

**Ventspils ielas - Zvaigžņu iela**

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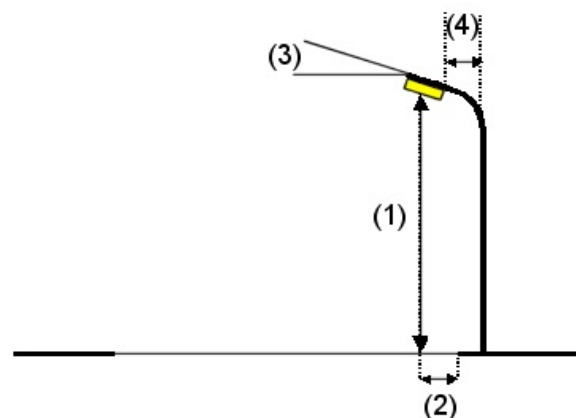
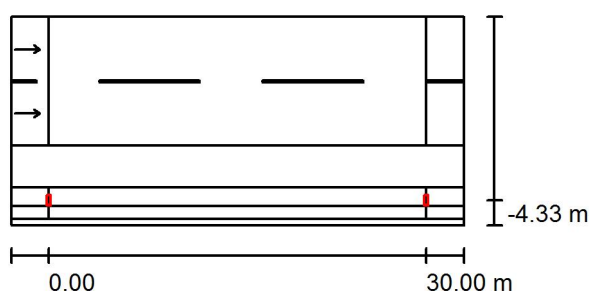
## Zvaigžņu iela / Planning data

### Street Profile

Brauktuve	(Width: 10.200 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
zaļā zona	(Width: 3.300 m)
Veloceliņš	(Width: 1.500 m)
ietve	(Width: 1.000 m)
zaļā zona	(Width: 0.500 m)

Light loss factor: 0.90

### Luminaire Arrangements



Luminaire:	CREE XSPD023MEF30K_24-Q9 XSP2D - F - Type 3ME - Q9
Luminous flux (Luminaire):	15292 lm
Luminous flux (Lamps):	17407 lm
Luminaire Wattage:	138.0 W
Arrangement:	Single row, bottom
Pole Distance:	30.000 m
Mounting Height (1):	8.100 m
Height:	8.003 m
Overhang (2):	-4.300 m
Boom Angle (3):	15.0 °
Boom Length (4):	1.991 m

Maximum luminous intensities

at 70°: 459 cd/klm

at 80°: 311 cd/klm

at 90°: 64 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.0.

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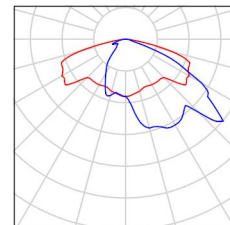
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**Zvaigžņu iela / Luminaire parts list**

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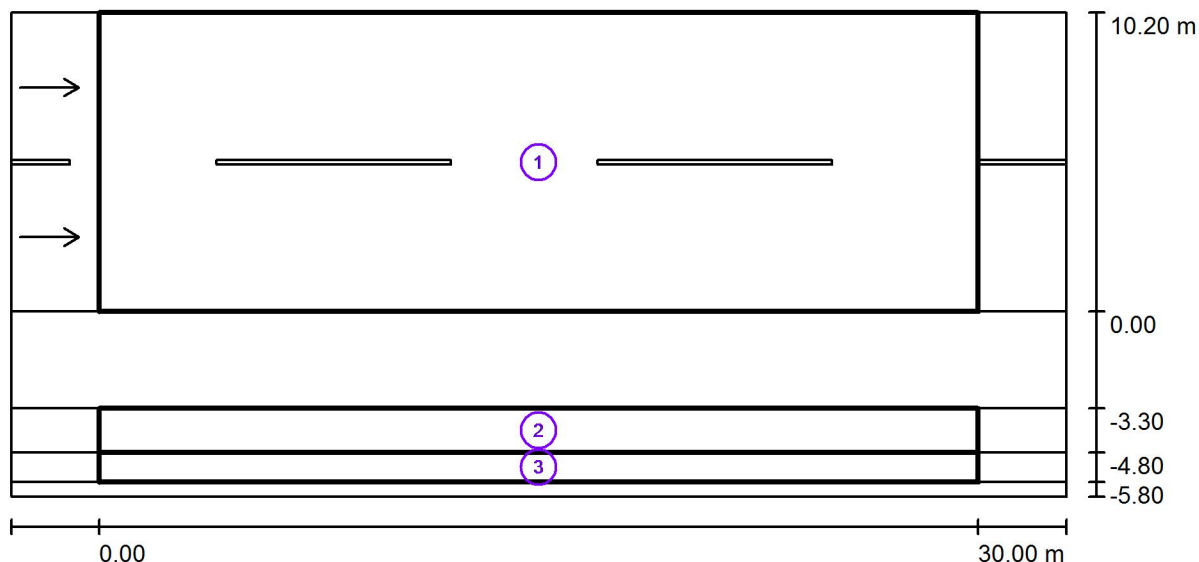
CREE XSPD023MEF30K\_24-Q9 XSP2D - F -  
Type 3ME - Q9  
Article No.: XSPD023MEF30K\_24-Q9  
Luminous flux (Luminaire): 15292 lm  
Luminous flux (Lamps): 17407 lm  
Luminaire Wattage: 138.0 W  
Luminaire classification according to CIE: 100  
CIE flux code: 35 70 96 100 88  
Fitting: 1 x 10 MD-A1450 Q9 3K12V (Correction  
Factor 1.000).



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## Zvaigžņu iela / Photometric Results



Light loss factor: 0.90

Scale 1:258

### Calculation Field List

- 1 Brauktuve  
Length: 30.000 m, Width: 10.200 m  
Grid: 10 x 6 Points  
Accompanying Street Elements: Brauktuve.  
tarmac: R3, q0: 0.070  
Selected Lighting Class: ME4b

(All lighting performance requirements are met.)

	$L_{av}$ [cd/m <sup>2</sup> ]	U0	UI	TI [%]	SR
Calculated values:	0.75	0.54	0.62	11	0.94
Required values according to class:	≥ 0.75	≥ 0.40	≥ 0.50	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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## Zvaigžņu iela / Photometric Results

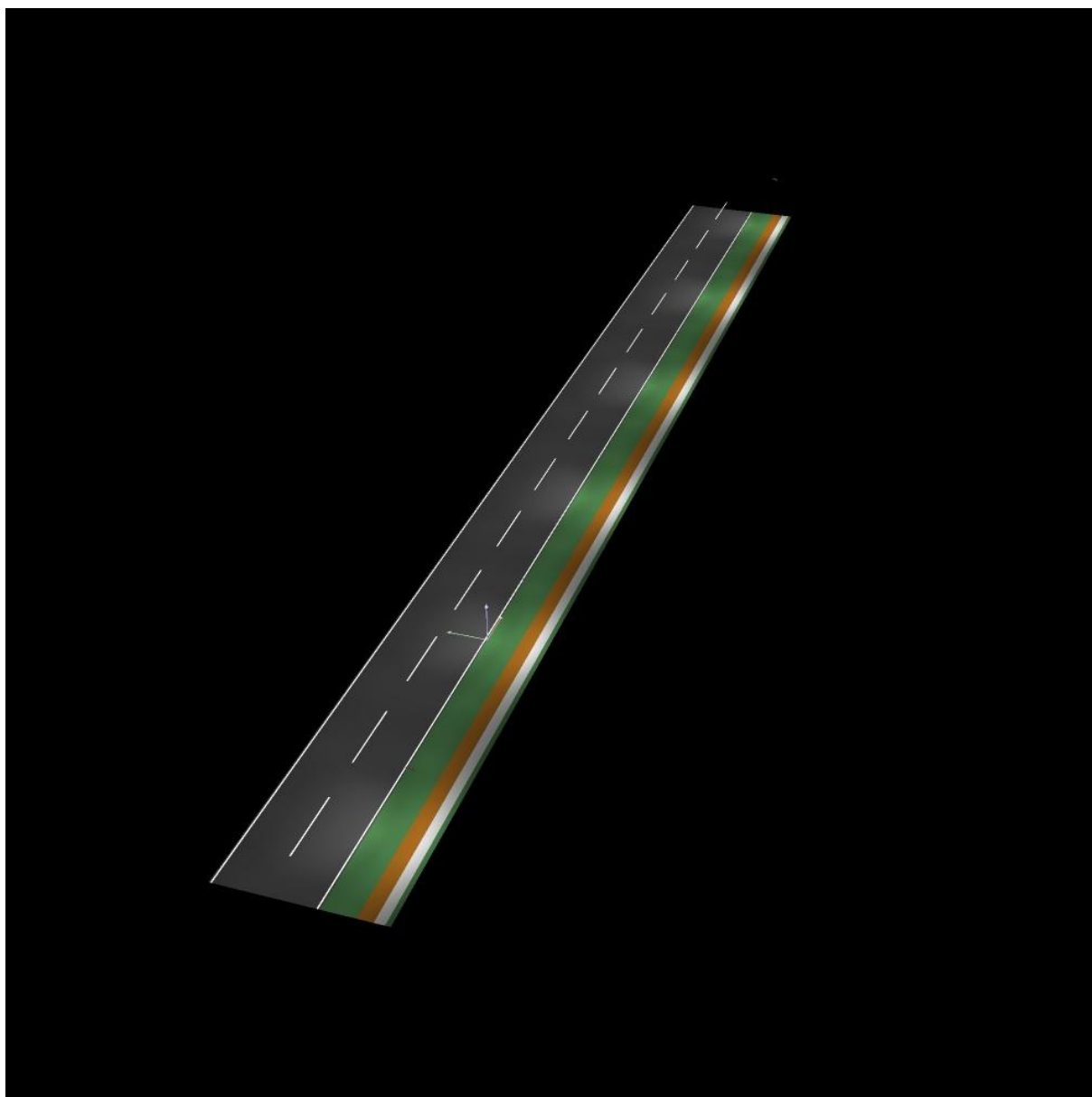
### Calculation Field List

2	Veloceliņš			
	Length: 30.000 m, Width: 1.500 m			
	Grid: 10 x 3 Points			
	Accompanying Street Elements: Veloceliņš.			
	Selected Lighting Class: S1	(All lighting performance requirements are met.)		
	Calculated values:	$E_{av}$ [lx]	$E_{min}$ [lx]	
	Required values according to class:	21.87	7.55	
	Fulfilled/Not fulfilled:	≥ 15.00	≥ 5.00	
		✓	✓	
3	Ietve			
	Length: 30.000 m, Width: 1.000 m			
	Grid: 10 x 3 Points			
	Accompanying Street Elements: Ietve.			
	Selected Lighting Class: S1	(All lighting performance requirements are met.)		
	Calculated values:	$E_{av}$ [lx]	$E_{min}$ [lx]	
	Required values according to class:	17.66	5.26	
	Fulfilled/Not fulfilled:	≥ 15.00	≥ 5.00	
		✓	✓	

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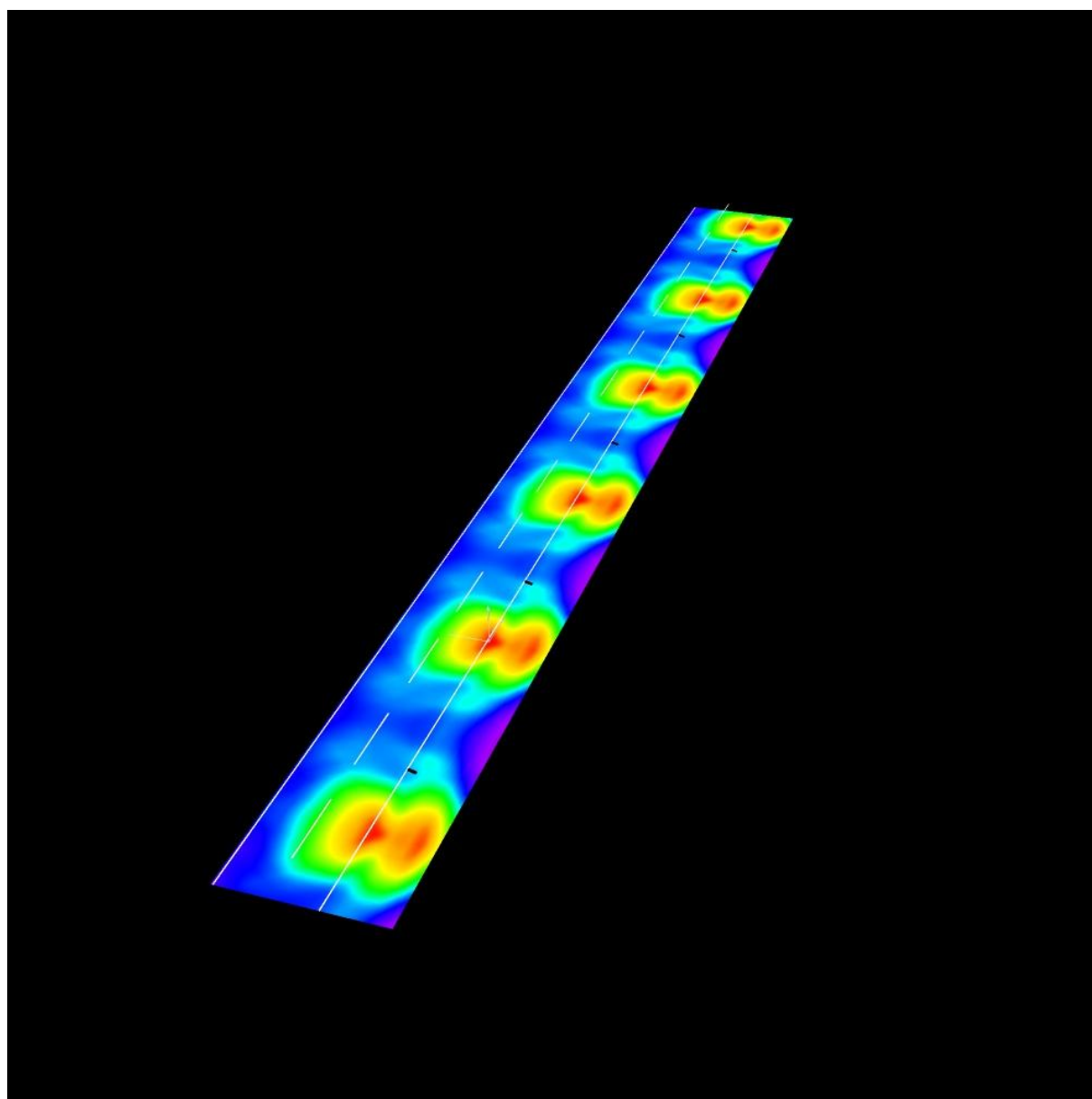
## Zvaigžņu iela / 3D Rendering



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## Zvaigžņu iela / False Color Rendering

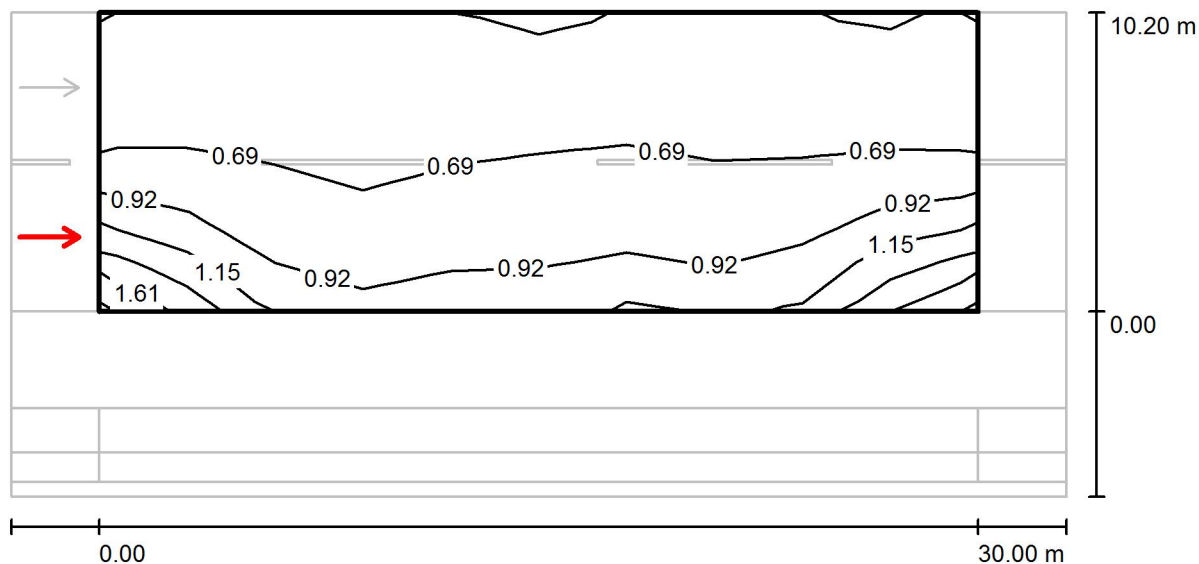


0 5 10 15 20 30 40 50 100 lx

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## Zvaigžņu iela / Brauktuve / Observer 1 / Isolines (L)



Values in Candela/m<sup>2</sup>, Scale 1 : 258

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 2.550 m, 1.500 m)

tarmac: R3, q0: 0.070

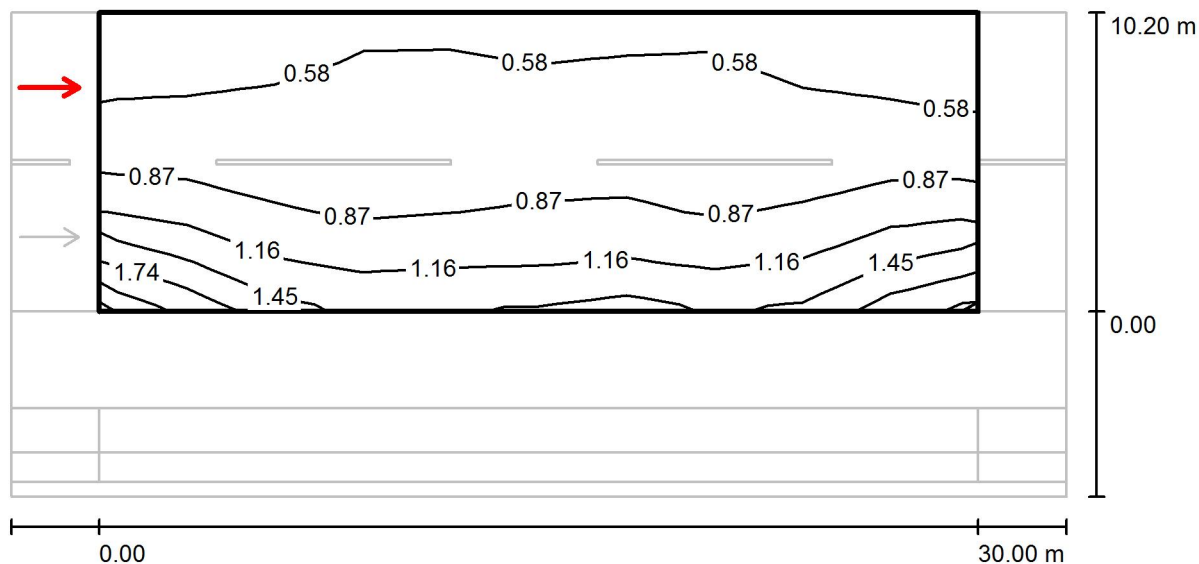
	$L_{av}$ [cd/m <sup>2</sup> ]	U0	UI	TI [%]
Calculated values:	0.75	0.60	0.62	11
Required values according to class ME4b:	≥ 0.75	≥ 0.40	≥ 0.50	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓



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## Zvaigžņu iela / Brauktuve / Observer 2 / Isolines (L)



Values in Candela/m², Scale 1 : 258

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 7.650 m, 1.500 m)

tarmac: R3, q0: 0.070

	$L_{av}$ [cd/m²]	U0	UI	TI [%]
Calculated values:	0.86	0.54	0.80	6
Required values according to class ME4b:	$\geq 0.75$	$\geq 0.40$	$\geq 0.50$	$\leq 15$
Fulfilled/Not fulfilled:	✓	✓	✓	✓