

## **Apgaismojuma aprēķins**

JAUNO STROPU PROMENĀDES IZBŪVE UN PLUDMALES LABIEKĀRTOJUMS, DAUGAVPILĪ

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Date: 27.06.2016  
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## Table of contents

|                                       |    |
|---------------------------------------|----|
| <b>Apgaismojuma aprēķins</b>          |    |
| Project Cover                         | 1  |
| Table of contents                     | 2  |
| <b>NOVATILU AVENUE M - ALAVML60-E</b> |    |
| Luminaire Data Sheet                  | 4  |
| <b>Griezums 1-1</b>                   |    |
| Planning data                         | 5  |
| Photometric Results                   | 6  |
| <b>Valuation Fields</b>               |    |
| <b>Gājēju ceļš</b>                    |    |
| Isolines (E)                          | 8  |
| <b>Velosipēdistu ceļš</b>             |    |
| Isolines (E)                          | 9  |
| <b>Griezums 2-2</b>                   |    |
| Planning data                         | 10 |
| Photometric Results                   | 11 |
| <b>Valuation Fields</b>               |    |
| <b>Atpūtas vieta</b>                  |    |
| Isolines (E)                          | 13 |
| <b>Velosipēdistu ceļš</b>             |    |
| Isolines (E)                          | 14 |
| <b>Gājēju ceļš</b>                    |    |
| Isolines (E)                          | 15 |
| <b>Griezums 3-3</b>                   |    |
| Planning data                         | 16 |
| Photometric Results                   | 18 |
| <b>Valuation Fields</b>               |    |
| <b>Tirzniecības zona</b>              |    |
| Isolines (E)                          | 20 |
| <b>Velosipēdistu ceļš</b>             |    |
| Isolines (E)                          | 21 |
| <b>Gājēju ceļš</b>                    |    |
| Isolines (E)                          | 22 |
| <b>Griezums 4-4</b>                   |    |
| Planning data                         | 23 |
| Photometric Results                   | 25 |
| <b>Valuation Fields</b>               |    |
| <b>Atpūtas zona</b>                   |    |
| Isolines (E)                          | 28 |
| <b>Zaļa zona 2</b>                    |    |
| Isolines (E)                          | 29 |
| <b>Velosipēdistu ceļš</b>             |    |
| Isolines (E)                          | 30 |
| <b>Gājēju ceļš</b>                    |    |
| Isolines (E)                          | 31 |
| <b>Griezums 5-5</b>                   |    |
| Planning data                         | 32 |
| Photometric Results                   | 34 |
| <b>Valuation Fields</b>               |    |
| <b>Velosipēdistu ceļš</b>             |    |
| Isolines (E)                          | 37 |
| <b>Gājēju ceļš 2</b>                  |    |
| Isolines (E)                          | 38 |
| <b>Zaļa zona</b>                      |    |

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## Table of contents

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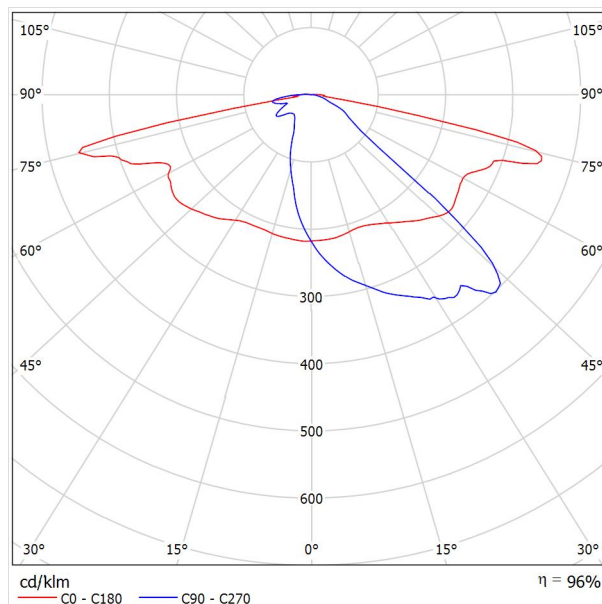
|                         |    |
|-------------------------|----|
| Isolines (E)            | 39 |
| <b>Gājēju ceļš 1</b>    |    |
| Isolines (E)            | 40 |
| <b>Bērnu laukums</b>    |    |
| Isolines (E)            | 41 |
| <b>Griezums 6-6</b>     |    |
| Planning data           | 42 |
| Photometric Results     | 43 |
| <b>Valuation Fields</b> |    |
| <b>Gājēju ceļš</b>      |    |
| Isolines (E)            | 44 |

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## NOVATILU AVENUE M - ALAVML60-E / Luminaire Data Sheet

See our luminaire catalog for an image of the luminaire.

Luminous emittance 1:



Luminaire classification according to CIE: 99  
CIE flux code: 33 64 91 99 96

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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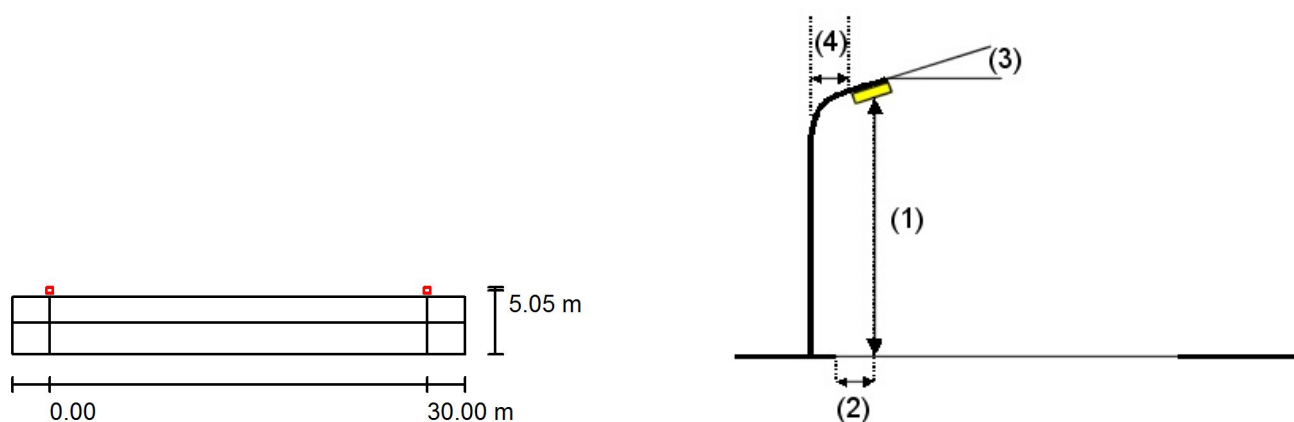
## Griezums 1-1 / Planning data

### Street Profile

Velosipēdistu ceļš (Width: 2.000 m)  
 Gājēju ceļš (Width: 2.500 m)

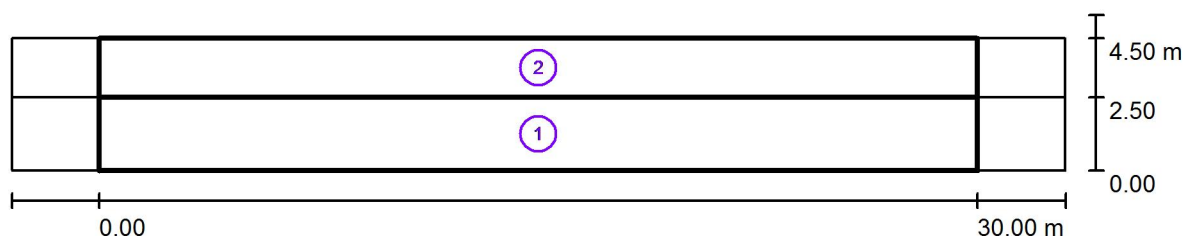
Maintenance factor: 0.80

### Luminaire Arrangements



|                            |                                |   |
|----------------------------|--------------------------------|---|
| Luminaire:                 | NOVATILU AVENUE M - ALAVML60-E |   |
| Luminous flux (Luminaire): | 5762 lm                        | Maximum luminous intensities  |
| Luminous flux (Lamps):     | 6000 lm                        | at 70°: 618 cd/klm  |
| Luminaire Wattage:         | 60.0 W                         | at 80°: 1009 cd/klm   |
| Arrangement:               | Single row, top                | at 90°: 38 cd/klm   |
| Pole Distance:             | 30.000 m                       | Any direction forming the specified angle from the downward vertical, with the luminaire installed for use. |
| Mounting Height (1):       | 6.000 m                        | Arrangement complies with glare index class D.5.  |
| Height:                    | 5.807 m                        |   |
| Overhang (2):              | -0.498 m                       |   |
| Boom Angle (3):            | 15.0 °                         |   |
| Boom Length (4):           | 0.200 m                        |   |

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**Griezums 1-1 / Photometric Results**

Maintenance factor: 0.80

Scale 1:258

**Calculation Field List**

- 1 Gājēju ceļš  
Length: 30.000 m, Width: 2.500 m  
Grid: 10 x 3 Points  
Accompanying Street Elements: Gājēju ceļš.  
Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 7.53                          | 0.45        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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**Griezums 1-1 / Photometric Results**

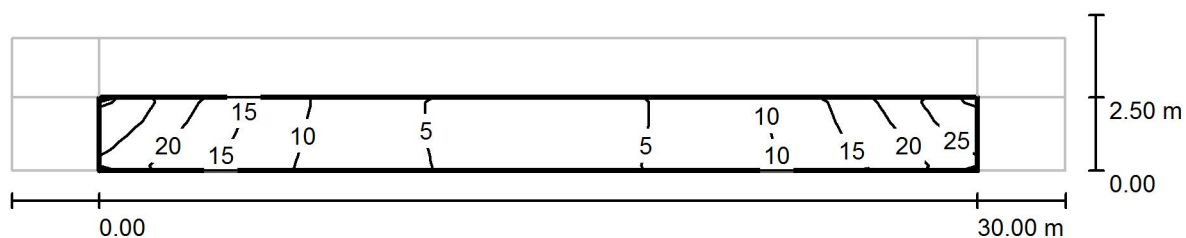
---

**Calculation Field List**

- 2 Velosipēdistu ceļš  
Length: 30.000 m, Width: 2.000 m  
Grid: 10 x 3 Points  
Accompanying Street Elements: Velosipēdistu ceļš.  
Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 7.33                          | 0.47        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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**Griezums 1-1 / Gājēju ceļš / Isolines (E)**

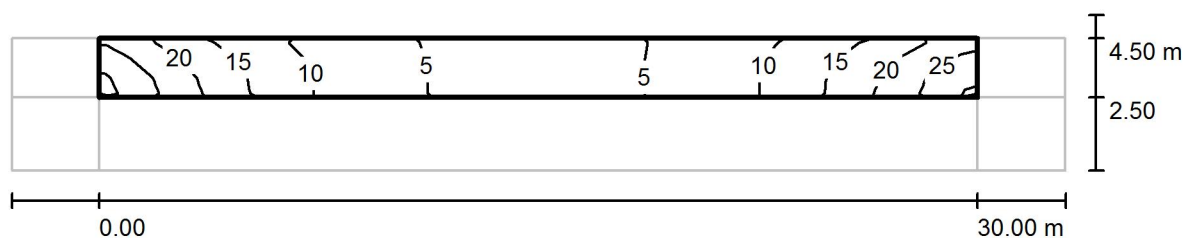
Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

 $E_{av}$  [lx]  
11 $E_{min}$  [lx]  
3.55 $E_{max}$  [lx]  
26 $u0$   
0.319 $E_{min} / E_{max}$   
0.136



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**Griezums 1-1 / Velosipēdistu ceļš / Isolines (E)**

Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

 $E_{av}$  [lx]  
11 $E_{min}$  [lx]  
3.62 $E_{max}$  [lx]  
27 $u_0$   
0.316 $E_{min} / E_{max}$   
0.136

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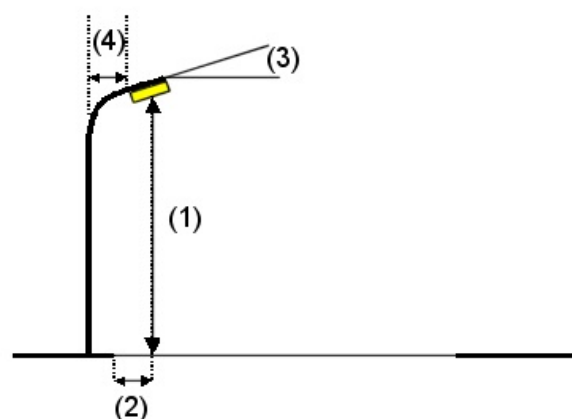
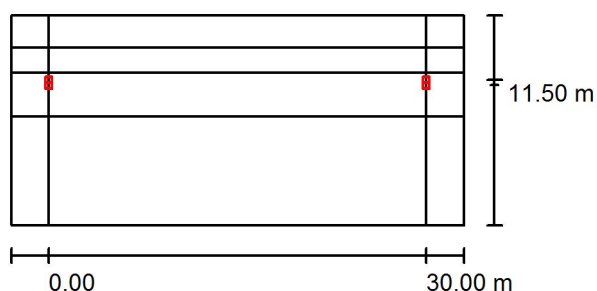
## Griezums 2-2 / Planning data

### Street Profile

|                    |                  |
|--------------------|------------------|
| Gājēju ceļš        | (Width: 2.500 m) |
| Velosipēdistu ceļš | (Width: 2.000 m) |
| Zaļa zona          | (Width: 3.500 m) |
| Atpūtas vieta      | (Width: 8.600 m) |

Maintenance factor: 0.80

### Luminaire Arrangements



Luminaire:  
Luminous flux (Luminaire): 5762 lm  
Luminous flux (Lamps): 6000 lm  
Luminaire Wattage: 60.0 W  
Arrangement: Single row, top  
Pole Distance: 30.000 m  
Mounting Height (1): 6.000 m  
Height: 5.807 m  
Overhang (2): 5.552 m  
Boom Angle (3): 15.0 °  
Boom Length (4): 0.200 m

NOVATILU AVENUE M - ALAVML60-E

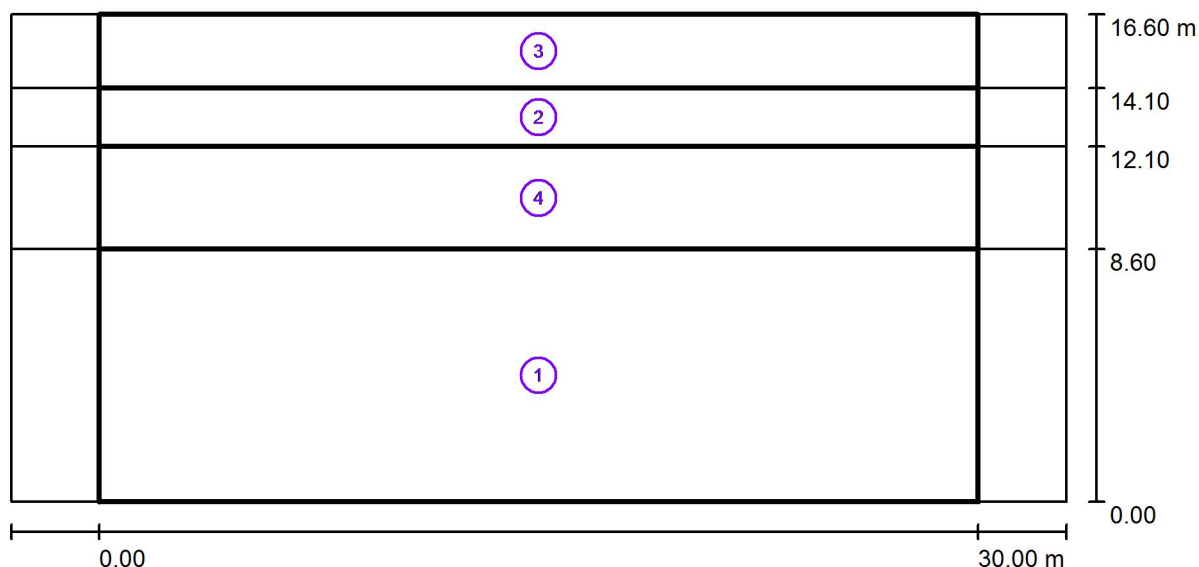
Maximum luminous intensities  
at 70°: 618 cd/klm  
at 80°: 1009 cd/klm  
at 90°: 38 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.5.

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## Griezums 2-2 / Photometric Results



Maintenance factor: 0.80

Scale 1:258

### Calculation Field List

- 1 Atpūtas vieta  
 Length: 30.000 m, Width: 8.600 m  
 Grid: 10 x 6 Points  
 Accompanying Street Elements: Atpūtas vieta.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 7.64                          | 0.54        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

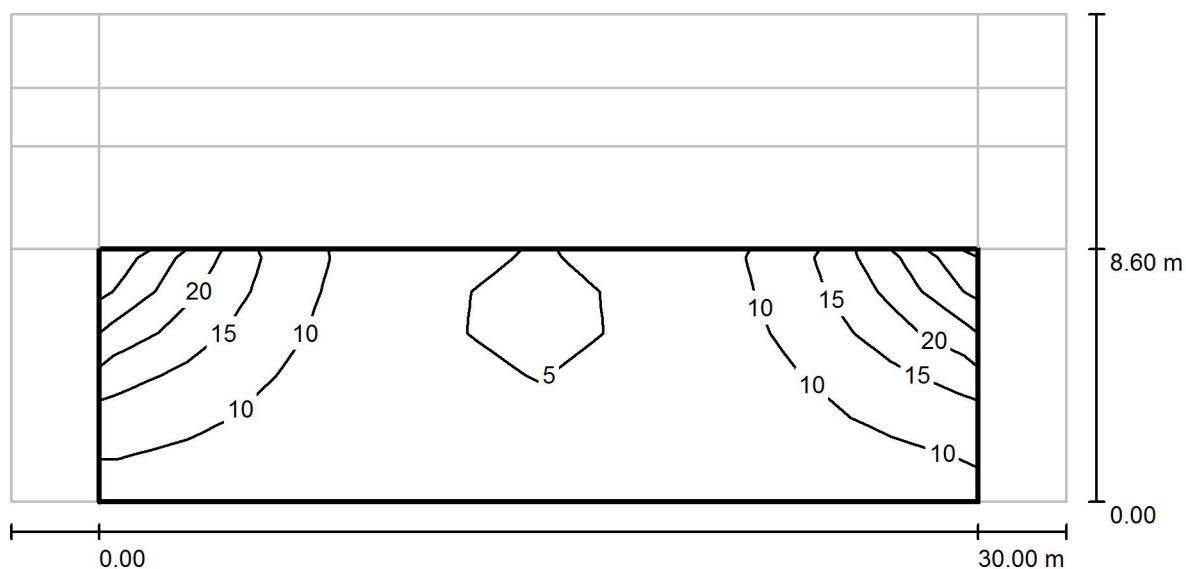
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## Griezums 2-2 / Photometric Results

### Calculation Field List

- 2 Velosipēdistu ceļš  
 Length: 30.000 m, Width: 2.000 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Velosipēdistu ceļš.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 9.47                          | 0.54        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 3 Gājēju ceļš  
 Length: 30.000 m, Width: 2.500 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Gājēju ceļš.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 8.58                          | 0.48        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 4 Zaļa zona  
 Length: 30.000 m, Width: 3.500 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Zaļa zona.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 9.47                          | 0.57        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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**Griezums 2-2 / Atpūtas vieta / Isolines (E)**

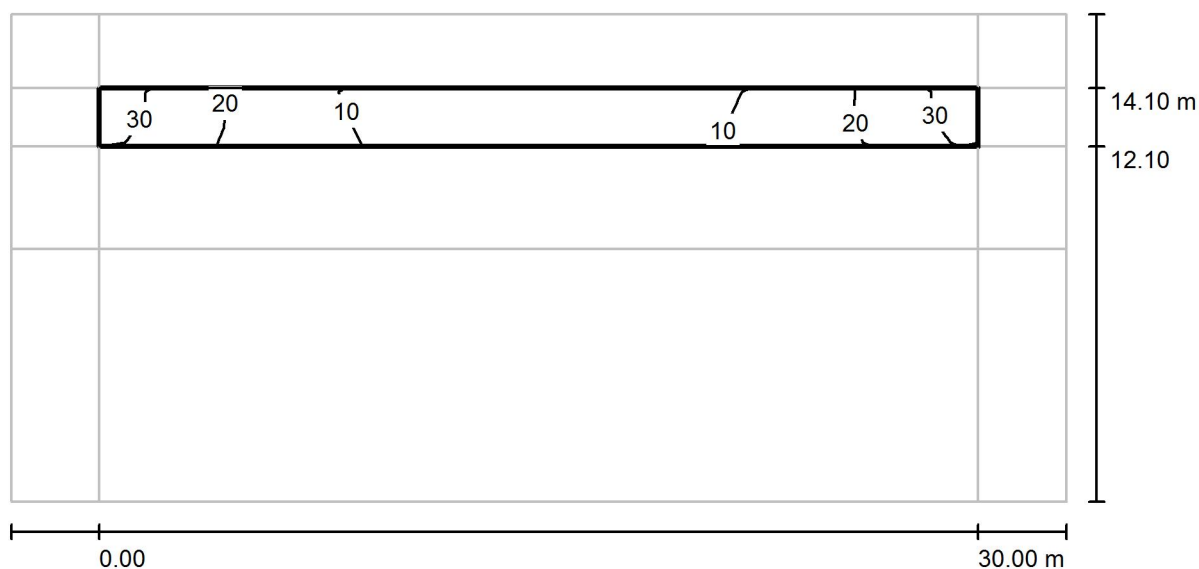
Values in Lux, Scale 1 : 258

Grid: 10 x 6 Points

 $E_{av}$  [lx]  
9.71 $E_{min}$  [lx]  
4.25 $E_{max}$  [lx]  
29 $u_0$   
0.438 $E_{min} / E_{max}$   
0.148

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### Griezums 2-2 / Velosipēdistu ceļš / Isolines (E)



Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

$E_{av}$  [lx]  
14

$E_{min}$  [lx]  
5.35

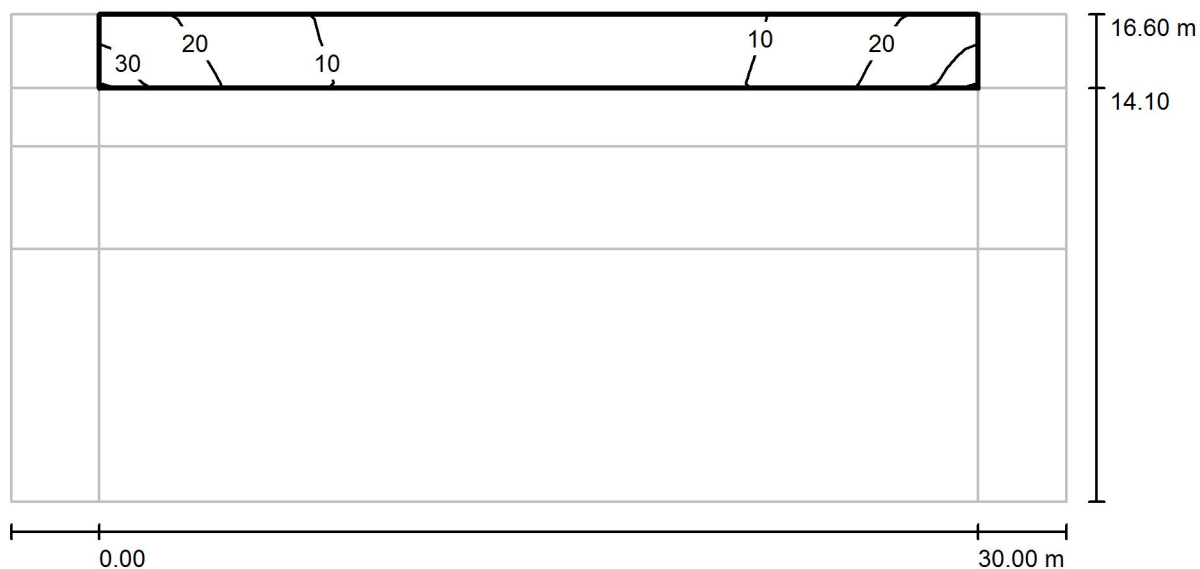
$E_{max}$  [lx]  
30

$u_0$   
0.372

$E_{min} / E_{max}$   
0.176

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### Griezums 2-2 / Gājēju ceļš / Isolines (E)



Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

$E_{av}$  [lx]  
13

$E_{min}$  [lx]  
4.25

$E_{max}$  [lx]  
29

$u_0$   
0.339

$E_{min} / E_{max}$   
0.145

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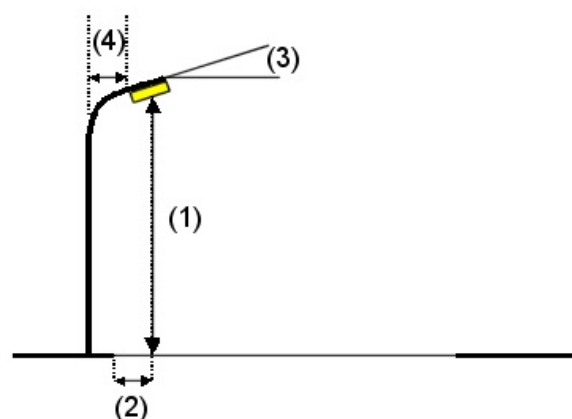
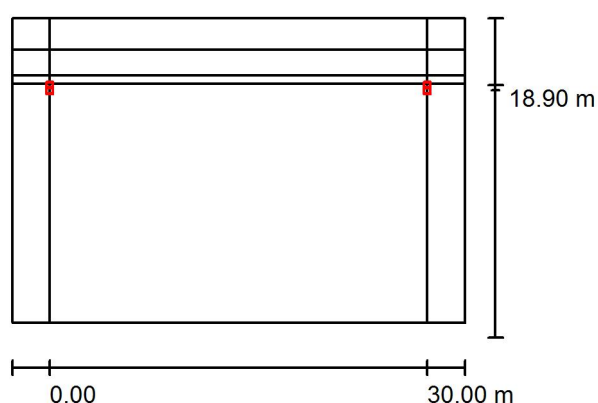
## Griezums 3-3 / Planning data

### Street Profile

|                    |                   |
|--------------------|-------------------|
| Gājēju ceļš        | (Width: 2.500 m)  |
| Velosipēdistu ceļš | (Width: 2.000 m)  |
| Zaļa zona          | (Width: 0.700 m)  |
| Tirzniecības zona  | (Width: 19.000 m) |

Maintenance factor: 0.80

### Luminaire Arrangements



Luminaire: NOVATILU AVENUE M - ALAVML60-E  
 Luminous flux (Luminaire): 5762 lm  
 Luminous flux (Lamps): 6000 lm  
 Luminaire Wattage: 60.0 W  
 Arrangement: Single row, top  
 Pole Distance: 30.000 m  
 Mounting Height (1): 6.000 m  
 Height: 5.807 m  
 Overhang (2): 5.752 m  
 Boom Angle (3): 15.0 °  
 Boom Length (4): 0.200 m

#### Maximum luminous intensities

at 70°: 618 cd/klm  
 at 80°: 1009 cd/klm  
 at 90°: 38 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

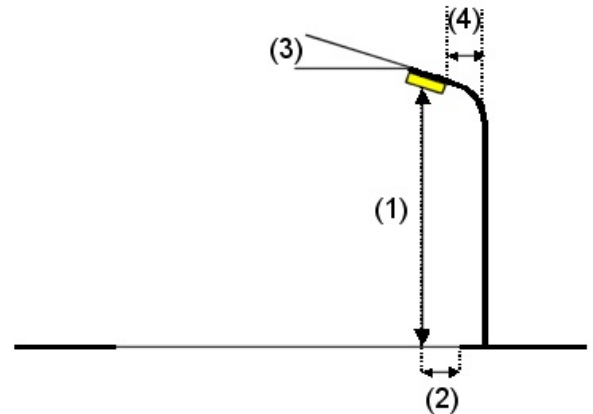
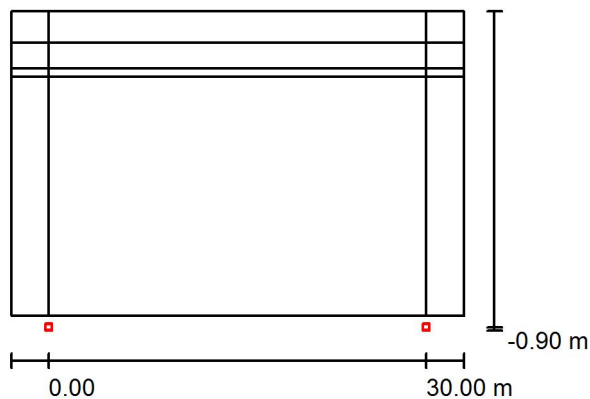
Arrangement complies with glare index class D.5.



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## Griezums 3-3 / Planning data

### Luminaire Arrangements



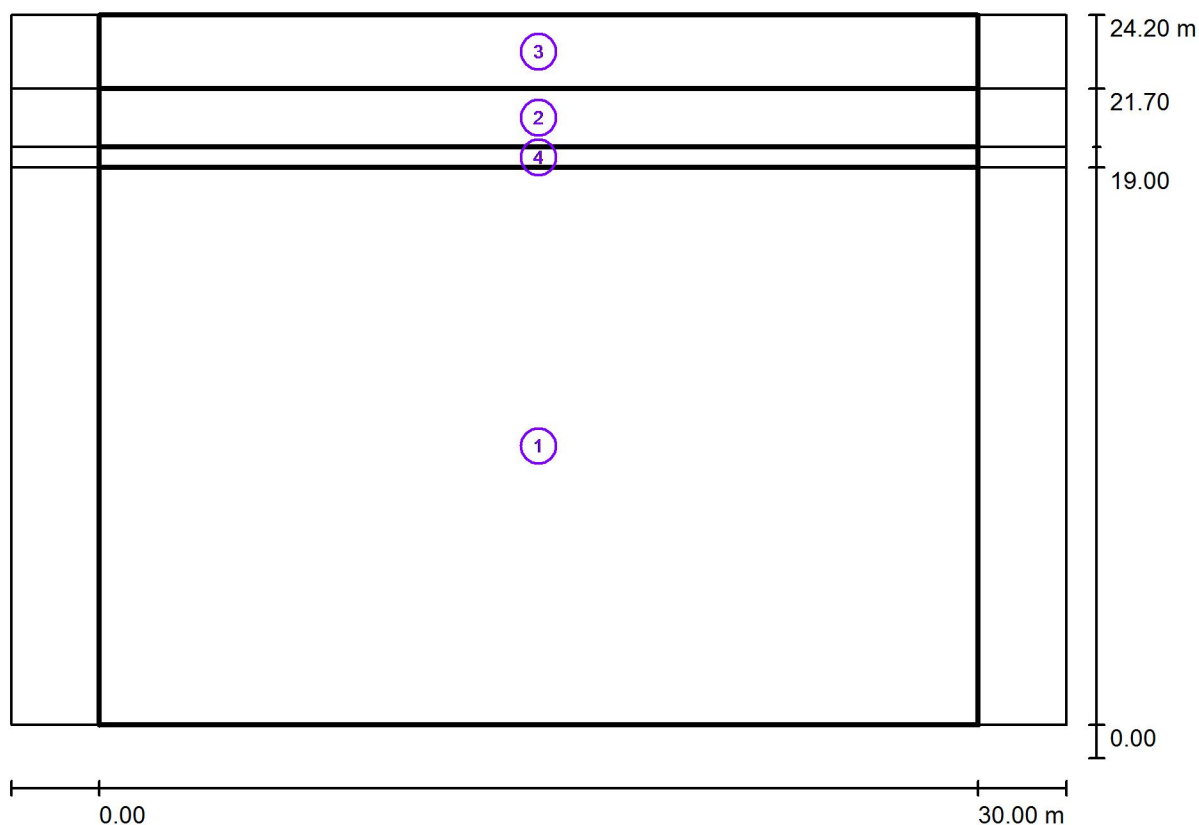
|                            |                                |
|----------------------------|--------------------------------|
| Luminaire:                 | NOVATILU AVENUE M - ALAVML60-E |
| Luminous flux (Luminaire): | 5762 lm                        |
| Luminous flux (Lamps):     | 6000 lm                        |
| Luminaire Wattage:         | 60.0 W                         |
| Arrangement:               | Single row, bottom             |
| Pole Distance:             | 30.000 m                       |
| Mounting Height (1):       | 6.000 m                        |
| Height:                    | 5.807 m                        |
| Overhang (2):              | -0.848 m                       |
| Boom Angle (3):            | 15.0 °                         |
| Boom Length (4):           | 0.200 m                        |
|                            | Maximum luminous intensities   |
|                            | at 70°: 618 cd/klm             |
|                            | at 80°: 1009 cd/klm            |
|                            | at 90°: 38 cd/klm              |

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.5.

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### Griezums 3-3 / Photometric Results



Maintenance factor: 0.80

Scale 1:258

#### Calculation Field List

- 1 Tirzniecības zona  
 Length: 30.000 m, Width: 19.000 m  
 Grid: 10 x 13 Points  
 Accompanying Street Elements: Tirzniecības zona.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 11.34                         | 0.41        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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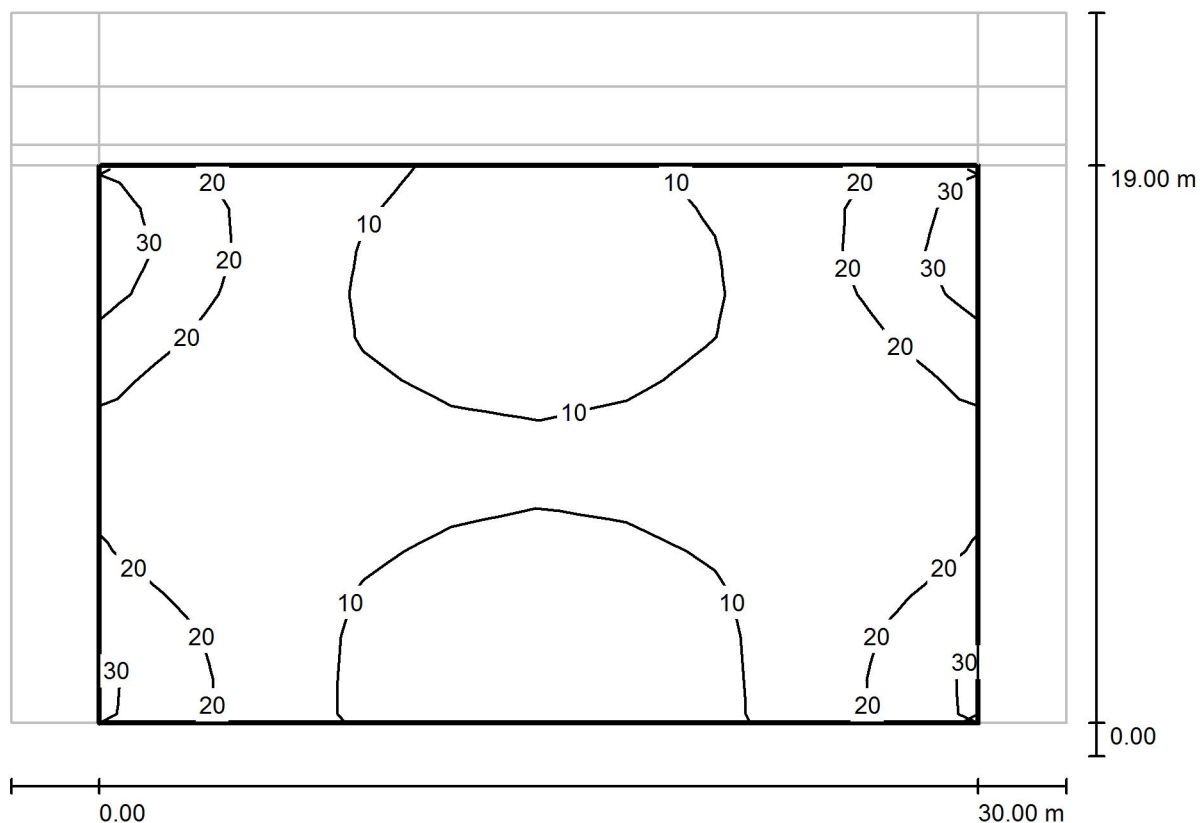
### Griezums 3-3 / Photometric Results

#### Calculation Field List

- 2 Velosipēdistu ceļš  
 Length: 30.000 m, Width: 2.000 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Velosipēdistu ceļš.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 10.58                         | 0.55        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 3 Gājēju ceļš  
 Length: 30.000 m, Width: 2.500 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Gājēju ceļš.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 9.40                          | 0.54        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 4 Zaļa zona  
 Length: 30.000 m, Width: 0.700 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Zaļa zona.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 10.80                         | 0.69        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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### Griezums 3-3 / Tirzniecības zona / Isolines (E)



Values in Lux, Scale 1 : 258

Grid: 10 x 13 Points

$E_{av}$  [lx]  
14

$E_{min}$  [lx]  
4.45

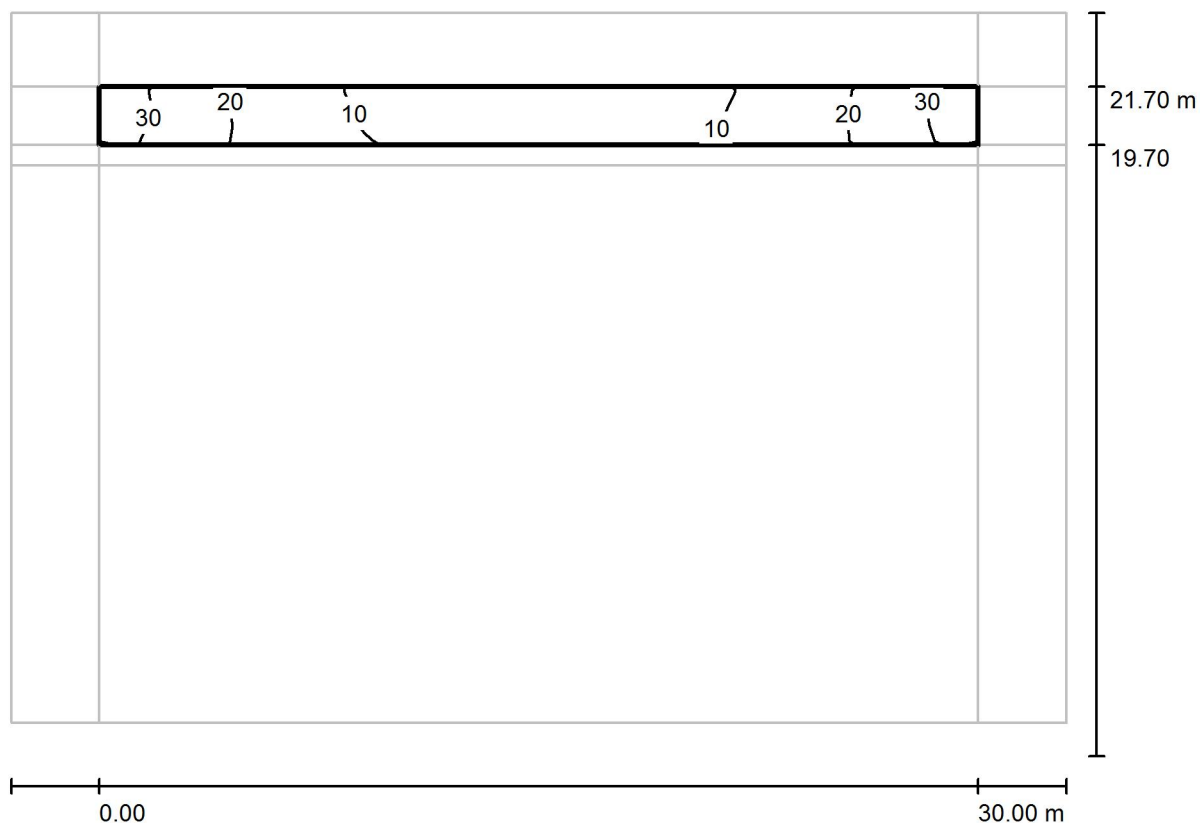
$E_{max}$  [lx]  
32

$u_0$   
0.325

$E_{min} / E_{max}$   
0.140

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### Griezums 3-3 / Velosipēdistu ceļš / Isolines (E)

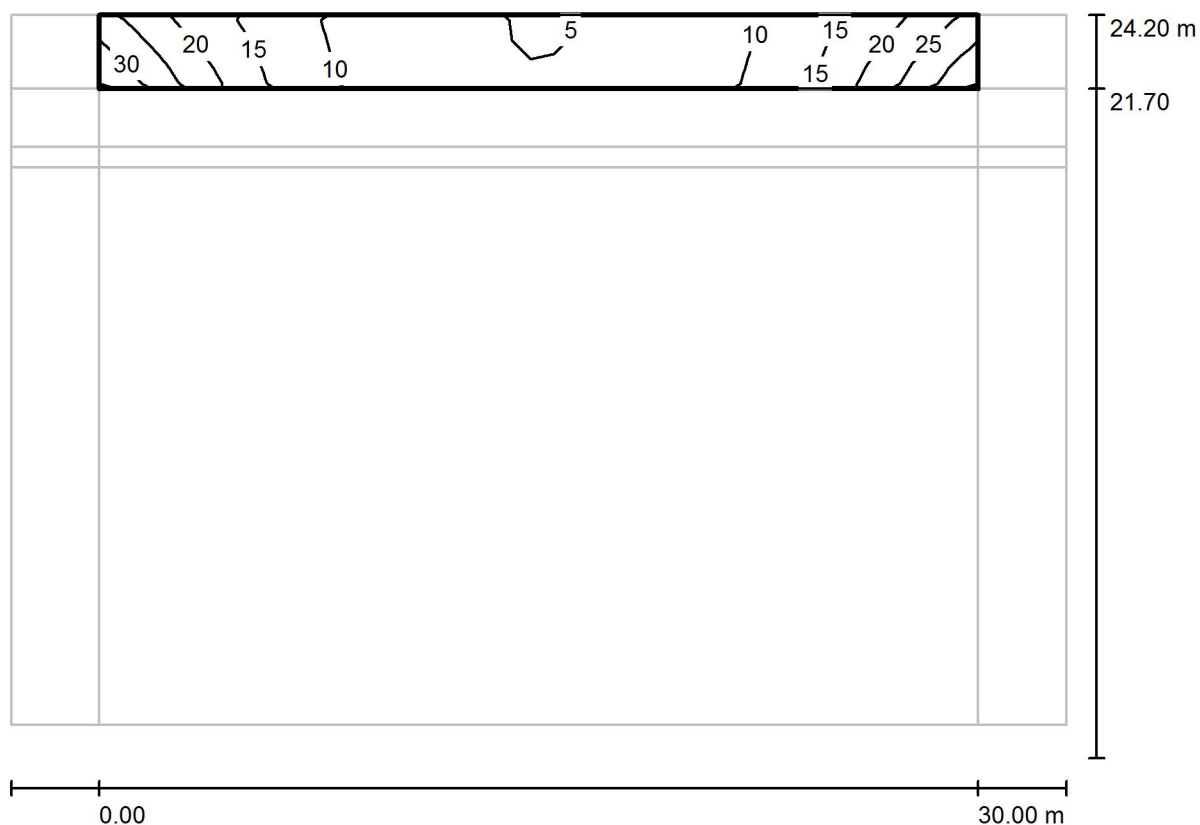


Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

|               |                |                |       |                     |
|---------------|----------------|----------------|-------|---------------------|
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | $u_0$ | $E_{min} / E_{max}$ |
| 15            | 5.56           | 31             | 0.372 | 0.178               |

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**Griezums 3-3 / Gājēju ceļš / Isolines (E)**

Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

 $E_{av}$  [lx]  
 13

 $E_{min}$  [lx]  
 4.71

 $E_{max}$  [lx]  
 29

 $u_0$   
 0.369

 $E_{min} / E_{max}$   
 0.161

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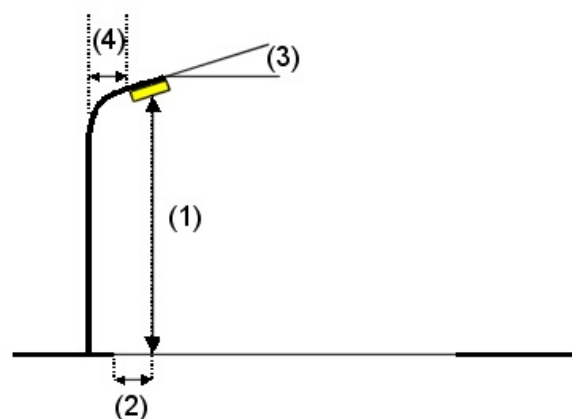
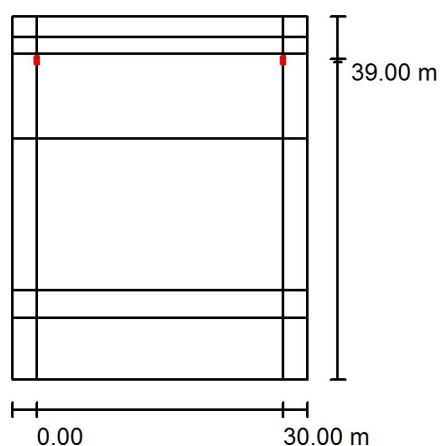
## Griezums 4-4 / Planning data

### Street Profile

|                    |                   |
|--------------------|-------------------|
| Gājēju ceļš        | (Width: 2.500 m)  |
| Velosipēdistu ceļš | (Width: 2.000 m)  |
| Zaļa zona 1        | (Width: 10.300 m) |
| Tirzniecības zona  | (Width: 18.500 m) |
| Zaļa zona 2        | (Width: 3.300 m)  |
| Atpūtas zona       | (Width: 7.500 m)  |

Maintenance factor: 0.80

### Luminaire Arrangements



|                            |                                |
|----------------------------|--------------------------------|
| Luminaire:                 | NOVATILU AVENUE M - ALAVML60-E |
| Luminous flux (Luminaire): | 5762 lm                        |
| Luminous flux (Lamps):     | 6000 lm                        |
| Luminaire Wattage:         | 60.0 W                         |
| Arrangement:               | Single row, top                |
| Pole Distance:             | 30.000 m                       |
| Mounting Height (1):       | 6.000 m                        |
| Height:                    | 5.807 m                        |
| Overhang (2):              | 5.552 m                        |
| Boom Angle (3):            | 15.0 °                         |
| Boom Length (4):           | 0.200 m                        |

Maximum luminous intensities  
 at 70°: 618 cd/klm  
 at 80°: 1009 cd/klm  
 at 90°: 38 cd/klm

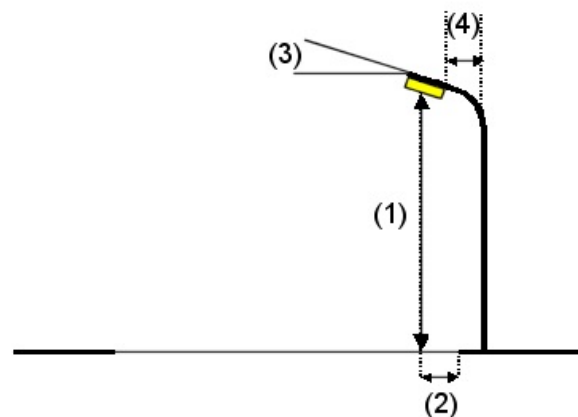
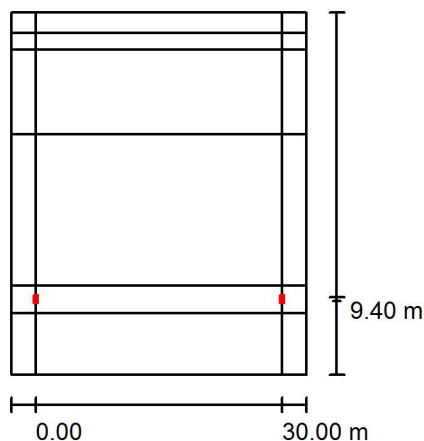
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.5.

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## Griezums 4-4 / Planning data

### Luminaire Arrangements



|                            |                                |
|----------------------------|--------------------------------|
| Luminaire:                 | NOVATILU AVENUE M - ALAVML60-E |
| Luminous flux (Luminaire): | 5762 lm                        |
| Luminous flux (Lamps):     | 6000 lm                        |
| Luminaire Wattage:         | 60.0 W                         |
| Arrangement:               | Single row, bottom             |
| Pole Distance:             | 30.000 m                       |
| Mounting Height (1):       | 6.000 m                        |
| Height:                    | 5.807 m                        |
| Overhang (2):              | 9.452 m                        |
| Boom Angle (3):            | 15.0 °                         |
| Boom Length (4):           | 0.200 m                        |
|                            | Maximum luminous intensities   |
|                            | at 70°: 618 cd/klm             |
|                            | at 80°: 1009 cd/klm            |
|                            | at 90°: 38 cd/klm              |

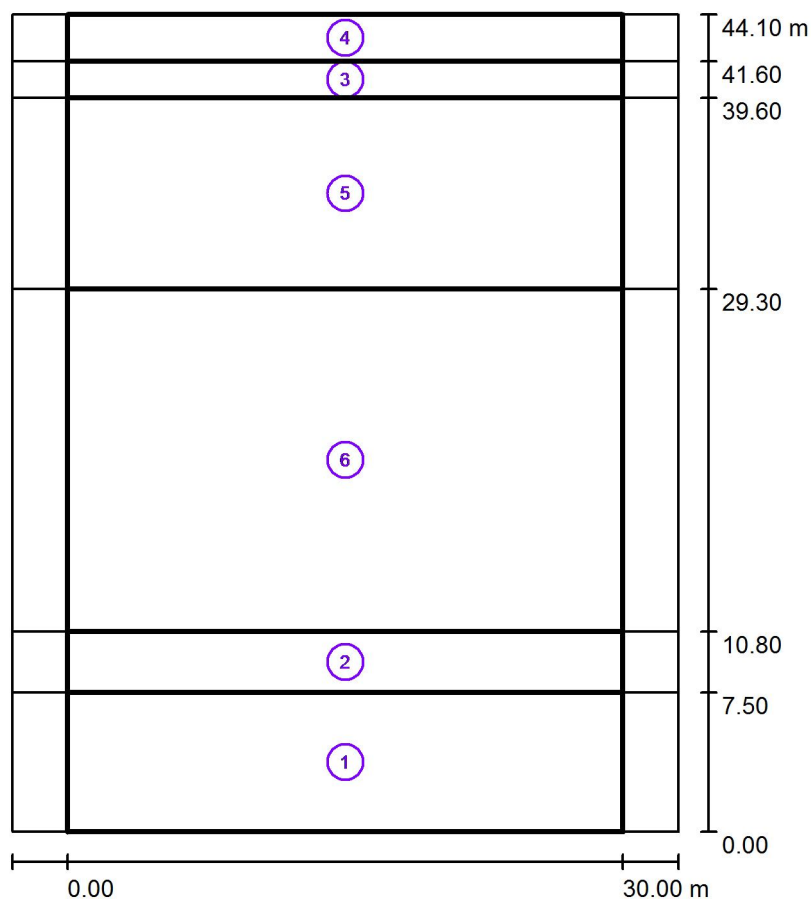
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.5.



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### Griezums 4-4 / Photometric Results



Maintenance factor: 0.80

Scale 1:409

#### Calculation Field List

- 1 Atpūtas zona  
 Length: 30.000 m, Width: 7.500 m  
 Grid: 10 x 5 Points  
 Accompanying Street Elements: Atpūtas zona.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 8.50                          | 0.55        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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## Griezums 4-4 / Photometric Results

### Calculation Field List

- 2 Zaļa zona 2  
 Length: 30.000 m, Width: 3.300 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Zaļa zona 2.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 10.07                         | 0.68        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 3 Velosipēdistu ceļš  
 Length: 30.000 m, Width: 2.000 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Velosipēdistu ceļš.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 9.95                          | 0.57        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 4 Gājēju ceļš  
 Length: 30.000 m, Width: 2.500 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Gājēju ceļš.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 8.97                          | 0.51        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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## Griezums 4-4 / Photometric Results

### Calculation Field List

5 Zaļa zona 1

Length: 30.000 m, Width: 10.300 m

Grid: 10 x 7 Points

Accompanying Street Elements: Zaļa zona 1.

Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 9.37                          | 0.55        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

6 Tirzniecības zona

Length: 30.000 m, Width: 18.500 m

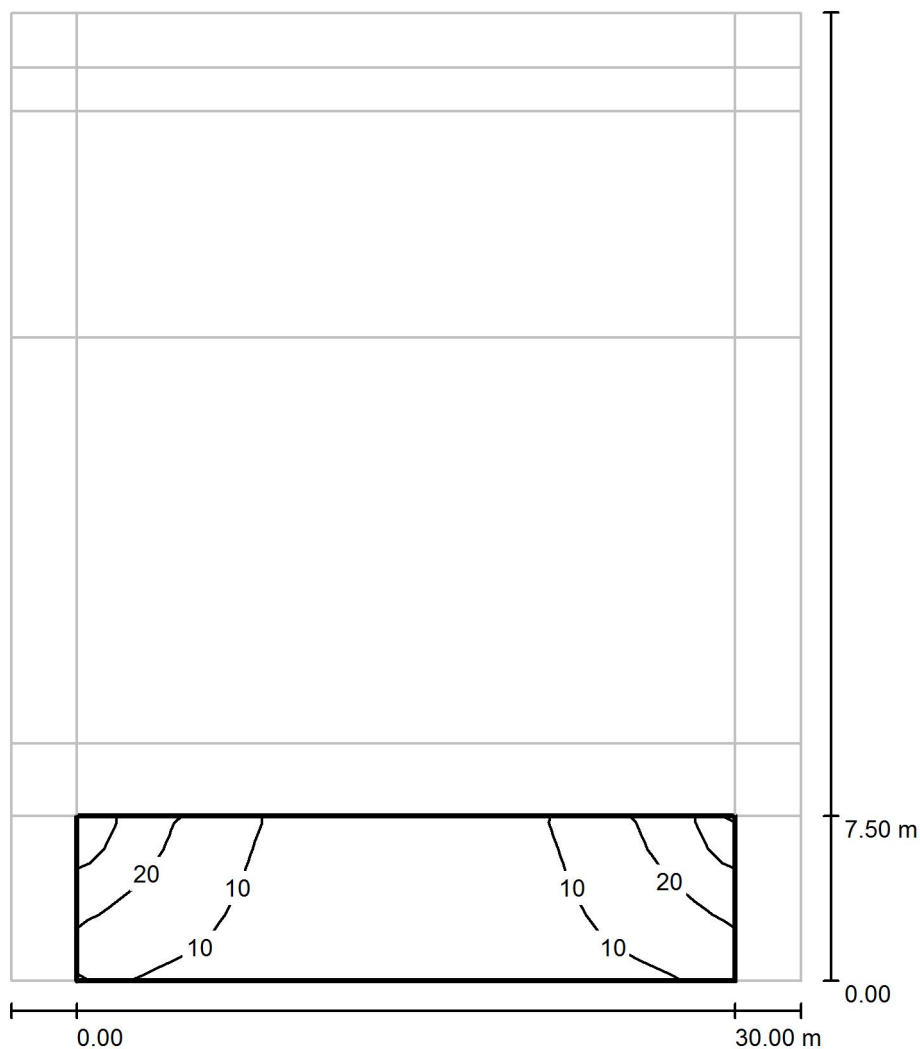
Grid: 10 x 13 Points

Accompanying Street Elements: Tirzniecības zona.

Selected Lighting Class: CE5 (All lighting performance requirements are met.)

|                                     | $E_{av}$ [lx] | U0          |
|-------------------------------------|---------------|-------------|
| Calculated values:                  | 8.50          | 0.48        |
| Required values according to class: | $\geq 7.50$   | $\geq 0.40$ |
| Fulfilled/Not fulfilled:            | ✓             | ✓           |

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**Griezums 4-4 / Atpūtas zona / Isolines (E)**

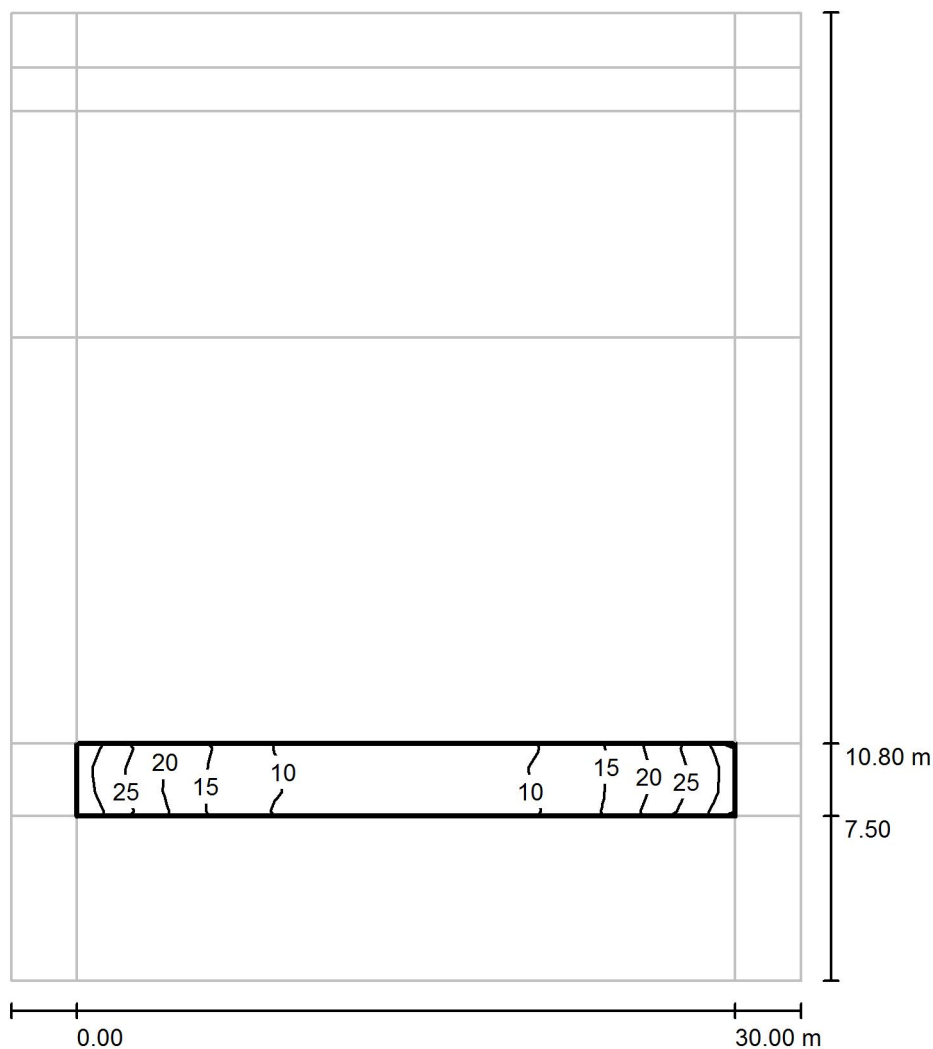
Values in Lux, Scale 1 : 345

Grid: 10 x 5 Points

 $E_{av}$  [lx]  
11 $E_{min}$  [lx]  
4.52 $E_{max}$  [lx]  
31 $u0$   
0.402 $E_{min} / E_{max}$   
0.148

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## Griezums 4-4 / Zaļa zona 2 / Isolines (E)



Values in Lux, Scale 1 : 345

Grid: 10 x 3 Points

$E_{av}$  [lx]  
15

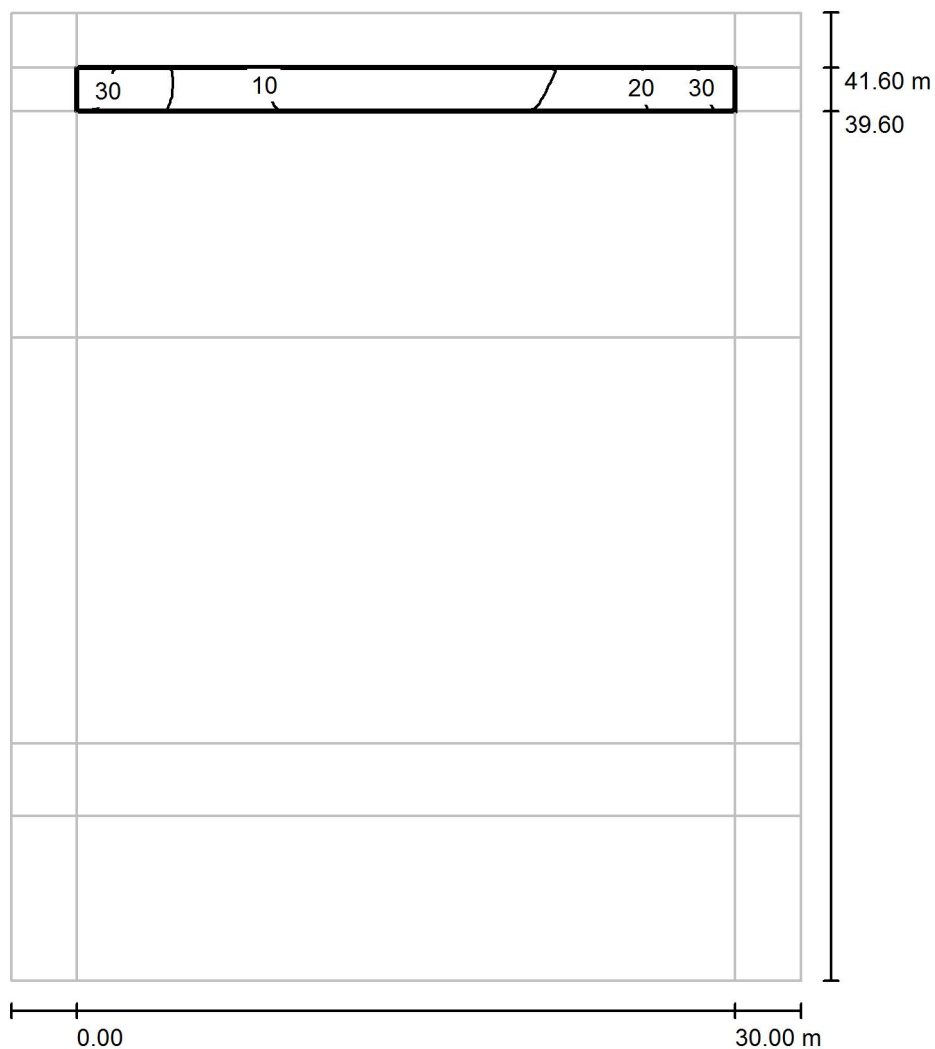
$E_{min}$  [lx]  
6.92

$E_{max}$  [lx]  
29

$u0$   
0.474

$E_{min} / E_{max}$   
0.242

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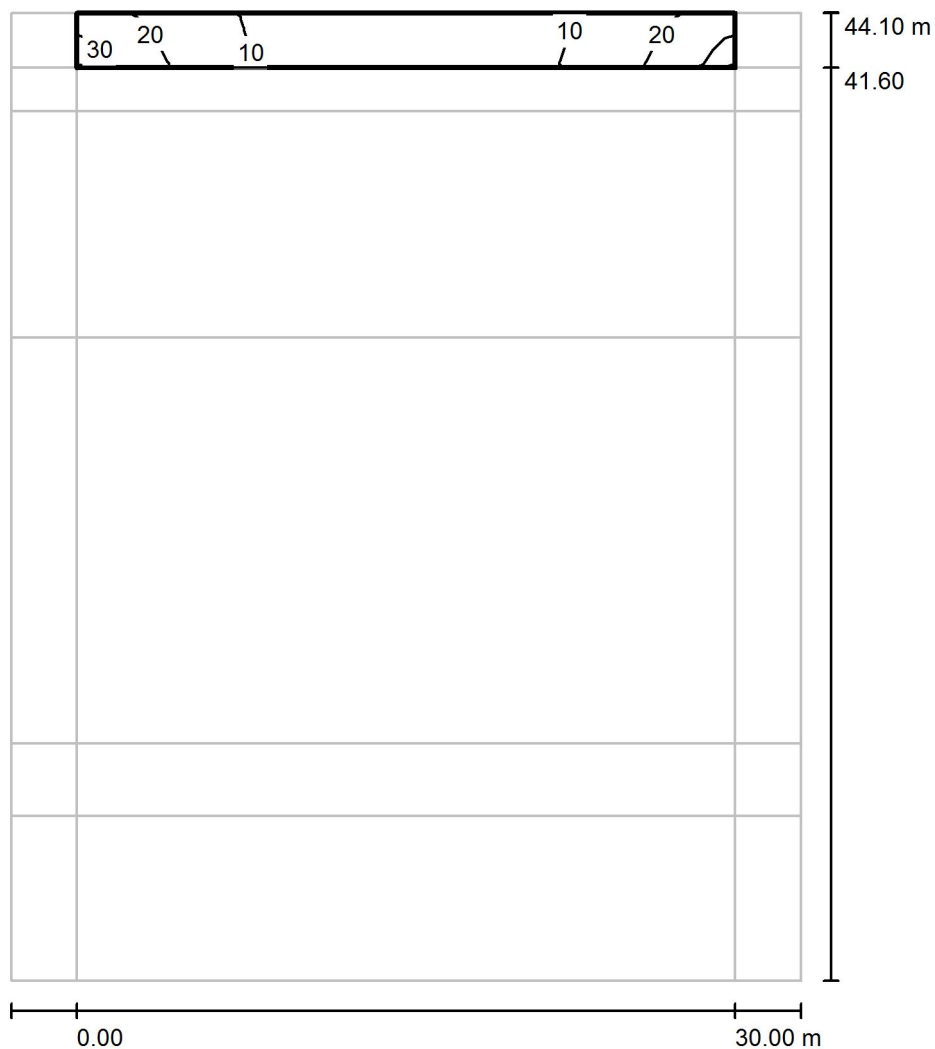
**Griezums 4-4 / Velosipēdistu ceļš / Isolines (E)**

Values in Lux, Scale 1 : 345

Grid: 10 x 3 Points

 $E_{av}$  [lx]  
15 $E_{min}$  [lx]  
5.60 $E_{max}$  [lx]  
31 $u_0$   
0.384 $E_{min} / E_{max}$   
0.183

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**Griezums 4-4 / Gājēju ceļš / Isolines (E)**

Values in Lux, Scale 1 : 345

Grid: 10 x 3 Points

 $E_{av}$  [lx]  
13 $E_{min}$  [lx]  
4.43 $E_{max}$  [lx]  
30 $u_0$   
0.349 $E_{min} / E_{max}$   
0.150

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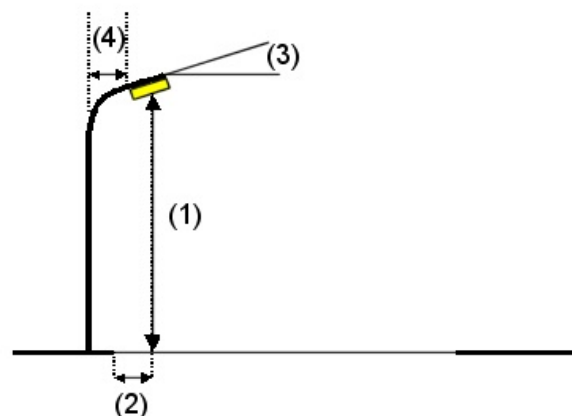
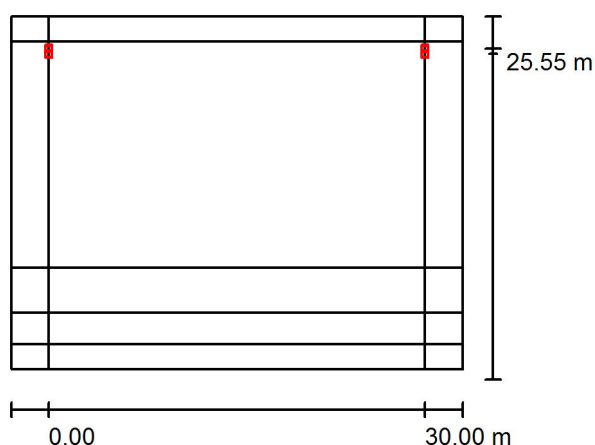
## Griezums 5-5 / Planning data

### Street Profile

|                    |                   |
|--------------------|-------------------|
| Gājēju ceļš 1      | (Width: 2.000 m)  |
| Bērnu laukums      | (Width: 18.000 m) |
| Zaļa zona          | (Width: 3.600 m)  |
| Gājēju ceļš 2      | (Width: 2.500 m)  |
| Velosipēdistu ceļš | (Width: 2.000 m)  |

Maintenance factor: 0.80

### Luminaire Arrangements



Luminaire:  
Luminous flux (Luminaire): 5762 lm  
Luminous flux (Lamps): 6000 lm  
Luminaire Wattage: 60.0 W  
Arrangement: Single row, top  
Pole Distance: 30.000 m  
Mounting Height (1): 6.000 m  
Height: 5.807 m  
Overhang (2): 3.002 m  
Boom Angle (3): 15.0 °  
Boom Length (4): 0.200 m

NOVATILU AVENUE M - ALAVML60-E

Maximum luminous intensities  
at 70°: 618 cd/klm  
at 80°: 1009 cd/klm  
at 90°: 38 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

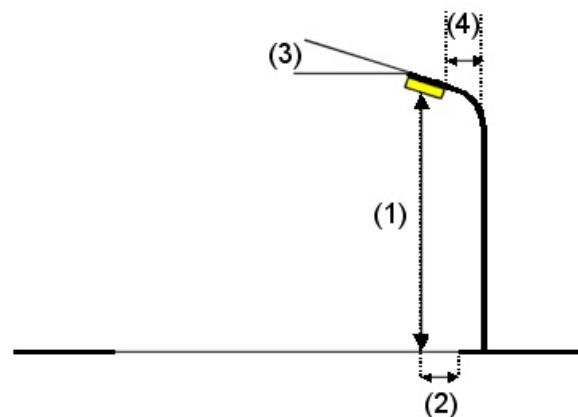
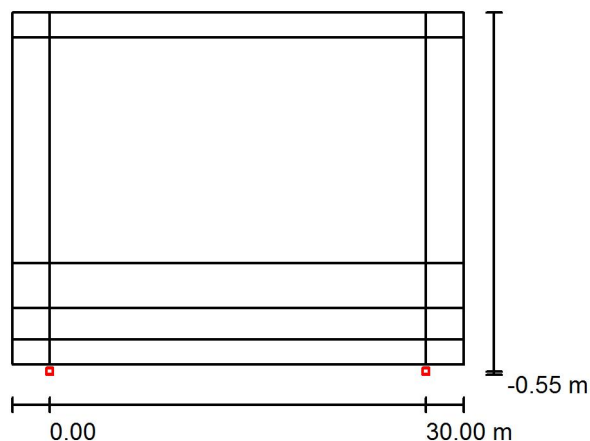
Arrangement complies with glare index class D.5.



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## Griezums 5-5 / Planning data

### Luminaire Arrangements



|                            |                                |
|----------------------------|--------------------------------|
| Luminaire:                 | NOVATILU AVENUE M - ALAVML60-E |
| Luminous flux (Luminaire): | 5762 lm                        |
| Luminous flux (Lamps):     | 6000 lm                        |
| Luminaire Wattage:         | 60.0 W                         |
| Arrangement:               | Single row, bottom             |
| Pole Distance:             | 30.000 m                       |
| Mounting Height (1):       | 6.000 m                        |
| Height:                    | 5.807 m                        |
| Overhang (2):              | -0.498 m                       |
| Boom Angle (3):            | 15.0 °                         |
| Boom Length (4):           | 0.200 m                        |

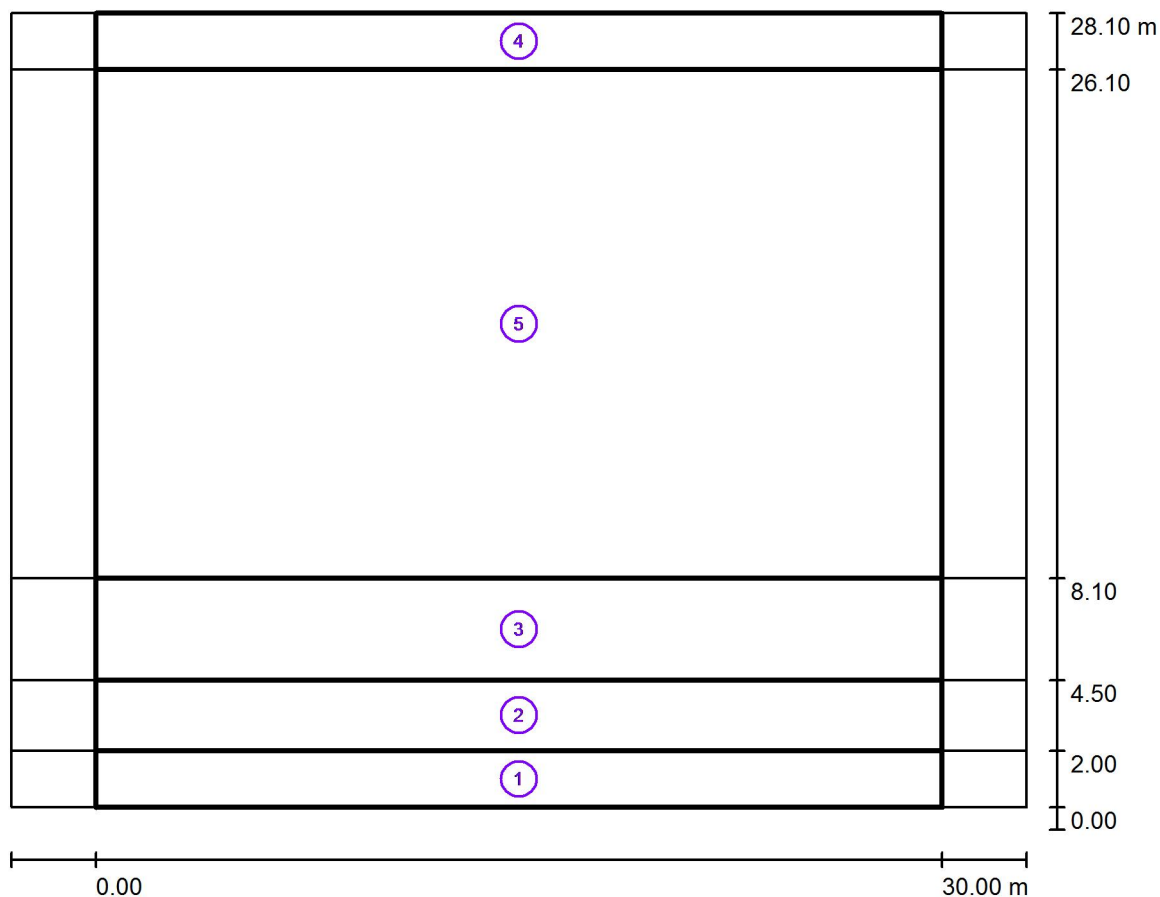
Maximum luminous intensities  
 at 70°: 618 cd/klm  
 at 80°: 1009 cd/klm  
 at 90°: 38 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.5.

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## Griezums 5-5 / Photometric Results



Maintenance factor: 0.80

Scale 1:268

### Calculation Field List

- 1 Velosipēdistu ceļš  
 Length: 30.000 m, Width: 2.000 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Velosipēdistu ceļš.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 8.28                          | 0.54        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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## Griezums 5-5 / Photometric Results

### Calculation Field List

- 2 Gājēju ceļš 2  
 Length: 30.000 m, Width: 2.500 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Gājēju ceļš 2.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 8.75                          | 0.51        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 3 Zaļa zona  
 Length: 30.000 m, Width: 3.600 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Zaļa zona.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 8.70                          | 0.60        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |
- 4 Gājēju ceļš 1  
 Length: 30.000 m, Width: 2.000 m  
 Grid: 10 x 3 Points  
 Accompanying Street Elements: Gājēju ceļš 1.  
 Selected Lighting Class: A4 (All lighting performance requirements are met.)
- |                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 10.09                         | 0.58        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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**Griezums 5-5 / Photometric Results**

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**Calculation Field List**

## 5 Bērnu laukums

Length: 30.000 m, Width: 18.000 m

Grid: 10 x 12 Points

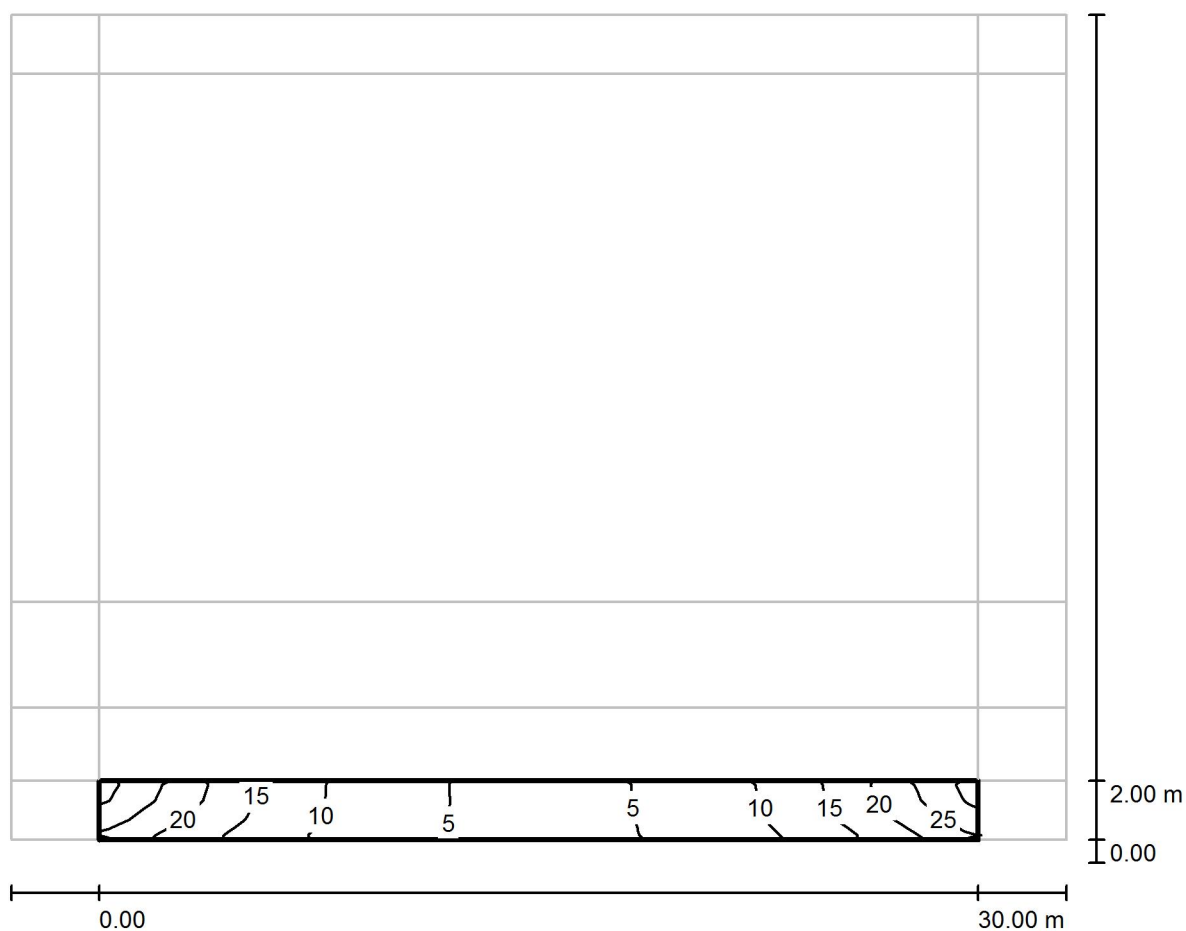
Accompanying Street Elements: Bērnu laukums.

Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 9.28                          | 0.55        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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## Griezums 5-5 / Velosipēdistu ceļš / Isolines (E)



Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

$E_{av}$  [lx]  
12

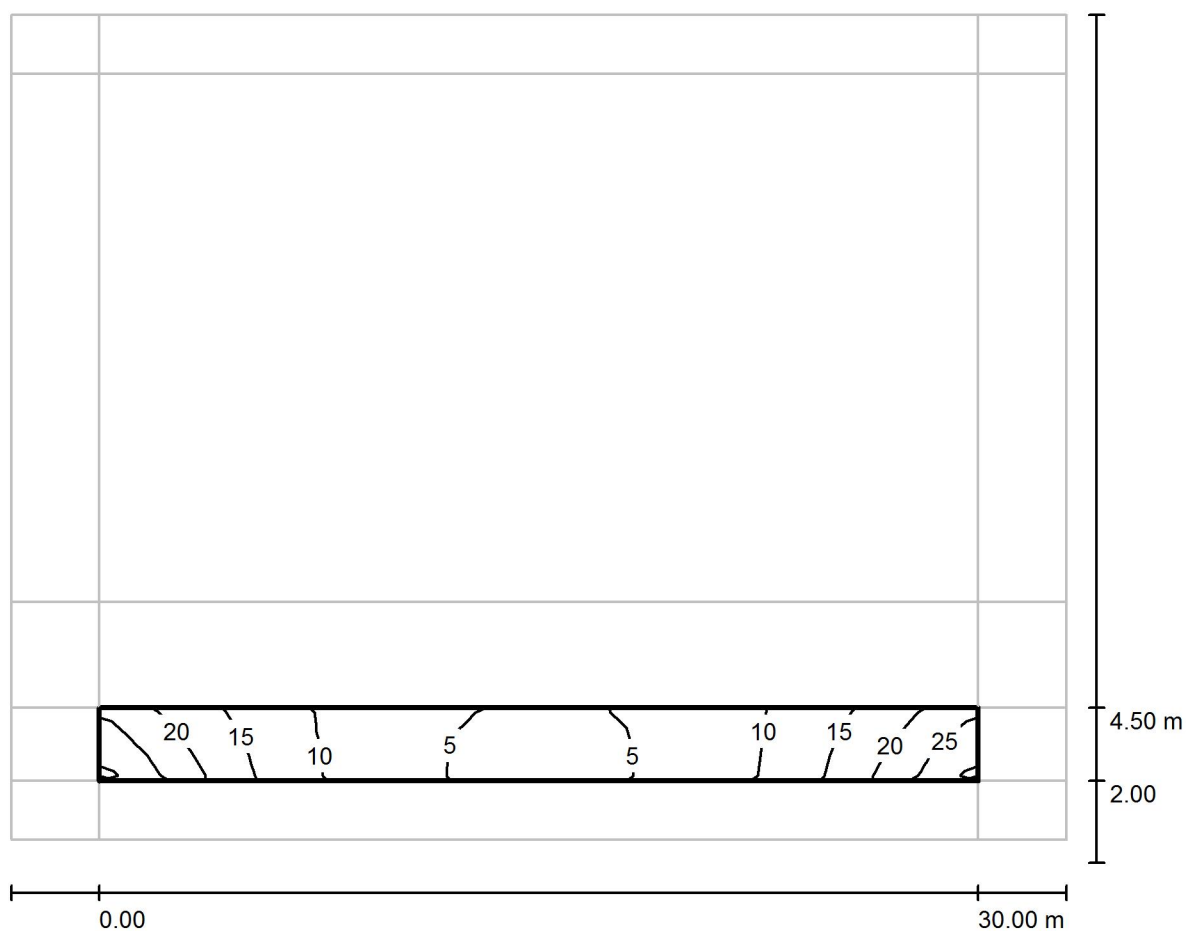
$E_{min}$  [lx]  
4.14

$E_{max}$  [lx]  
27

$u_0$   
0.346

$E_{min} / E_{max}$   
0.152

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**Griezums 5-5 / Gājēju ceļš 2 / Isolines (E)**

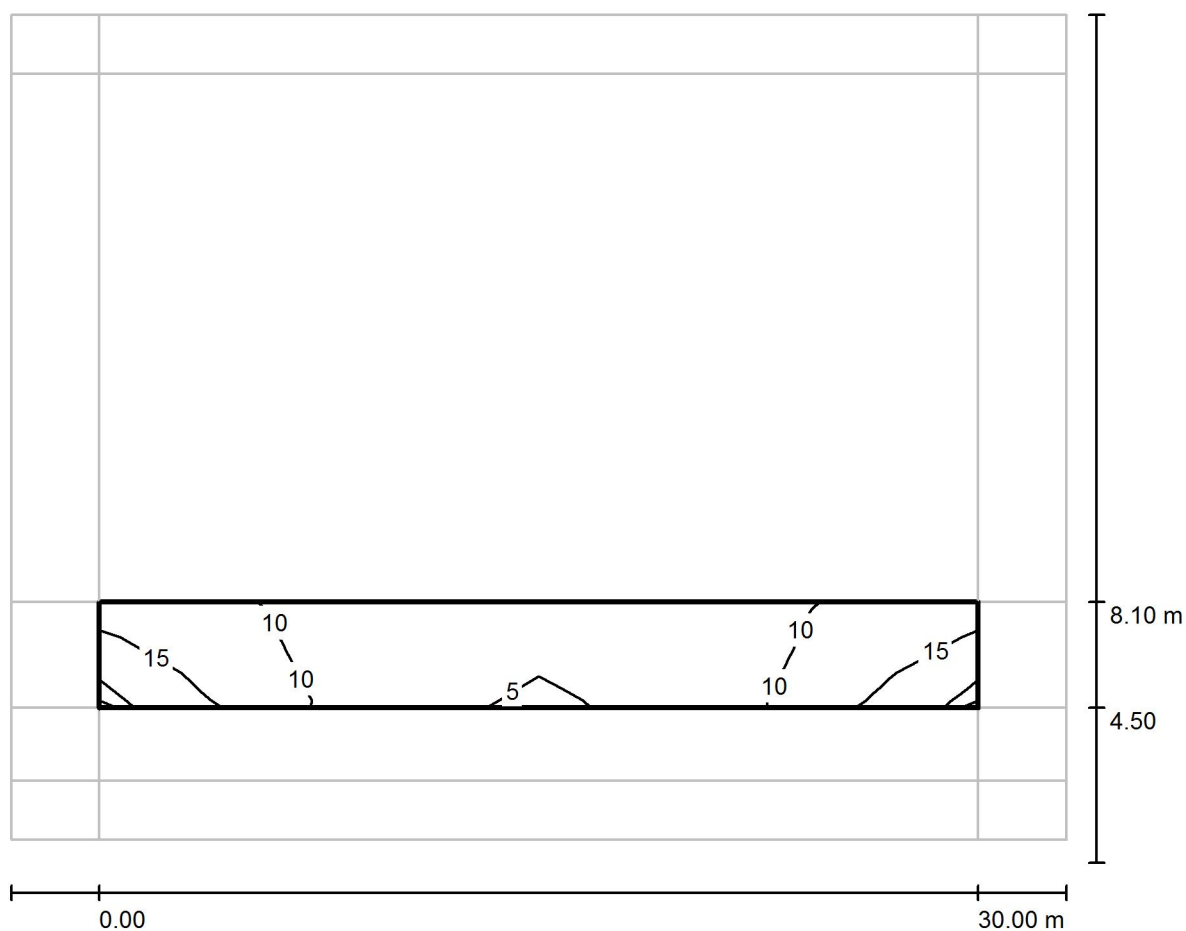
Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

 $E_{av}$  [lx]  
12 $E_{min}$  [lx]  
4.08 $E_{max}$  [lx]  
27 $u_0$   
0.346 $E_{min} / E_{max}$   
0.153

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## Griezums 5-5 / Zaļa zona / Isolines (E)



Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

$E_{av}$  [lx]  
9.72

$E_{min}$  [lx]  
4.78

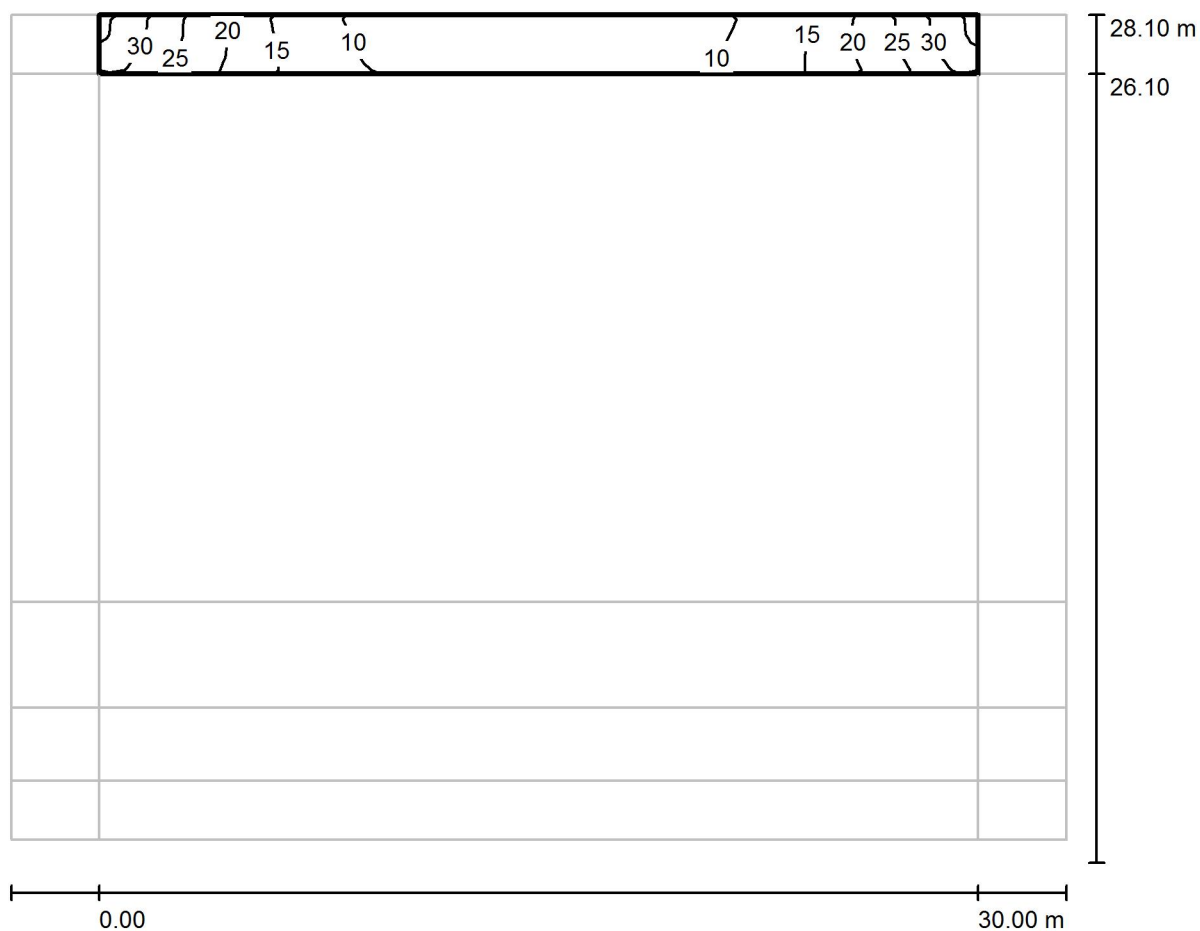
$E_{max}$  [lx]  
18

$u0$   
0.492

$E_{min} / E_{max}$   
0.259

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### Griezums 5-5 / Gājēju ceļš 1 / Isolines (E)



Values in Lux, Scale 1 : 258

Grid: 10 x 3 Points

$E_{av}$  [lx]  
15

$E_{min}$  [lx]  
5.76

$E_{max}$  [lx]  
31

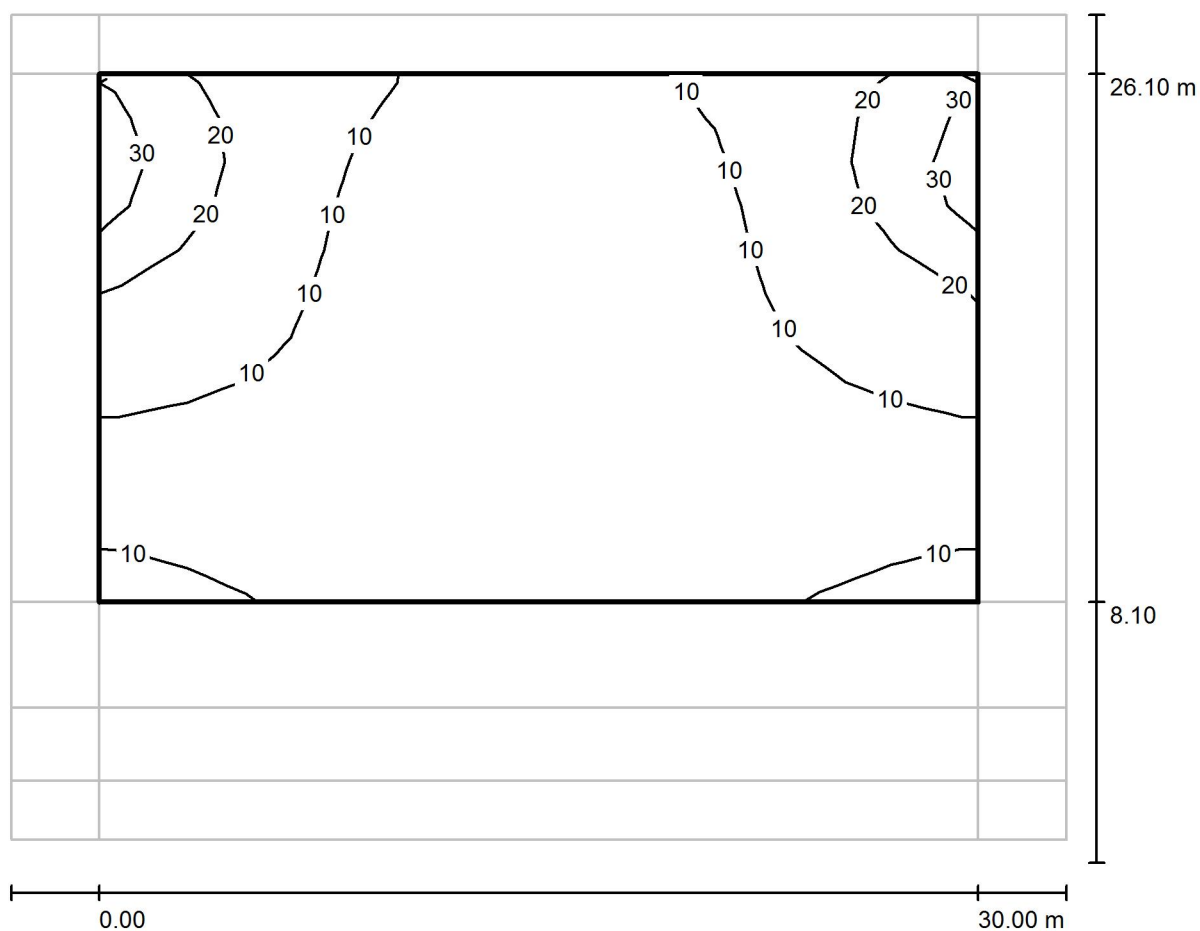
$u_0$   
0.393

$E_{min} / E_{max}$   
0.188



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**Griezums 5-5 / Bērnus laukums / Isolines (E)**



Values in Lux, Scale 1 : 258

Grid: 10 x 12 Points

$E_{av}$  [lx]  
11

$E_{min}$  [lx]  
4.75

$E_{max}$  [lx]  
30

$u_0$   
0.451

$E_{min} / E_{max}$   
0.156

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## Griezums 6-6 / Planning data

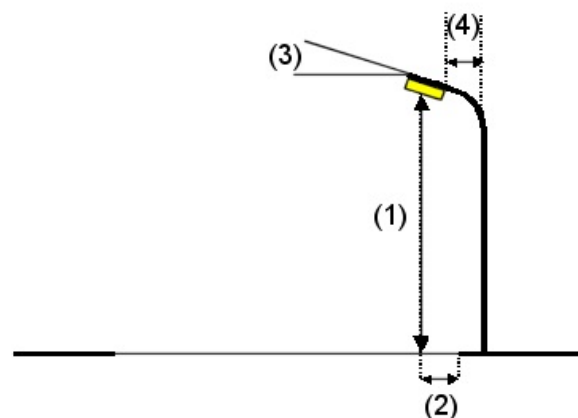
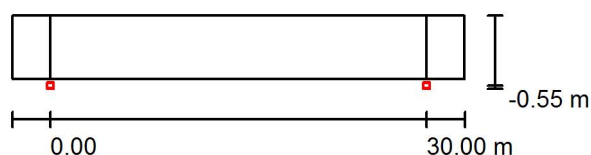
### Street Profile

Gājēju ceļš

(Width: 5.000 m)

Maintenance factor: 0.80

### Luminaire Arrangements



Luminaire: NOVATILU AVENUE M - ALAVML60-E  
 Luminous flux (Luminaire): 5762 lm  
 Luminous flux (Lamps): 6000 lm  
 Luminaire Wattage: 60.0 W  
 Arrangement: Single row, bottom  
 Pole Distance: 30.000 m  
 Mounting Height (1): 6.000 m  
 Height: 5.807 m  
 Overhang (2): -0.498 m  
 Boom Angle (3): 15.0 °  
 Boom Length (4): 0.200 m

Maximum luminous intensities

at 70°: 618 cd/klm

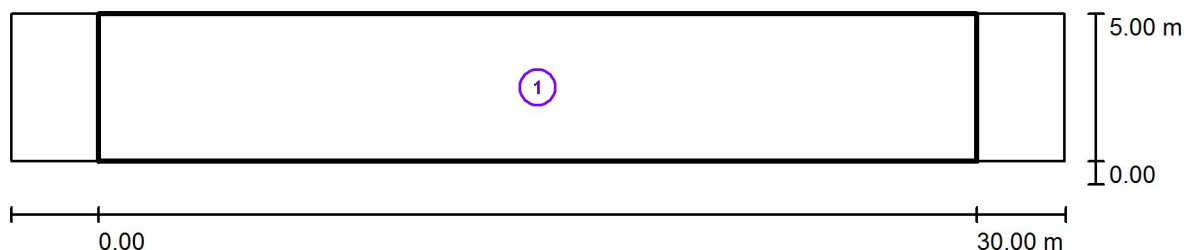
at 80°: 1009 cd/klm

at 90°: 38 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.5.

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**Griezums 6-6 / Photometric Results**

Maintenance factor: 0.80

Scale 1:258

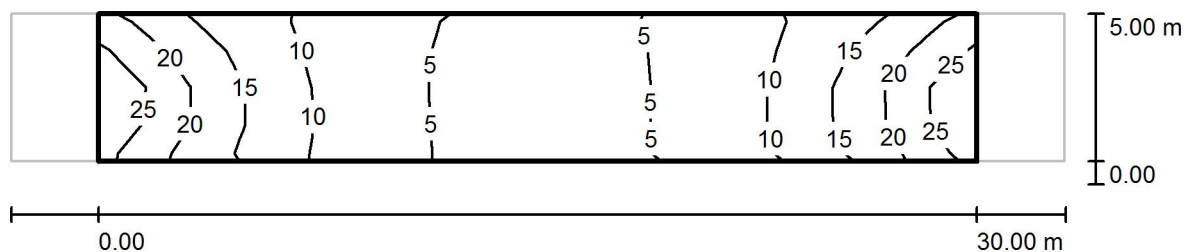
**Calculation Field List**

- 1 Gājēju ceļš  
Length: 30.000 m, Width: 5.000 m  
Grid: 10 x 4 Points  
Accompanying Street Elements: Gājēju ceļš.  
Selected Lighting Class: A4 (All lighting performance requirements are met.)

|                                     | $E_{av}$ (hemispherical) [lx] | U0          |
|-------------------------------------|-------------------------------|-------------|
| Calculated values:                  | 7.44                          | 0.45        |
| Required values according to class: | $\geq 1.50$                   | $\geq 0.15$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           |

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### Griezums 6-6 / Gājēju ceļš / Isolines (E)



Values in Lux, Scale 1 : 258

Grid: 10 x 4 Points

$E_{av}$  [lx]  
11

$E_{min}$  [lx]  
3.54

$E_{max}$  [lx]  
27

$u_0$   
0.317

$E_{min} / E_{max}$   
0.133