

**MUNICIPIO DE AUGUSTO DE LIMA**  
**PROJETO LUMINOTECNICO**

**VIA TIPO II**

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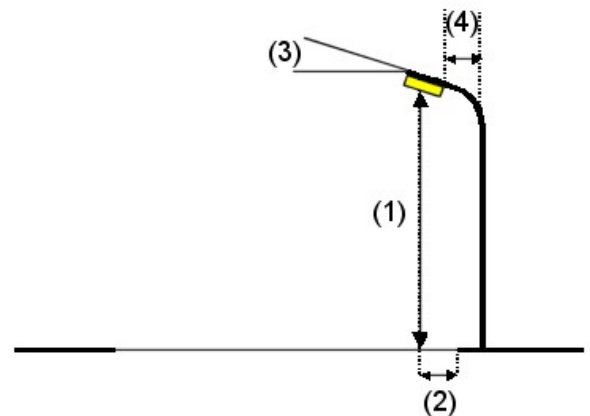
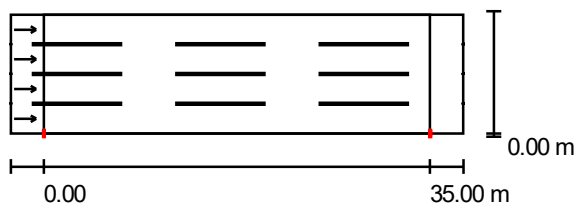
## StreetV2/Planningdata

### Street Profile

Roadway 1 (Width: 10.800 m, Number of lanes: 4, tarmac: R3, q0: 0.070)

Light loss factor: 1.00

### Luminaire Arrangements



|                            |                    |
|----------------------------|--------------------|
| Luminaire:                 | 37 W               |
| Luminous flux (Luminaire): | 6290 lm            |
| Luminous flux (Lamps):     | 6290 lm            |
| Luminaire Wattage:         | 37,0 W             |
| Arrangement:               | Single row, bottom |
| Pole Distance:             | 35.000 m           |
| Mounting Height (1):       | 9.000 m            |
| Height:                    | 9.000 m            |
| Overhang (2):              | 0.000 m            |
| Boom Angle (3):            | 0.0 °              |
| Boom Length (4):           | 2.500 m            |

#### Maximum luminous intensities

at 70°: 717 cd/klm

at 80°: 725 cd/klm

at 90°: 11.82cd/klm

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

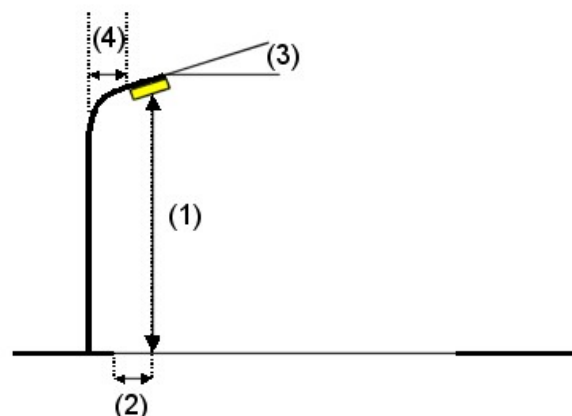
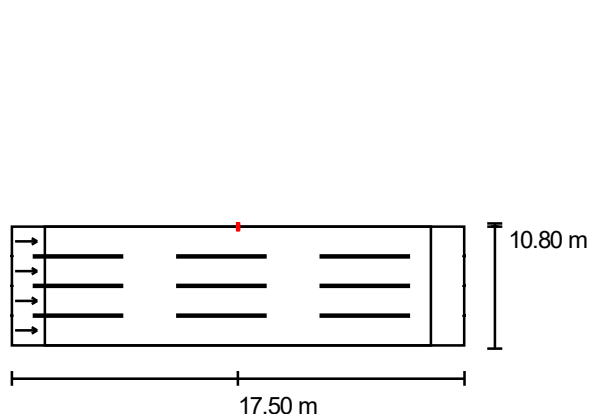
No luminous intensities above 90°.

Arrangement complies with glare index class D.4.

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## StreetV2/Planningdata

### Luminaire Arrangements



Luminaire: 37 W  
 Luminous flux (Luminaire): 6290 lm  
 Luminous flux (Lamps): 6290 lm  
 Luminaire Wattage: 37,0 W  
 Arrangement: Single row, top  
 Pole Distance: 35.000 m  
 Mounting Height (1): 9.000 m  
 Height: 9.000 m  
 Overhang (2): 0.000 m  
 Boom Angle (3): 0.0 °  
 Boom Length (4): 2.500 m

#### Maximum luminous intensities

at 70°: 717 cd/klm  
 at 80°: 725 cd/klm  
 at 90°: 11.82 cd/klm

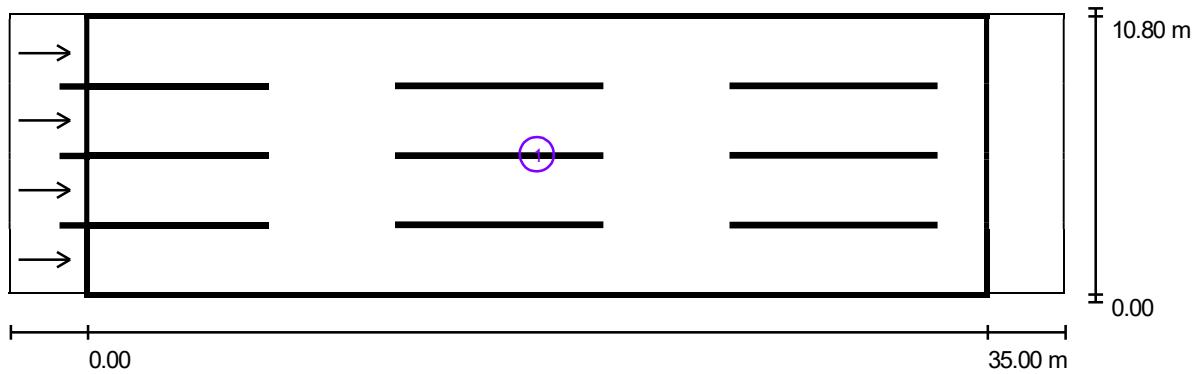
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 90°.

Arrangement complies with glare index class D.4.

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## StreetV2/PhotometricResults



Light loss factor: 1.00

Scale 1:294

### Calculation Field List

- Valuation Field Roadway 1  
Length: 35.000 m, Width: 10.800 m  
Grid: 12 x 12 Points  
Accompanying Street Elements: Roadway 1.  
tarmac: R3, q0: 0.070  
Selected Lighting Class: ME4a

(All lighting performance requirements are met.)

|                                     | $L_{av}$ [cd/m <sup>2</sup> ] | U0          | UI          | TI [%]    | SR          |
|-------------------------------------|-------------------------------|-------------|-------------|-----------|-------------|
| Calculated values:                  | 1.83                          | 0.65        | 0.84        | 14        | 0.73        |
| Required values according to class: | $\geq 0.75$                   | $\geq 0.40$ | $\geq 0.60$ | $\leq 15$ | $\geq 0.50$ |
| Fulfilled/Not fulfilled:            | ✓                             | ✓           | ✓           | ✓         | ✓           |

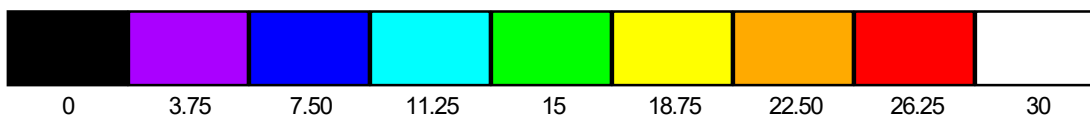
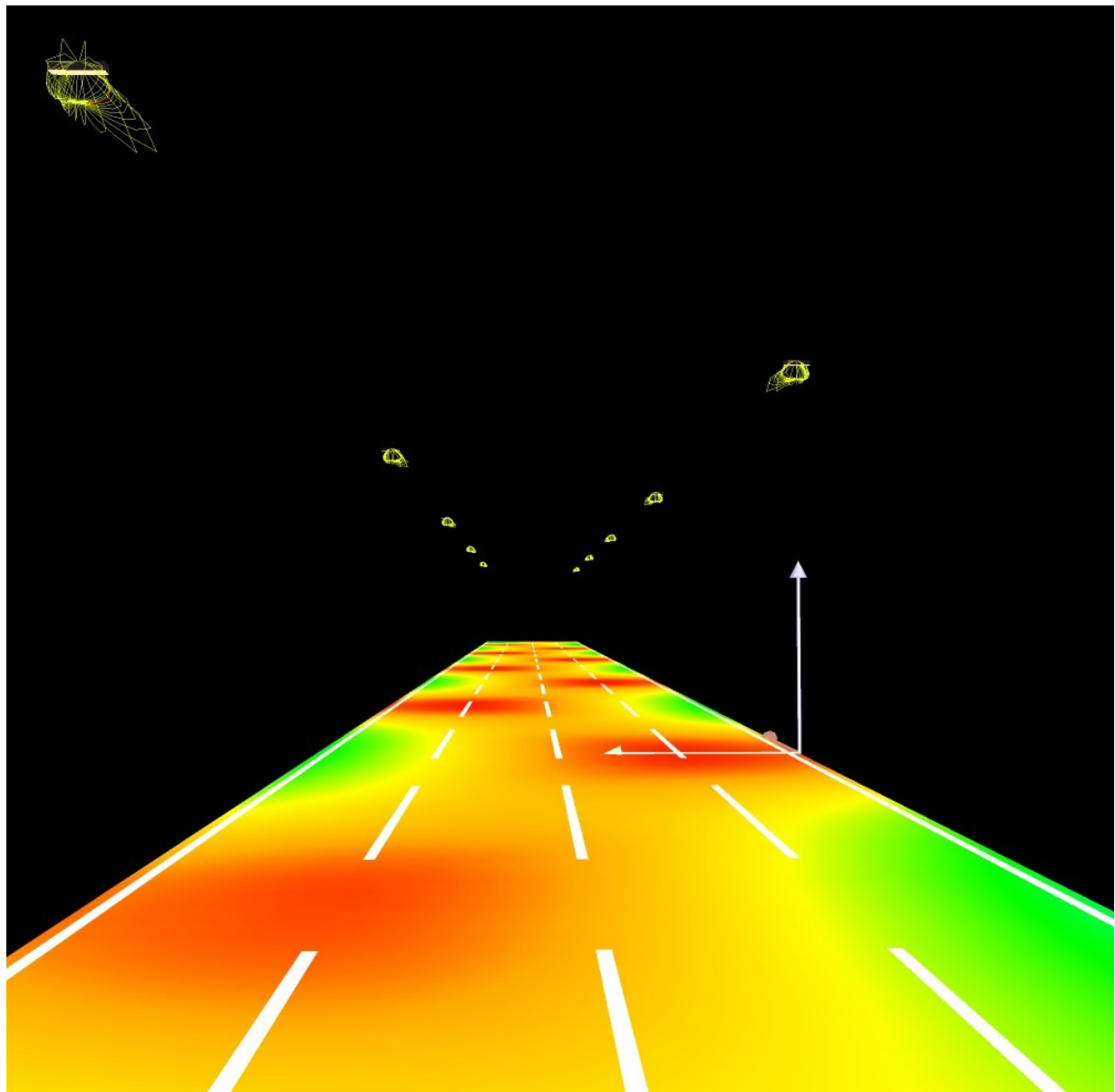
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## StreetV2/3DRendering



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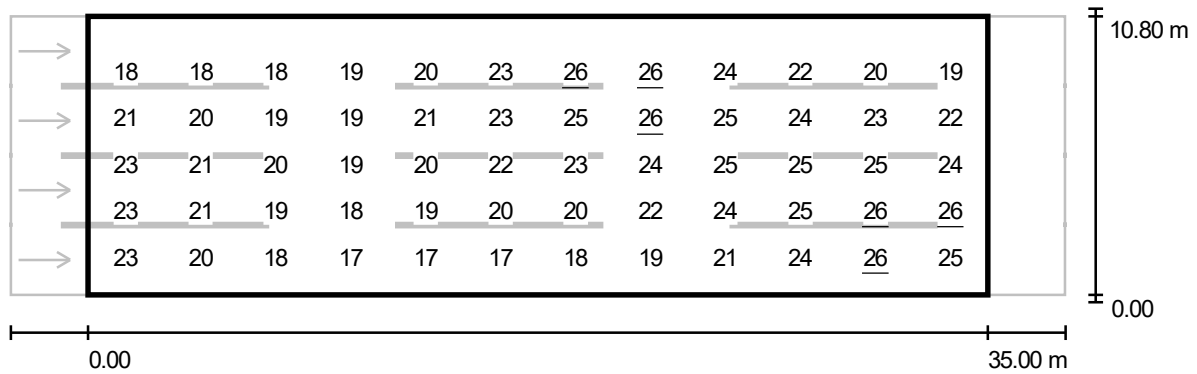
StreetV2/FalseColorRendering



lx

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### StreetV2/ValuationFieldRoadway1/ValueChart(E)



Values in Lux, Scale 1 : 294

Not all calculated values could be displayed.

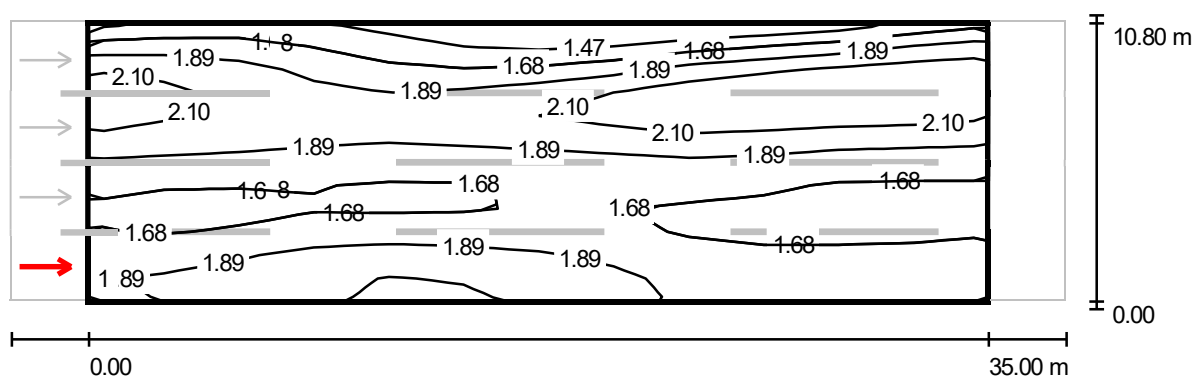
Grid: 12 x 12 Points

|               |                |                |       |                     |
|---------------|----------------|----------------|-------|---------------------|
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | u0    | $E_{min} / E_{max}$ |
| 21            | 15             | 26             | 0.722 | 0.584               |



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### StreetV2/ValuationFieldRoadway1/Observer1/Isolines(L)



Values in Candela/m<sup>2</sup>, Scale 1 : 294

Grid: 12 x 12 Points

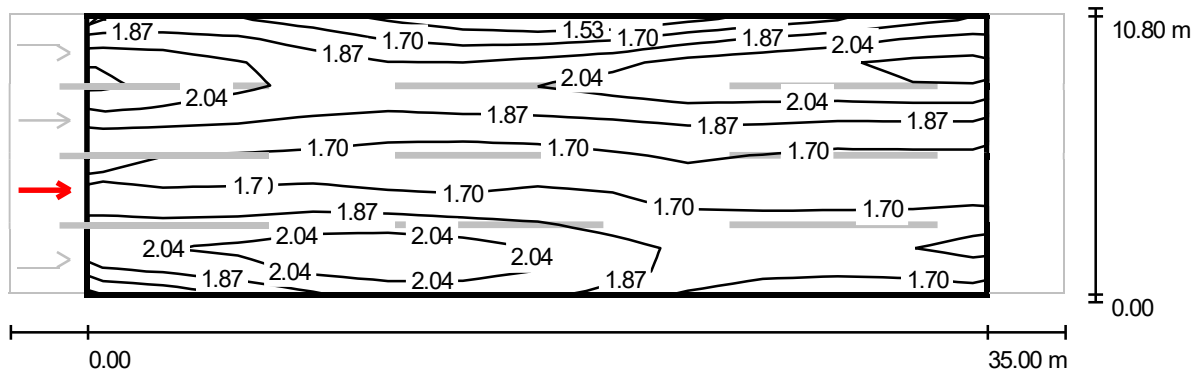
Observer Position: (-60.000 m, 1.350 m, 1.500 m)

tarmac: R3, q0: 0.070

|  | $L_{av}$ [cd/m <sup>2</sup> ] | U0     | UI     | TI [%] |
|--|-------------------------------|--------|--------|--------|
| Calculated values:                       | 1.84                          | 0.69   | 0.84   | 12     |
| Required values according to class ME4a: | ≥ 0.75                        | ≥ 0.40 | ≥ 0.60 | ≤ 15   |
| Fulfilled/Not fulfilled:                 | ✓                             | ✓      | ✓      | ✓      |

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### StreetV2/ValuationFieldRoadway1/Observer2/Isolines(L)



Values in Candela/m<sup>2</sup>, Scale 1 : 294

Grid: 12 x 12 Points

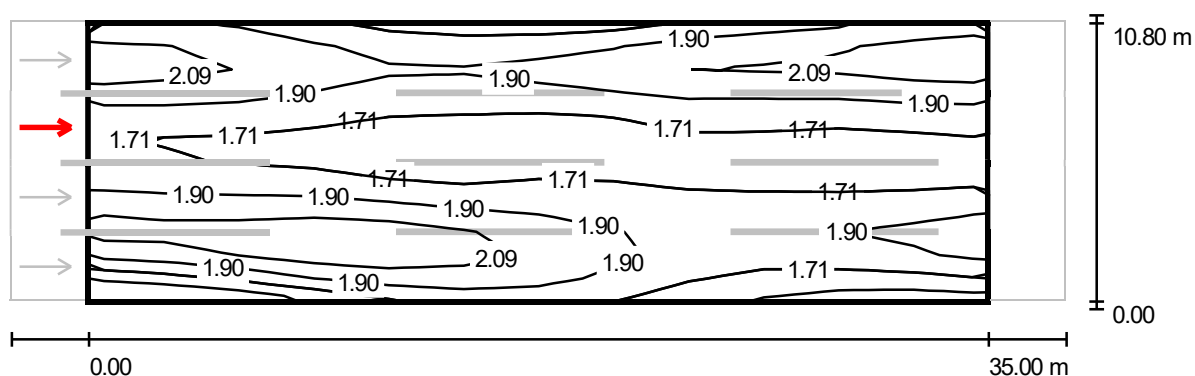
Observer Position: (-60.000 m, 4.050 m, 1.500 m)

tarmac: R3, q0: 0.070

|  | $L_{av}$ [cd/m <sup>2</sup> ] | U0          | UI          | TI [%]    |
|--|-------------------------------|-------------|-------------|-----------|
| Calculated values:                       | 1.86                          | 0.79        | 0.93        | 13        |
| Required values according to class ME4a: | $\geq 0.75$                   | $\geq 0.40$ | $\geq 0.60$ | $\leq 15$ |
| Fulfilled/Not fulfilled:                 | ✓                             | ✓           | ✓           | ✓         |

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### StreetV2/ValuationFieldRoadway1/Observer3/Isolines(L)



Values in Candela/m<sup>2</sup>, Scale 1 : 294

Grid: 12 x 12 Points

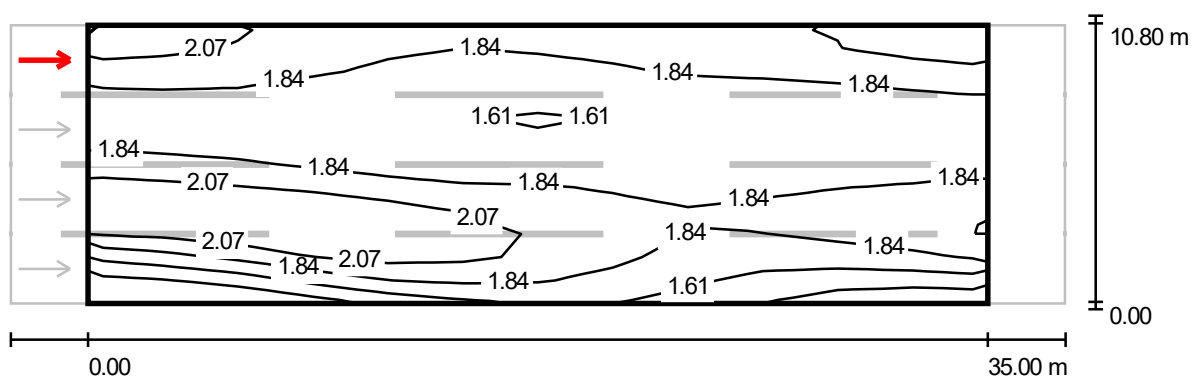
Observer Position: (-60.000 m, 6.750 m, 1.500 m)

tarmac: R3, q0: 0.070

|  | $L_{av}$ [cd/m <sup>2</sup> ] | U0          | UI          | TI [%]    |
|--|-------------------------------|-------------|-------------|-----------|
| Calculated values:                       | 1.85                          | 0.74        | 0.92        | 14        |
| Required values according to class ME4a: | $\geq 0.75$                   | $\geq 0.40$ | $\geq 0.60$ | $\leq 15$ |
| Fulfilled/Not fulfilled:                 | ✓                             | ✓           | ✓           | ✓         |

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### StreetV2/ValuationFieldRoadway1/Observer4/Isolines(L)



Values in Candela/m<sup>2</sup>, Scale 1 : 294

Grid: 12 x 12 Points

Observer Position: (-60.000 m, 9.450 m, 1.500 m)

tarmac: R3, q0: 0.070

|  | $L_{av}$ [cd/m <sup>2</sup> ] | U0     | UI     | TI [%] |
|--|-------------------------------|--------|--------|--------|
| Calculated values:                       | 1.83                          | 0.65   | 0.87   | 14     |
| Required values according to class ME4a: | ≥ 0.75                        | ≥ 0.40 | ≥ 0.60 | ≤ 15   |
| Fulfilled/Not fulfilled:                 | ✓                             | ✓      | ✓      | ✓      |