



**Den Haag profiel 1**

## Opmerkingen vooraf

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## Profiel 1 · Alternatief 1

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## Beschrijving

## Armaturenlijst

 $\Phi_{\text{totaal}}$ 

30545 lm

 $P_{\text{totaal}}$ 

224.0 W

Lichtrendement

136.4 lm/W

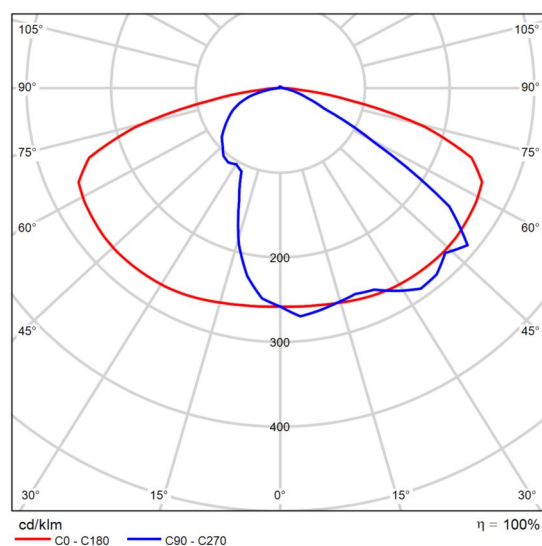
| Stuk | Fabrikant            | Artikelnr. | Artikelnaam                         | P      | $\Phi$  | Lichtrendement |
|------|----------------------|------------|-------------------------------------|--------|---------|----------------|
| 5    | LIGHTRONIC<br>S B.V. |            | BRISA-PA08-64LED-3000K-7290LM-44.8W | 44.8 W | 6109 lm | 136.4 lm/W     |

## Productgegevensblad

LIGHTRONICS B.V. - BRISA-PA08-64LED-3000K-7290LM-44.8W



|                          |            |
|--------------------------|------------|
| P                        | 44.8 W     |
| $\Phi_{\text{Lamp}}$     | 6109 lm    |
| $\Phi_{\text{Armatuur}}$ | 6109 lm    |
| $\eta$                   | 100.00 %   |
| Lichtrendement           | 136.4 lm/W |
| CCT                      | 3000 K     |
| CRI                      | 70         |



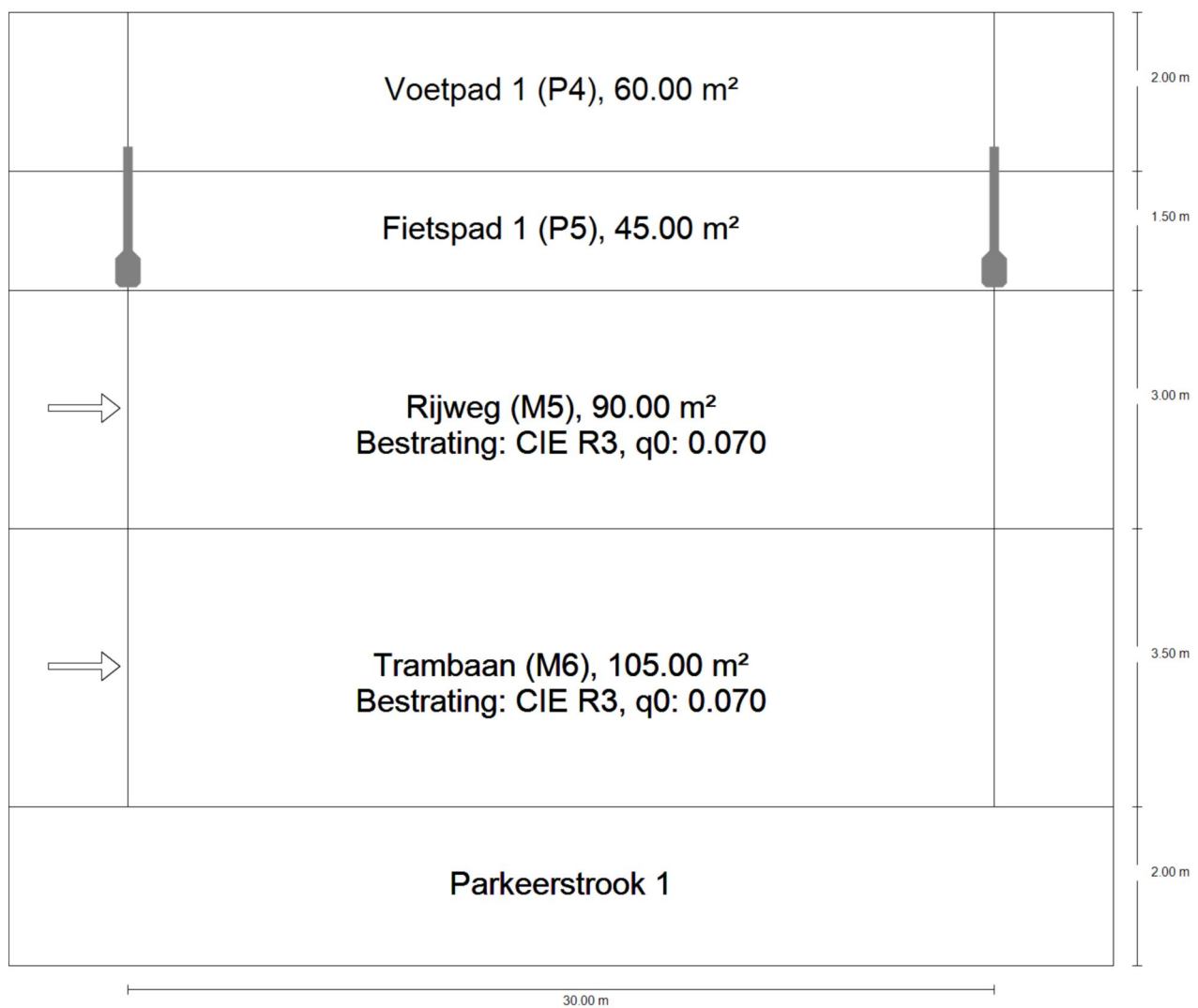
Polaire LVK



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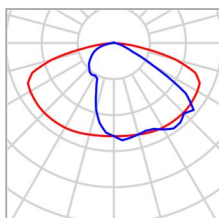
## Beschrijving

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**Samenvatting (tot ROVL-2011)**

## Profiel 1

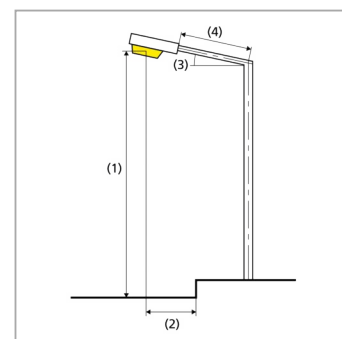
## Samenvatting (tot ROVL-2011)



|             |                                     |                          |          |
|-------------|-------------------------------------|--------------------------|----------|
| Fabrikant   | LIGHTRONICS B.V.                    | P                        | 44.8 W   |
| Artikelnaam | BRISA-PA08-64LED-3000K-7290LM-44.8W | $\Phi_{\text{Lamp}}$     | 6109 lm  |
|             |                                     | $\Phi_{\text{Armatuur}}$ | 6109 lm  |
| Uitrusting  | 64x LED                             | $\eta$                   | 100.00 % |

## BRISA-PA08-64LED-3000K-7290LM-44.8W (enkelzijdig boven)

|                                                                                                                     |                                                        |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Mastafstand                                                                                                         | 30.000 m                                               |
| (1) Lichtpunthoogte                                                                                                 | 8.000 m                                                |
| (2) Vooruitspringing lichtpunt                                                                                      | -0.301 m                                               |
| (3) Armhoek                                                                                                         | 5.0°                                                   |
| (4) Armlengte                                                                                                       | 1.500 m                                                |
| Verbruik                                                                                                            | 1478.4 W/km                                            |
| ULR / ULOR                                                                                                          | 0.01 / 0.01                                            |
| Max. lichtsterktes<br>In iedere richting, gemeten vanaf de neerwaarde<br>verticaal van het geïnstalleerde armatuur. | 70°: 538 cd/klm<br>80°: 294 cd/klm<br>90°: 25.1 cd/klm |
| Lichtsterkteklasse                                                                                                  | –                                                      |
| Verblindingsindexklasse                                                                                             | D.2                                                    |
| MF                                                                                                                  | 0.90                                                   |



## Resultaten voor waarderingsvelden

Voor de installatie werd met een onderhoudsfactor van 0.90 gerekend.

## Profiel 1

## Samenvatting (tot ROVL-2011)

|                 | Grootte                            | Berekend               | Moet                     | Check |
|-----------------|------------------------------------|------------------------|--------------------------|-------|
| Voetpad 1 (P4)  | E <sub>gem</sub>                   | 6.04 lx                | ≥ 5.00 lx                | ✓     |
|                 | E <sub>s</sub>                     | 3.01 lx                | ≥ 1.00 lx                | ✓     |
|                 | U <sub>h</sub>                     | 0.50                   | ≥ 0.20                   | ✓     |
|                 | E <sub>v (R)</sub>                 | 0.66 lx                | ≥ 0.50 lx                | ✓     |
|                 | E <sub>v (S)<sup>(1)</sup></sub>   | 0.45 lx                | –                        |       |
| Fietspad 1 (P5) | E <sub>gem</sub>                   | 10.43 lx               | ≥ 3.00 lx                | ✓     |
|                 | E <sub>s</sub>                     | 4.43 lx                | ≥ 0.60 lx                | ✓     |
|                 | U <sub>h</sub>                     | 0.42                   | ≥ 0.20                   | ✓     |
|                 | E <sub>v (R)</sub>                 | 0.85 lx                | ≥ 0.50 lx                | ✓     |
|                 | E <sub>v (S)<sup>(1)</sup></sub>   | 0.63 lx                | –                        |       |
| Rijweg (M5)     | L <sub>gem</sub>                   | 0.82 cd/m <sup>2</sup> | ≥ 0.50 cd/m <sup>2</sup> | ✓     |
|                 | U <sub>o</sub>                     | 0.68                   | ≥ 0.35                   | ✓     |
|                 | U <sub>l</sub>                     | 0.75                   | ≥ 0.40                   | ✓     |
|                 | TI                                 | 8 %                    | ≤ 15 %                   | ✓     |
|                 | SR <sup>(1)</sup>                  | 0.88                   | –                        |       |
|                 | E <sub>v (R+S)<sup>(1)</sup></sub> | 0.72 lx                | –                        |       |
| Trambaan (M6)   | L <sub>gem</sub>                   | 0.50 cd/m <sup>2</sup> | ≥ 0.30 cd/m <sup>2</sup> | ✓     |
|                 | U <sub>o</sub>                     | 0.76                   | ≥ 0.35                   | ✓     |
|                 | U <sub>l</sub>                     | 0.83                   | ≥ 0.40                   | ✓     |
|                 | TI                                 | 10 %                   | ≤ 20 %                   | ✓     |
|                 | SR                                 | 1.02                   | ≥ 0.50                   | ✓     |
|                 | E <sub>v (R+S)<sup>(1)</sup></sub> | 0.97 lx                | –                        |       |

(1) Informatief, geen deel van de waardering

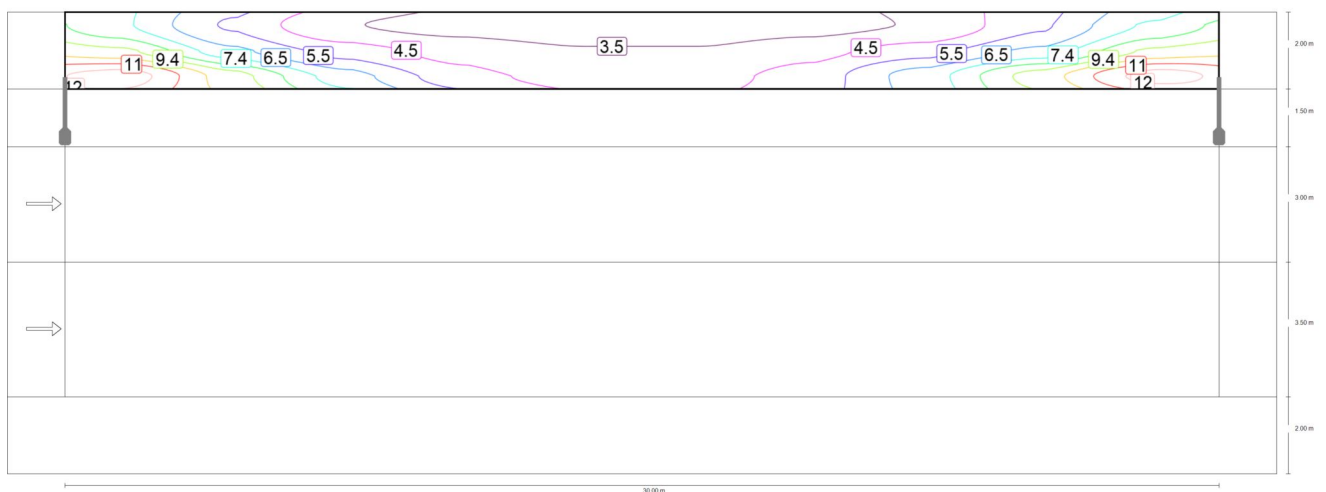
Profiel 1

**Voetpad 1 (P4)**

Resultaten voor waarderingsveld

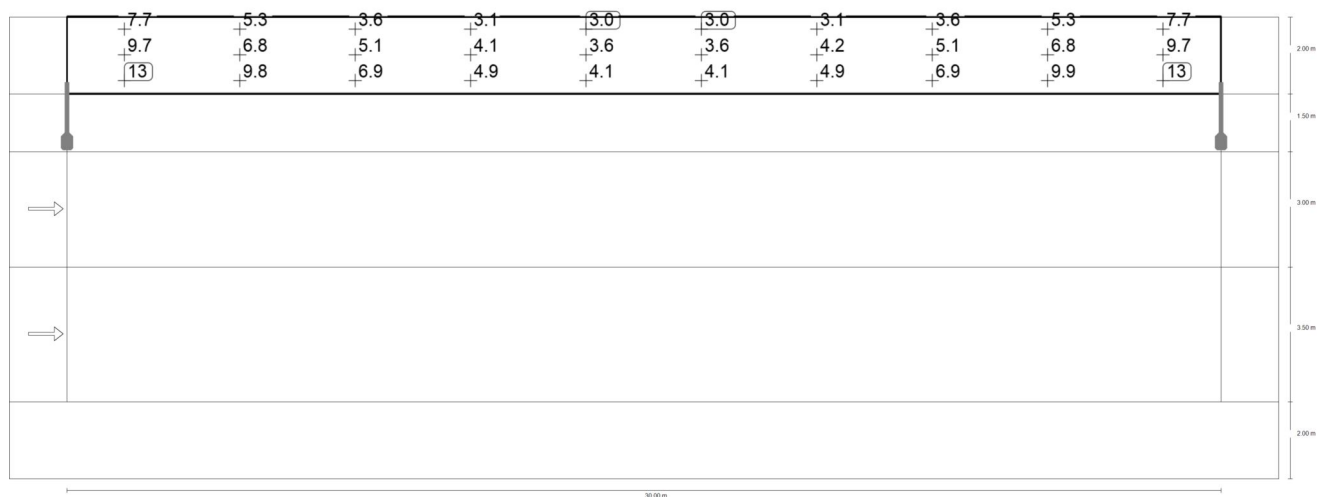
|                | Grootte          | Berekend | Moet                   | Check |
|----------------|------------------|----------|------------------------|-------|
| Voetpad 1 (P4) | $E_{\text{gem}}$ | 6.04 lx  | $\geq 5.00 \text{ lx}$ | ✓     |
|                | $E_s$            | 3.01 lx  | $\geq 1.00 \text{ lx}$ | ✓     |
|                | $U_h$            | 0.50     | $\geq 0.20$            | ✓     |
|                | $E_v (R)$        | 0.66 lx  | $\geq 0.50 \text{ lx}$ | ✓     |
|                | $E_v (S)^{(1)}$  | 0.45 lx  | –                      |       |

(1) Informatief, geen deel van de waardering



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)

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**Voetpad 1 (P4)**

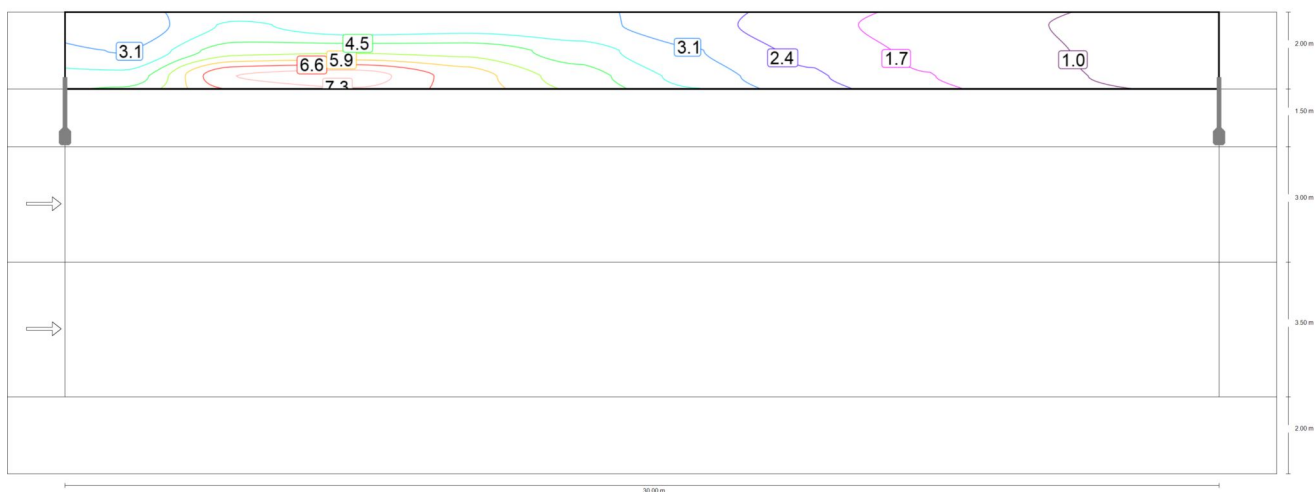
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 11.667 | 7.65  | 5.33  | 3.57  | 3.13   | 3.01   | 3.01   | 3.14   | 3.59   | 5.34   | 7.65   |
| 11.000 | 9.68  | 6.75  | 5.05  | 4.13   | 3.60   | 3.60   | 4.15   | 5.08   | 6.76   | 9.68   |
| 10.333 | 12.86 | 9.85  | 6.92  | 4.92   | 4.08   | 4.08   | 4.95   | 6.94   | 9.86   | 12.86  |

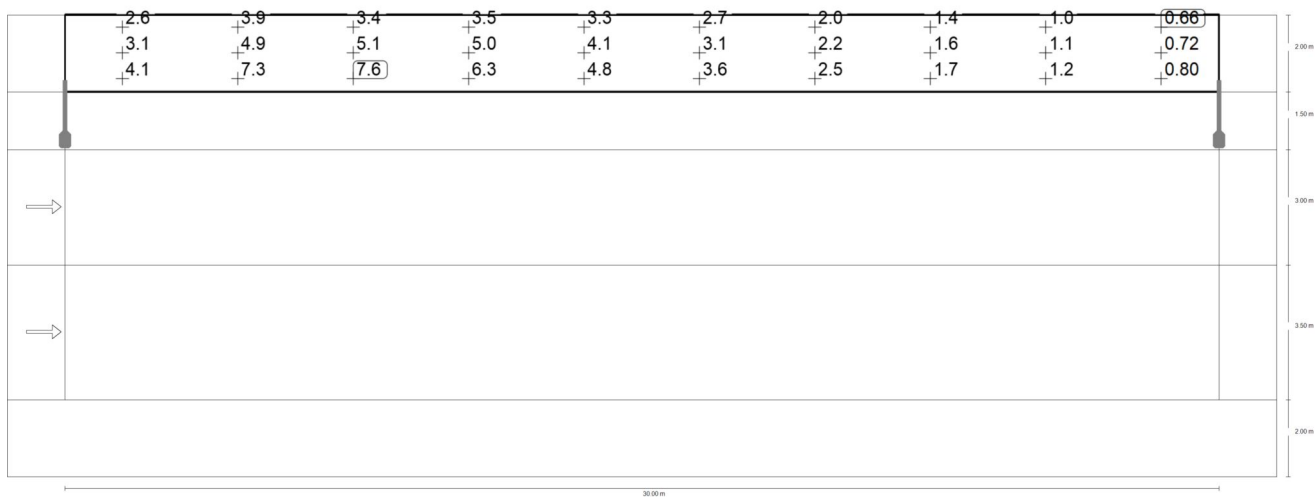
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|--------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde horizontale verlichtingssterkte | 6.04 lx          | 3.01 lx | 12.9 lx          | 0.50  | 0.23  |

Profiel 1

**Voetpad 1 (P4)**

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



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

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 14.500 | 0.55  | 0.99  | 0.94  | 0.87   | 0.80   | 0.72   | 0.66   | 0.63   | 0.54   | 0.45   |
| 13.500 | 0.91  | 0.70  | 1.42  | 1.35   | 1.28   | 1.19   | 1.11   | 1.02   | 0.90   | 0.75   |
| 12.500 | 1.60  | 1.16  | 0.93  | 2.06   | 1.95   | 1.87   | 1.73   | 1.59   | 1.42   | 1.21   |
| 11.667 | 2.68  | 2.04  | 1.48  | 1.08   | 3.04   | 2.87   | 2.74   | 2.51   | 2.24   | 1.97   |
| 11.000 | 4.15  | 3.29  | 2.37  | 1.55   | 1.07   | 4.44   | 4.20   | 3.98   | 3.57   | 3.13   |

Profiel 1

**Voetpad 1 (P4)**

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 10.333 | 6.28  | 4.98  | 3.50  | 2.27   | 1.56   | 1.29   | 6.16   | 5.96   | 5.53   | 4.84   |
| 9.500  | 9.87  | 7.61  | 5.07  | 3.37   | 2.66   | 2.19   | 1.80   | 8.63   | 8.36   | 7.56   |
| 8.500  | 13.66 | 11.25 | 7.27  | 4.93   | 3.90   | 3.39   | 2.76   | 2.20   | 12.13  | 11.58  |
| 7.500  | 7.84  | 7.63  | 6.08  | 4.06   | 3.07   | 2.63   | 2.38   | 1.87   | 1.45   | 14.20  |

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

|                                                         | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|---------------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 3.46 lx          | 0.45 lx | 14.2 lx          | 0.13  | 0.03  |

Profiel 1

**Fietspad 1 (P5)**

Resultaten voor waarderingsveld

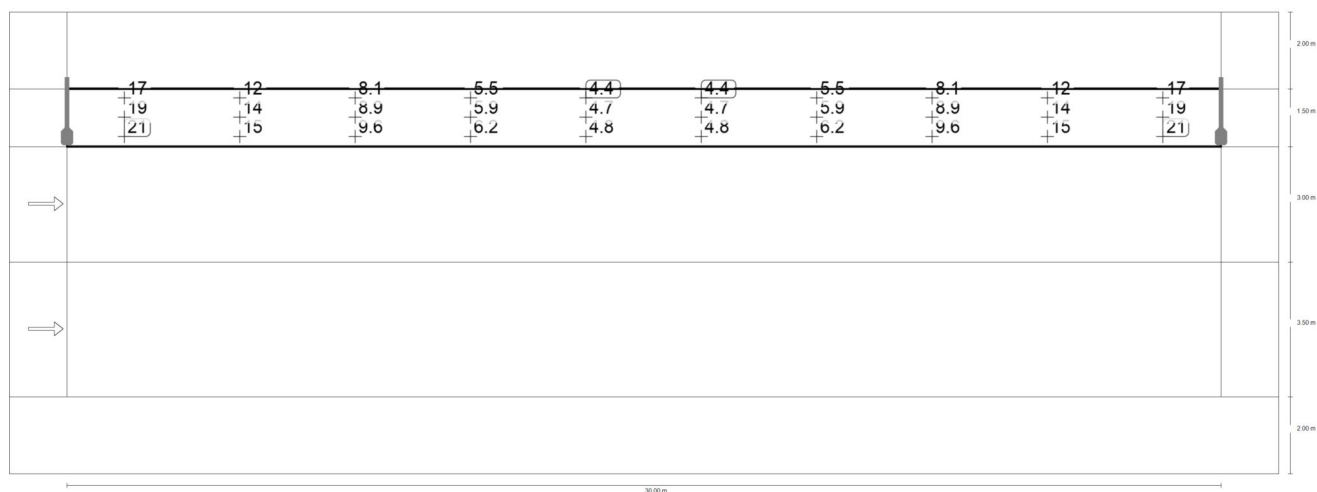
|                 | Grootte          | Berekend | Moet                   | Check |
|-----------------|------------------|----------|------------------------|-------|
| Fietspad 1 (P5) | $E_{\text{gem}}$ | 10.43 lx | $\geq 3.00 \text{ lx}$ | ✓     |
|                 | $E_s$            | 4.43 lx  | $\geq 0.60 \text{ lx}$ | ✓     |
|                 | $U_h$            | 0.42     | $\geq 0.20$            | ✓     |
|                 | $E_v (R)$        | 0.85 lx  | $\geq 0.50 \text{ lx}$ | ✓     |
|                 | $E_v (S)^{(1)}$  | 0.63 lx  | –                      |       |

(1) Informatief, geen deel van de waardering



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)

Profiel 1

**Fietspad 1 (P5)**

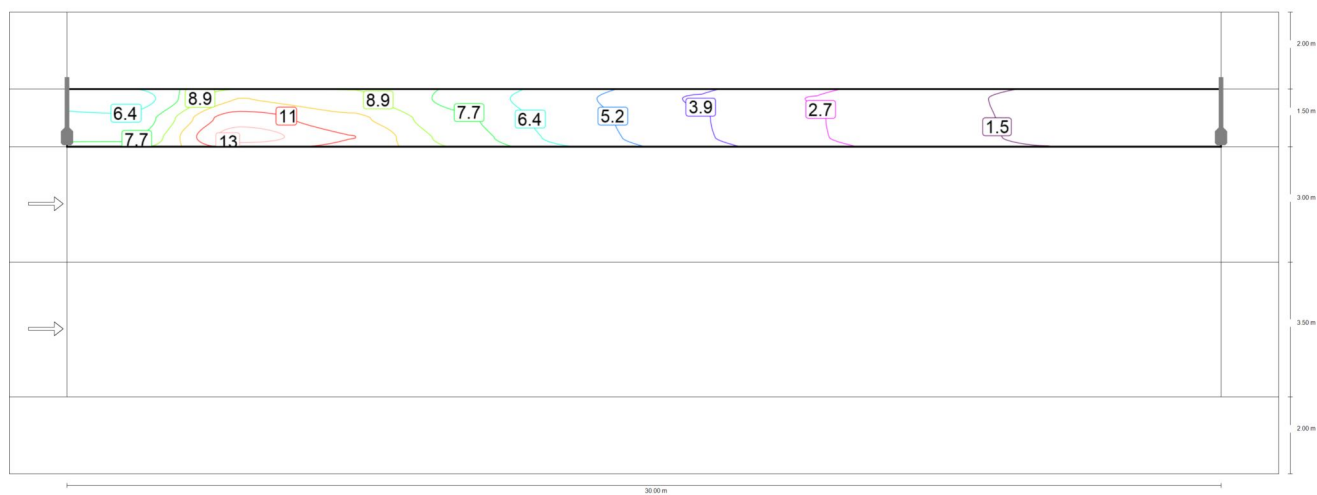
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 9.750 | 16.68 | 12.41 | 8.09  | 5.51   | 4.44   | 4.43   | 5.52   | 8.11   | 12.42  | 16.68  |
| 9.250 | 19.07 | 14.07 | 8.87  | 5.94   | 4.68   | 4.69   | 5.94   | 8.88   | 14.08  | 19.07  |
| 8.750 | 20.85 | 15.25 | 9.55  | 6.23   | 4.84   | 4.83   | 6.21   | 9.56   | 15.23  | 20.85  |

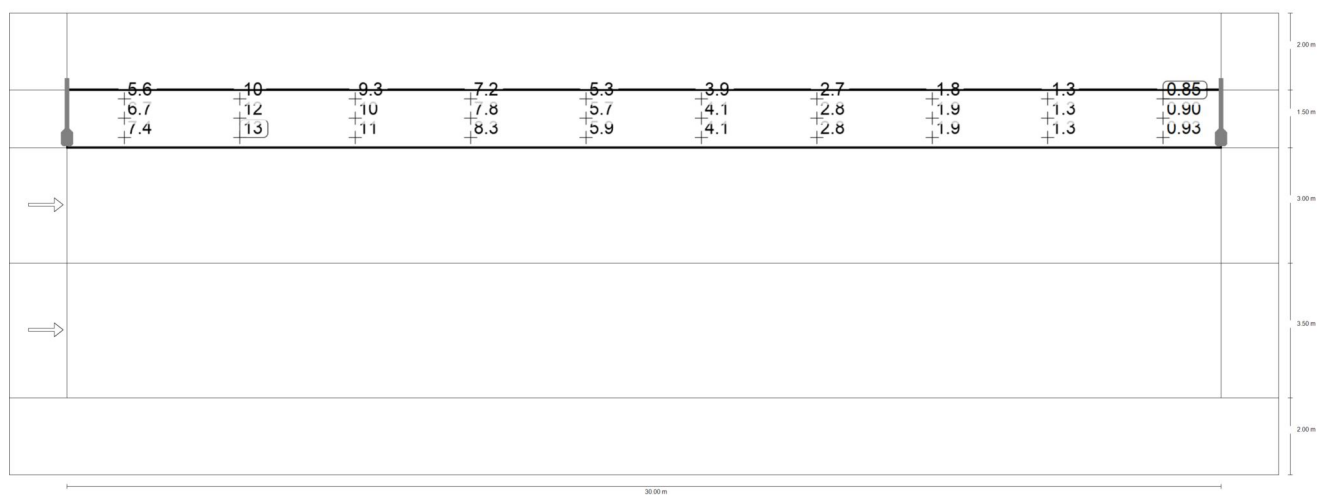
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|--------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde horizontale verlichtingssterkte | 10.4 lx          | 4.43 lx | 20.8 lx          | 0.42  | 0.21  |

Profiel 1

**Fietspad 1 (P5)**

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



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

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 12.500 | 0.90  | 1.04  | 1.01  | 0.97   | 0.93   | 0.90   | 0.85   | 0.77   | 0.67   | 0.63   |
| 11.500 | 1.46  | 1.21  | 1.50  | 1.44   | 1.39   | 1.33   | 1.29   | 1.26   | 1.17   | 1.04   |
| 10.500 | 2.45  | 2.04  | 1.60  | 2.19   | 2.10   | 2.00   | 1.93   | 1.89   | 1.83   | 1.70   |
| 9.750  | 3.88  | 3.45  | 2.79  | 2.04   | 3.24   | 3.13   | 2.96   | 2.83   | 2.79   | 2.68   |
| 9.250  | 5.68  | 5.35  | 4.68  | 3.49   | 2.37   | 4.53   | 4.54   | 4.32   | 4.13   | 4.06   |

Profiel 1

**Fietspad 1 (P5)**

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 8.750 | 8.25  | 7.84  | 7.22  | 5.97   | 3.94   | 2.27   | 6.27   | 6.23   | 6.10   | 5.88   |
| 8.000 | 11.95 | 11.39 | 10.46 | 9.26   | 7.04   | 3.68   | 2.66   | 8.65   | 8.68   | 8.56   |
| 7.000 | 13.78 | 14.12 | 13.24 | 12.07  | 10.16  | 6.55   | 4.05   | 3.39   | 11.64  | 11.98  |
| 6.000 | 6.40  | 7.42  | 7.92  | 7.37   | 6.68   | 5.61   | 3.70   | 2.71   | 2.38   | 12.35  |

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

|                                                         | $E_{\text{gem}}$ | $E_{\text{s}}$ | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|---------------------------------------------------------|------------------|----------------|------------------|-------|-------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 4.67 lx          | 0.63 lx        | 14.1 lx          | 0.13  | 0.04  |

Profiel 1

**Rijweg (M5)**

Resultaten voor waarderingsveld

|             | Grootte                             | Berekend               | Moet                     | Check |
|-------------|-------------------------------------|------------------------|--------------------------|-------|
| Rijweg (M5) | L <sub>gem</sub>                    | 0.82 cd/m <sup>2</sup> | ≥ 0.50 cd/m <sup>2</sup> | ✓     |
|             | U <sub>o</sub>                      | 0.68                   | ≥ 0.35                   | ✓     |
|             | U <sub>l</sub>                      | 0.75                   | ≥ 0.40                   | ✓     |
|             | TI                                  | 8 %                    | ≤ 15 %                   | ✓     |
|             | SR <sup>(1)</sup>                   | 0.88                   | –                        |       |
|             | E <sub>v</sub> (R+S) <sup>(1)</sup> | 0.72 lx                | –                        |       |

Resultaten voor waarnemer

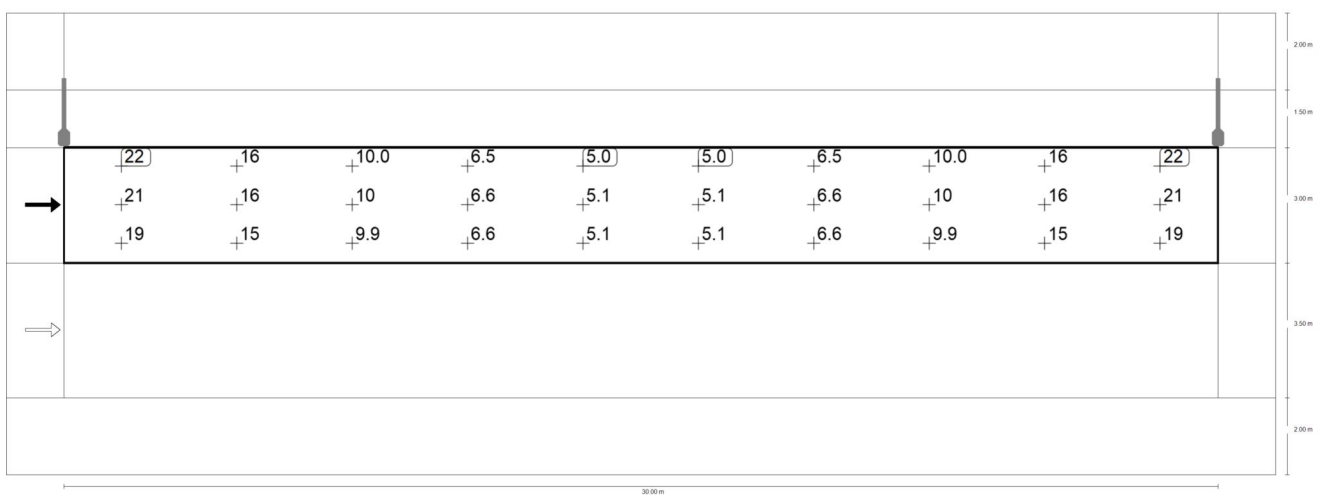
|                                                               | Grootte          | Berekend               | Moet                     | Check |
|---------------------------------------------------------------|------------------|------------------------|--------------------------|-------|
| <b>Waarnemer 1</b><br>Positie:<br>-60.000 m, 7.000 m, 1.500 m | L <sub>gem</sub> | 0.82 cd/m <sup>2</sup> | ≥ 0.50 cd/m <sup>2</sup> | ✓     |
|                                                               | U <sub>o</sub>   | 0.68                   | ≥ 0.35                   | ✓     |
|                                                               | U <sub>l</sub>   | 0.75                   | ≥ 0.40                   | ✓     |
|                                                               | TI               | 8 %                    | ≤ 15 %                   | ✓     |

(1) Informatief, geen deel van de waardering

Profiel 1

**Rijweg (M5)**

Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

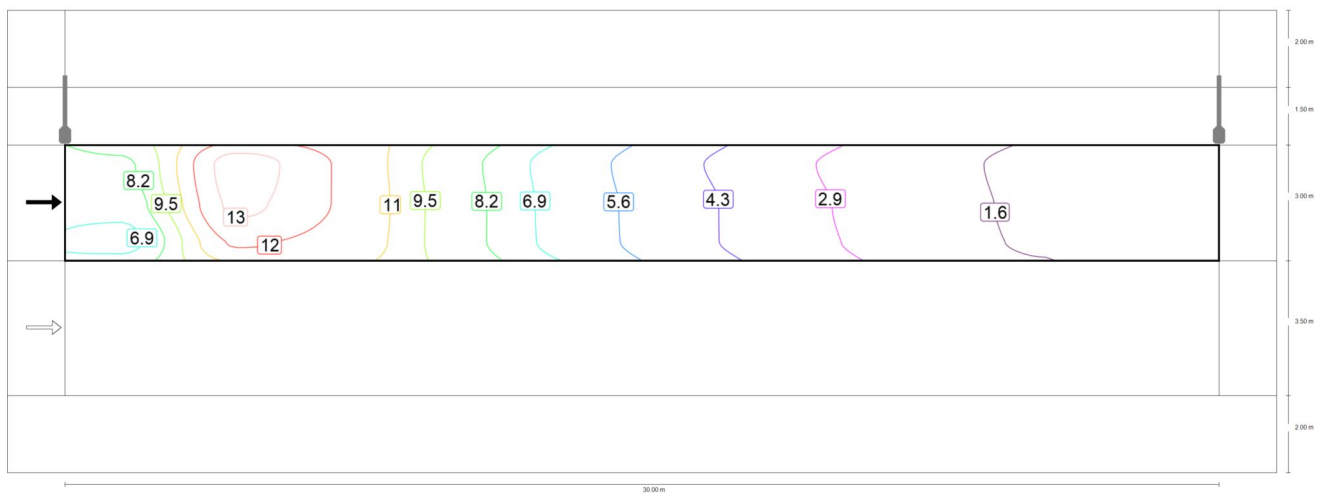
Profiel 1

**Rijweg (M5)**

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 8.000 | 21.82 | 15.99 | 9.99  | 6.47   | 5.02   | 5.03   | 6.49   | 9.99   | 15.97  | 21.80  |
| 7.000 | 21.18 | 15.82 | 10.15 | 6.63   | 5.11   | 5.12   | 6.65   | 10.15  | 15.82  | 21.18  |
| 6.000 | 18.93 | 14.59 | 9.91  | 6.58   | 5.14   | 5.14   | 6.59   | 9.91   | 14.59  | 18.94  |

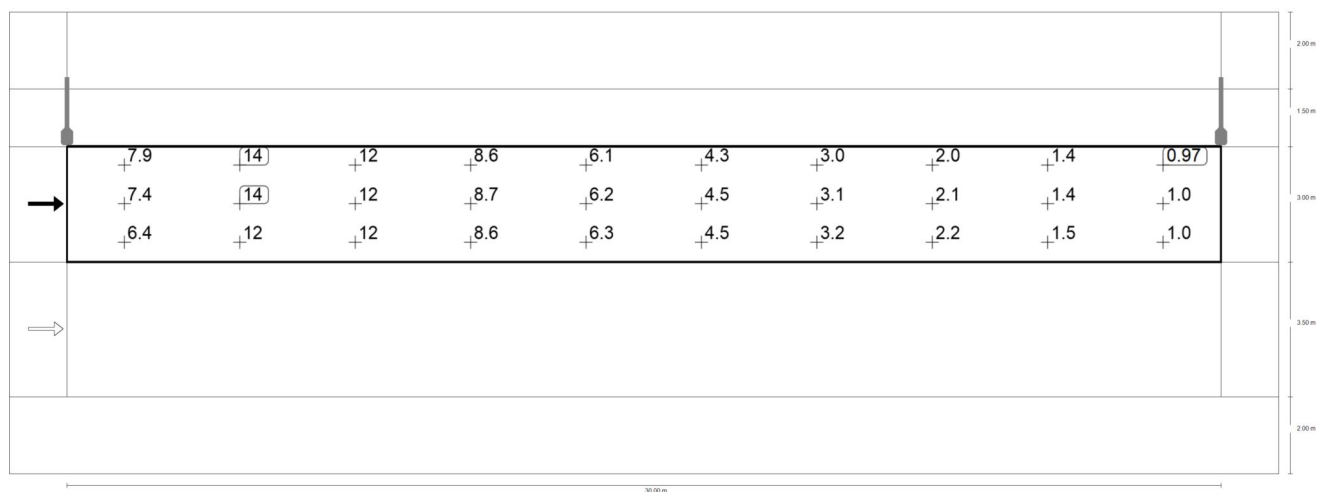
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|--------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde horizontale verlichtingssterkte | 11.6 lx          | 5.02 lx | 21.8 lx          | 0.43  | 0.23  |



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

Profiel 1

**Rijweg (M5)**

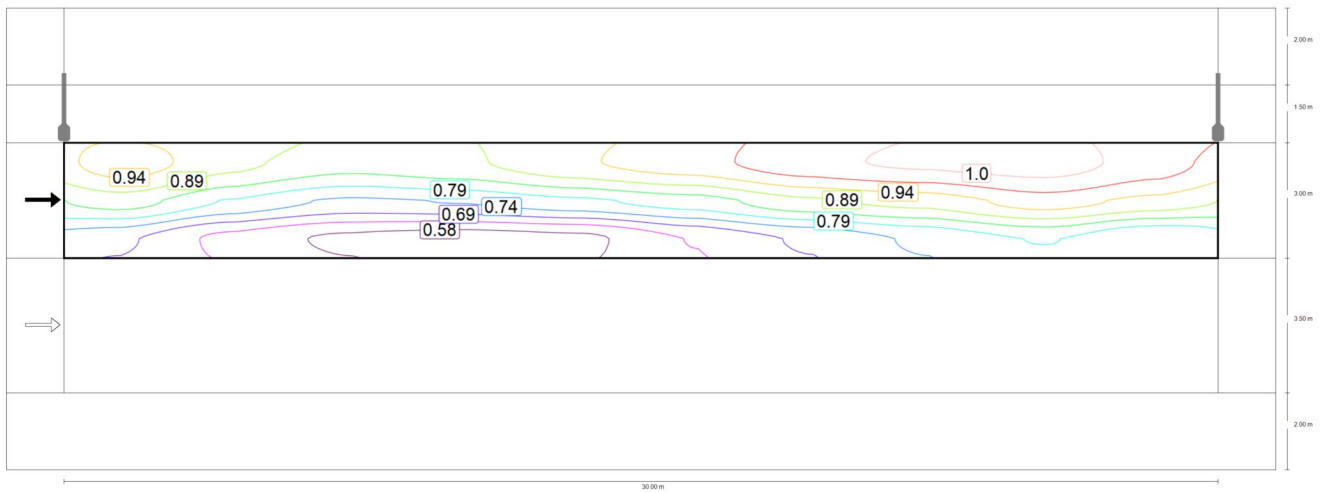
Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardenraster)

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 11.000 | 1.11  | 1.20  | 1.14  | 1.08   | 1.04   | 1.01   | 0.97   | 0.91   | 0.83   | 0.72   |
| 10.000 | 1.79  | 1.59  | 1.71  | 1.61   | 1.55   | 1.50   | 1.44   | 1.39   | 1.31   | 1.23   |
| 9.000  | 2.80  | 2.62  | 2.24  | 2.52   | 2.33   | 2.21   | 2.19   | 2.10   | 2.00   | 1.90   |
| 8.000  | 4.32  | 4.12  | 3.76  | 3.13   | 3.80   | 3.46   | 3.24   | 3.24   | 3.13   | 2.96   |
| 7.000  | 6.23  | 6.10  | 5.81  | 5.15   | 4.15   | 5.66   | 5.15   | 4.71   | 4.53   | 4.54   |
| 6.000  | 8.65  | 8.68  | 8.56  | 8.07   | 6.84   | 4.98   | 7.51   | 7.11   | 6.66   | 6.27   |
| 5.000  | 11.15 | 11.64 | 11.98 | 11.95  | 11.00  | 8.67   | 5.07   | 9.38   | 9.01   | 8.80   |
| 4.000  | 9.45  | 10.85 | 12.35 | 13.78  | 14.12  | 12.70  | 8.98   | 4.93   | 10.08  | 10.45  |
| 3.000  | 4.16  | 4.81  | 5.50  | 6.40   | 7.42   | 7.92   | 7.09   | 4.86   | 3.07   | 8.24   |

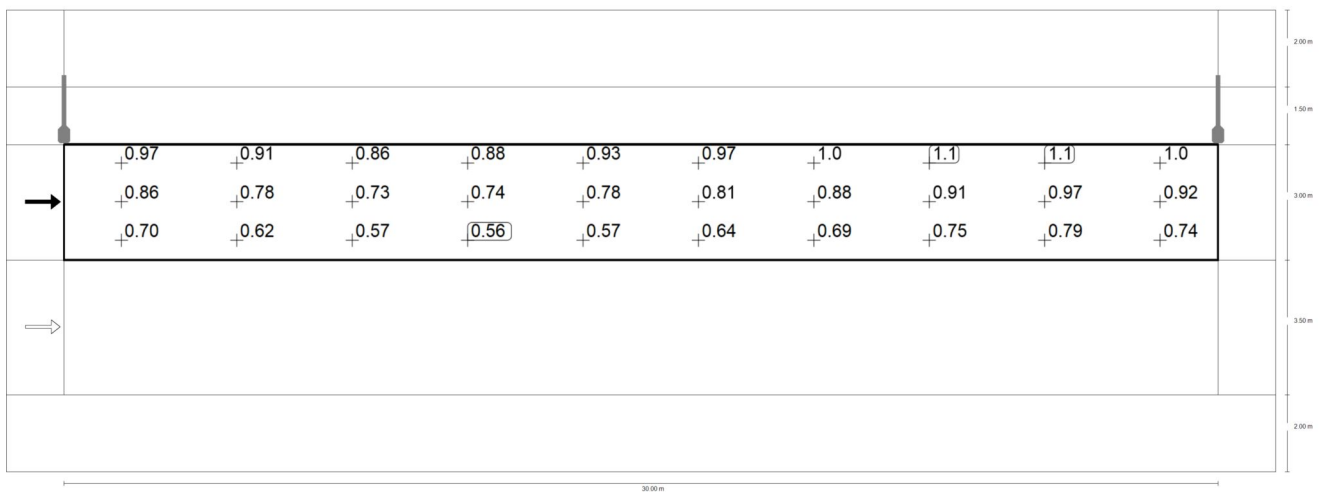
Onderhoudswaarde verticale verlichtingssterkte (westen) [lx] (Waardentabel)

|                                                         | $E_{gem}$ | $E_s$   | $E_{max}$ | $g_1$ | $g_2$ |
|---------------------------------------------------------|-----------|---------|-----------|-------|-------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 5.27 lx   | 0.72 lx | 14.1 lx   | 0.14  | 0.05  |

Profiel 1

**Rijweg (M5)**

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



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

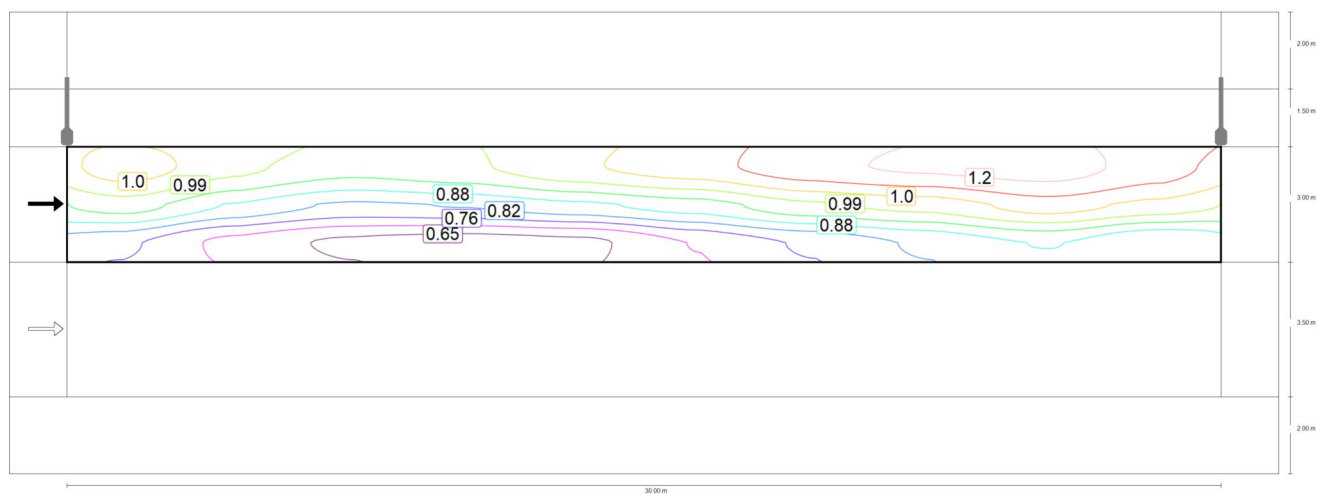
Profiel 1

**Rijweg (M5)**

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 8.000 | 0.97  | 0.91  | 0.86  | 0.88   | 0.93   | 0.97   | 1.03   | 1.05   | 1.07   | 1.02   |
| 7.000 | 0.86  | 0.78  | 0.73  | 0.74   | 0.78   | 0.81   | 0.88   | 0.91   | 0.97   | 0.92   |
| 6.000 | 0.70  | 0.62  | 0.57  | 0.56   | 0.57   | 0.64   | 0.69   | 0.75   | 0.79   | 0.74   |

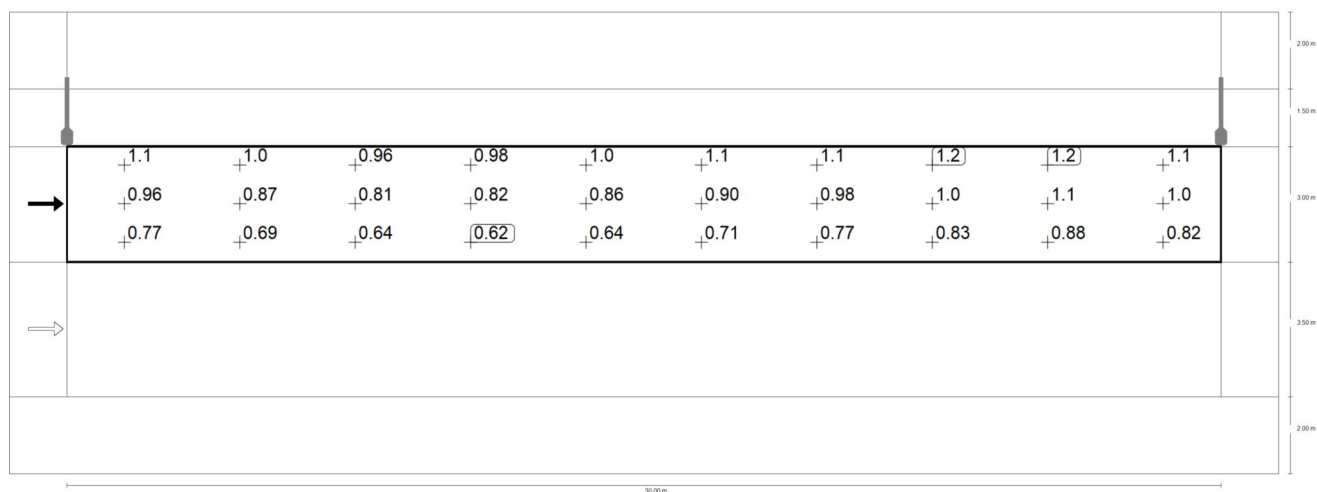
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardentabel)

|                                                            | $L_{\text{gem}}$     | $L_s$                | $L_{\text{max}}$     | $g_1$ | $g_2$ |
|------------------------------------------------------------|----------------------|----------------------|----------------------|-------|-------|
| Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan | 0.82 $\text{cd/m}^2$ | 0.56 $\text{cd/m}^2$ | 1.07 $\text{cd/m}^2$ | 0.68  | 0.52  |



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

Profiel 1

**Rijweg (M5)**

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

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 8.000 | 1.08  | 1.01  | 0.96  | 0.98   | 1.04   | 1.08   | 1.14   | 1.17   | 1.19   | 1.13   |
| 7.000 | 0.96  | 0.87  | 0.81  | 0.82   | 0.86   | 0.90   | 0.98   | 1.01   | 1.07   | 1.03   |
| 6.000 | 0.77  | 0.69  | 0.64  | 0.62   | 0.64   | 0.71   | 0.77   | 0.83   | 0.88   | 0.82   |

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 | 0.92 $\text{cd/m}^2$ | 0.62 $\text{cd/m}^2$ | 1.19 $\text{cd/m}^2$ | 0.68  | 0.52  |

Profiel 1

**Trambaan (M6)**

Resultaten voor waarderingsveld

|               | Grootte                             | Berekend               | Moet                     | Check |
|---------------|-------------------------------------|------------------------|--------------------------|-------|
| Trambaan (M6) | L <sub>gem</sub>                    | 0.50 cd/m <sup>2</sup> | ≥ 0.30 cd/m <sup>2</sup> | ✓     |
|               | U <sub>o</sub>                      | 0.76                   | ≥ 0.35                   | ✓     |
|               | U <sub>l</sub>                      | 0.83                   | ≥ 0.40                   | ✓     |
|               | TI                                  | 10 %                   | ≤ 20 %                   | ✓     |
|               | SR                                  | 1.02                   | ≥ 0.50                   | ✓     |
|               | E <sub>v</sub> (R+S) <sup>(1)</sup> | 0.97 lx                | –                        |       |

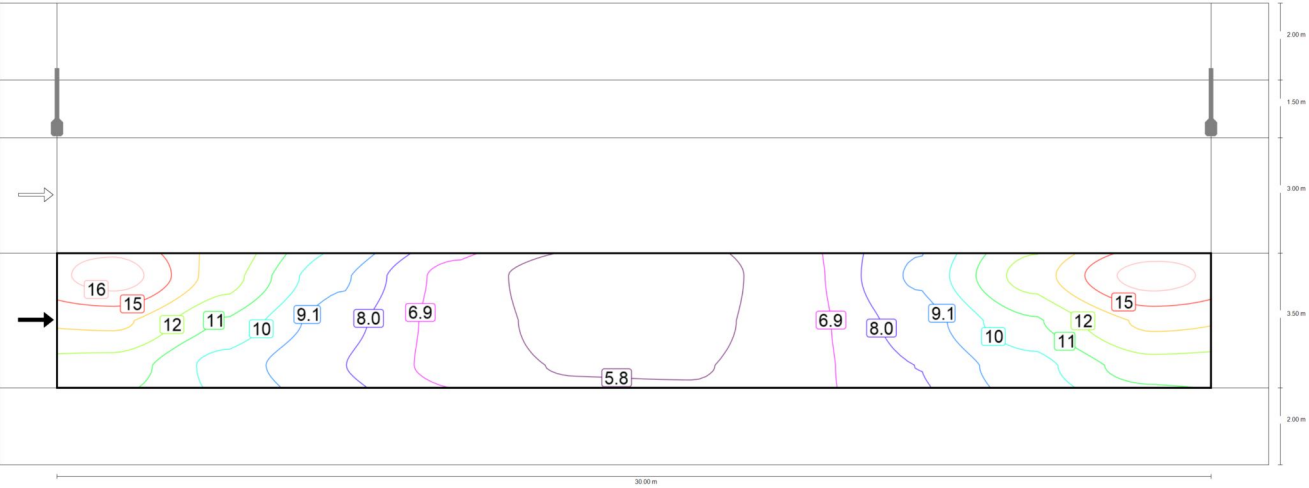
Resultaten voor waarnemer

|                                                               | Grootte          | Berekend               | Moet                     | Check |
|---------------------------------------------------------------|------------------|------------------------|--------------------------|-------|
| <b>Waarnemer 1</b><br>Positie:<br>-60.000 m, 3.750 m, 1.500 m | L <sub>gem</sub> | 0.50 cd/m <sup>2</sup> | ≥ 0.30 cd/m <sup>2</sup> | ✓     |
|                                                               | U <sub>o</sub>   | 0.76                   | ≥ 0.35                   | ✓     |
|                                                               | U <sub>l</sub>   | 0.83                   | ≥ 0.40                   | ✓     |
|                                                               | TI               | 10 %                   | ≤ 20 %                   | ✓     |

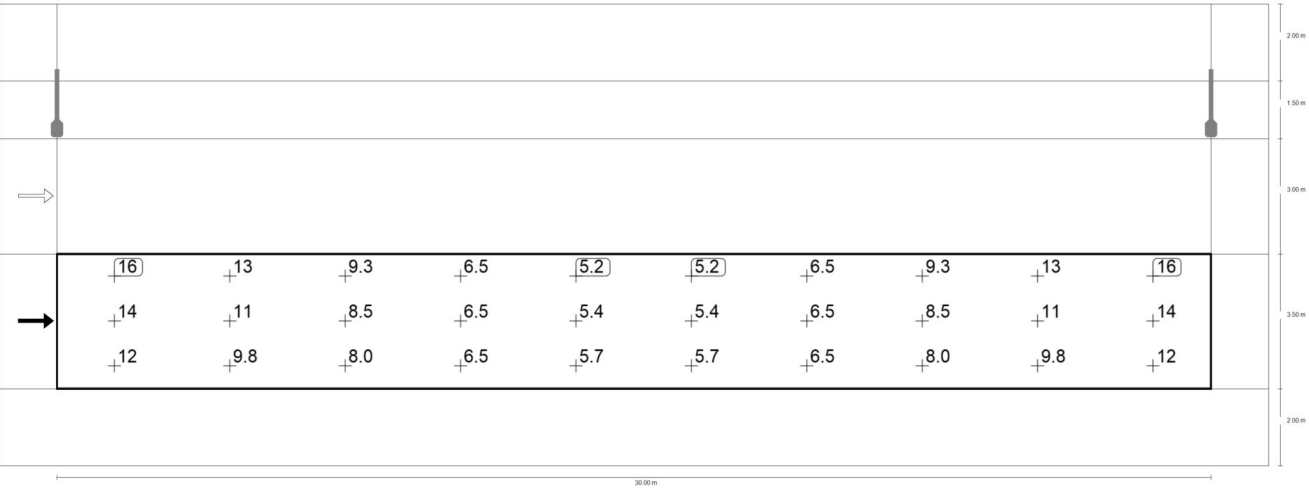
(1) Informatief, geen deel van de waardering

Profiel 1

Trambaan (M6)



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

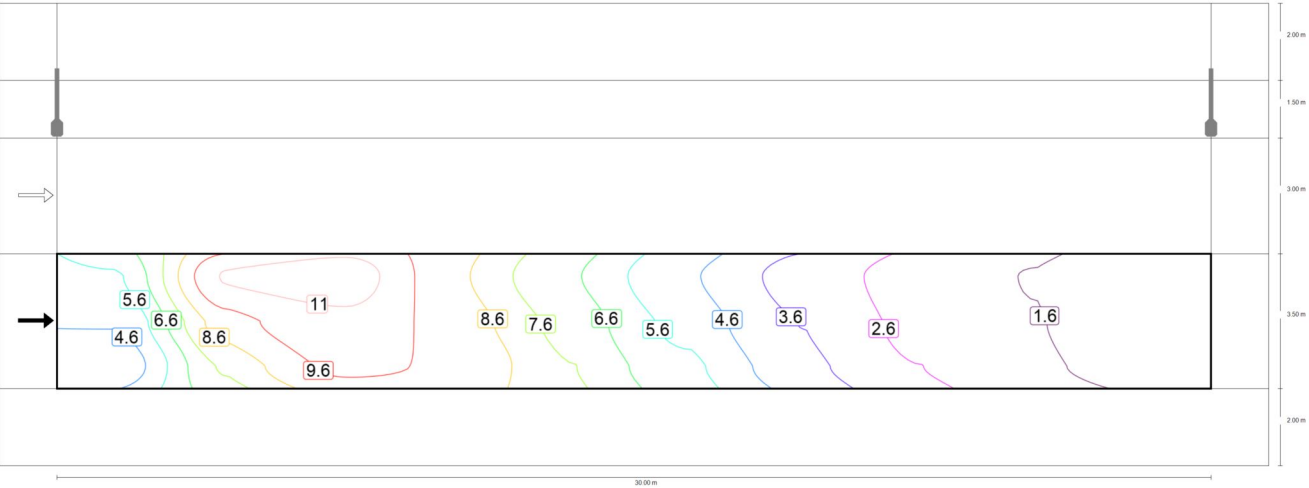
Profiel 1

Trambaan (M6)

|       |       |       |       |        |        |        |        |        |        |        |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
| 4.917 | 16.29 | 12.92 | 9.28  | 6.51   | 5.24   | 5.24   | 6.52   | 9.28   | 12.91  | 16.29  |
| 3.750 | 13.73 | 11.18 | 8.49  | 6.49   | 5.44   | 5.44   | 6.49   | 8.49   | 11.18  | 13.73  |
| 2.583 | 11.93 | 9.81  | 8.02  | 6.52   | 5.70   | 5.70   | 6.52   | 8.02   | 9.81   | 11.93  |

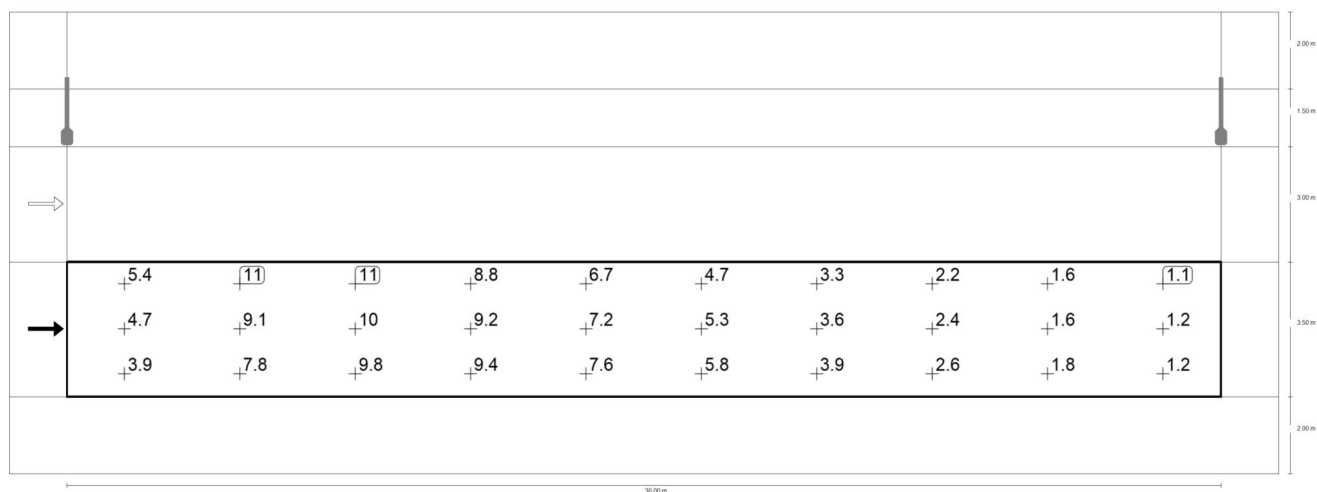
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|--------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde horizontale verlichtingssterkte | 9.17 lx          | 5.24 lx        | 16.3 lx          | 0.57           | 0.32           |



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

Profiel 1

**Trambaan (M6)**

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

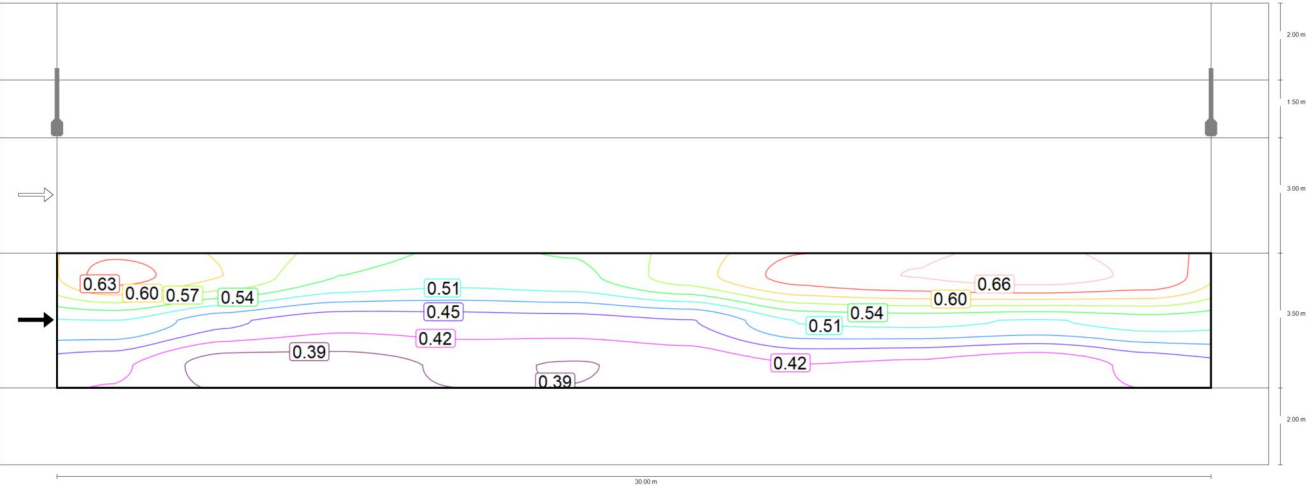
| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 8.000  | 1.39  | 1.52  | 1.41  | 1.31   | 1.23   | 1.15   | 1.09   | 1.04   | 1.01   | 0.97   |
| 7.000  | 2.10  | 2.00  | 2.25  | 2.06   | 1.91   | 1.76   | 1.63   | 1.55   | 1.50   | 1.44   |
| 6.000  | 3.24  | 3.13  | 2.96  | 3.19   | 3.11   | 2.82   | 2.60   | 2.37   | 2.22   | 2.19   |
| 4.917  | 4.73  | 4.53  | 4.54  | 4.32   | 4.37   | 4.47   | 4.35   | 3.93   | 3.57   | 3.25   |
| 3.750  | 7.25  | 6.70  | 6.27  | 6.23   | 6.10   | 6.14   | 5.99   | 6.05   | 5.85   | 5.26   |
| 2.583  | 9.45  | 9.20  | 8.79  | 8.65   | 8.68   | 8.56   | 7.41   | 7.93   | 7.81   | 7.61   |
| 1.500  | 8.95  | 9.82  | 10.33 | 11.10  | 11.64  | 11.98  | 11.95  | 8.28   | 8.79   | 9.23   |
| 0.500  | 5.66  | 6.58  | 7.76  | 9.14   | 10.73  | 12.35  | 13.78  | 14.12  | 7.31   | 7.94   |
| -0.500 | 2.58  | 2.89  | 3.29  | 3.90   | 4.66   | 5.43   | 6.40   | 7.42   | 7.92   | 4.82   |

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

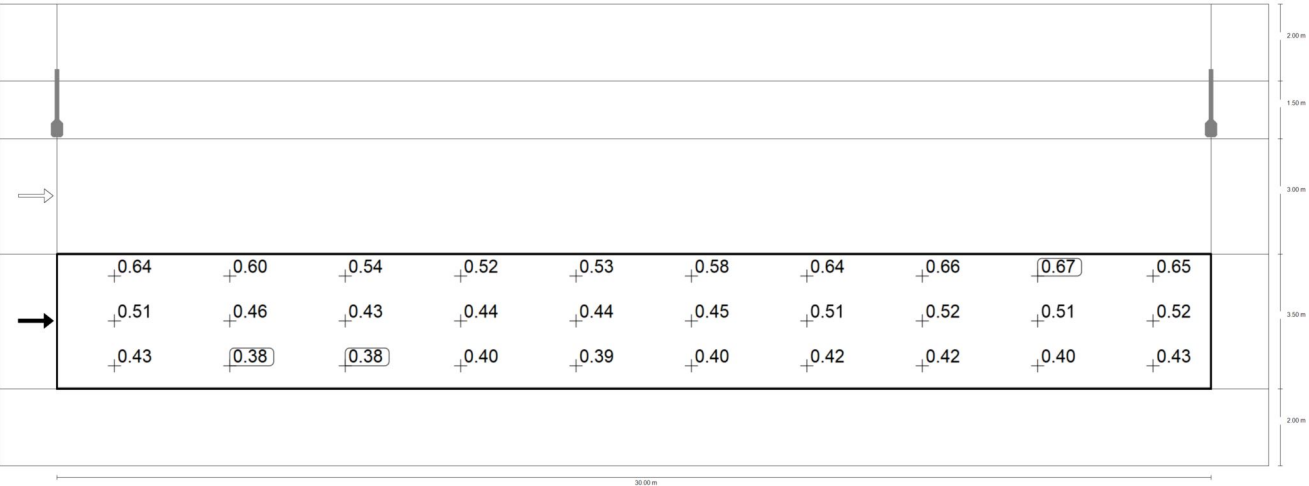
|                                                         | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|---------------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 5.48 lx          | 0.97 lx | 14.1 lx          | 0.18  | 0.07  |

Profiel 1

Trambaan (M6)



Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [cd/m²] (Isoluxlijnen)



Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [cd/m²] (Waardenraster)

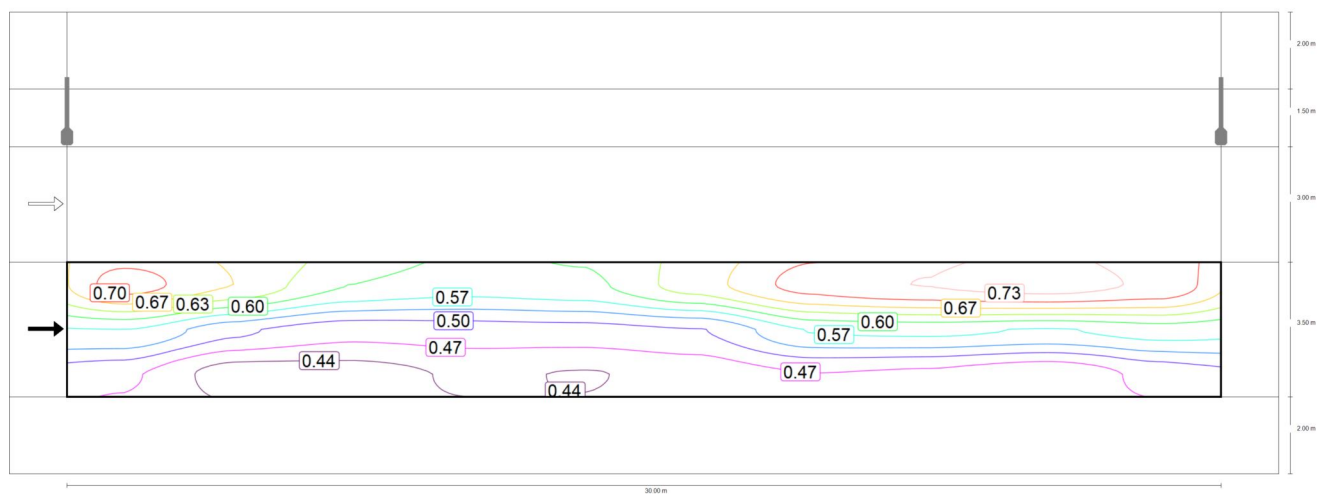
Profiel 1

**Trambaan (M6)**

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 4.917 | 0.64  | 0.60  | 0.54  | 0.52   | 0.53   | 0.58   | 0.64   | 0.66   | 0.67   | 0.65   |
| 3.750 | 0.51  | 0.46  | 0.43  | 0.44   | 0.44   | 0.45   | 0.51   | 0.52   | 0.51   | 0.52   |
| 2.583 | 0.43  | 0.38  | 0.38  | 0.40   | 0.39   | 0.40   | 0.42   | 0.42   | 0.40   | 0.43   |

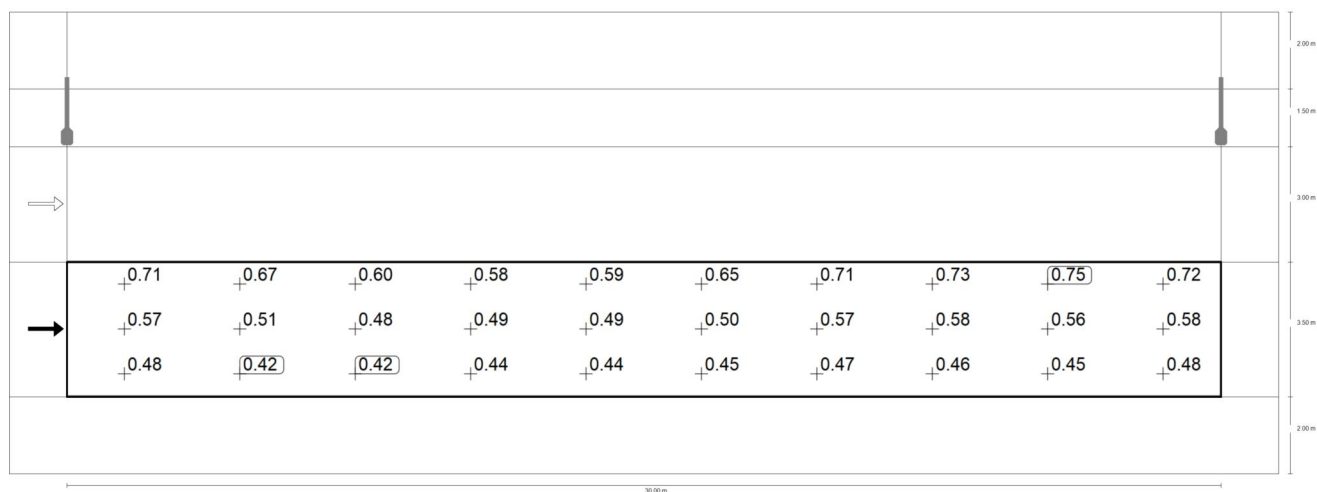
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardentabel)

|                                                            | $L_{\text{gem}}$     | $L_s$                | $L_{\text{max}}$     | $g_1$ | $g_2$ |
|------------------------------------------------------------|----------------------|----------------------|----------------------|-------|-------|
| Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan | 0.50 $\text{cd/m}^2$ | 0.38 $\text{cd/m}^2$ | 0.67 $\text{cd/m}^2$ | 0.76  | 0.56  |



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

Profiel 1

**Trambaan (M6)**

Waarnemer 1: Luminantie bij nieuwe installatie [cd/m²] (Waardenraster)

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 4.917 | 0.71  | 0.67  | 0.60  | 0.58   | 0.59   | 0.65   | 0.71   | 0.73   | 0.75   | 0.72   |
| 3.750 | 0.57  | 0.51  | 0.48  | 0.49   | 0.49   | 0.50   | 0.57   | 0.58   | 0.56   | 0.58   |
| 2.583 | 0.48  | 0.42  | 0.42  | 0.44   | 0.44   | 0.45   | 0.47   | 0.46   | 0.45   | 0.48   |

Waarnemer 1: Luminantie bij nieuwe installatie [cd/m²] (Waardentabel)

|                                                | $L_{\text{gem}}$ | $L_s$      | $L_{\text{max}}$ | $g_1$ | $g_2$ |
|------------------------------------------------|------------------|------------|------------------|-------|-------|
| Waarnemer 1: Luminantie bij nieuwe installatie | 0.55 cd/m²       | 0.42 cd/m² | 0.75 cd/m²       | 0.76  | 0.56  |