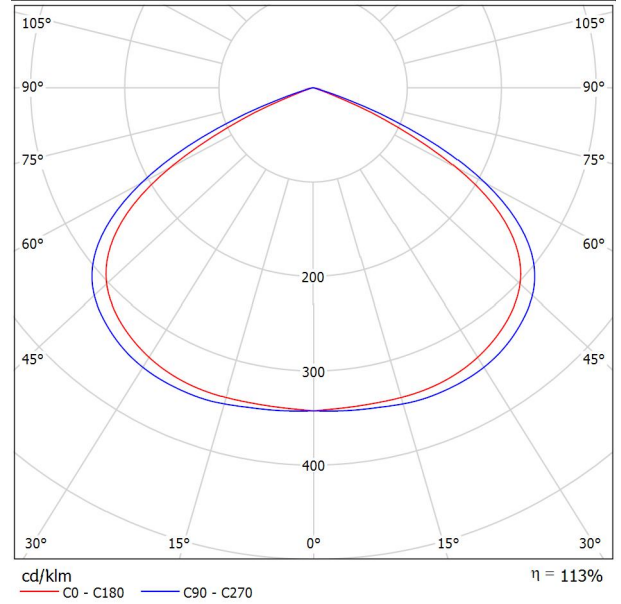
GlacialTech Inc.  
 http://www.glaciallight.com  
 7F, No.352, Sec. 2, Zhongshan Rd., Zhonghe Dist., New Taipei City, Taiwan,  
 235, R.O.C.

Operator GlacialLight R&D Department  
 Telephone +886 2 2244-1227  
 Fax +886 2 2244-1228  
 e-Mail sales@GlacialLight.com

## GlacialLight GL-FL190-NW-4000K-120D 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: 47 87 99 100 113

Luminous emittance 1:

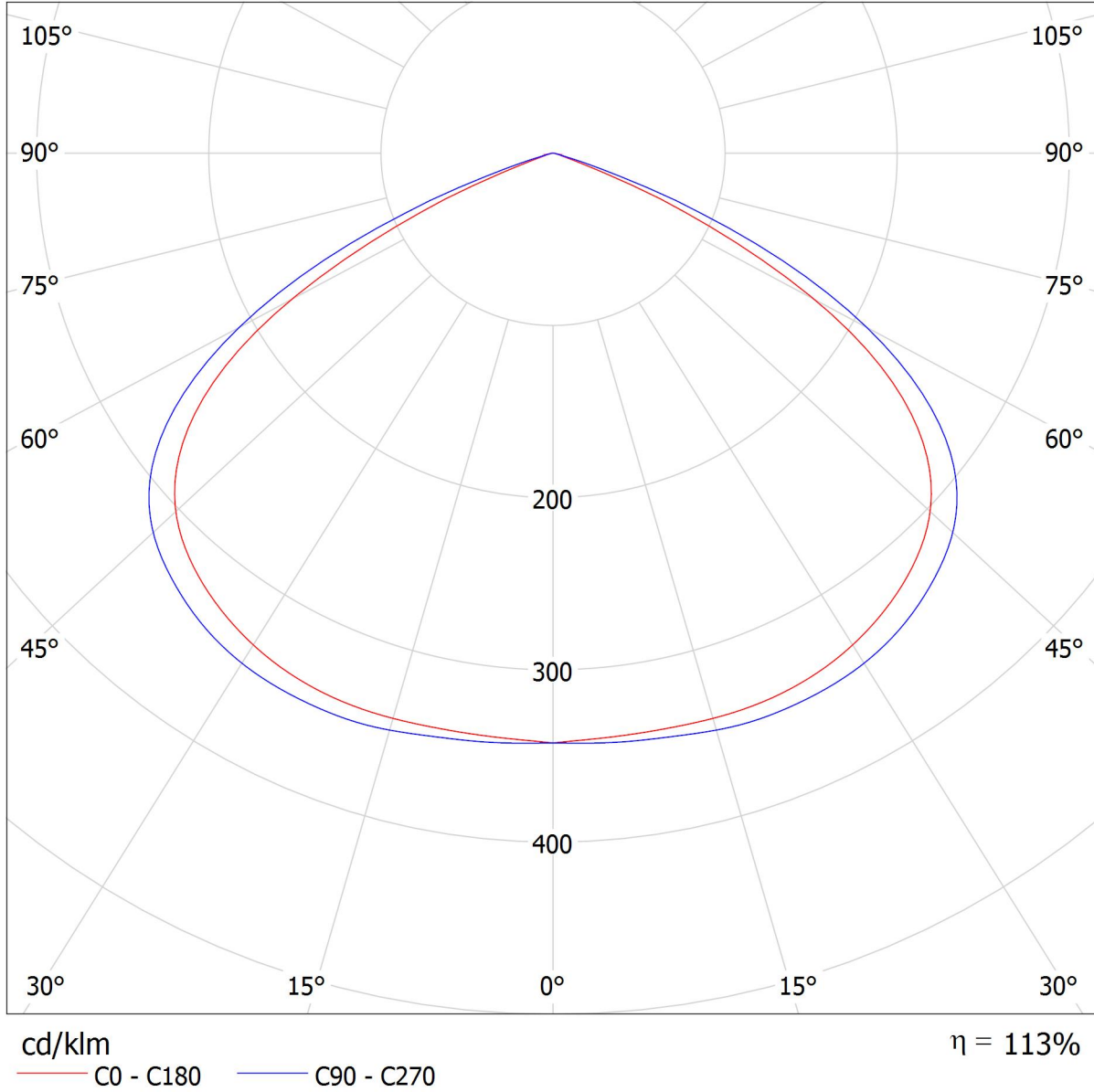
| Glare Evaluation According to UGR                                |   |      |      |      |      |  |      |      |      |      |      |
|--|---|------|------|------|------|--|------|------|------|------|------|
| ρ Ceiling  | 70  | 70   | 50   | 30   | 70   | 70   | 50   | 30   | 70   | 30   |      |
| 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  | 26.4 | 27.7 | 26.7 | 27.9 | 28.1                                       | 27.4 | 28.7 | 27.7 | 29.0 | 29.2 |
|  | 3H  | 26.5 | 27.7 | 26.8 | 27.9 | 28.2                                       | 27.9 | 29.0 | 28.2 | 29.3 | 29.5 |
|  | 4H  | 26.4 | 27.5 | 26.8 | 27.8 | 28.1                                       | 27.8 | 28.9 | 28.1 | 29.2 | 29.4 |
|  | 6H  | 26.4 | 27.3 | 26.7 | 27.6 | 28.0                                       | 27.7 | 28.7 | 28.1 | 29.0 | 29.3 |
|  | 8H  | 26.3 | 27.3 | 26.7 | 27.6 | 27.9                                       | 27.7 | 28.6 | 28.0 | 28.9 | 29.3 |
| 4H   | 12H   | 26.3 | 27.2 | 26.7 | 27.5 | 27.8                                       | 27.6 | 28.5 | 28.0 | 28.9 | 29.2 |
|  | 2H  | 26.8 | 27.9 | 27.1 | 28.1 | 28.4                                       | 27.7 | 28.8 | 28.0 | 29.0 | 29.3 |
|  | 3H  | 26.9 | 27.8 | 27.3 | 28.2 | 28.5                                       | 28.1 | 29.0 | 28.5 | 29.3 | 29.7 |
|  | 4H  | 26.9 | 27.7 | 27.3 | 28.0 | 28.4                                       | 28.1 | 28.9 | 28.5 | 29.2 | 29.6 |
|  | 6H  | 26.8 | 27.5 | 27.2 | 27.9 | 28.3                                       | 28.0 | 28.7 | 28.4 | 29.1 | 29.5 |
| 8H   | 8H  | 26.8 | 27.4 | 27.2 | 27.8 | 28.2                                       | 28.0 | 28.6 | 28.4 | 29.0 | 29.4 |
|  | 12H   | 26.7 | 27.3 | 27.2 | 27.7 | 28.1                                       | 27.9 | 28.5 | 28.4 | 28.9 | 29.3 |
|  | 4H  | 26.8 | 27.4 | 27.2 | 27.8 | 28.2                                       | 28.0 | 28.6 | 28.4 | 29.0 | 29.4 |
|  | 6H  | 26.7 | 27.2 | 27.2 | 27.7 | 28.1                                       | 27.9 | 28.4 | 28.4 | 28.8 | 29.3 |
|  | 8H  | 26.7 | 27.1 | 27.2 | 27.6 | 28.1                                       | 27.9 | 28.3 | 28.4 | 28.8 | 29.2 |
| 12H  | 12H   | 26.7 | 27.0 | 27.1 | 27.5 | 28.0                                       | 27.8 | 28.2 | 28.3 | 28.7 | 29.2 |
|  | 4H  | 26.8 | 27.3 | 27.2 | 27.7 | 28.2                                       | 28.0 | 28.5 | 28.4 | 28.9 | 29.4 |
|  | 6H  | 26.7 | 27.1 | 27.2 | 27.6 | 28.1                                       | 27.9 | 28.3 | 28.4 | 28.8 | 29.2 |
| 8H   | 26.7  | 27.0 | 27.1 | 27.5 | 28.0 | 27.8                                       | 28.2 | 28.3 | 28.7 | 29.2 |      |
| Variation of the observer position for the luminaire distances S |   |      |      |      |      |  |      |      |      |      |      |
| S = 1.0H   | +0.2 / -0.4                                       |      |      |      |      | +0.1 / -0.2                                |      |      |      |      |      |
| S = 1.5H   | +1.0 / -1.9                                       |      |      |      |      | +0.7 / -0.9                                |      |      |      |      |      |
| S = 2.0H   | +2.1 / -6.4                                       |      |      |      |      | +2.1 / -4.4                                |      |      |      |      |      |
| Standard table   | BK01  |      |      |      |      | BK01                                       |      |      |      |      |      |
| Correction   | 9.3   |      |      |      |      | 10.5                                       |      |      |      |      |      |
| Summand  | 9.3   |      |      |      |      | 10.5                                       |      |      |      |      |      |
| Corrected Glare Indices referring to 22200lm Total Luminous Flux |   |      |      |      |      |  |      |      |      |      |      |

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### GlacialLight GL-FL190-NW-4000K-120D Lens-with lampshade / LDC (Polar)

Luminaire: GlacialLight GL-FL190-NW-4000K-120D Lens-with lampshade  
Lamps: 1 x Flood Light

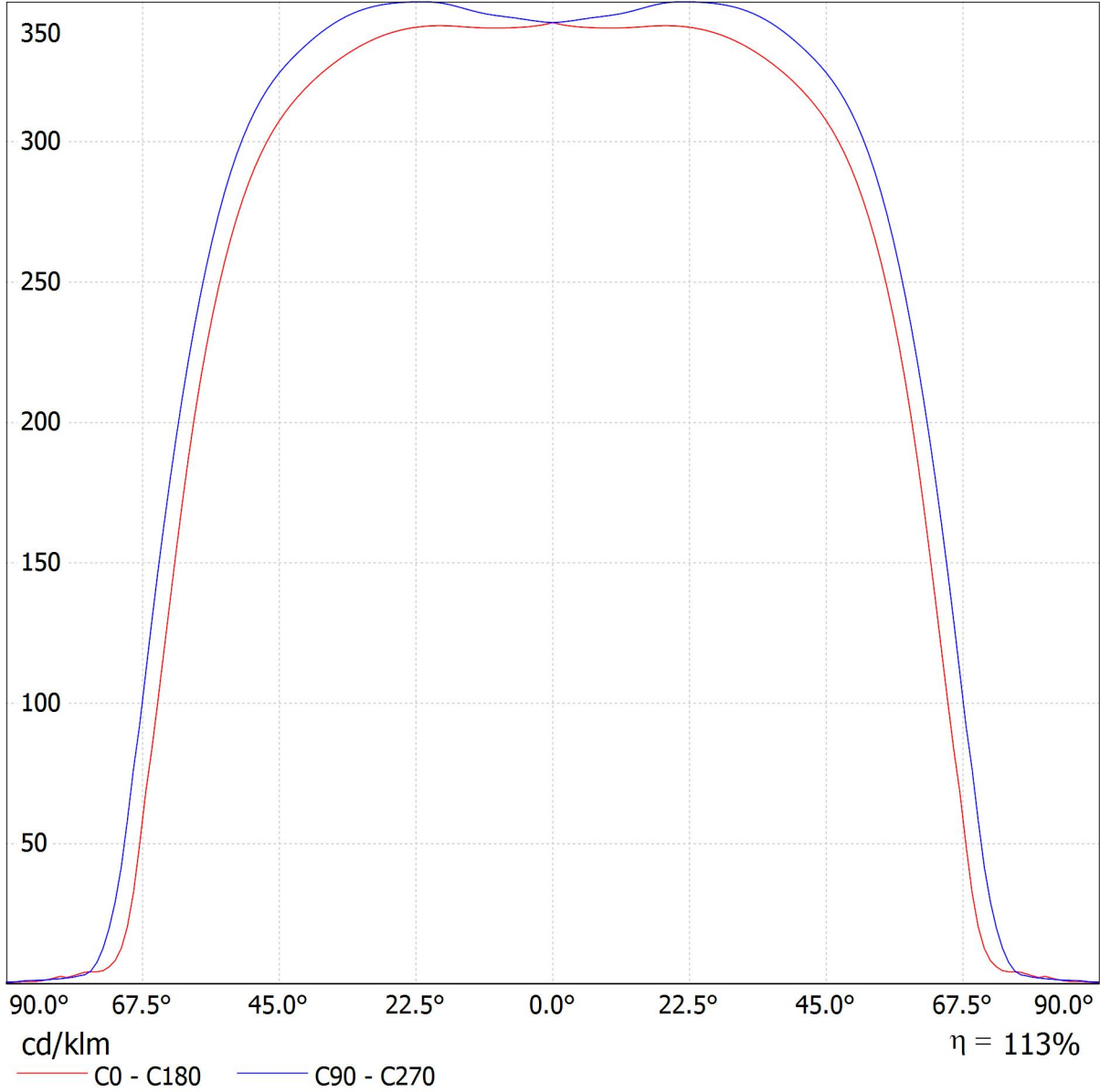


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## GlacialLight GL-FL190-NW-4000K-120D Lens-with lampshade / LDC (Linear)

Luminaire: GlacialLight GL-FL190-NW-4000K-120D Lens-with lampshade  
Lamps: 1 x Flood Light



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 Fax +886 2 2244-1228  
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## GlacialLight GL-FL190-NW-4000K-120D Lens-with lampshade / UGR-Table

Luminaire: GlacialLight GL-FL190-NW-4000K-120D 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  |     | Viewing direction at right angles to lamp axis |      |      |      |      | Viewing direction parallel to lamp axis |      |      |      |      |
| X  | Y   |  |      |      |      |      |   |      |      |      |      |
| 2H   | 2H  | 26.4   | 27.7 | 26.7 | 27.9 | 28.1 | 27.4                                    | 28.7 | 27.7 | 29.0 | 29.2 |
|  | 3H  | 26.5   | 27.7 | 26.8 | 27.9 | 28.2 | 27.9                                    | 29.0 | 28.2 | 29.3 | 29.5 |
|  | 4H  | 26.4   | 27.5 | 26.8 | 27.8 | 28.1 | 27.8                                    | 28.9 | 28.1 | 29.2 | 29.4 |
|  | 6H  | 26.4   | 27.3 | 26.7 | 27.6 | 28.0 | 27.7                                    | 28.7 | 28.1 | 29.0 | 29.3 |
|  | 8H  | 26.3   | 27.3 | 26.7 | 27.6 | 27.9 | 27.7                                    | 28.6 | 28.0 | 28.9 | 29.3 |
|  | 12H | 26.3   | 27.2 | 26.7 | 27.5 | 27.8 | 27.6                                    | 28.5 | 28.0 | 28.9 | 29.2 |
| 4H   | 2H  | 26.8   | 27.9 | 27.1 | 28.1 | 28.4 | 27.7                                    | 28.8 | 28.0 | 29.0 | 29.3 |
|  | 3H  | 26.9   | 27.8 | 27.3 | 28.2 | 28.5 | 28.1                                    | 29.0 | 28.5 | 29.3 | 29.7 |
|  | 4H  | 26.9   | 27.7 | 27.3 | 28.0 | 28.4 | 28.1                                    | 28.9 | 28.5 | 29.2 | 29.6 |
|  | 6H  | 26.8   | 27.5 | 27.2 | 27.9 | 28.3 | 28.0                                    | 28.7 | 28.4 | 29.1 | 29.5 |
|  | 8H  | 26.8   | 27.4 | 27.2 | 27.8 | 28.2 | 28.0                                    | 28.6 | 28.4 | 29.0 | 29.4 |
|  | 12H | 26.7   | 27.3 | 27.2 | 27.7 | 28.1 | 27.9                                    | 28.5 | 28.4 | 28.9 | 29.3 |
| 8H   | 4H  | 26.8   | 27.4 | 27.2 | 27.8 | 28.2 | 28.0                                    | 28.6 | 28.4 | 29.0 | 29.4 |
|  | 6H  | 26.7   | 27.2 | 27.2 | 27.7 | 28.1 | 27.9                                    | 28.4 | 28.4 | 28.8 | 29.3 |
|  | 8H  | 26.7   | 27.1 | 27.2 | 27.6 | 28.1 | 27.9                                    | 28.3 | 28.4 | 28.8 | 29.2 |
|  | 12H | 26.7   | 27.0 | 27.1 | 27.5 | 28.0 | 27.8                                    | 28.2 | 28.3 | 28.7 | 29.2 |
| 12H  | 4H  | 26.8   | 27.3 | 27.2 | 27.7 | 28.2 | 28.0                                    | 28.5 | 28.4 | 28.9 | 29.4 |
|  | 6H  | 26.7   | 27.1 | 27.2 | 27.6 | 28.1 | 27.9                                    | 28.3 | 28.4 | 28.8 | 29.2 |
|  | 8H  | 26.7   | 27.0 | 27.1 | 27.5 | 28.0 | 27.8                                    | 28.2 | 28.3 | 28.7 | 29.2 |
| Variation of the observer position for the luminaire distances S |     |  |      |      |      |      |   |      |      |      |      |
| S = 1.0H   |     | +0.2 / -0.4                                    |      |      |      |      | +0.1 / -0.2                             |      |      |      |      |
| S = 1.5H   |     | +1.0 / -1.9                                    |      |      |      |      | +0.7 / -0.9                             |      |      |      |      |
| S = 2.0H   |     | +2.1 / -6.4                                    |      |      |      |      | +2.1 / -4.4                             |      |      |      |      |
| Standard table   |     | BK01   |      |      |      |      | BK01                                    |      |      |      |      |
| Correction Summand   |     | 9.3  |      |      |      |      | 10.5                                    |      |      |      |      |
| 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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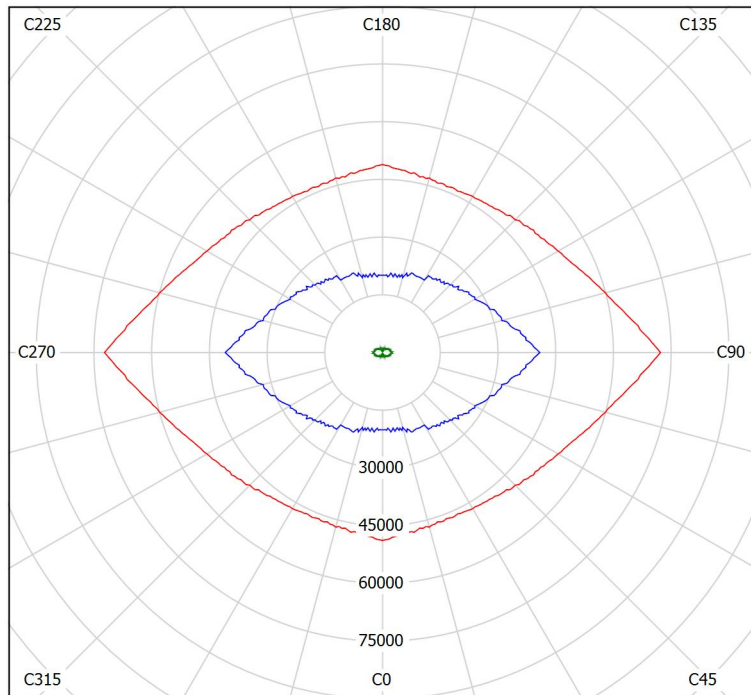
## GlacialLight GL-FL190-NW-4000K-120D Lens-with lampshade / Glare Data Sheet

Luminaire: GlacialLight GL-FL190-NW-4000K-120D 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<br>X Y   |      | Viewing direction at right angles<br>to lamp axis |      |      |      |      | Viewing direction parallel<br>to lamp axis |      |      |      |      |
| 2H   | 2H   | 26.4  | 27.7 | 26.7 | 27.9 | 28.1 | 27.4                                       | 28.7 | 27.7 | 29.0 | 29.2 |
|  | 3H   | 26.5  | 27.7 | 26.8 | 27.9 | 28.2 | 27.9                                       | 29.0 | 28.2 | 29.3 | 29.5 |
|  | 4H   | 26.4  | 27.5 | 26.8 | 27.8 | 28.1 | 27.8                                       | 28.9 | 28.1 | 29.2 | 29.4 |
|  | 6H   | 26.4  | 27.3 | 26.7 | 27.6 | 28.0 | 27.7                                       | 28.7 | 28.1 | 29.0 | 29.3 |
|  | 8H   | 26.3  | 27.3 | 26.7 | 27.6 | 27.9 | 27.7                                       | 28.6 | 28.0 | 28.9 | 29.3 |
| 12H  | 26.3 | 27.2  | 26.7 | 27.5 | 27.8 | 27.6 | 28.5                                       | 28.0 | 28.9 | 29.2 |      |
| 4H   | 2H   | 26.8  | 27.9 | 27.1 | 28.1 | 28.4 | 27.7                                       | 28.8 | 28.0 | 29.0 | 29.3 |
|  | 3H   | 26.9  | 27.8 | 27.3 | 28.2 | 28.5 | 28.1                                       | 29.0 | 28.5 | 29.3 | 29.7 |
|  | 4H   | 26.9  | 27.7 | 27.3 | 28.0 | 28.4 | 28.1                                       | 28.9 | 28.5 | 29.2 | 29.6 |
|  | 6H   | 26.8  | 27.5 | 27.2 | 27.9 | 28.3 | 28.0                                       | 28.7 | 28.4 | 29.1 | 29.5 |
|  | 8H   | 26.8  | 27.4 | 27.2 | 27.8 | 28.2 | 28.0                                       | 28.6 | 28.4 | 29.0 | 29.4 |
| 12H  | 26.7 | 27.3  | 27.2 | 27.7 | 28.1 | 27.9 | 28.5                                       | 28.4 | 28.9 | 29.3 |      |
| 8H   | 4H   | 26.8  | 27.4 | 27.2 | 27.8 | 28.2 | 28.0                                       | 28.6 | 28.4 | 29.0 | 29.4 |
|  | 6H   | 26.7  | 27.2 | 27.2 | 27.7 | 28.1 | 27.9                                       | 28.4 | 28.4 | 28.8 | 29.3 |
|  | 8H   | 26.7  | 27.1 | 27.2 | 27.6 | 28.1 | 27.9                                       | 28.3 | 28.4 | 28.8 | 29.2 |
|  | 12H  | 26.7  | 27.0 | 27.1 | 27.5 | 28.0 | 27.8                                       | 28.2 | 28.3 | 28.7 | 29.2 |
| 12H  | 4H   | 26.8  | 27.3 | 27.2 | 27.7 | 28.2 | 28.0                                       | 28.5 | 28.4 | 28.9 | 29.4 |
|  | 6H   | 26.7  | 27.1 | 27.2 | 27.6 | 28.1 | 27.9                                       | 28.3 | 28.4 | 28.8 | 29.2 |
|  | 8H   | 26.7  | 27.0 | 27.1 | 27.5 | 28.0 | 27.8                                       | 28.2 | 28.3 | 28.7 | 29.2 |
| Variation of the observer position for the luminaire distances S |      |   |      |      |      |      |  |      |      |      |      |
| S = 1.0H   |      | +0.2 / -0.4                                       |      |      |      |      | +0.1 / -0.2                                |      |      |      |      |
| S = 1.5H   |      | +1.0 / -1.9                                       |      |      |      |      | +0.7 / -0.9                                |      |      |      |      |
| S = 2.0H   |      | +2.1 / -6.4                                       |      |      |      |      | +2.1 / -4.4                                |      |      |      |      |
| Standard table   |      | BK01  |      |      |      |      | BK01                                       |      |      |      |      |
| Correction Summand   |      | 9.3   |      |      |      |      | 10.5                                       |      |      |      |      |
| 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.



$cd/m^2$   
 —  $g = 55.0^\circ$  —  $g = 65.0^\circ$  —  $g = 75.0^\circ$