



## Den Haag profiel 3

## Opmerkingen vooraf

## Inhoud

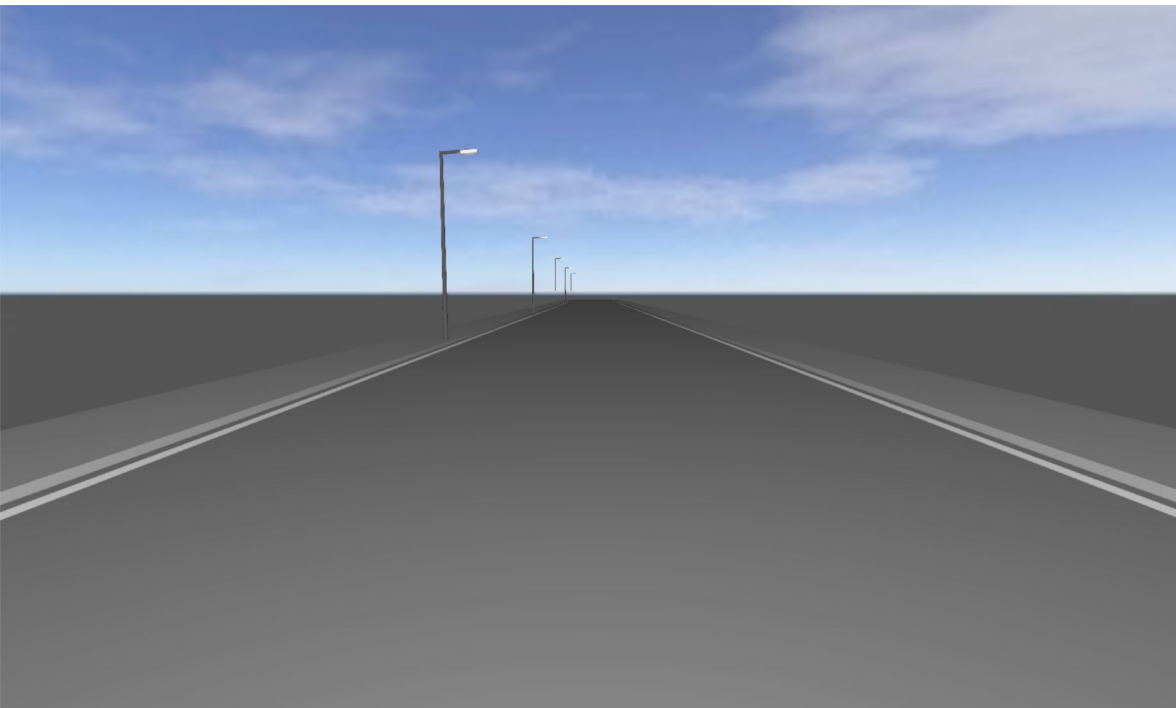
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## Productgegevens

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## Profiel 3 · Alternatief 1

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## Beschrijving

## Armaturenlijst

 $\Phi_{\text{totaal}}$ 

13995 lm

 $P_{\text{totaal}}$ 

98.5 W

Lichtrendement

142.1 lm/W

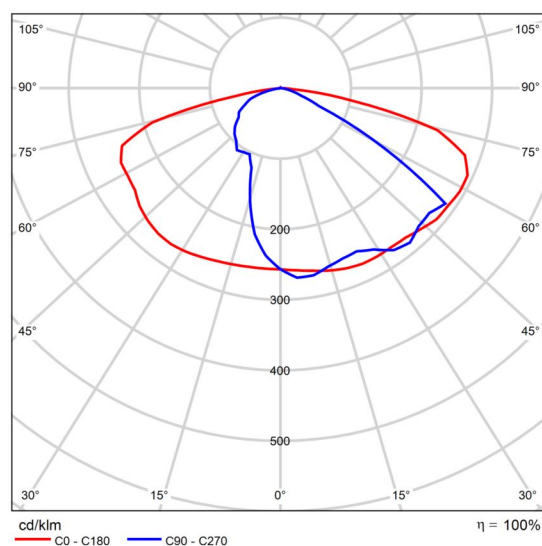
| Stuk | Fabrikant            | Artikelnr. | Artikelnaam                         | P      | $\Phi$  | Lichtrendement |
|------|----------------------|------------|-------------------------------------|--------|---------|----------------|
| 5    | LIGHTRONIC<br>S B.V. |            | BRISA-PA08-32LED-3000K-3240LM-19.7W | 19.7 W | 2799 lm | 142.1 lm/W     |

## Productgegevensblad

LIGHTRONICS B.V. - BRISA-PA08-32LED-3000K-3240LM-19.7W



|                          |            |
|--------------------------|------------|
| P                        | 19.7 W     |
| $\Phi_{\text{Lamp}}$     | 2799 lm    |
| $\Phi_{\text{Armatuur}}$ | 2799 lm    |
| $\eta$                   | 100.00 %   |
| Lichtrendement           | 142.1 lm/W |
| CCT                      | 3000 K     |
| CRI                      | 70         |



Polaire LVK

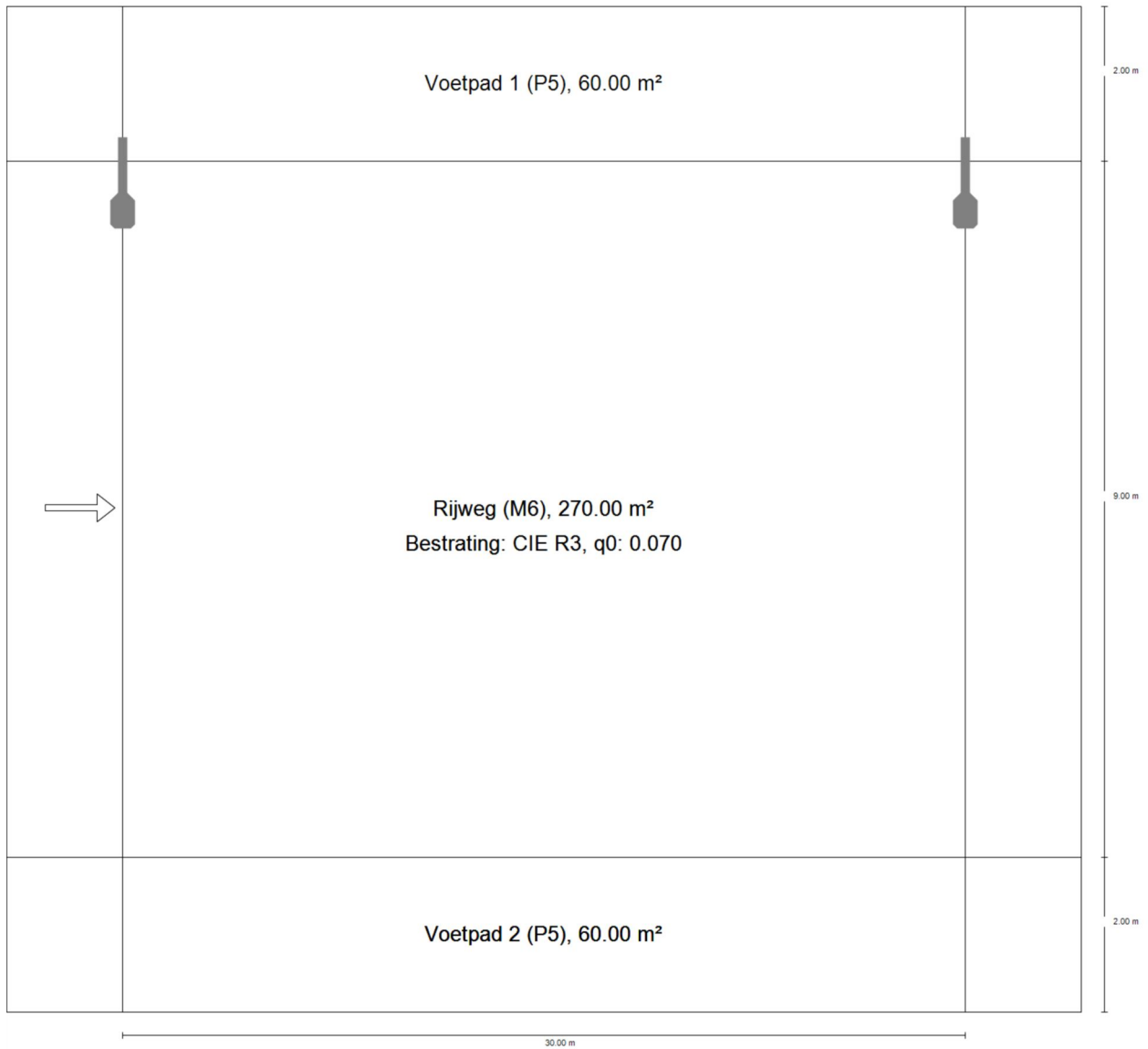


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## Beschrijving

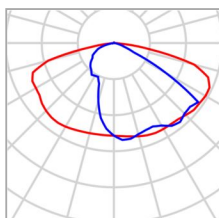
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## Samenvatting (tot ROVL-2011)



## Profiel 3

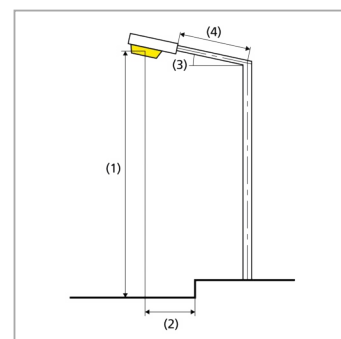
## Samenvatting (tot ROVL-2011)



|             |                                     |                          |          |
|-------------|-------------------------------------|--------------------------|----------|
| Fabrikant   | LIGHTRONICS B.V.                    | P                        | 19.7 W   |
| Artikelnaam | BRISA-PA08-32LED-3000K-3240LM-19.7W | $\Phi_{\text{Lamp}}$     | 2799 lm  |
|             |                                     | $\Phi_{\text{Armatuur}}$ | 2799 lm  |
| Uitrusting  | 32x LED                             | $\eta$                   | 100.00 % |

## BRISA-PA08-32LED-3000K-3240LM-19.7W (enkelzijdig boven)

|                                                                                                                     |                                                        |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Mastafstand                                                                                                         | 30.000 m                                               |
| (1) Lichtpunthoogte                                                                                                 | 6.000 m                                                |
| (2) Vooruitspringing lichtpunt                                                                                      | 0.605 m                                                |
| (3) Armhoek                                                                                                         | 5.0°                                                   |
| (4) Armlengte                                                                                                       | 0.900 m                                                |
| Verbruik                                                                                                            | 650.1 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°: 726 cd/klm<br>80°: 364 cd/klm<br>90°: 11.4 cd/klm |
| Lichtsterkteklasse                                                                                                  | –                                                      |
| Verblindingsindexklasse                                                                                             | D.4                                                    |
| MF                                                                                                                  | 0.90                                                   |



## Profiel 3

**Samenvatting (tot ROVL-2011)**

## Resultaten voor waarderingsvelden

Voor de installatie werd met een onderhoudsfactor van 0.90 gerekend.

|                | Grootte            | Berekend               | Moet                          | Check |
|----------------|--------------------|------------------------|-------------------------------|-------|
| Voetpad 1 (P5) | $E_{gem}$          | 3.75 lx                | $\geq 3.00$ lx                | ✓     |
|                | $E_s$              | 1.29 lx                | $\geq 0.60$ lx                | ✓     |
|                | $U_h$              | 0.34                   | $\geq 0.20$                   | ✓     |
|                | $E_{v(R)}^{(1)}$   | 0.05 lx                | –                             |       |
|                | $E_{v(S)}^{(1)}$   | 0.04 lx                | –                             |       |
| Rijweg (M6)    | $L_{gem}$          | 0.38 cd/m <sup>2</sup> | $\geq 0.30$ cd/m <sup>2</sup> | ✓     |
|                | $U_o$              | 0.45                   | $\geq 0.35$                   | ✓     |
|                | $U_l$              | 0.59                   | $\geq 0.40$                   | ✓     |
|                | TI                 | 11 %                   | $\leq 20$ %                   | ✓     |
|                | $SR^{(1)}$         | 0.46                   | –                             |       |
|                | $E_{v(R+S)}^{(1)}$ | 0.04 lx                | –                             |       |
| Voetpad 2 (P5) | $E_{gem}$          | 3.27 lx                | $\geq 3.00$ lx                | ✓     |
|                | $E_s$              | 2.55 lx                | $\geq 0.60$ lx                | ✓     |
|                | $U_h$              | 0.78                   | $\geq 0.20$                   | ✓     |
|                | $E_{v(R)}^{(1)}$   | 0.30 lx                | –                             |       |
|                | $E_{v(S)}^{(1)}$   | 0.22 lx                | –                             |       |

(1) Informatief, geen deel van de waardering

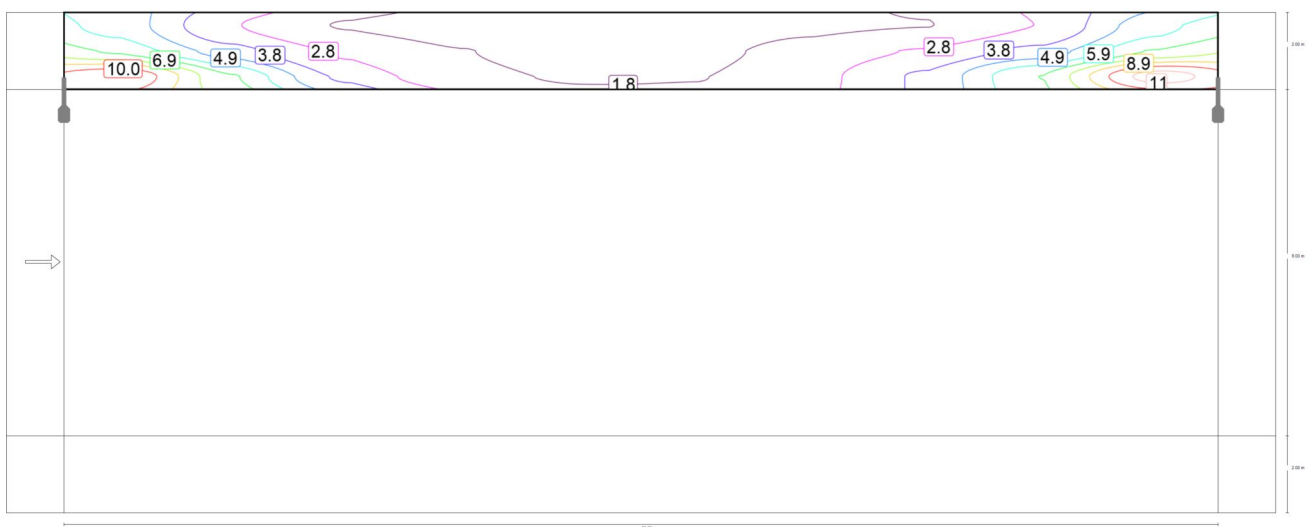
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**Voetpad 1 (P5)**

Resultaten voor waarderingsveld

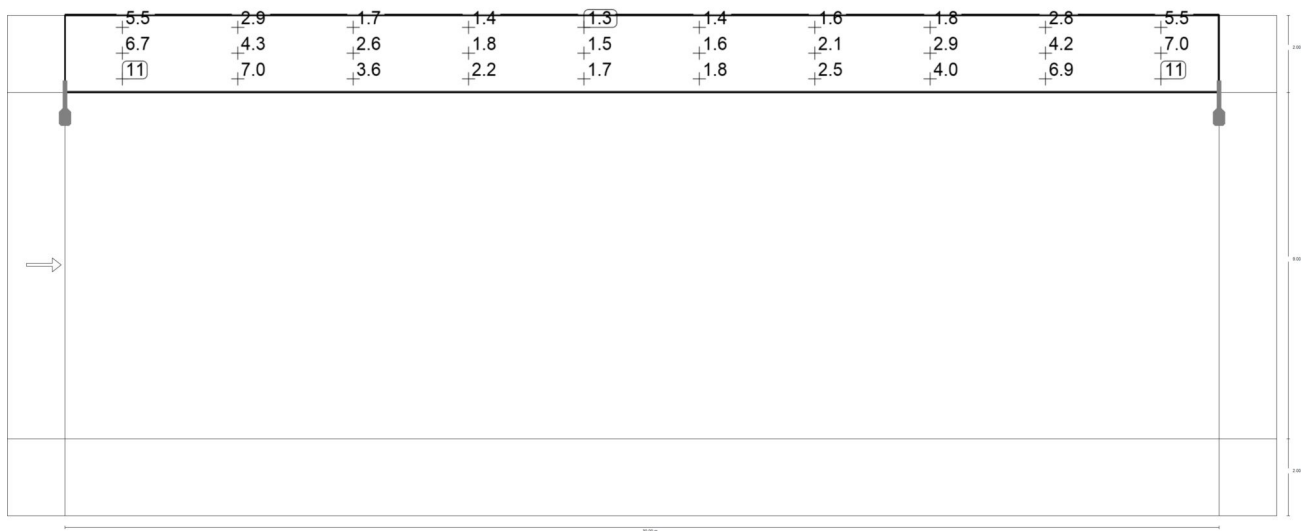
|                | Grootte          | Berekend | Moet                   | Check |
|----------------|------------------|----------|------------------------|-------|
| Voetpad 1 (P5) | $E_{\text{gem}}$ | 3.75 lx  | $\geq 3.00 \text{ lx}$ | ✓     |
|                | $E_s$            | 1.29 lx  | $\geq 0.60 \text{ lx}$ | ✓     |
|                | $U_h$            | 0.34     | $\geq 0.20$            | ✓     |
|                | $E_{v(R)}^{(1)}$ | 0.05 lx  | –                      |       |
|                | $E_{v(S)}^{(1)}$ | 0.04 lx  | –                      |       |

(1) Informatief, geen deel van de waardering



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)

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**Voetpad 1 (P5)**

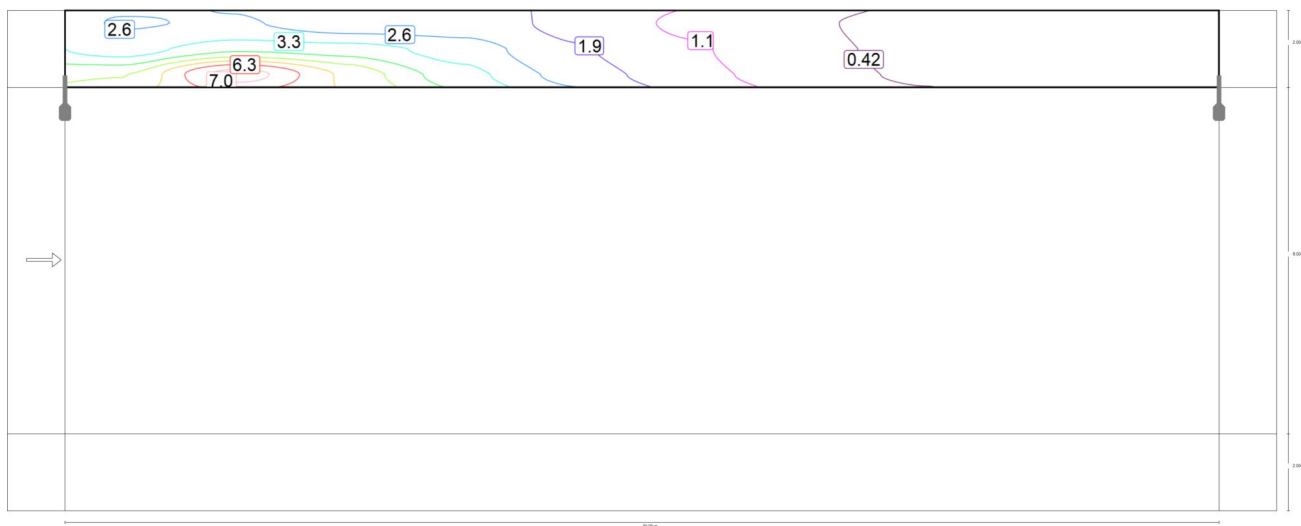
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 12.667 | 5.49  | 2.88  | 1.73  | 1.42   | 1.29   | 1.36   | 1.62   | 1.78   | 2.84   | 5.50   |
| 12.000 | 6.72  | 4.32  | 2.64  | 1.83   | 1.49   | 1.58   | 2.12   | 2.92   | 4.24   | 7.00   |
| 11.333 | 10.82 | 6.98  | 3.58  | 2.17   | 1.68   | 1.77   | 2.46   | 3.98   | 6.92   | 11.48  |

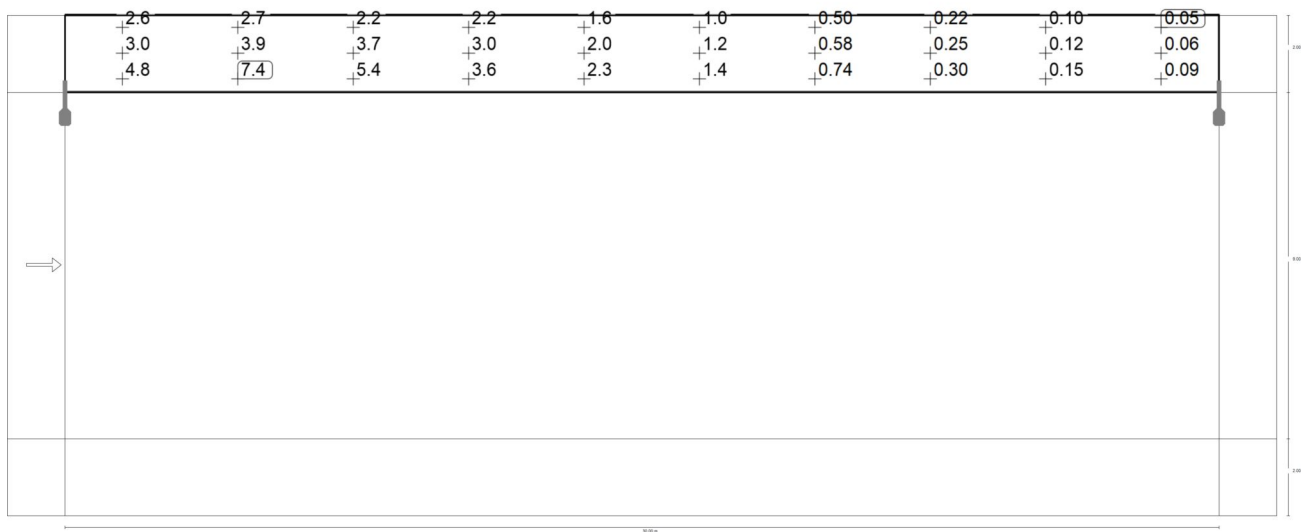
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | E <sub>gem</sub> | E <sub>s</sub> | E <sub>max</sub> | g <sub>1</sub> | g <sub>2</sub> |
|--------------------------------------------------|------------------|----------------|------------------|----------------|----------------|
| Onderhoudswaarde horizontale verlichtingssterkte | 3.75 lx          | 1.29 lx        | 11.5 lx          | 0.34           | 0.11           |

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**Voetpad 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 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 15.500 | 0.07  | 0.14  | 0.15  | 0.13   | 0.09   | 0.06   | 0.05   | 0.04   | 0.05   | 0.05   |
| 14.500 | 0.17  | 0.10  | 0.24  | 0.25   | 0.22   | 0.15   | 0.12   | 0.10   | 0.11   | 0.10   |
| 13.500 | 0.40  | 0.25  | 0.17  | 0.44   | 0.45   | 0.40   | 0.30   | 0.25   | 0.22   | 0.21   |
| 12.667 | 1.01  | 0.78  | 0.54  | 0.37   | 1.00   | 0.96   | 0.86   | 0.74   | 0.58   | 0.50   |
| 12.000 | 1.96  | 1.61  | 1.18  | 0.74   | 0.45   | 1.78   | 1.68   | 1.54   | 1.41   | 1.23   |
| 11.333 | 3.64  | 3.00  | 2.24  | 1.38   | 0.74   | 0.45   | 3.03   | 2.81   | 2.57   | 2.31   |

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**Voetpad 1 (P5)**

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 10.500 | 6.71  | 5.38  | 3.72  | 2.20   | 1.20   | 0.84   | 0.65   | 4.75   | 4.52   | 4.21   |
| 9.500  | 11.90 | 10.81 | 7.36  | 3.95   | 2.67   | 2.02   | 1.46   | 1.09   | 7.29   | 7.23   |
| 8.500  | 7.44  | 9.22  | 8.29  | 4.76   | 2.98   | 2.57   | 1.89   | 1.31   | 0.86   | 11.02  |

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

|                                                         | $E_{\text{gem}}$ | $E_s$    | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|---------------------------------------------------------|------------------|----------|------------------|-------|-------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 2.10 lx          | 0.041 lx | 11.9 lx          | 0.02  | 0.00  |

Profiel 3

**Rijweg (M6)**

Resultaten voor waarderingsveld

|             | Grootte                             | Berekend               | Moet                     | Check |
|-------------|-------------------------------------|------------------------|--------------------------|-------|
| Rijweg (M6) | L <sub>gem</sub>                    | 0.38 cd/m <sup>2</sup> | ≥ 0.30 cd/m <sup>2</sup> | ✓     |
|             | U <sub>o</sub>                      | 0.45                   | ≥ 0.35                   | ✓     |
|             | U <sub>l</sub>                      | 0.59                   | ≥ 0.40                   | ✓     |
|             | TI                                  | 11 %                   | ≤ 20 %                   | ✓     |
|             | SR <sup>(1)</sup>                   | 0.46                   | –                        |       |
|             | E <sub>v</sub> (R+S) <sup>(1)</sup> | 0.04 lx                | –                        |       |

Resultaten voor waarnemer

|                                                               | Grootte          | Berekend               | Moet                     | Check |
|---------------------------------------------------------------|------------------|------------------------|--------------------------|-------|
| <b>Waarnemer 1</b><br>Positie:<br>-60.000 m, 6.500 m, 1.500 m | L <sub>gem</sub> | 0.38 cd/m <sup>2</sup> | ≥ 0.30 cd/m <sup>2</sup> | ✓     |
|                                                               | U <sub>o</sub>   | 0.45                   | ≥ 0.35                   | ✓     |
|                                                               | U <sub>l</sub>   | 0.59                   | ≥ 0.40                   | ✓     |
|                                                               | TI               | 11 %                   | ≤ 20 %                   | ✓     |

(1) Informatief, geen deel van de waardering

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 10.250 | 15.65 | 9.45  | 4.52  | 2.52   | 1.90   | 1.99   | 2.83   | 4.97   | 9.53   | 16.19  |
| 8.750  | 15.61 | 9.61  | 4.79  | 2.68   | 2.04   | 2.12   | 2.97   | 5.25   | 9.93   | 16.10  |
| 7.250  | 11.67 | 7.79  | 4.59  | 2.78   | 2.16   | 2.22   | 2.99   | 5.05   | 8.42   | 11.99  |
| 5.750  | 8.89  | 6.22  | 4.32  | 3.05   | 2.47   | 2.53   | 3.20   | 4.87   | 6.86   | 9.05   |
| 4.250  | 6.54  | 4.86  | 4.14  | 3.38   | 2.93   | 2.87   | 3.49   | 4.58   | 5.32   | 6.64   |
| 2.750  | 4.60  | 3.90  | 3.95  | 3.68   | 3.19   | 3.18   | 3.65   | 4.21   | 4.10   | 4.59   |

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 | 5.59 lx          | 1.90 lx        | 16.2 lx          | 0.34           | 0.12           |

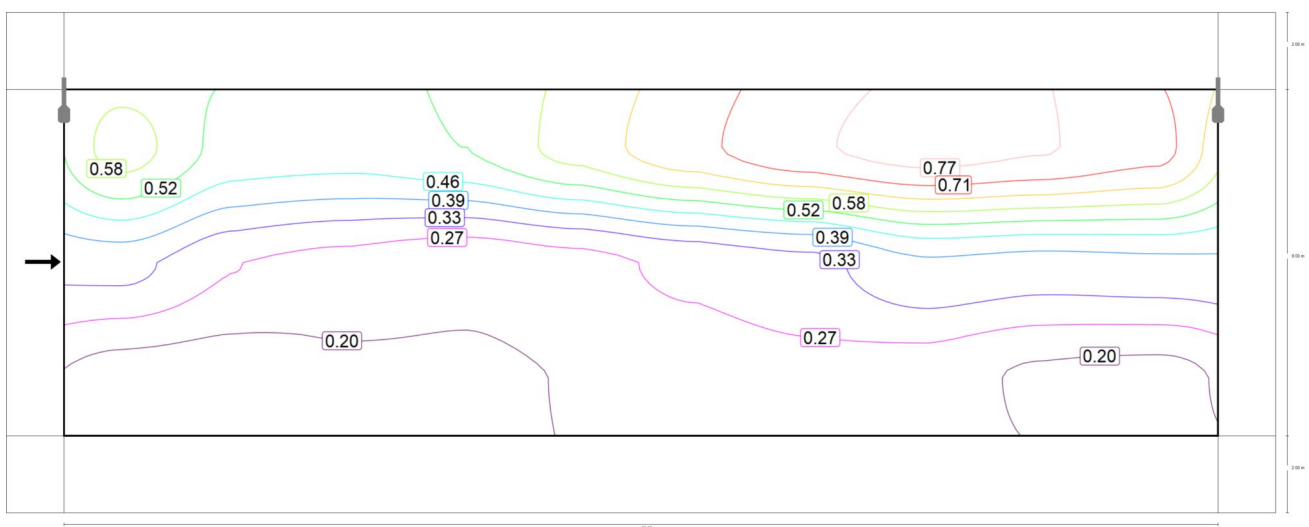
## Profiel 3

## Rijweg (M6)

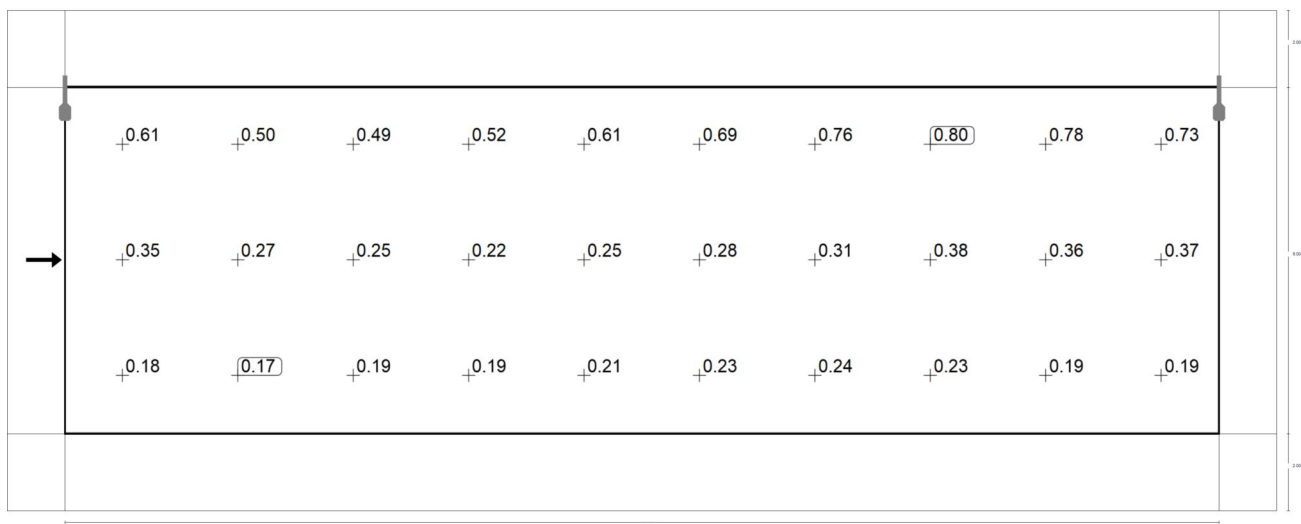
| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 13.500 | 0.30  | 0.26  | 0.23  | 0.19   | 0.15   | 0.14   | 0.13   | 0.08   | 0.05   | 0.04   |
| 12.500 | 0.40  | 0.34  | 0.27  | 0.24   | 0.23   | 0.14   | 0.11   | 0.11   | 0.37   | 0.36   |
| 11.500 | 0.51  | 0.43  | 0.42  | 0.29   | 0.23   | 0.21   | 0.57   | 0.59   | 0.57   | 0.47   |
| 10.250 | 0.89  | 0.71  | 0.51  | 0.40   | 0.89   | 0.95   | 1.01   | 0.96   | 0.78   | 0.66   |
| 8.750  | 1.06  | 0.78  | 1.47  | 1.60   | 1.72   | 1.85   | 1.66   | 1.45   | 1.21   | 0.97   |
| 7.250  | 1.92  | 2.38  | 2.66  | 2.92   | 3.00   | 2.58   | 2.15   | 1.73   | 1.58   | 1.37   |
| 5.750  | 4.32  | 5.08  | 5.13  | 4.53   | 3.54   | 2.95   | 2.63   | 2.24   | 1.70   | 1.18   |
| 4.250  | 7.76  | 6.88  | 5.56  | 4.74   | 4.29   | 3.49   | 2.42   | 1.38   | 2.56   | 3.34   |
| 2.750  | 7.77  | 7.25  | 6.90  | 5.00   | 2.51   | 1.20   | 2.19   | 3.69   | 5.24   | 6.89   |
| 1.500  | 11.36 | 6.29  | 2.88  | 2.02   | 1.29   | 2.33   | 3.88   | 6.68   | 8.79   | 8.65   |
| 0.500  | 2.68  | 1.89  | 0.72  | 1.18   | 2.20   | 3.81   | 5.85   | 7.42   | 9.20   | 11.36  |
| -0.500 | 0.48  | 0.65  | 0.95  | 1.60   | 2.36   | 3.63   | 5.41   | 7.90   | 8.84   | 3.99   |

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

|                                                         | $E_{\text{gem}}$ | $E_s$    | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|---------------------------------------------------------|------------------|----------|------------------|-------|-------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 2.61 lx          | 0.041 lx | 11.4 lx          | 0.02  | 0.00  |

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

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**Rijweg (M6)**

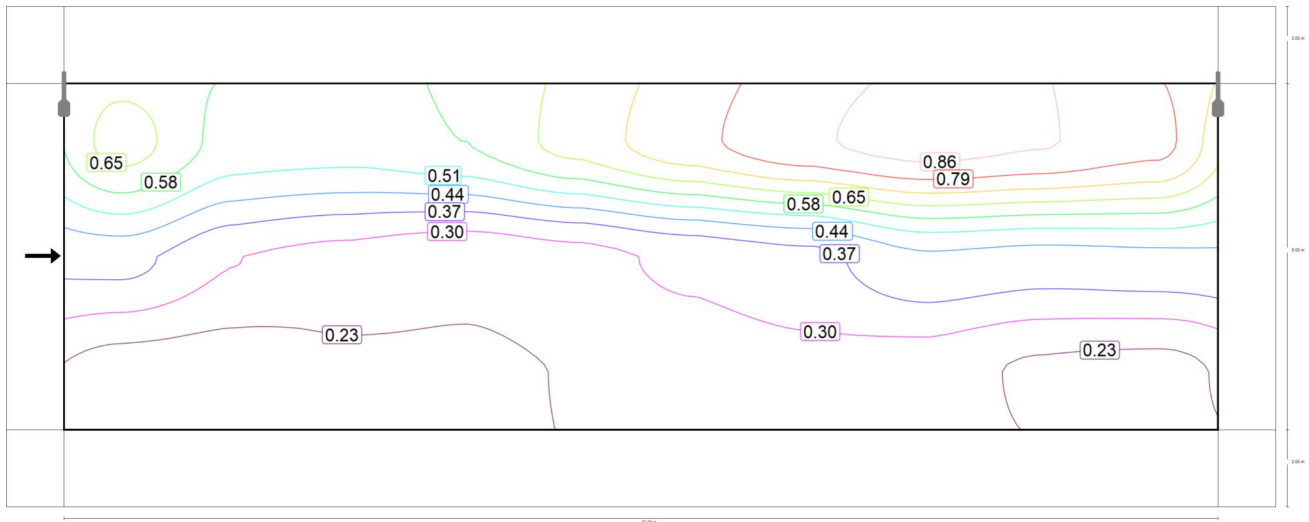
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardenraster)

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 9.500 | 0.61  | 0.50  | 0.49  | 0.52   | 0.61   | 0.69   | 0.76   | 0.80   | 0.78   | 0.73   |
| 6.500 | 0.35  | 0.27  | 0.25  | 0.22   | 0.25   | 0.28   | 0.31   | 0.38   | 0.36   | 0.37   |
| 3.500 | 0.18  | 0.17  | 0.19  | 0.19   | 0.21   | 0.23   | 0.24   | 0.23   | 0.19   | 0.19   |

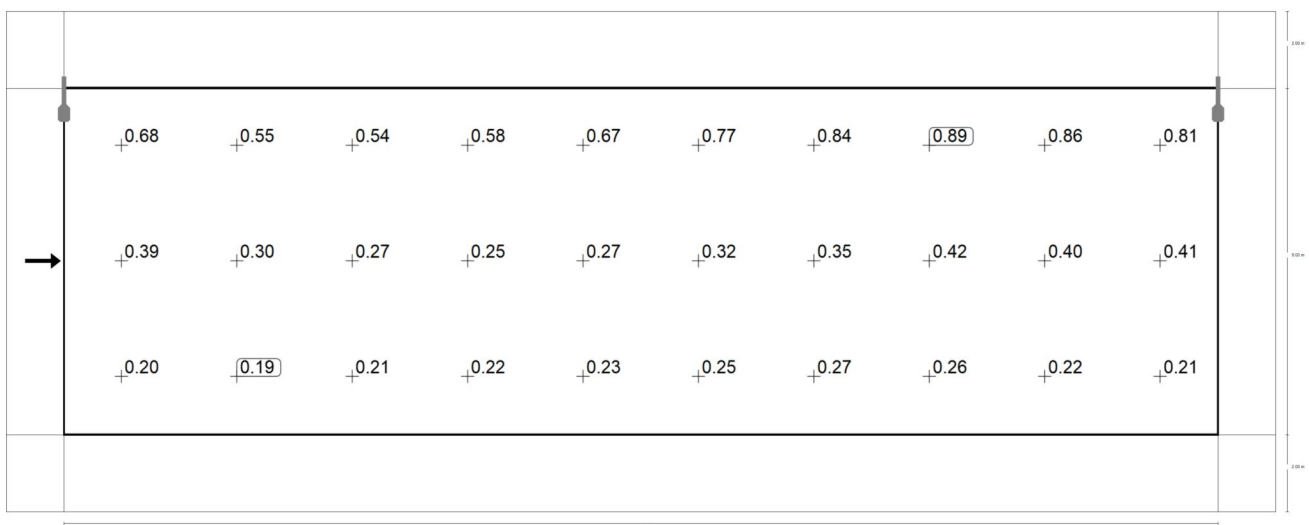
Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan [ $\text{cd/m}^2$ ] (Waardentabel)

|                                                            | $L_{\text{gem}}$     | $L_s$                | $L_{\text{max}}$     | $g_1$ | $g_2$ |
|------------------------------------------------------------|----------------------|----------------------|----------------------|-------|-------|
| Waarnemer 1: Onderhoudswaarde luminantie bij droge rijbaan | 0.38 $\text{cd/m}^2$ | 0.17 $\text{cd/m}^2$ | 0.80 $\text{cd/m}^2$ | 0.45  | 0.22  |

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**Rijweg (M6)**

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



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

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**Rijweg (M6)**

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 9.500 | 0.68  | 0.55  | 0.54  | 0.58   | 0.67   | 0.77   | 0.84   | 0.89   | 0.86   | 0.81   |
| 6.500 | 0.39  | 0.30  | 0.27  | 0.25   | 0.27   | 0.32   | 0.35   | 0.42   | 0.40   | 0.41   |
| 3.500 | 0.20  | 0.19  | 0.21  | 0.22   | 0.23   | 0.25   | 0.27   | 0.26   | 0.22   | 0.21   |

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 | 0.43 $\text{cd/m}^2$ | 0.19 $\text{cd/m}^2$ | 0.89 $\text{cd/m}^2$ | 0.45  | 0.22  |

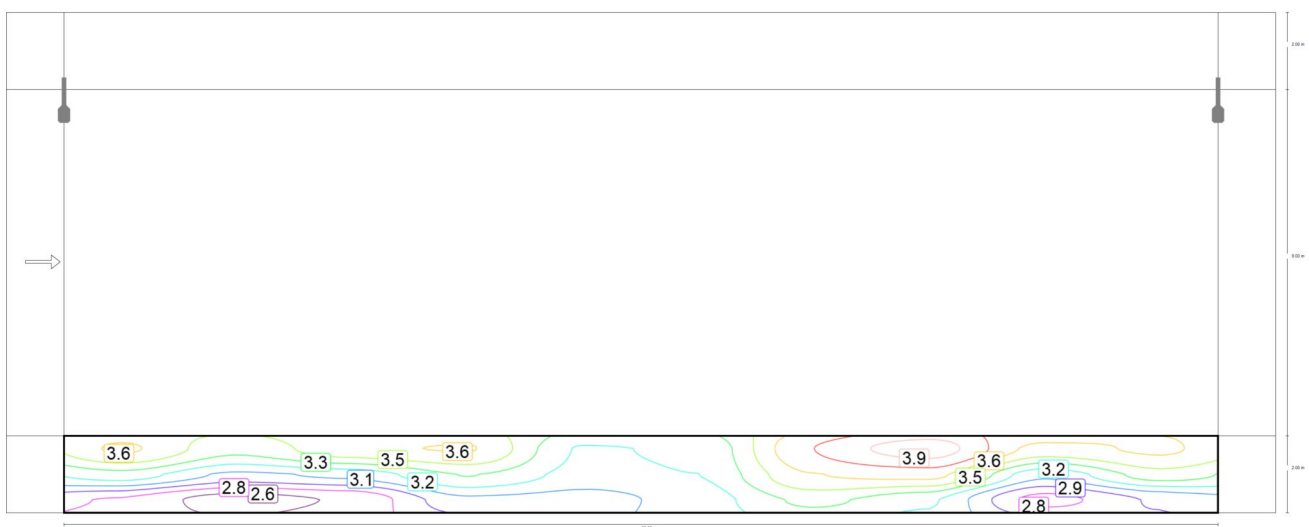
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**Voetpad 2 (P5)**

Resultaten voor waarderingsveld

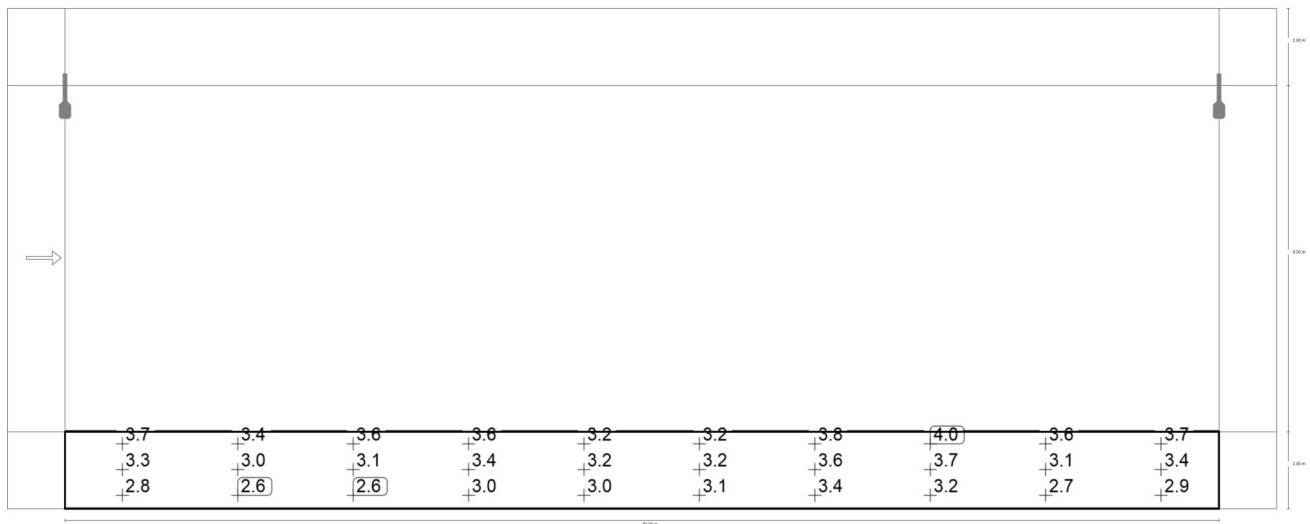
|                | Grootte          | Berekend | Moet                   | Check |
|----------------|------------------|----------|------------------------|-------|
| Voetpad 2 (P5) | $E_{\text{gem}}$ | 3.27 lx  | $\geq 3.00 \text{ lx}$ | ✓     |
|                | $E_s$            | 2.55 lx  | $\geq 0.60 \text{ lx}$ | ✓     |
|                | $U_h$            | 0.78     | $\geq 0.20$            | ✓     |
|                | $E_{v(R)}^{(1)}$ | 0.30 lx  | –                      |       |
|                | $E_{v(S)}^{(1)}$ | 0.22 lx  | –                      |       |

(1) Informatief, geen deel van de waardering



Onderhoudswaarde horizontale verlichtingssterkte [lx] (Isoluxlijnen)

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**Voetpad 2 (P5)**

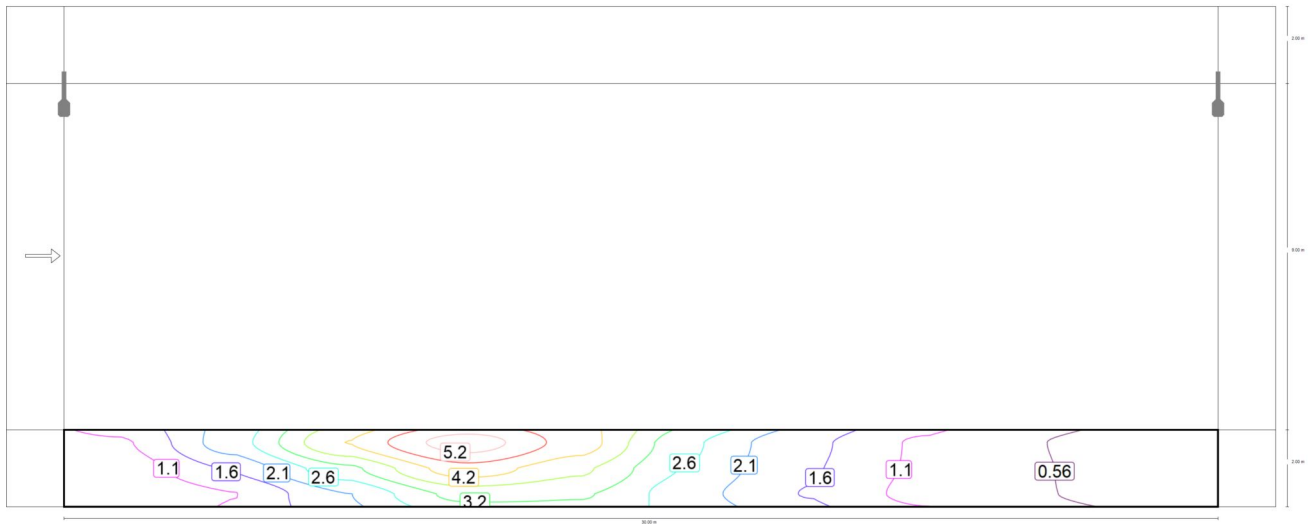
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardenraster)

| m     | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 1.667 | 3.66  | 3.39  | 3.60  | 3.65   | 3.19   | 3.22   | 3.78   | 4.00   | 3.59   | 3.66   |
| 1.000 | 3.28  | 3.02  | 3.10  | 3.36   | 3.16   | 3.20   | 3.63   | 3.68   | 3.10   | 3.43   |
| 0.333 | 2.75  | 2.55  | 2.64  | 3.02   | 3.00   | 3.11   | 3.39   | 3.23   | 2.71   | 2.93   |

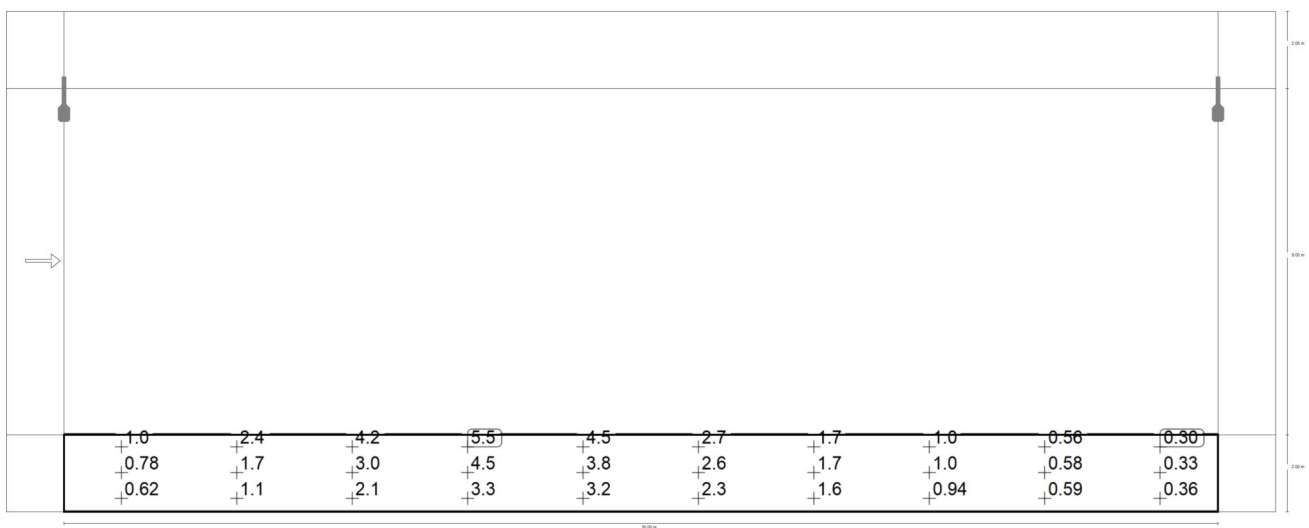
Onderhoudswaarde horizontale verlichtingssterkte [lx] (Waardentabel)

|                                                  | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|--------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde horizontale verlichtingssterkte | 3.27 lx          | 2.55 lx | 4.00 lx          | 0.78  | 0.64  |

Profiel 3

**Voetpad 2 (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 |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 4.500 | 0.40  | 0.34  | 0.37  | 0.37   | 0.36   | 0.33   | 0.30   | 0.27   | 0.24   | 0.22   |
| 3.500 | 0.85  | 0.76  | 0.50  | 0.53   | 0.57   | 0.59   | 0.58   | 0.56   | 0.49   | 0.44   |
| 2.500 | 1.84  | 1.82  | 1.62  | 0.77   | 0.82   | 0.89   | 0.94   | 1.00   | 1.01   | 0.98   |
| 1.667 | 2.70  | 2.88  | 3.03  | 2.97   | 0.99   | 1.27   | 1.47   | 1.57   | 1.67   | 1.74   |
| 1.000 | 3.78  | 4.47  | 4.97  | 5.15   | 5.03   | 1.07   | 1.43   | 1.92   | 2.31   | 2.56   |
| 0.333 | 3.32  | 4.48  | 5.50  | 6.57   | 7.64   | 7.73   | 1.07   | 1.71   | 2.56   | 3.20   |

Profiel 3

**Voetpad 2 (P5)**

| m      | 1.500 | 4.500 | 7.500 | 10.500 | 13.500 | 16.500 | 19.500 | 22.500 | 25.500 | 28.500 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| -0.500 | 1.29  | 2.12  | 3.03  | 4.21   | 6.12   | 8.18   | 8.93   | 0.85   | 1.35   | 2.19   |
| -1.500 | 0.52  | 0.72  | 1.07  | 1.65   | 2.39   | 3.45   | 4.91   | 6.14   | 0.48   | 0.68   |
| -2.500 | 0.33  | 0.38  | 0.48  | 0.62   | 0.78   | 1.01   | 1.46   | 2.05   | 2.51   | 0.39   |

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

|                                                         | $E_{\text{gem}}$ | $E_s$   | $E_{\text{max}}$ | $g_1$ | $g_2$ |
|---------------------------------------------------------|------------------|---------|------------------|-------|-------|
| Onderhoudswaarde verticale verlichtingssterkte (westen) | 2.09 lx          | 0.22 lx | 8.93 lx          | 0.11  | 0.02  |