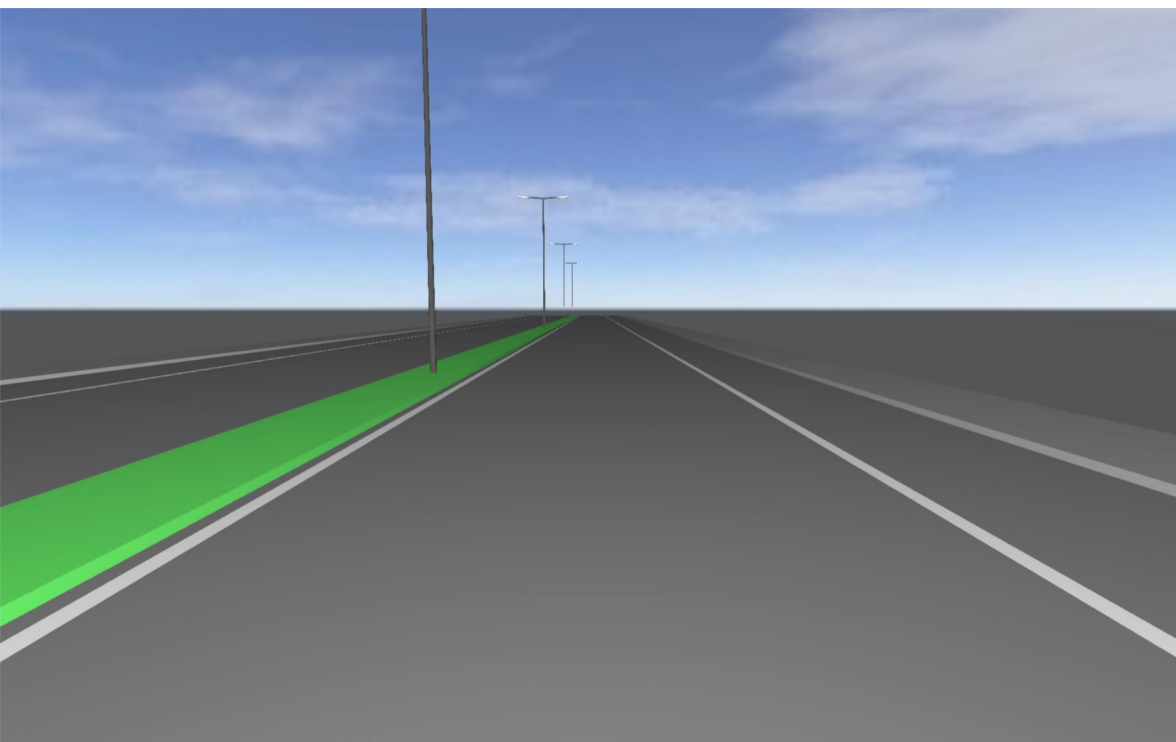




Den Haag profiel 15

## Opmerkingen vooraf

## Inhoud

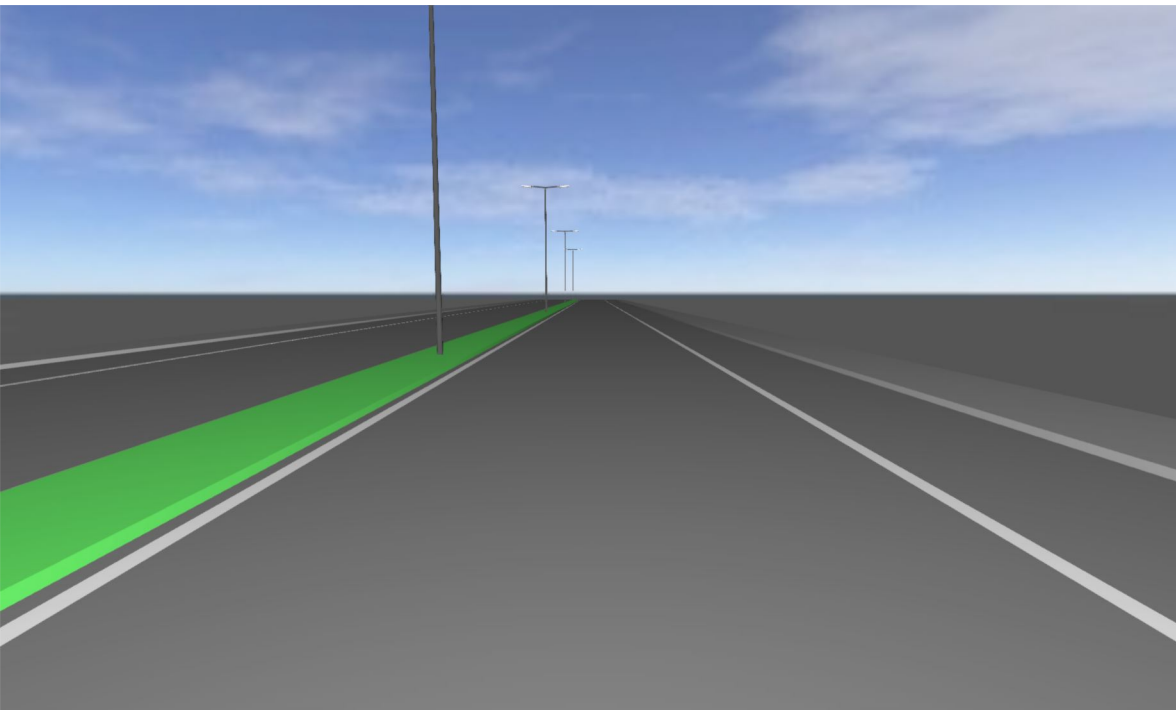
|                          |   |
|--------------------------|---|
| Voorblad .....           | 1 |
| Opmerkingen vooraf ..... | 2 |
| Inhoud .....             | 3 |
| Beschrijving .....       | 4 |
| Armaturenlijst .....     | 5 |

## Productgegevens

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|----------------------------------------------------------------------------------------------|---|

## Profiel 15 · Alternatief 1

|                                    |    |
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| Voetpad 8 (P5) .....               | 25 |



## Beschrijving

## Armaturenlijst

 $\Phi_{\text{totaal}}$ 

64664 lm

 $P_{\text{totaal}}$ 

480.0 W

Lichtrendement

134.7 lm/W

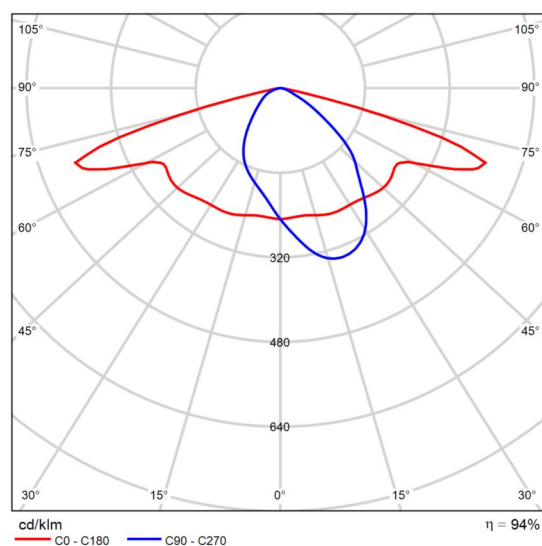
| Stuk | Fabrikant            | Artikelnr. | Artikelnaam                                   | P      | $\Phi$  | Lichtrendement |
|------|----------------------|------------|-----------------------------------------------|--------|---------|----------------|
| 8    | LIGHTRONIC<br>S B.V. |            | BRISA-PLUS-L2WG5-LC-W1-48LED-3000K-8640LM-60W | 60.0 W | 8083 lm | 134.7 lm/W     |

## Productgegevensblad

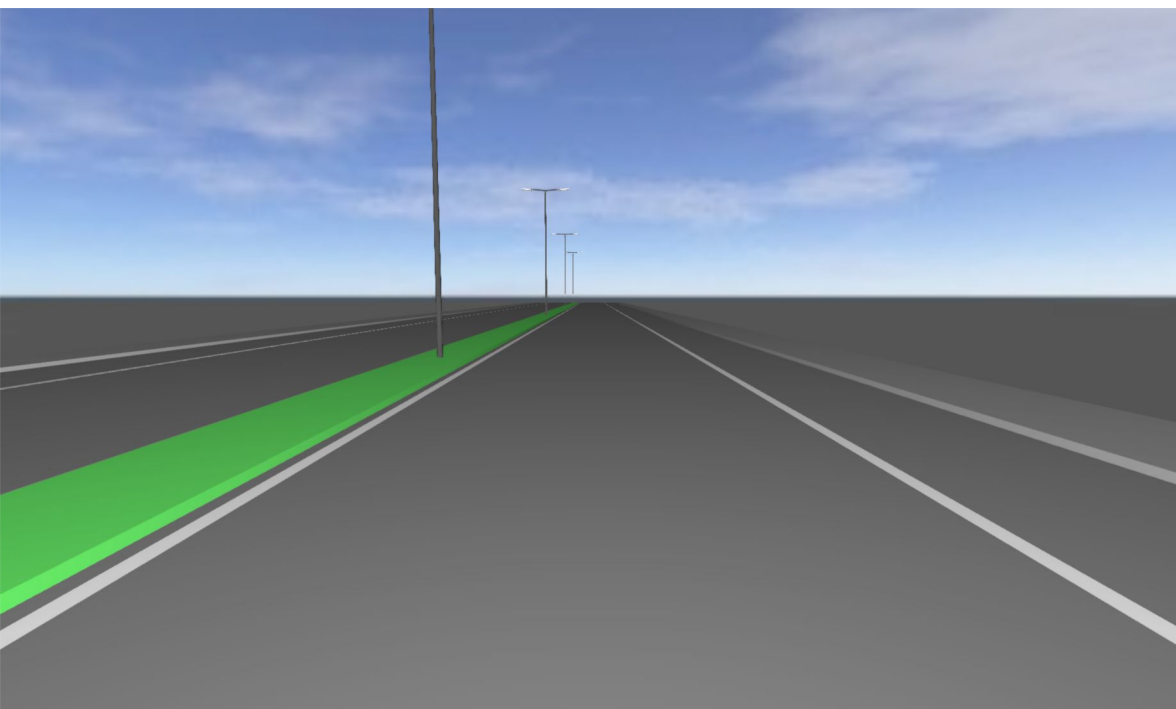
LIGHTRONICS B.V. - BRISA-PLUS-L2WG5-LC-W1-48LED-3000K-8640LM-60W



|                          |            |
|--------------------------|------------|
| P                        | 60.0 W     |
| $\Phi_{\text{Lamp}}$     | 8640 lm    |
| $\Phi_{\text{Armatuur}}$ | 8083 lm    |
| $\eta$                   | 93.55 %    |
| Lichtrendement           | 134.7 lm/W |
| CCT                      | 3000 K     |
| CRI                      | 100        |



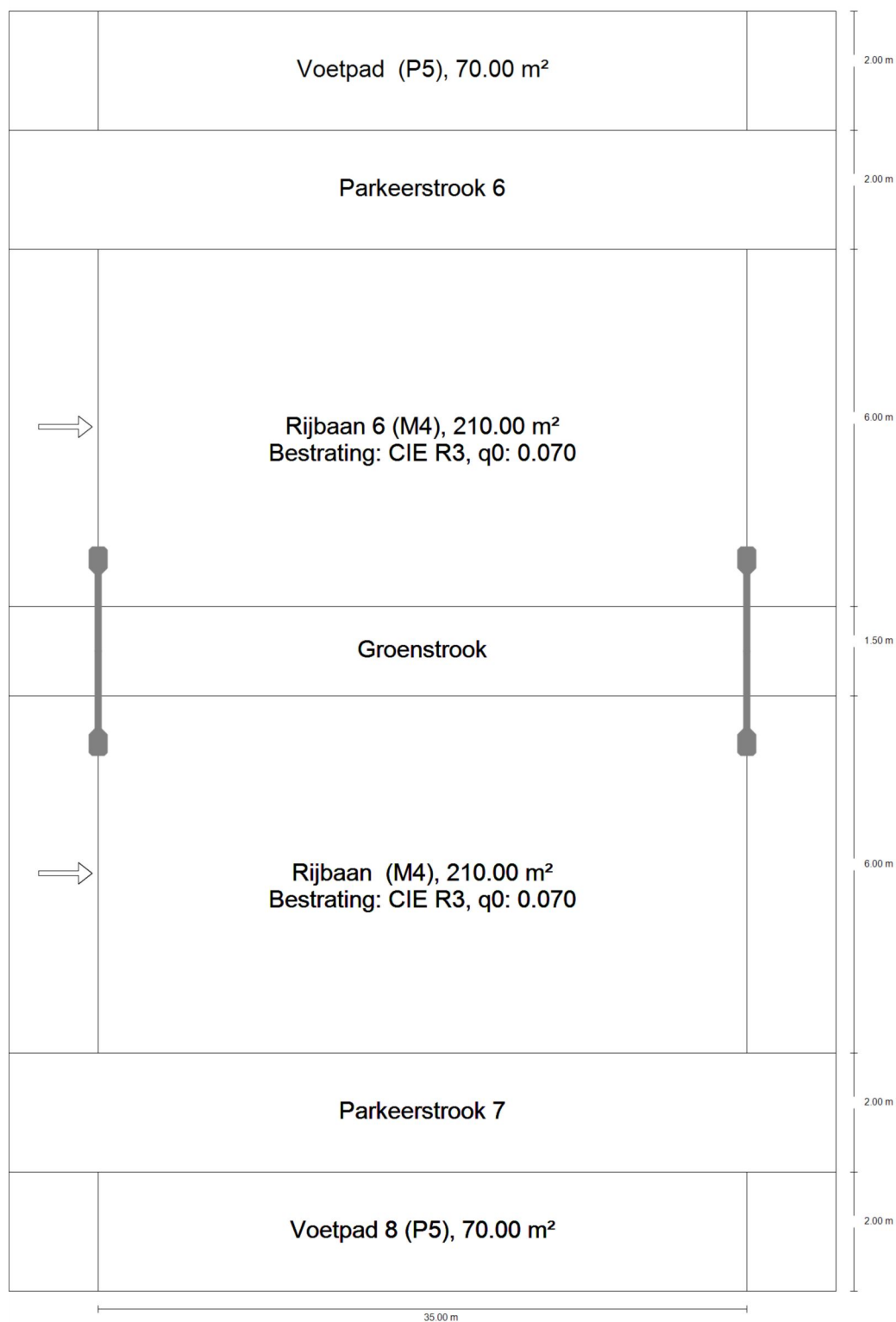
Polaire LVK



Profiel 15

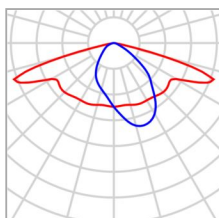
## Beschrijving

Profiel 15

**Samenvatting (tot ROVL-2011)**

## Profiel 15

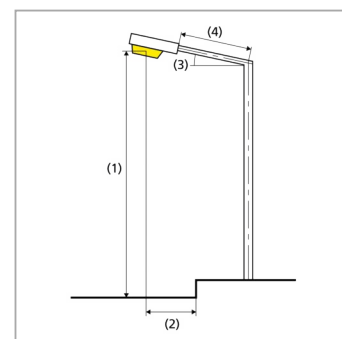
## Samenvatting (tot ROVL-2011)



|             |                                               |                          |         |
|-------------|-----------------------------------------------|--------------------------|---------|
| Fabrikant   | LIGHTRONICS B.V.                              | P                        | 60.0 W  |
| Artikelnaam | BRISA-PLUS-L2WG5-LC-W1-48LED-3000K-8640LM-60W | $\Phi_{\text{Lamp}}$     | 8640 lm |
|             |                                               | $\Phi_{\text{Armatuur}}$ | 8083 lm |
| Uitrusting  | 1x L2WG5-FFDA-405mA                           | $\eta$                   | 93.55 % |

## BRISA-PLUS-L2WG5-LC-W1-48LED-3000K-8640LM-60W (enkelzijdig boven, 2 per mast)

|                                                                                                                     |                                                         |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Mastafstand                                                                                                         | 35.000 m                                                |
| (1) Lichtpunthoogte                                                                                                 | 10.000 m                                                |
| (2) Vooruitspringing lichtpunt                                                                                      | 8.253 m                                                 |
| (3) Armhoek                                                                                                         | 5.0°                                                    |
| (4) Armlengte                                                                                                       | 1.500 m                                                 |
| Verbruik                                                                                                            | 3480.0 W/km                                             |
| ULR / ULOR                                                                                                          | 0.00 / 0.00                                             |
| Max. lichtsterktes<br>In iedere richting, gemeten vanaf de neerwaarde<br>verticaal van het geïnstalleerde armatuur. | 70°: 577 cd/klm<br>80°: 60.6 cd/klm<br>90°: 3.83 cd/klm |
| Lichtsterkteklasse                                                                                                  | G.3                                                     |
| Verblindingsindexklasse                                                                                             | D.5                                                     |
| MF                                                                                                                  | 0.90                                                    |



## Resultaten voor waarderingsvelden

Voor de installatie werd met een onderhoudsfactor van 0.90 gerekend.

## Profiel 15

## Samenvatting (tot ROVL-2011)

|                | Grootte                             | Berekend               | Moet                     | Check |
|----------------|-------------------------------------|------------------------|--------------------------|-------|
| Voetpad (P5)   | E <sub>gem</sub>                    | 9.57 lx                | ≥ 3.00 lx                | ✓     |
|                | E <sub>s</sub>                      | 6.85 lx                | ≥ 0.60 lx                | ✓     |
|                | U <sub>h</sub>                      | 0.72                   | ≥ 0.20                   | ✓     |
|                | E <sub>v (R)</sub>                  | 2.08 lx                | ≥ 0.50 lx                | ✓     |
|                | E <sub>v (S)</sub> <sup>(1)</sup>   | 1.73 lx                | –                        |       |
| Rijbaan 6 (M4) | L <sub>gem</sub>                    | 1.24 cd/m <sup>2</sup> | ≥ 0.75 cd/m <sup>2</sup> | ✓     |
|                | U <sub>o</sub>                      | 0.63                   | ≥ 0.40                   | ✓     |
|                | U <sub>l</sub>                      | 0.74                   | ≥ 0.60                   | ✓     |
|                | TI                                  | 11 %                   | ≤ 15 %                   | ✓     |
|                | SR                                  | 0.86                   | ≥ 0.50                   | ✓     |
|                | E <sub>v (R+S)</sub> <sup>(1)</sup> | 1.77 lx                | –                        |       |
| Rijbaan (M4)   | L <sub>gem</sub>                    | 1.24 cd/m <sup>2</sup> | ≥ 0.75 cd/m <sup>2</sup> | ✓     |
|                | U <sub>o</sub>                      | 0.63                   | ≥ 0.40                   | ✓     |
|                | U <sub>l</sub>                      | 0.75                   | ≥ 0.60                   | ✓     |
|                | TI                                  | 10 %                   | ≤ 15 %                   | ✓     |
|                | SR                                  | 0.86                   | ≥ 0.50                   | ✓     |
|                | E <sub>v (R+S)</sub> <sup>(1)</sup> | 1.77 lx                | –                        |       |
| Voetpad 8 (P5) | E <sub>gem</sub>                    | 9.57 lx                | ≥ 3.00 lx                | ✓     |
|                | E <sub>s</sub>                      | 6.85 lx                | ≥ 0.60 lx                | ✓     |
|                | U <sub>h</sub>                      | 0.72                   | ≥ 0.20                   | ✓     |
|                | E <sub>v (R)</sub>                  | 2.08 lx                | ≥ 0.50 lx                | ✓     |
|                | E <sub>v (S)</sub> <sup>(1)</sup>   | 1.73 lx                | –                        |       |

(1) Informatief, geen deel van de waardering

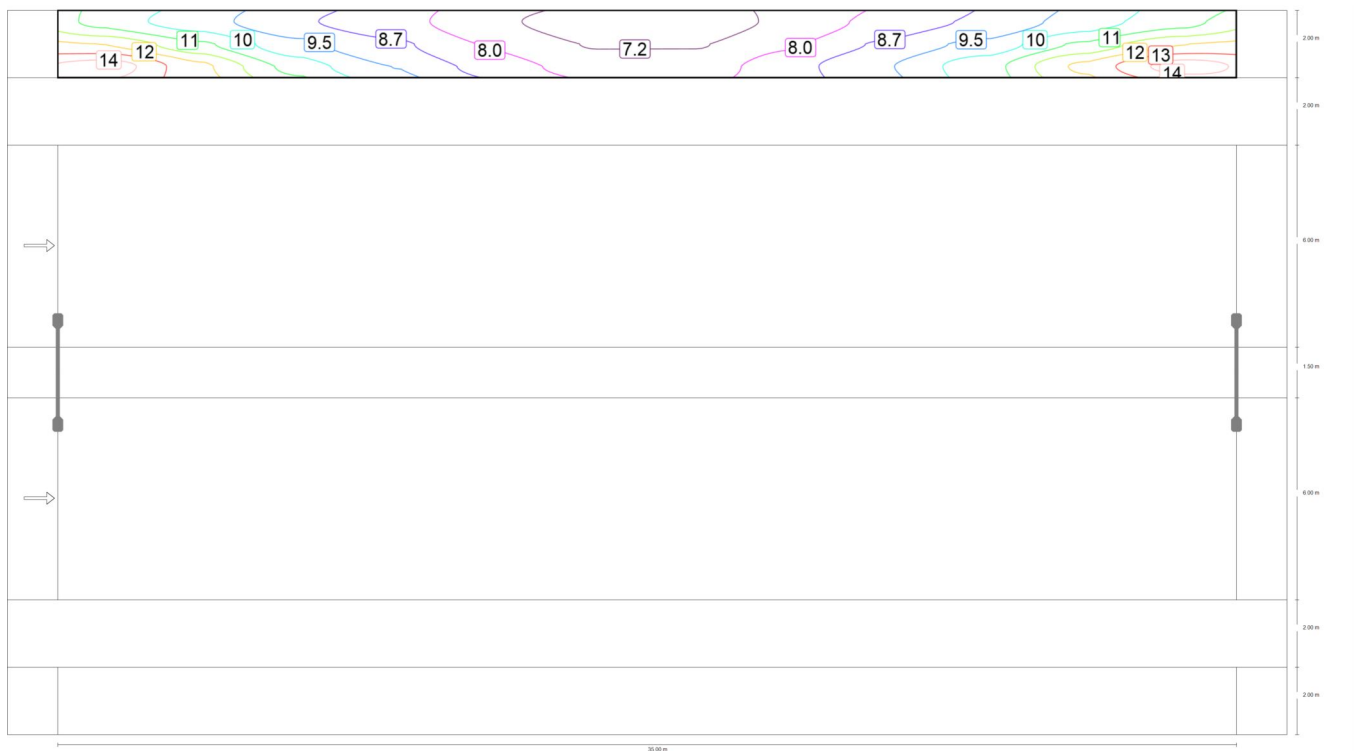
Profiel 15

**Voetpad (P5)**

Resultaten voor waarderingsveld

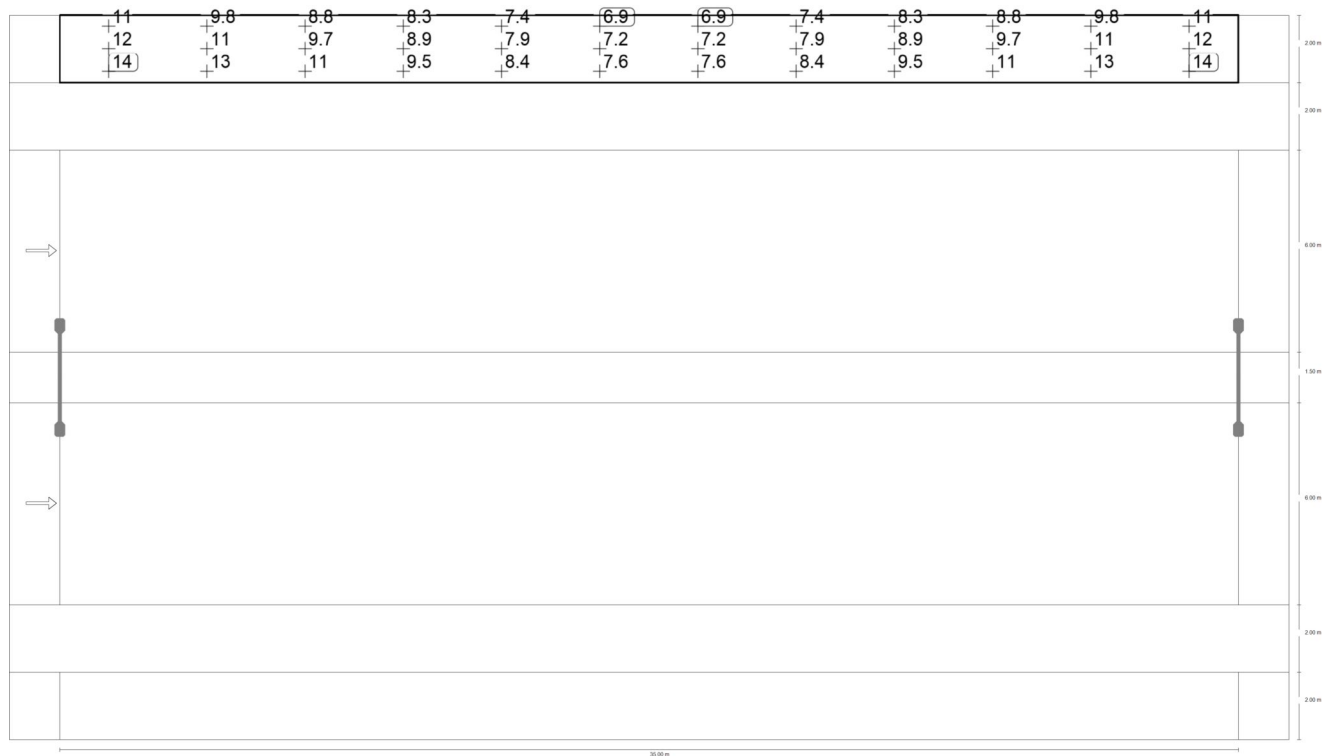
|              | Grootte          | Berekend | Moet                   | Check |
|--------------|------------------|----------|------------------------|-------|
| Voetpad (P5) | $E_{\text{gem}}$ | 9.57 lx  | $\geq 3.00 \text{ lx}$ | ✓     |
|              | $E_s$            | 6.85 lx  | $\geq 0.60 \text{ lx}$ | ✓     |
|              | $U_h$            | 0.72     | $\geq 0.20$            | ✓     |
|              | $E_v(R)$         | 2.08 lx  | $\geq 0.50 \text{ lx}$ | ✓     |
|              | $E_v(S)^{(1)}$   | 1.73 lx  | –                      |       |

(1) Informatief, geen deel van de waardering



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)

Profiel 15

**Voetpad (P5)**

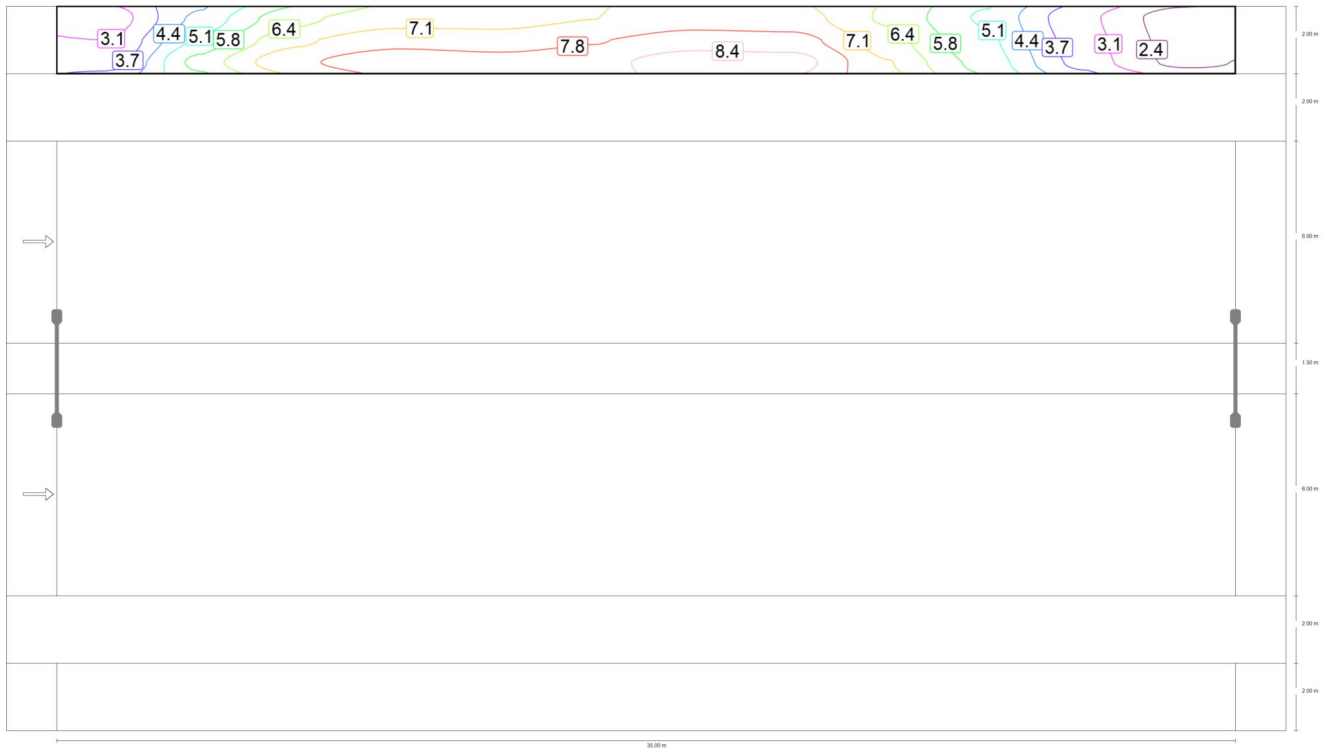
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 21.167 | 10.72 | 9.82  | 8.85  | 8.26   | 7.39   | 6.85   | 6.85   | 7.39   | 8.26   | 8.85   | 9.82   | 10.72  |
| 20.500 | 12.47 | 11.14 | 9.72  | 8.87   | 7.88   | 7.19   | 7.19   | 7.88   | 8.87   | 9.72   | 11.14  | 12.47  |
| 19.833 | 14.36 | 12.66 | 10.69 | 9.45   | 8.44   | 7.61   | 7.61   | 8.44   | 9.45   | 10.69  | 12.66  | 14.36  |

Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

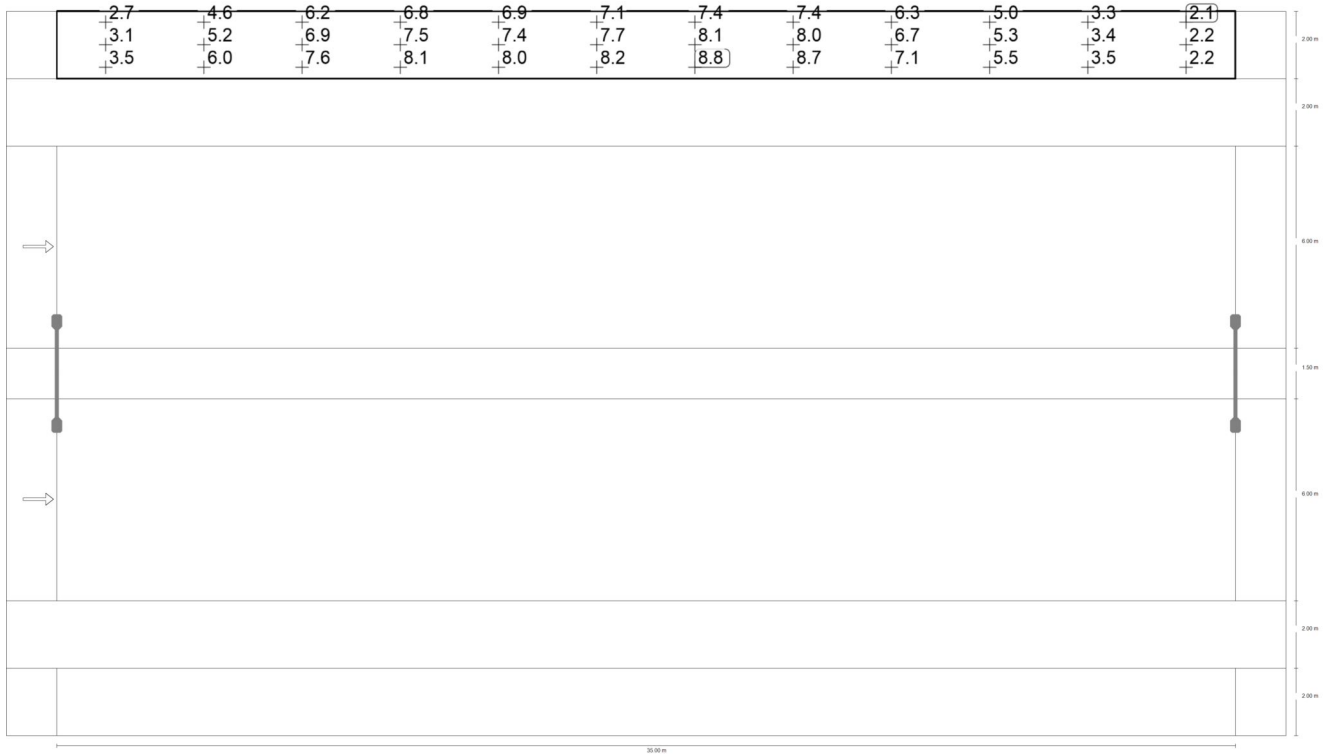
|                                                  | $E_{gem}$ | $E_s$   | $E_{max}$ | $g_1$ | $g_2$ |
|--------------------------------------------------|-----------|---------|-----------|-------|-------|
| Onderhoudswaarde horizontale verlichtingssterkte | 9.57 lx   | 6.85 lx | 14.4 lx   | 0.72  | 0.48  |

Profiel 15

**Voetpad (P5)**

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Isoluxlijnen)

Profiel 15

**Voetpad (P5)**

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardenraster)

| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 24.000 | 3.09  | 2.84  | 2.56  | 2.11   | 2.25   | 2.27   | 2.25   | 2.16   | 2.08   | 1.98   | 1.84   | 1.73   |
| 23.000 | 5.53  | 5.27  | 4.99  | 4.54   | 4.02   | 3.49   | 3.64   | 3.69   | 3.64   | 3.52   | 3.41   | 3.28   |
| 22.000 | 8.22  | 7.93  | 7.55  | 7.12   | 6.73   | 6.32   | 5.72   | 4.97   | 4.11   | 5.78   | 5.78   | 5.65   |
| 21.167 | 6.59  | 5.60  | 4.65  | 10.20  | 9.92   | 9.36   | 8.69   | 8.04   | 7.38   | 6.52   | 5.42   | 4.51   |
| 20.500 | 8.23  | 7.70  | 7.08  | 6.25   | 5.35   | 4.40   | 11.33  | 10.84  | 9.67   | 8.76   | 8.12   | 7.44   |
| 19.833 | 10.21 | 9.32  | 8.69  | 8.02   | 7.41   | 6.87   | 6.24   | 5.31   | 4.34   | 10.73  | 9.84   | 8.72   |
| 19.000 | 5.40  | 4.47  | 3.53  | 11.01  | 9.80   | 8.85   | 8.15   | 7.54   | 6.82   | 5.99   | 5.06   | 4.07   |
| 18.000 | 6.00  | 5.22  | 4.59  | 3.93   | 3.24   | 2.65   | 11.83  | 9.96   | 8.55   | 7.61   | 6.94   | 6.23   |
| 17.000 | 5.54  | 4.77  | 4.02  | 3.47   | 3.08   | 2.72   | 2.38   | 2.08   | 1.78   | 10.82  | 8.93   | 7.20   |

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardentabel)

|                                                         | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|---------------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 5.96 lx          | 1.73 lx        | 11.8 lx          | 0.29           | 0.15           |

Profiel 15

**Rijbaan 6 (M4)**

Resultaten voor waarderingsveld

|                | Grootte                             | Berekend               | Moet                     | Check |
|----------------|-------------------------------------|------------------------|--------------------------|-------|
| Rijbaan 6 (M4) | L <sub>gem</sub>                    | 1.24 cd/m <sup>2</sup> | ≥ 0.75 cd/m <sup>2</sup> | ✓     |
|                | U <sub>o</sub>                      | 0.63                   | ≥ 0.40                   | ✓     |
|                | U <sub>l</sub>                      | 0.74                   | ≥ 0.60                   | ✓     |
|                | TI                                  | 11 %                   | ≤ 15 %                   | ✓     |
|                | SR                                  | 0.86                   | ≥ 0.50                   | ✓     |
|                | E <sub>v</sub> (R+S) <sup>(1)</sup> | 1.77 lx                | –                        |       |

Resultaten voor waarnemer

|                                                                | Grootte          | Berekend               | Moet                     | Check |
|----------------------------------------------------------------|------------------|------------------------|--------------------------|-------|
| <b>Waarnemer 1</b><br>Positie:<br>-60.000 m, 14.500 m, 1.500 m | L <sub>gem</sub> | 1.24 cd/m <sup>2</sup> | ≥ 0.75 cd/m <sup>2</sup> | ✓     |
|                                                                | U <sub>o</sub>   | 0.63                   | ≥ 0.40                   | ✓     |
|                                                                | U <sub>l</sub>   | 0.74                   | ≥ 0.60                   | ✓     |
|                                                                | TI               | 11 %                   | ≤ 15 %                   | ✓     |

(1) Informatief, geen deel van de waardering

| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 16.750 | 24.28 | 20.75 | 16.29 | 12.48  | 10.56  | 9.39   | 9.39   | 10.56  | 12.48  | 16.29  | 20.75  | 24.28  |
| 15.250 | 27.90 | 23.99 | 18.17 | 13.87  | 11.31  | 9.79   | 9.79   | 11.31  | 13.86  | 18.17  | 23.96  | 27.87  |
| 13.750 | 29.02 | 25.07 | 18.77 | 14.38  | 11.67  | 9.97   | 9.97   | 11.68  | 14.40  | 18.78  | 25.08  | 29.02  |
| 12.250 | 28.95 | 24.36 | 18.04 | 14.42  | 11.77  | 9.96   | 9.95   | 11.78  | 14.46  | 18.06  | 24.38  | 28.95  |

Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|--------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde horizontale verlichtingssterkte | 17.3 lx          | 9.39 lx        | 29.0 lx          | 0.54           | 0.32           |

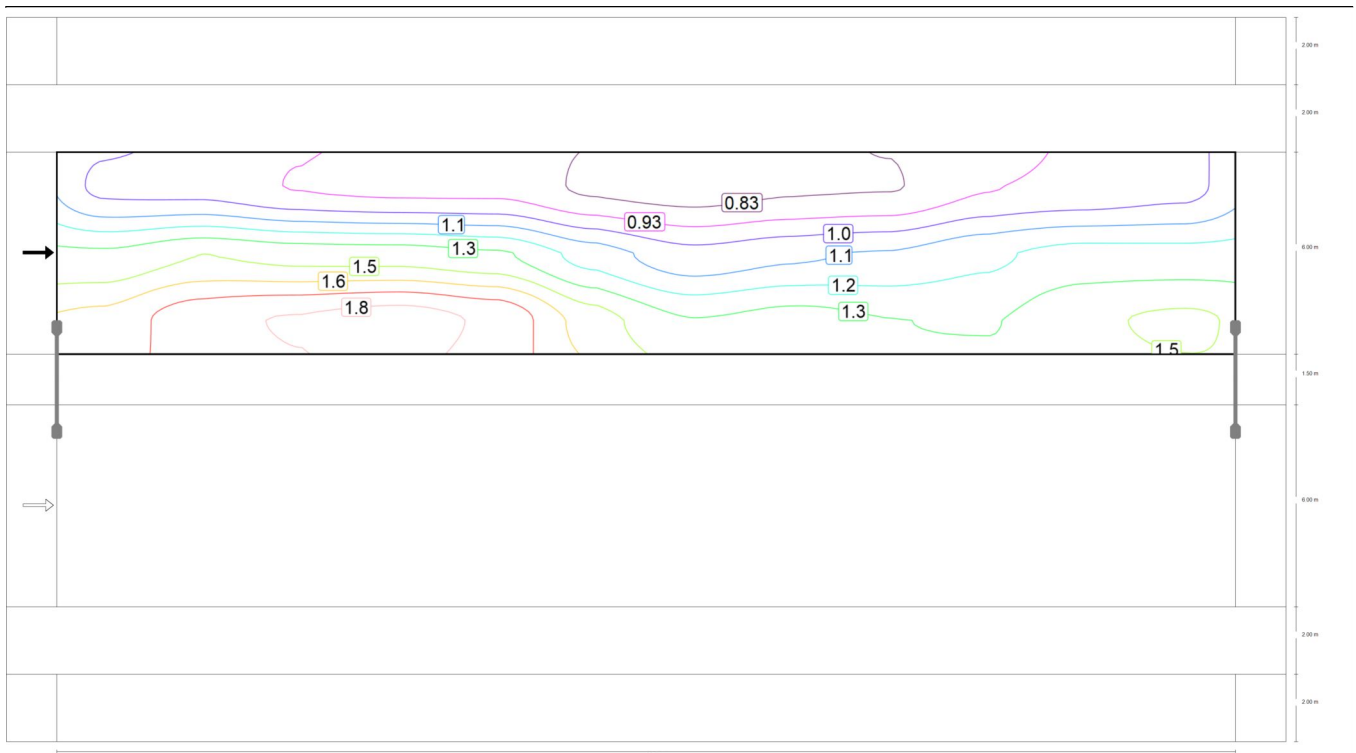
## Profiel 15

**Rijbaan 6 (M4)**

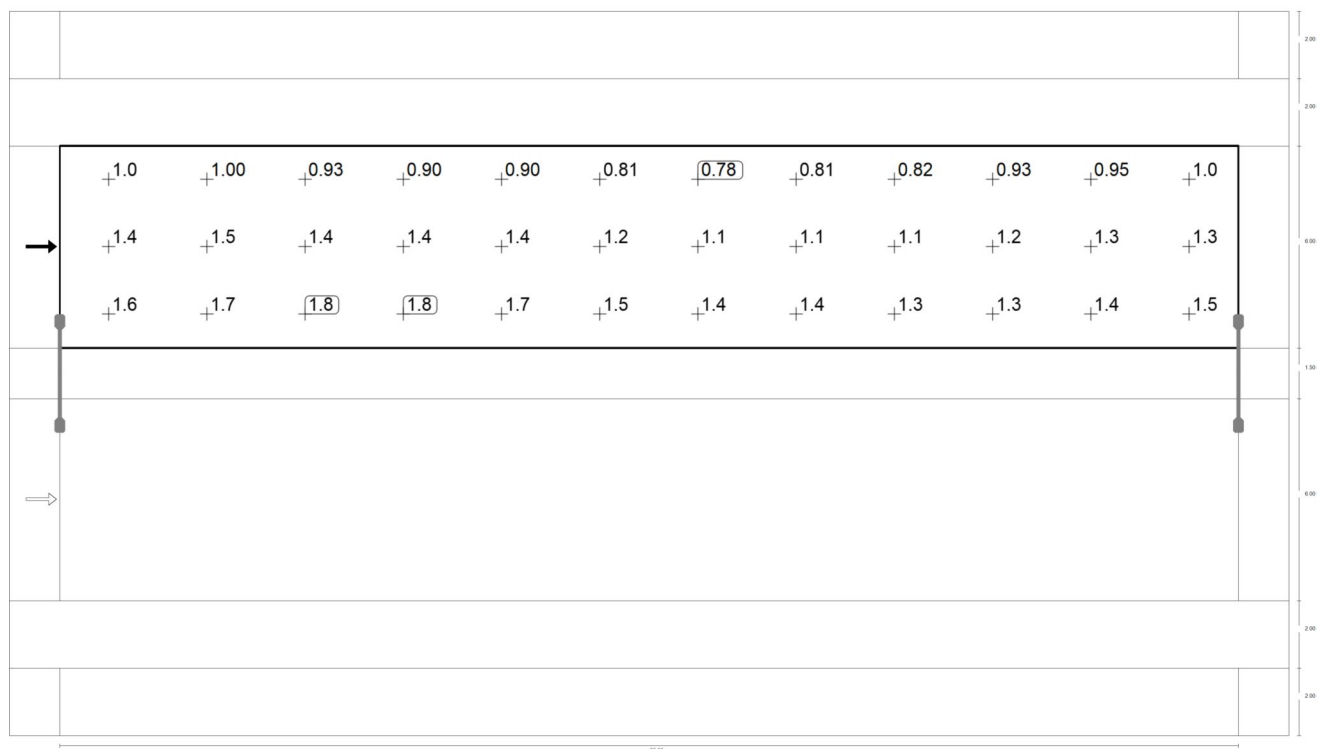
| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 20.000 | 3.64  | 3.49  | 1.77  | 1.78   | 1.79   | 1.78   | 1.79   | 1.92   | 2.09   | 2.25   | 2.27   | 2.24   |
| 19.000 | 5.81  | 5.78  | 5.65  | 5.47   | 3.09   | 3.09   | 3.10   | 3.11   | 3.26   | 3.49   | 3.62   | 3.69   |
| 18.000 | 7.96  | 8.43  | 8.27  | 7.93   | 7.55   | 7.03   | 5.13   | 5.15   | 5.13   | 5.15   | 5.38   | 5.80   |
| 16.750 | 9.82  | 10.11 | 10.43 | 10.62  | 10.27  | 9.92   | 9.36   | 8.51   | 7.64   | 7.57   | 7.50   | 7.66   |
| 15.250 | 11.60 | 11.44 | 11.38 | 11.60  | 11.98  | 11.92  | 11.45  | 10.84  | 9.67   | 8.59   | 10.19  | 9.94   |
| 13.750 | 8.69  | 7.84  | 11.86 | 11.77  | 11.75  | 11.93  | 11.78  | 11.44  | 10.87  | 9.84   | 8.72   | 8.11   |
| 12.250 | 11.32 | 9.80  | 8.85  | 8.00   | 12.10  | 12.21  | 12.21  | 12.18  | 11.91  | 11.49  | 10.48  | 9.32   |
| 11.000 | 16.03 | 14.84 | 12.31 | 9.96   | 8.55   | 7.43   | 14.76  | 15.12  | 15.20  | 14.85  | 14.28  | 13.04  |
| 10.000 | 14.56 | 14.75 | 15.25 | 14.10  | 11.30  | 8.93   | 7.20   | 5.79   | 15.84  | 15.52  | 15.49  | 15.77  |
| 9.000  | 7.09  | 7.04  | 7.04  | 7.10   | 7.08   | 6.77   | 5.73   | 4.77   | 4.02   | 3.36   | 14.84  | 14.57  |

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardentabel)

|                                                         | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|---------------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 8.75 lx          | 1.77 lx        | 16.0 lx          | 0.20           | 0.11           |

Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Isoluxlijnen)

Profiel 15

**Rijbaan 6 (M4)**

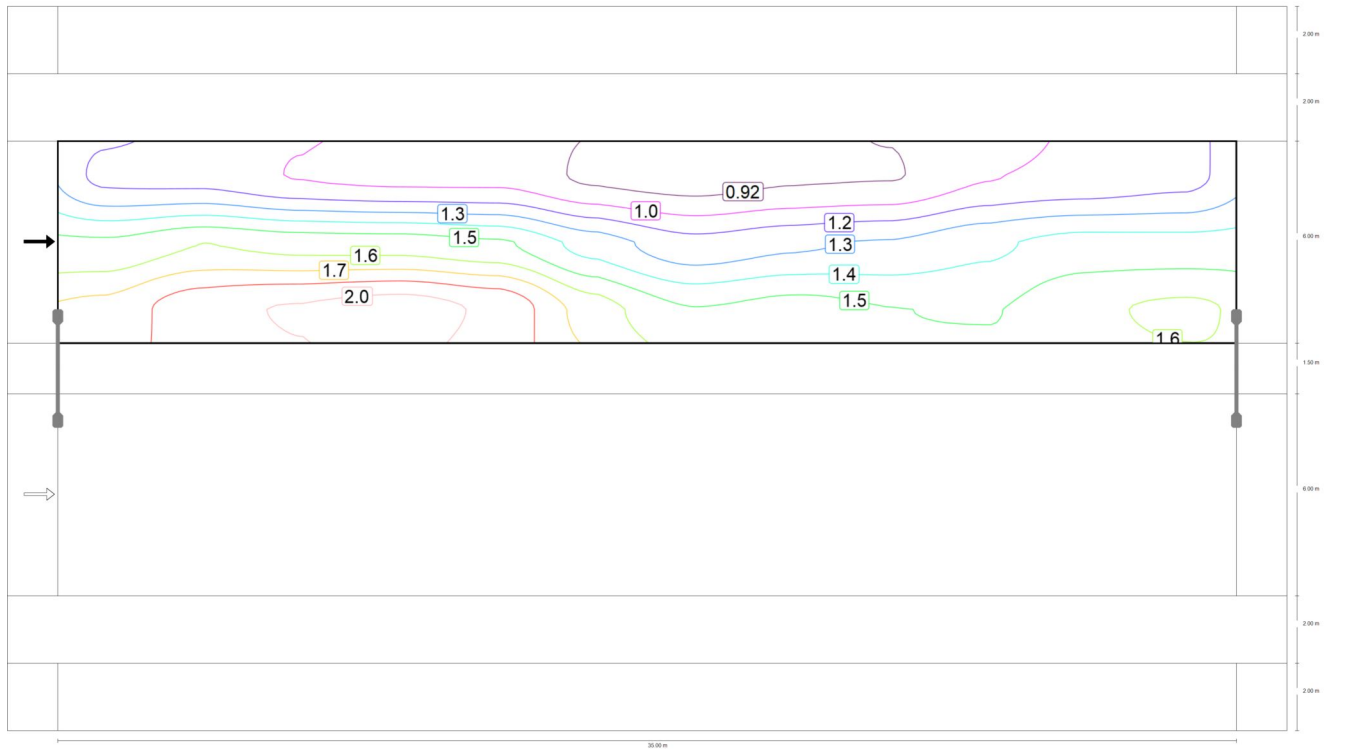
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardenraster)

| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 16.500 | 1.01  | 1.00  | 0.93  | 0.90   | 0.90   | 0.81   | 0.78   | 0.81   | 0.82   | 0.93   | 0.95   | 1.00   |
| 14.500 | 1.37  | 1.45  | 1.41  | 1.41   | 1.36   | 1.20   | 1.07   | 1.12   | 1.15   | 1.22   | 1.28   | 1.28   |
| 12.500 | 1.59  | 1.72  | 1.77  | 1.81   | 1.74   | 1.51   | 1.35   | 1.38   | 1.35   | 1.34   | 1.43   | 1.47   |

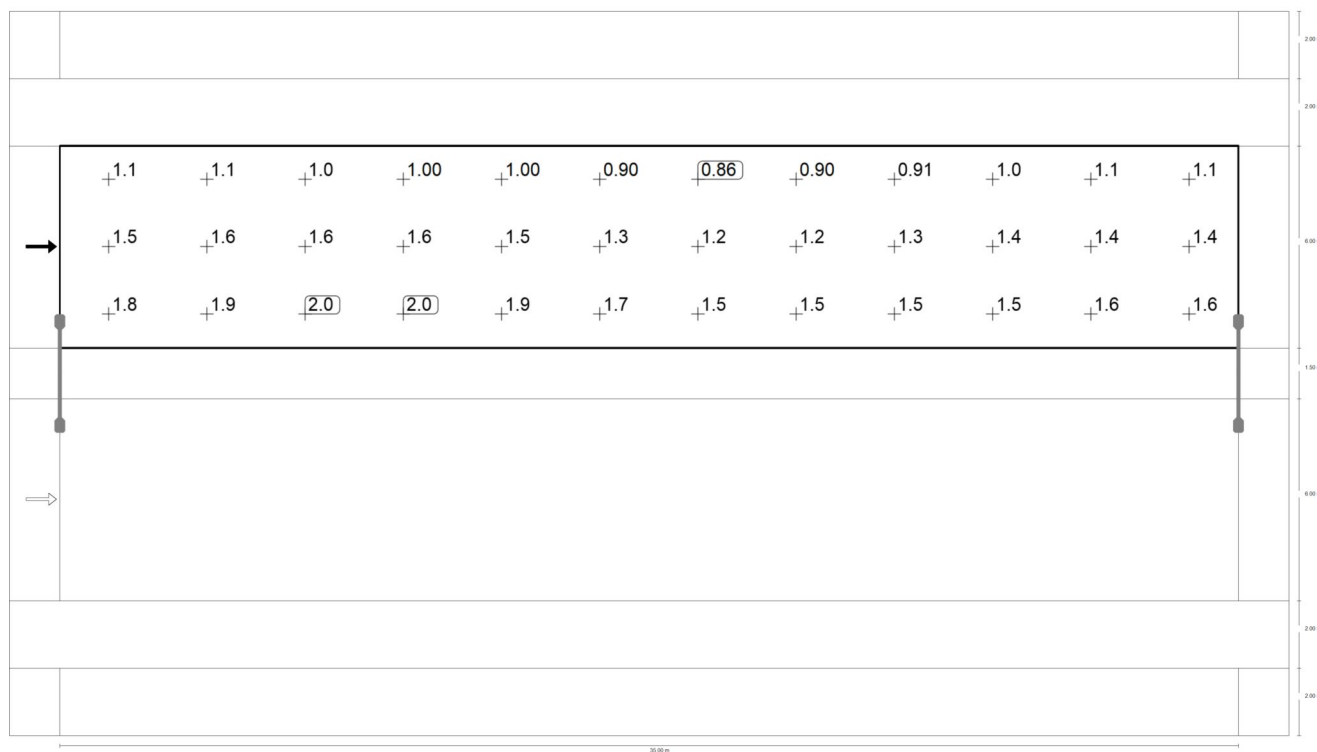
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardentabel)

|                                                            | $L_{\text{gem}}$     | $L_s$                | $L_{\text{max}}$     | $g_1$ | $g_2$ |
|------------------------------------------------------------|----------------------|----------------------|----------------------|-------|-------|
| Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan | 1.24 $\text{cd/m}^2$ | 0.78 $\text{cd/m}^2$ | 1.81 $\text{cd/m}^2$ | 0.63  | 0.43  |

Profiel 15

**Rijbaan 6 (M4)**Waarnemer 1: Luminantie bij nieuwe installatie [ $\text{cd/m}^2$ ] (Isoluxlijnen)

Profiel 15

**Rijbaan 6 (M4)**

Waarnemer 1: Luminantie bij nieuwe installatie [ $\text{cd/m}^2$ ] (Waardenraster)

| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 16.500 | 1.12  | 1.11  | 1.03  | 1.00   | 1.00   | 0.90   | 0.86   | 0.90   | 0.91   | 1.03   | 1.06   | 1.11   |
| 14.500 | 1.52  | 1.61  | 1.57  | 1.56   | 1.52   | 1.33   | 1.19   | 1.25   | 1.28   | 1.36   | 1.43   | 1.43   |
| 12.500 | 1.77  | 1.92  | 1.97  | 2.02   | 1.94   | 1.67   | 1.50   | 1.53   | 1.50   | 1.49   | 1.59   | 1.63   |

Waarnemer 1: Luminantie bij nieuwe installatie [ $\text{cd/m}^2$ ] (Waardentabel)

|                                                | $L_{\text{gem}}$     | $L_s$                | $L_{\text{max}}$     | $g_1$ | $g_2$ |
|------------------------------------------------|----------------------|----------------------|----------------------|-------|-------|
| Waarnemer 1: Luminantie bij nieuwe installatie | 1.38 $\text{cd/m}^2$ | 0.86 $\text{cd/m}^2$ | 2.02 $\text{cd/m}^2$ | 0.63  | 0.43  |

Profiel 15

**Rijbaan (M4)**

Resultaten voor waarderingsveld

|              | Grootte                             | Berekend               | Moet                     | Check |
|--------------|-------------------------------------|------------------------|--------------------------|-------|
| Rijbaan (M4) | L <sub>gem</sub>                    | 1.24 cd/m <sup>2</sup> | ≥ 0.75 cd/m <sup>2</sup> | ✓     |
|              | U <sub>o</sub>                      | 0.63                   | ≥ 0.40                   | ✓     |
|              | U <sub>l</sub>                      | 0.75                   | ≥ 0.60                   | ✓     |
|              | TI                                  | 10 %                   | ≤ 15 %                   | ✓     |
|              | SR                                  | 0.86                   | ≥ 0.50                   | ✓     |
|              | E <sub>v</sub> (R+S) <sup>(1)</sup> | 1.77 lx                | –                        |       |

Resultaten voor waarnemer

|                                                               | Grootte          | Berekend               | Moet                     | Check |
|---------------------------------------------------------------|------------------|------------------------|--------------------------|-------|
| <b>Waarnemer 1</b><br>Positie:<br>-60.000 m, 7.000 m, 1.500 m | L <sub>gem</sub> | 1.24 cd/m <sup>2</sup> | ≥ 0.75 cd/m <sup>2</sup> | ✓     |
|                                                               | U <sub>o</sub>   | 0.63                   | ≥ 0.40                   | ✓     |
|                                                               | U <sub>l</sub>   | 0.75                   | ≥ 0.60                   | ✓     |
|                                                               | TI               | 10 %                   | ≤ 15 %                   | ✓     |

(1) Informatief, geen deel van de waardering

| m     | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9.250 | 28.95 | 24.38 | 18.06 | 14.46  | 11.78  | 9.95   | 9.96   | 11.77  | 14.42  | 18.04  | 24.36  | 28.95  |
| 7.750 | 29.02 | 25.08 | 18.78 | 14.40  | 11.68  | 9.97   | 9.97   | 11.67  | 14.38  | 18.77  | 25.07  | 29.02  |
| 6.250 | 27.87 | 23.96 | 18.17 | 13.86  | 11.31  | 9.79   | 9.79   | 11.31  | 13.87  | 18.17  | 23.99  | 27.90  |
| 4.750 | 24.28 | 20.75 | 16.29 | 12.48  | 10.56  | 9.39   | 9.39   | 10.56  | 12.48  | 16.29  | 20.75  | 24.28  |

Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|--------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde horizontale verlichtingssterkte | 17.3 lx          | 9.39 lx        | 29.0 lx          | 0.54           | 0.32           |

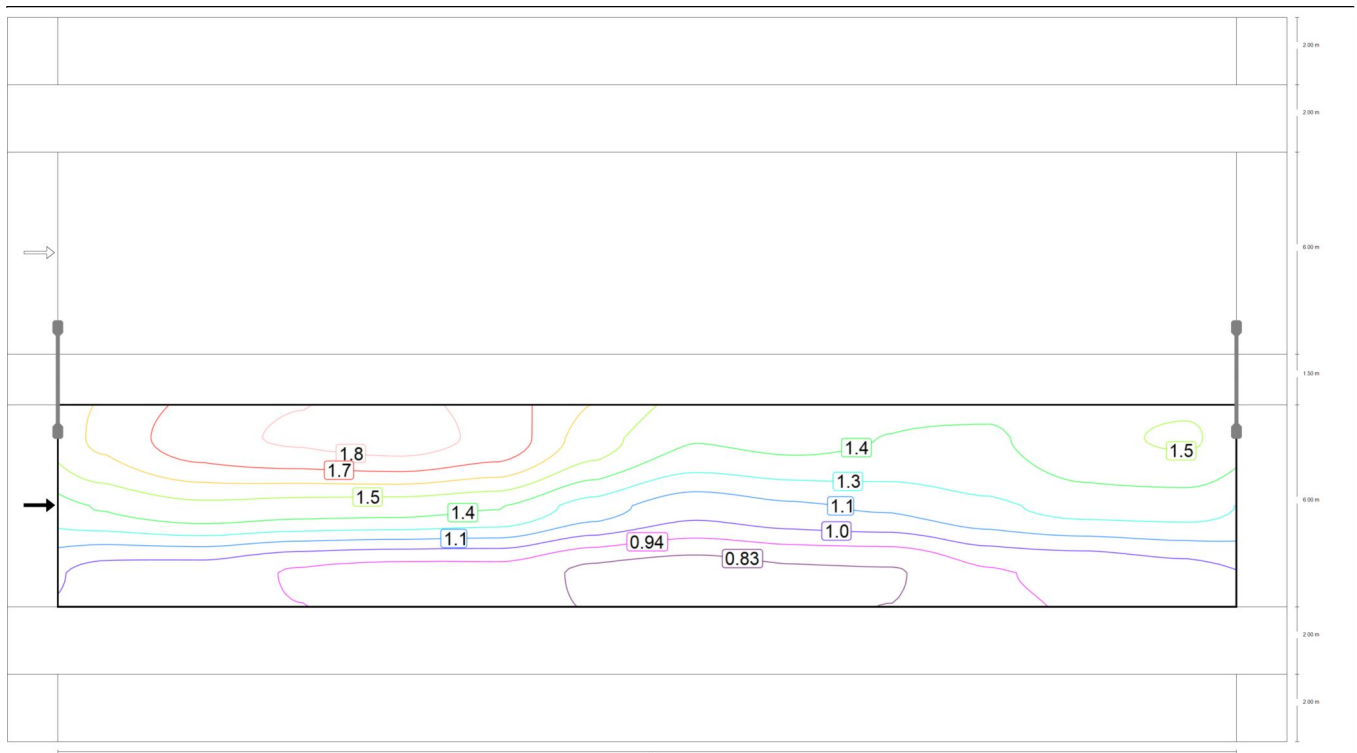
## Profiel 15

**Rijbaan (M4)**

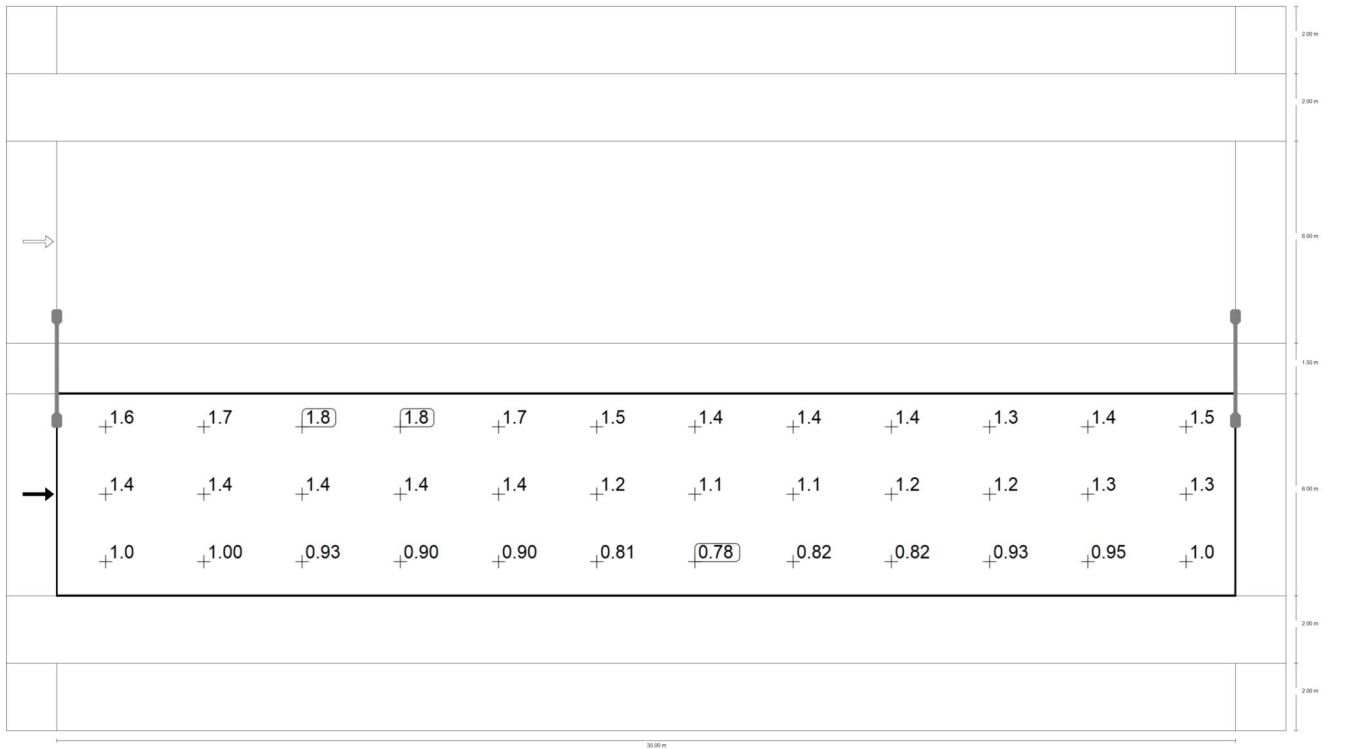
| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12.500 | 3.10  | 3.12  | 2.24  | 2.27   | 2.25   | 2.09   | 1.92   | 1.81   | 1.77   | 1.79   | 1.79   | 1.78   |
| 11.500 | 5.09  | 5.12  | 5.14  | 5.16   | 3.49   | 3.64   | 3.69   | 3.62   | 3.48   | 3.20   | 3.08   | 3.09   |
| 10.500 | 8.42  | 7.95  | 7.60  | 7.53   | 7.54   | 7.67   | 5.47   | 5.65   | 5.78   | 5.81   | 5.84   | 5.35   |
| 9.250  | 9.92  | 10.26 | 10.61 | 10.46  | 10.13  | 9.87   | 9.98   | 10.14  | 7.03   | 7.55   | 7.93   | 8.27   |
| 7.750  | 8.59  | 9.67  | 10.85 | 11.44  | 11.91  | 11.93  | 11.56  | 11.38  | 11.45  | 11.63  | 8.51   | 9.36   |
| 6.250  | 12.24 | 12.15 | 8.11  | 8.72   | 9.84   | 10.88  | 11.45  | 11.77  | 11.91  | 11.76  | 11.77  | 11.93  |
| 4.750  | 14.83 | 15.20 | 15.11 | 14.79  | 7.84   | 8.69   | 9.32   | 10.50  | 11.51  | 11.85  | 12.14  | 12.18  |
| 3.500  | 14.83 | 16.01 | 15.75 | 15.49  | 15.53  | 15.86  | 8.00   | 8.85   | 9.80   | 11.32  | 13.03  | 14.28  |
| 2.500  | 8.93  | 11.30 | 14.09 | 15.24  | 14.71  | 14.56  | 14.58  | 14.87  | 7.43   | 8.55   | 9.96   | 12.31  |
| 1.500  | 3.36  | 4.02  | 4.77  | 5.73   | 6.75   | 7.08   | 7.08   | 7.04   | 7.05   | 7.10   | 5.79   | 7.20   |

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardentabel)

|                                                         | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|---------------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 8.75 lx          | 1.77 lx        | 16.0 lx          | 0.20           | 0.11           |

Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [cd/m<sup>2</sup>] (Isoluxlijnen)

Profiel 15

**Rijbaan (M4)**

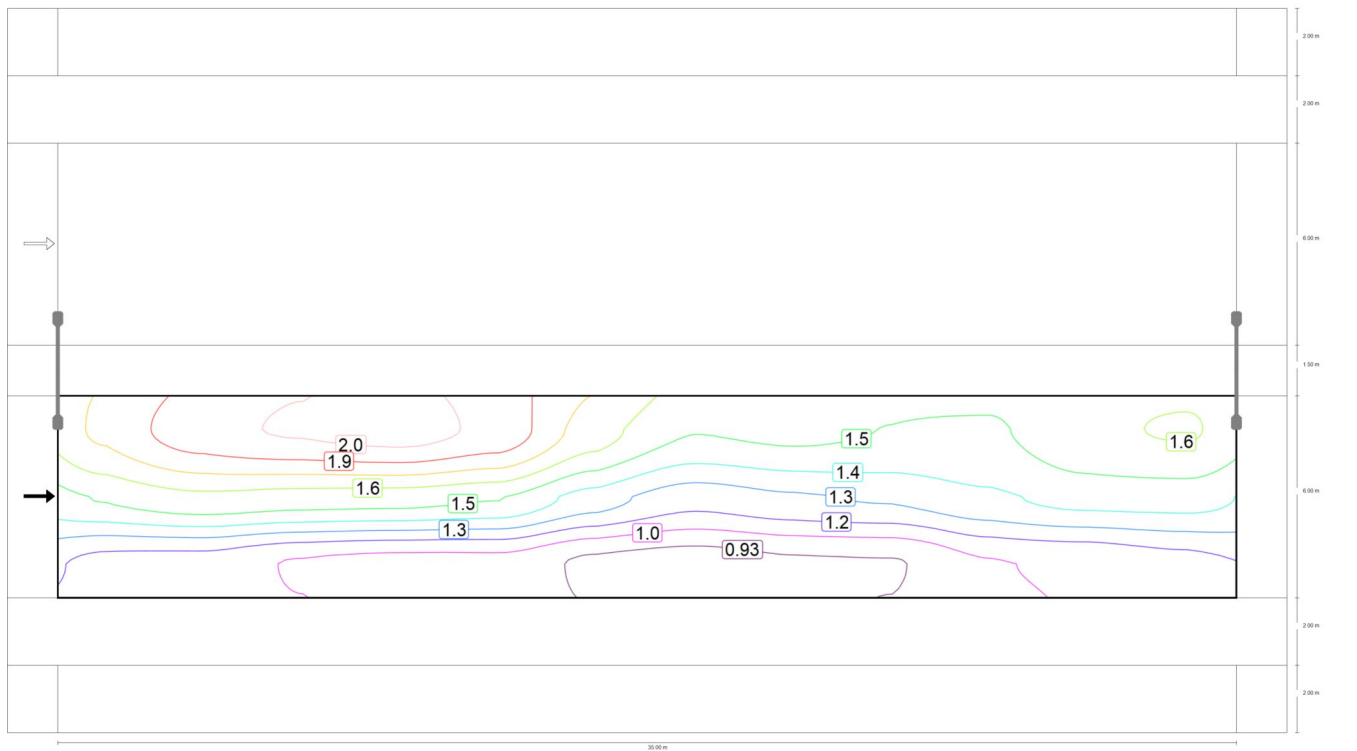
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardenraster)

| m     | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9.000 | 1.59  | 1.73  | 1.79  | 1.83   | 1.75   | 1.52   | 1.36   | 1.39   | 1.36   | 1.35   | 1.43   | 1.47   |
| 7.000 | 1.37  | 1.43  | 1.41  | 1.40   | 1.36   | 1.20   | 1.08   | 1.13   | 1.16   | 1.23   | 1.29   | 1.29   |
| 5.000 | 1.01  | 1.00  | 0.93  | 0.90   | 0.90   | 0.81   | 0.78   | 0.82   | 0.82   | 0.93   | 0.95   | 1.00   |

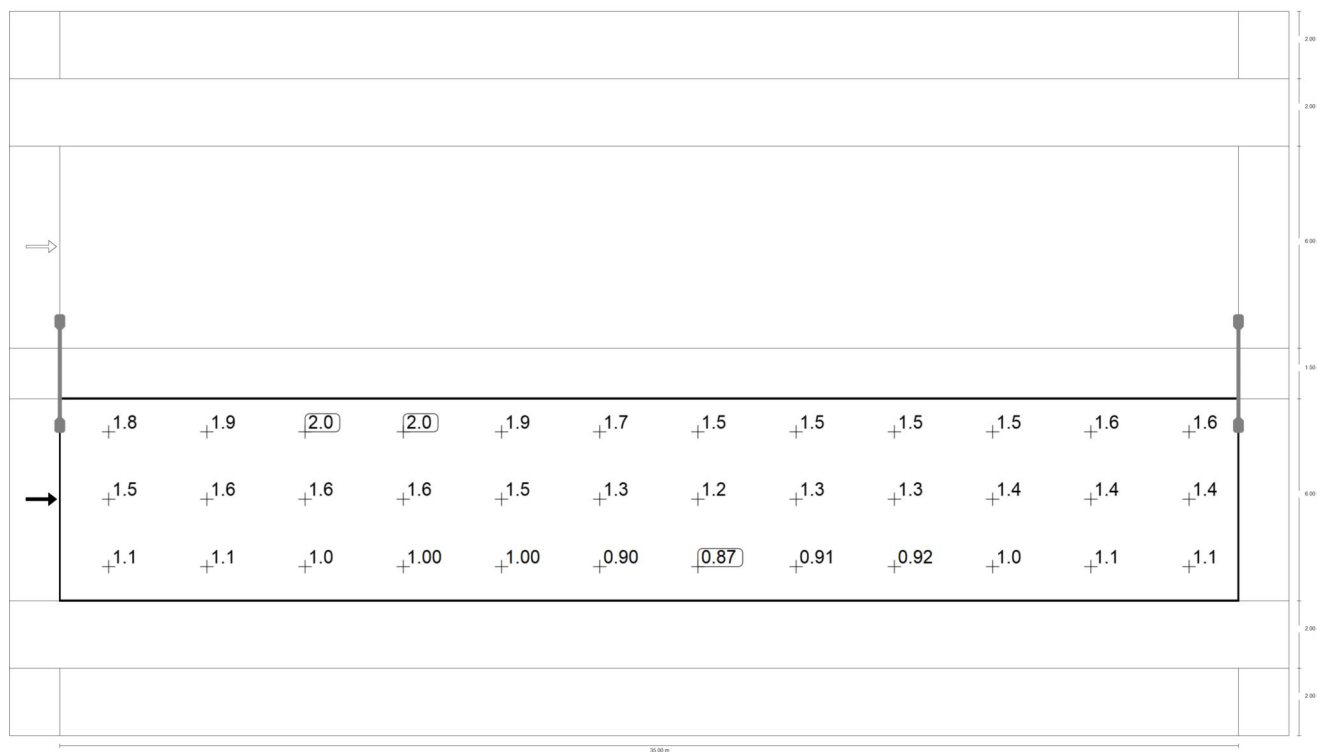
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardentabel)

|                                                            | $L_{\text{gem}}$     | $L_s$                | $L_{\text{max}}$     | $g_1$ | $g_2$ |
|------------------------------------------------------------|----------------------|----------------------|----------------------|-------|-------|
| Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan | 1.24 $\text{cd/m}^2$ | 0.78 $\text{cd/m}^2$ | 1.83 $\text{cd/m}^2$ | 0.63  | 0.43  |

Profiel 15

**Rijbaan (M4)**Waarnemer 1: Luminantie bij nieuwe installatie [ $\text{cd/m}^2$ ] (Isoluxlijnen)

Profiel 15

**Rijbaan (M4)**

Waarnemer 1: Luminantie bij nieuwe installatie [ $\text{cd/m}^2$ ] (Waardenraster)

| m     | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9.000 | 1.77  | 1.93  | 1.99  | 2.03   | 1.94   | 1.68   | 1.51   | 1.54   | 1.51   | 1.50   | 1.59   | 1.64   |
| 7.000 | 1.52  | 1.59  | 1.56  | 1.56   | 1.51   | 1.34   | 1.20   | 1.25   | 1.29   | 1.37   | 1.43   | 1.44   |
| 5.000 | 1.12  | 1.11  | 1.03  | 1.00   | 1.00   | 0.90   | 0.87   | 0.91   | 0.92   | 1.03   | 1.06   | 1.11   |

Waarnemer 1: Luminantie bij nieuwe installatie [ $\text{cd/m}^2$ ] (Waardentabel)

|                                                | $L_{\text{gem}}$     | $L_s$                | $L_{\text{max}}$     | $g_1$ | $g_2$ |
|------------------------------------------------|----------------------|----------------------|----------------------|-------|-------|
| Waarnemer 1: Luminantie bij nieuwe installatie | 1.38 $\text{cd/m}^2$ | 0.87 $\text{cd/m}^2$ | 2.03 $\text{cd/m}^2$ | 0.63  | 0.43  |

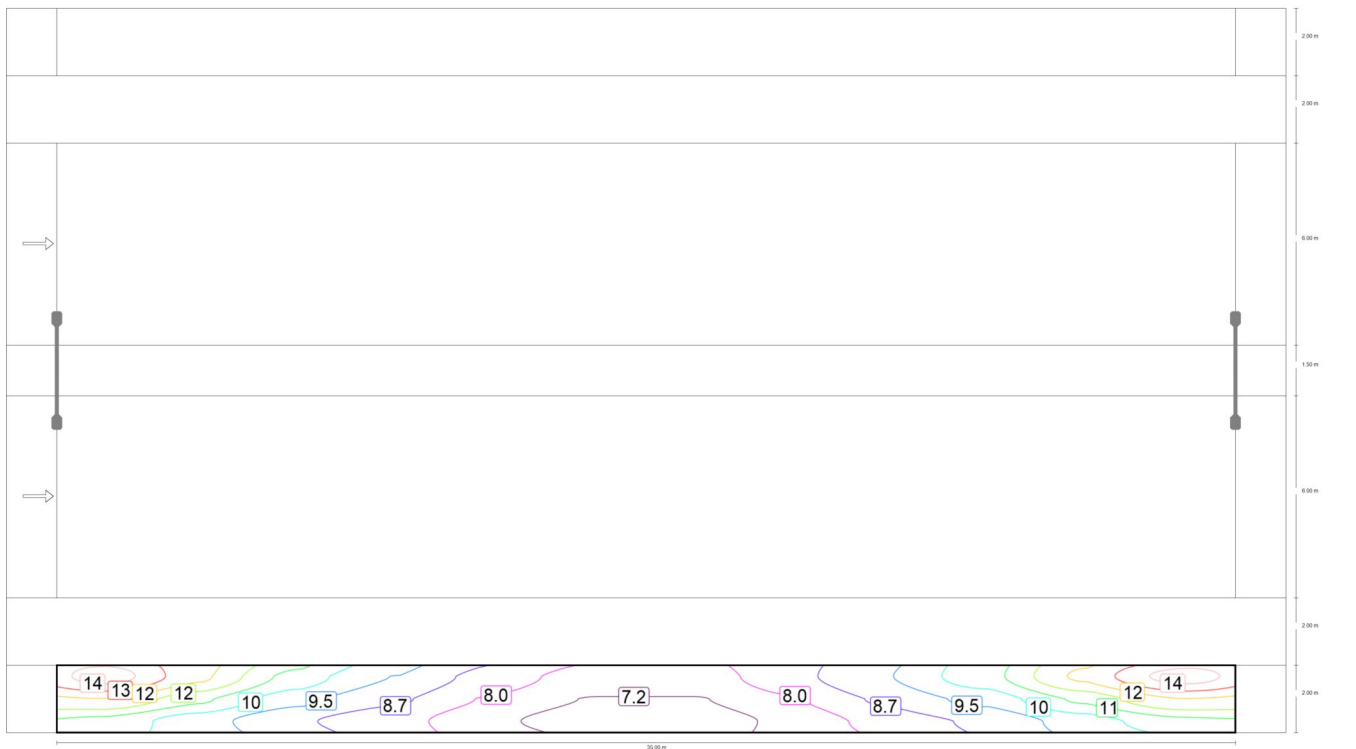
Profiel 15

**Voetpad 8 (P5)**

Resultaten voor waarderingsveld

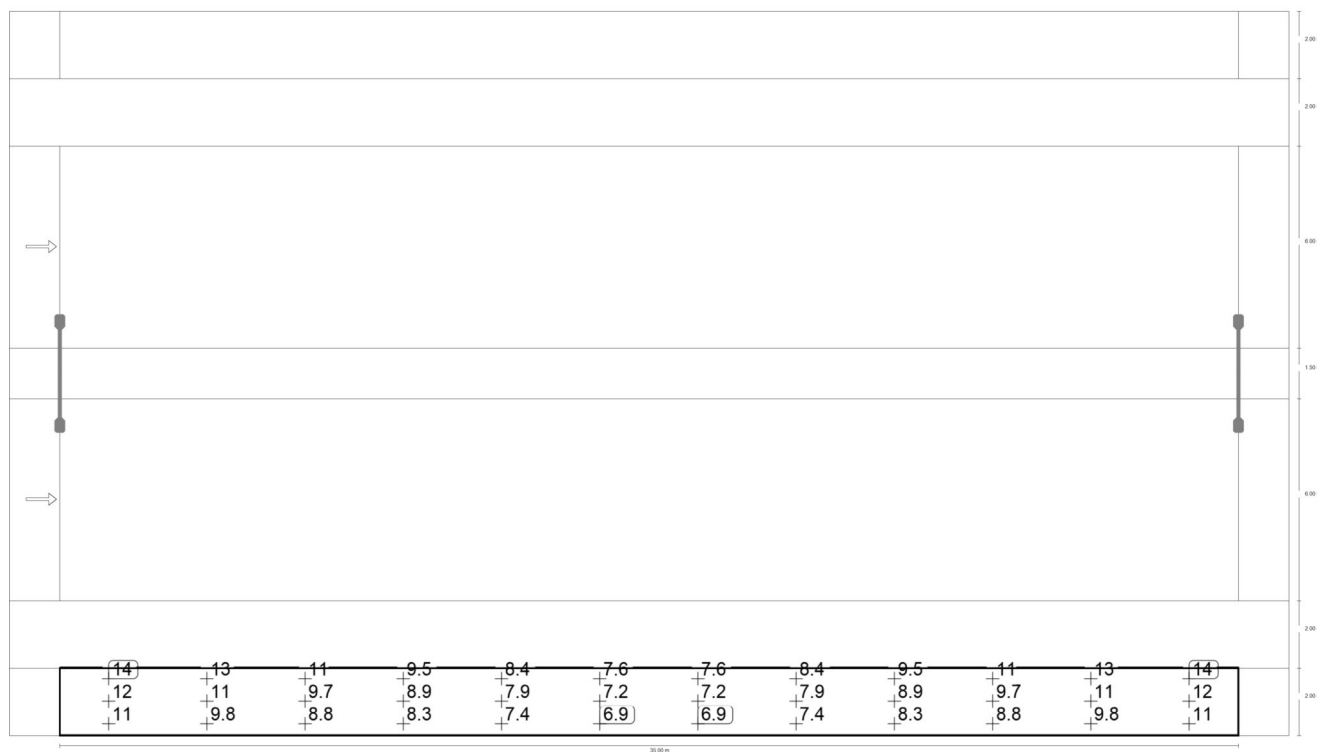
|                | Grootte          | Berekend | Moet                   | Check |
|----------------|------------------|----------|------------------------|-------|
| Voetpad 8 (P5) | $E_{\text{gem}}$ | 9.57 lx  | $\geq 3.00 \text{ lx}$ | ✓     |
|                | $E_s$            | 6.85 lx  | $\geq 0.60 \text{ lx}$ | ✓     |
|                | $U_h$            | 0.72     | $\geq 0.20$            | ✓     |
|                | $E_v (R)$        | 2.08 lx  | $\geq 0.50 \text{ lx}$ | ✓     |
|                | $E_v (S)^{(1)}$  | 1.73 lx  | –                      |       |

(1) Informatief, geen deel van de waardering



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)

Profiel 15

**Voetpad 8 (P5)**

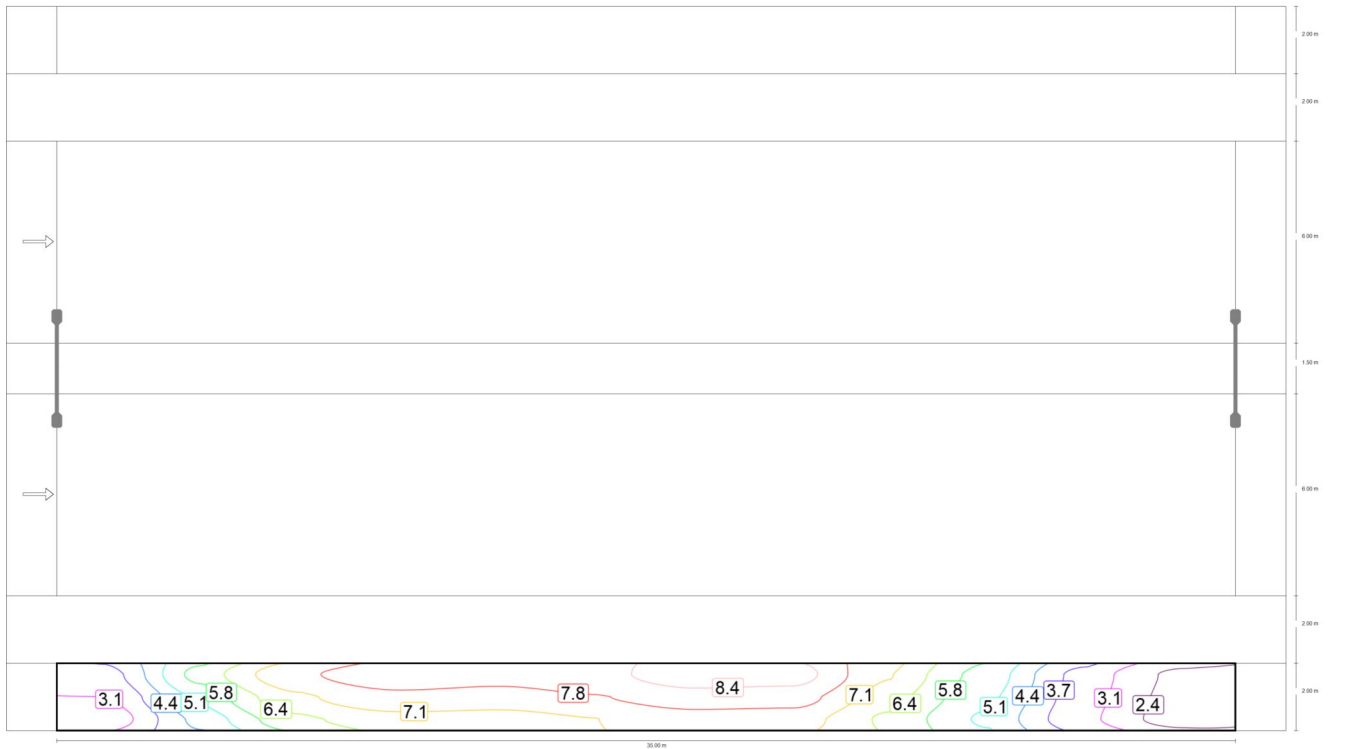
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

| m     | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.667 | 14.36 | 12.66 | 10.69 | 9.45   | 8.44   | 7.61   | 7.61   | 8.44   | 9.45   | 10.69  | 12.66  | 14.36  |
| 1.000 | 12.47 | 11.14 | 9.72  | 8.87   | 7.88   | 7.19   | 7.19   | 7.88   | 8.87   | 9.72   | 11.14  | 12.47  |
| 0.333 | 10.72 | 9.82  | 8.85  | 8.26   | 7.39   | 6.85   | 6.85   | 7.39   | 8.26   | 8.85   | 9.82   | 10.72  |

Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

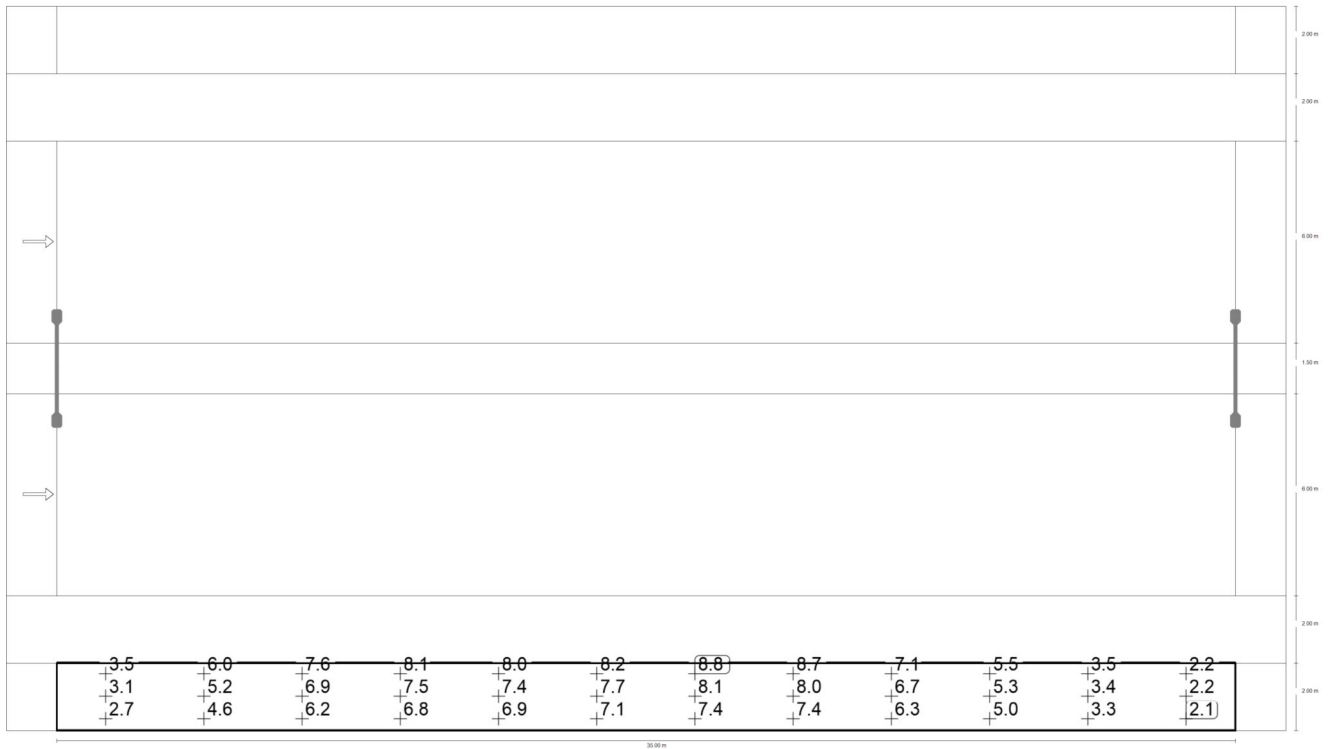
|                                                  | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|--------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde horizontale verlichtingssterkte | 9.57 lx          | 6.85 lx | 14.4 lx          | 0.72  | 0.48  |

Profiel 15

**Voetpad 8 (P5)**

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Isoluxlijnen)

Profiel 15

**Voetpad 8 (P5)**

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardenraster)

| m      | 1.458 | 4.375 | 7.292 | 10.208 | 13.125 | 16.042 | 18.958 | 21.875 | 24.792 | 27.708 | 30.625 | 33.542 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4.500  | 3.64  | 3.69  | 3.64  | 1.73   | 1.84   | 1.98   | 2.08   | 2.16   | 2.25   | 2.27   | 2.25   | 2.11   |
| 3.500  | 4.99  | 5.27  | 5.54  | 5.65   | 5.78   | 5.78   | 2.56   | 2.84   | 3.09   | 3.28   | 3.41   | 3.52   |
| 2.500  | 4.11  | 4.97  | 5.72  | 6.32   | 6.73   | 7.12   | 7.55   | 7.93   | 8.21   | 3.49   | 4.02   | 4.54   |
| 1.667  | 9.67  | 10.85 | 11.33 | 4.51   | 5.42   | 6.52   | 7.38   | 8.04   | 8.69   | 9.36   | 9.92   | 10.19  |
| 1.000  | 7.08  | 7.70  | 8.23  | 8.72   | 9.84   | 10.74  | 4.65   | 5.60   | 6.59   | 7.44   | 8.12   | 8.76   |
| 0.333  | 4.34  | 5.31  | 6.24  | 6.87   | 7.41   | 8.02   | 8.69   | 9.32   | 10.23  | 4.40   | 5.35   | 6.25   |
| -0.500 | 8.55  | 9.96  | 11.83 | 4.07   | 5.06   | 5.99   | 6.82   | 7.54   | 8.15   | 8.85   | 9.80   | 11.01  |
| -1.500 | 4.59  | 5.22  | 6.00  | 7.20   | 8.93   | 10.82  | 3.53   | 4.47   | 5.40   | 6.23   | 6.94   | 7.61   |
| -2.500 | 1.78  | 2.08  | 2.38  | 2.72   | 3.08   | 3.47   | 4.02   | 4.77   | 5.53   | 2.65   | 3.24   | 3.93   |

Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardentabel)

|                                                         | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|---------------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 5.96 lx          | 1.73 lx        | 11.8 lx          | 0.29           | 0.15           |