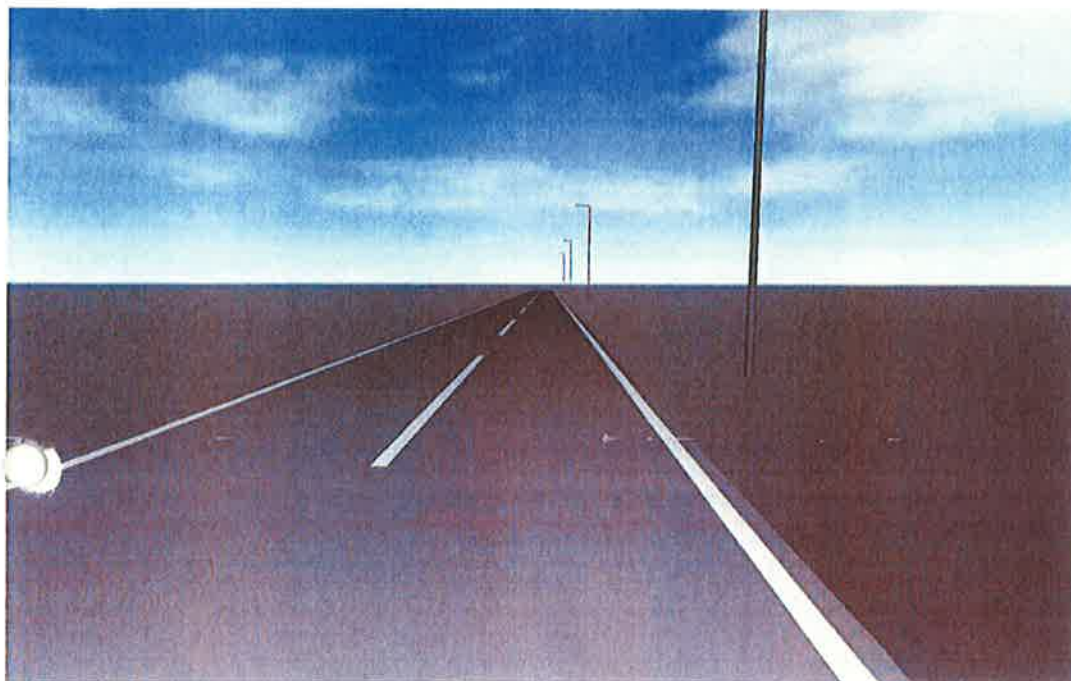


Date

29/02/2024

DIALux



**MODERNIZARE SISTEM DE ILUMINAT PUBLIC IN  
LOCALITATILE SOIMUS, BIRSA, DOMNIN, COMUNA SOMES  
ODORHEI, JUDETUL SALAJ**

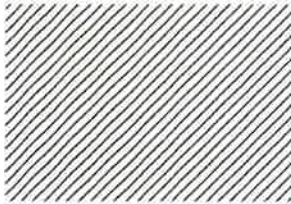
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### AIL-32W:L=6m, R=2 m, M5 · Alternative 1

Summary (according to EN 13201:2015)	4
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## Contacts



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COMUNA FLORESTI

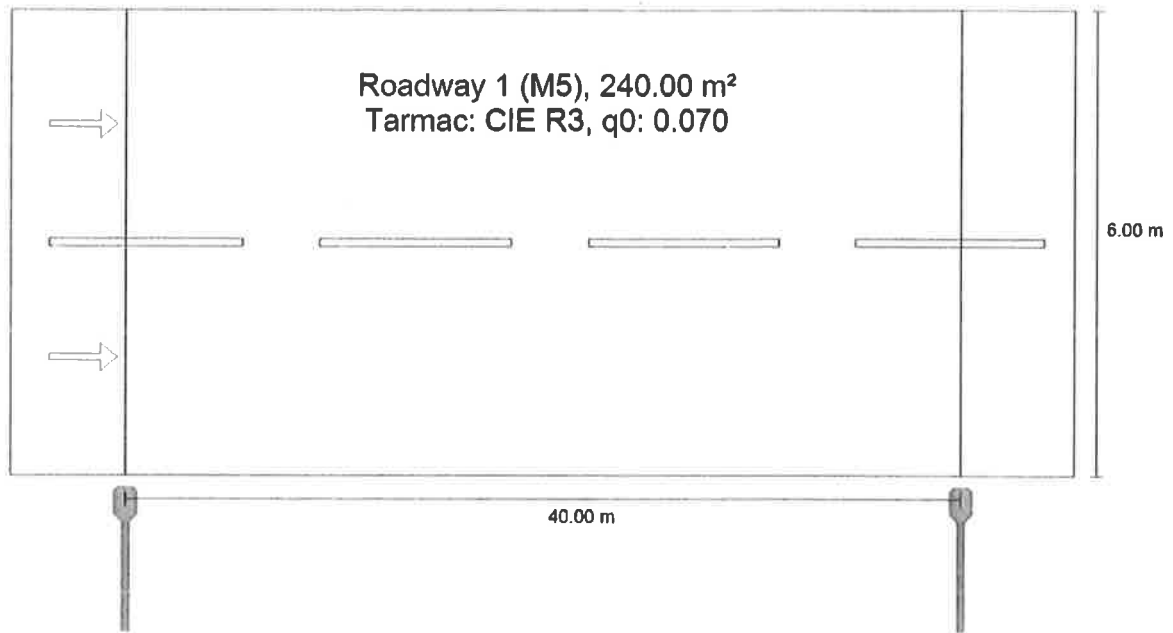
T 0751789874

office@escoelectric.ro



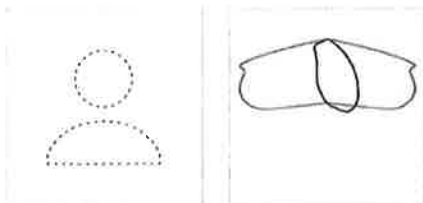
AIL-32W:L=6m, R=2 m, M5

**Summary (according to EN 13201:2015)**



AIL-32W:L=6m, R=2 m, M5

**Summary (according to EN 13201:2015)**



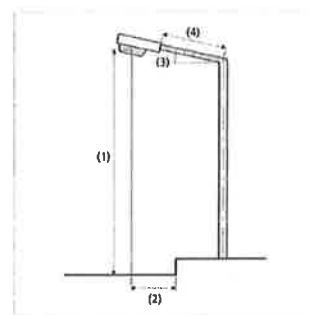
P	32.0 W
$\Phi_{Lamp}$	5020 lm
$\Phi_{Luminaire}$	4385 lm
$\eta$	87.35 %

AIL-32W:L=6m, R=2 m, M5

## Summary (according to EN 13201:2015)

AIL1- 32W (single side bottom)

Pole distance	40.000 m
(1) Light spot height	8.100 m
(2) Light point overhang	-0.400 m
(3) Boom inclination	5.0°
(4) Boom length	1.600 m
Annual operating hours	4150 h; 100.0 %, 32.0 W
Wattage / route	800.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 830 cd/klm ≥ 80°: 153 cd/klm ≥ 90°: 0.00 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	G*1
Glare index class	D.6
MF	0.80



### Results for valuation fields

A maintenance factor of 0.80 was used for calculating for the installation

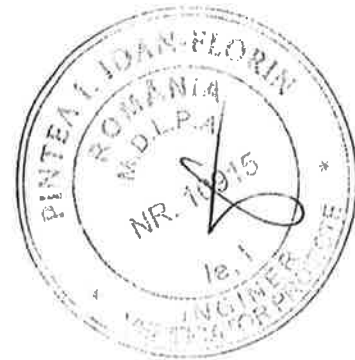
	Symbol	Calculated	Target	Check
Șosea 1 (M5)	$L_{s,r}$	0.55 cd/m <sup>2</sup>	≥ 0.50 cd/m <sup>2</sup>	✓
	$U_{a,r}$	0.38	≥ 0.35	✓
	$U_{l,r}$	0.59	≥ 0.40	✓
	TI	14 %	≤ 15 %	✓
	$R_{s,r}$	0.40	≥ 0.30	✓

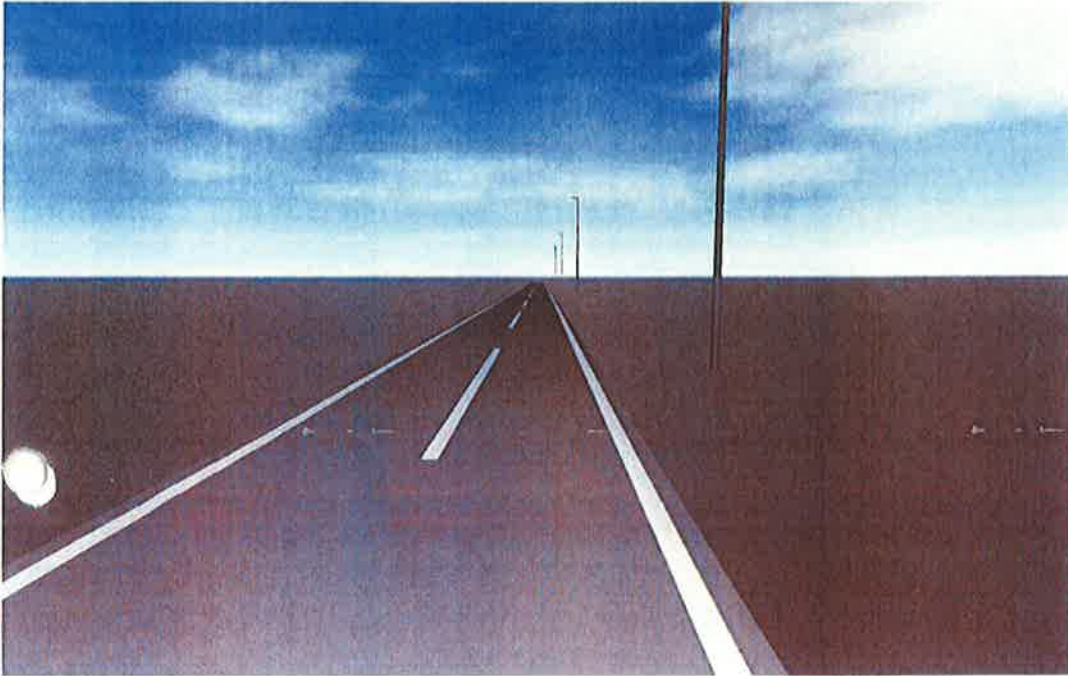
AIL-32W:L=6m, R=2 m, M5

**Summary (according to EN 13201:2015)**

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
AIL-32W:L=6m, R=2 m, M5	$D_o$	0.017 W/lx*m <sup>2</sup>	-
AIL1- 32W (single side bottom)	$D_e$	0.6 kWh/m <sup>2</sup> yr	132.8 kWh/yr





**MODERNIZARE SISTEM DE ILUMINAT PUBLIC IN  
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ODORHEI, JUDETUL SALAJ**



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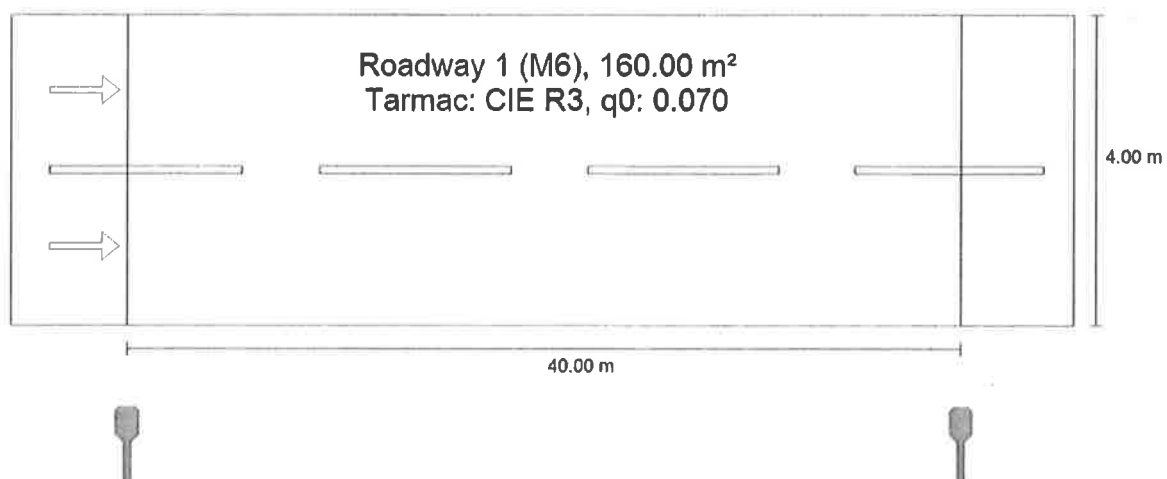
S.C. ESCO ELECTRIC LIGHT S.R.L.  
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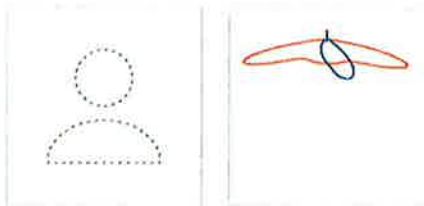
Strazi Secundare: L= 4 m, R= 2 m, M6

**Summary (according to EN 13201:2015)**

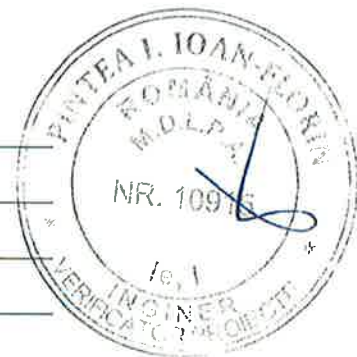


Strazi Secundare: L= 4 m, R= 2 m, M6

Summary (according to EN 13201:2015)

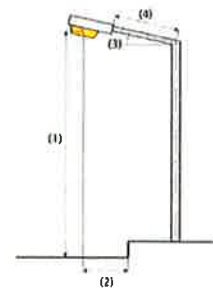


P	20.0 W
$\Phi_{Lamp}$	2850 lm
$\Phi_{Luminaire}$	2480 lm
$\eta$	87.01 %



AIL2- 20 W (single side bottom)

Pole distance	40.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	-1.300 m
(3) Boom inclination	0.0°
(4) Boom length	0.700 m
Annual operating hours	4150 h: 100.0 %, 20.0 W
Wattage / route	500.0 W/km
ULR / ULOR	0.01 / 0.01
Max. luminous intensities	≥ 70°: 731 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 501 cd/klm ≥ 90°: 2.17 cd/klm
Luminous intensity class	—
The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	
Glare index class	D 4
MF	0.80



Strazi Secundare: L= 4 m, R= 2 m, M6

### Summary (according to EN 13201:2015)

Results for valuation fields

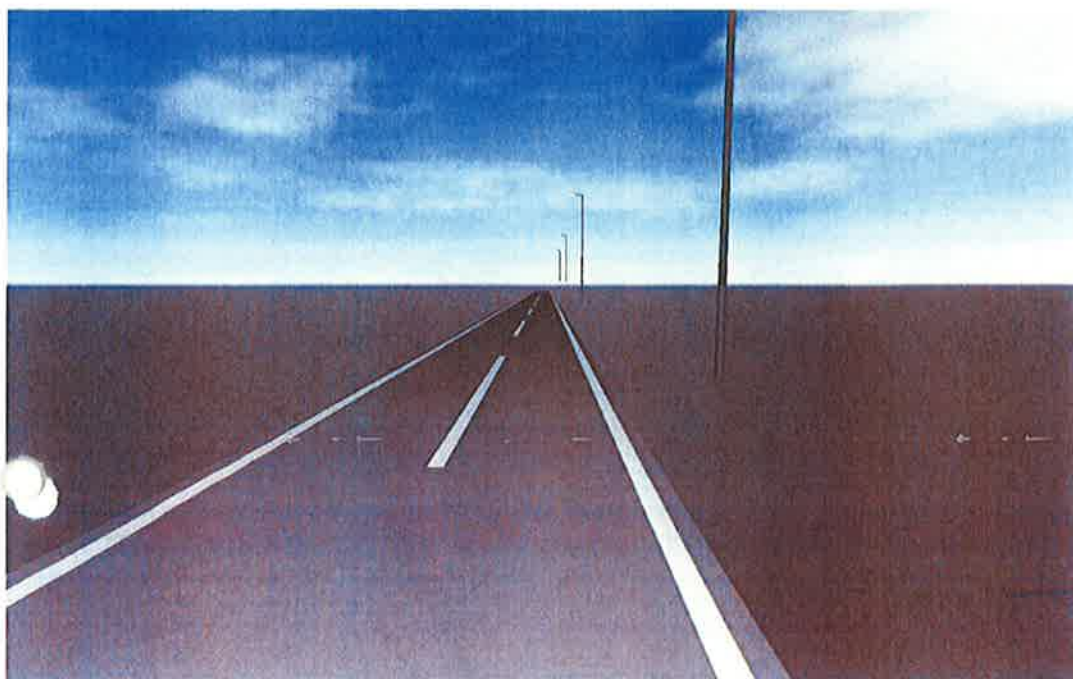
A maintenance factor of 0.80 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Şosea 1 (M6)	$L_{av}$	0.30 cd/m <sup>2</sup>	≥ 0.30 cd/m <sup>2</sup>	✓
	$U_0$	0.50	≥ 0.35	✓
	$U_f$	0.64	≥ 0.40	✓
	TI	16 %	≤ 20 %	✓
	$R_E$	0.77	≥ 0.30	✓

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Strazi Secundare: L= 4 m, R= 2 m, M6	$D_0$	0.035 W/lx*m <sup>2</sup>	-
AIL2- 20 W (single side bottom)	$D_e$	0.5 kWh/m <sup>2</sup> yr	83.0 kWh/yr





**MODERNIZARE SISTEM DE ILUMINAT PUBLIC IN  
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### Strazi Secundare: L= 4 m, R= 2 m, M6 · Alternative 8

Summary (according to EN 13201:2015)	4
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## Contacts



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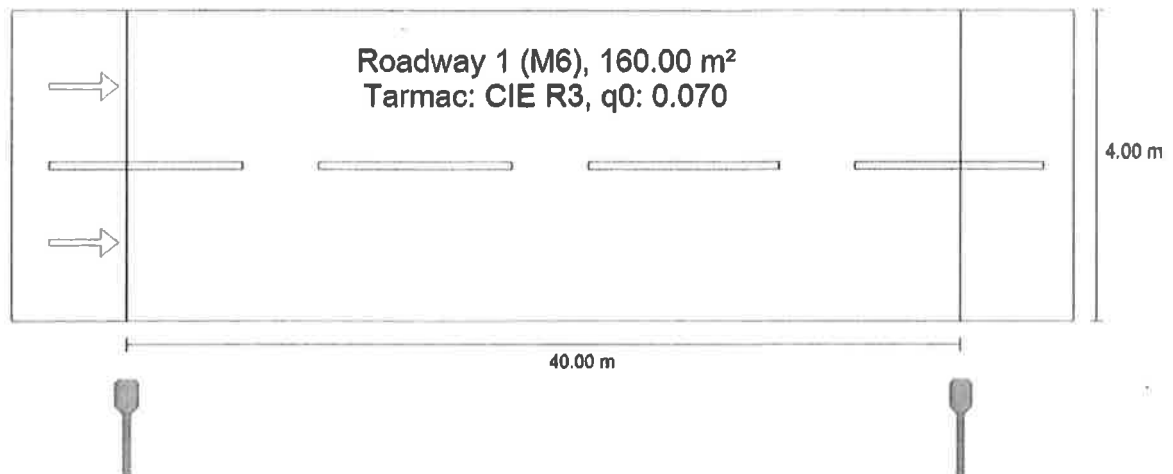
S.C. ESCO ELECTRIC LIGHT S.R.L.  
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Strazi Secundare: L= 4 m, R= 2 m, M6

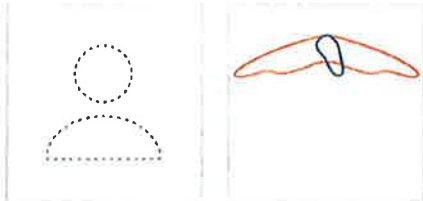
Summary (according to EN 13201:2015)





Strazi Secundare: L= 4 m, R= 2 m, M6

**Summary (according to EN 13201:2015)**

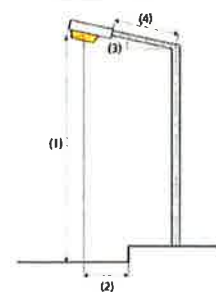


P	23.0 W
$\Phi_{Lamp}$	3282 lm
$\Phi_{Luminaire}$	2908 lm
$\eta$	88.59 %



AIL3- 23W (single side bottom)

Pole distance	40.000 m
(1) Light spot height	9.000 m
(2) Light point overhang	-1.000 m
(3) Boom inclination	5.0°
(4) Boom length	0.996 m
Annual operating hours	4150 h 100.0 %, 23.0 W
Wattage / route	575.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 833 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 75.3 cd/klm ≥ 90°: 0.00 cd/klm
Luminous intensity class	G*3
The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	
Glare index class	D 6
MF	0.80



Strazi Secundare: L= 4 m, R= 2 m, M6

### Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.80 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Şosea 1 (M6)	$L_{a,2}$	0.38 cd/m <sup>2</sup>	≥ 0.30 cd/m <sup>2</sup>	✓
	$U_0$	0.54	≥ 0.35	✓
	$U_1$	0.41	≥ 0.40	✓
	TI	12 %	≤ 20 %	✓
	$R_{t,1}$	0.68	≥ 0.30	✓

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Strazi Secundare: L= 4 m, R= 2 m, M6	$D_0$	0.028 W/k*m <sup>2</sup>	-
AIL3- 23W (single side bottom)	$D_2$	0.6 kWh/m <sup>2</sup> yr	95.5 kWh/yr

