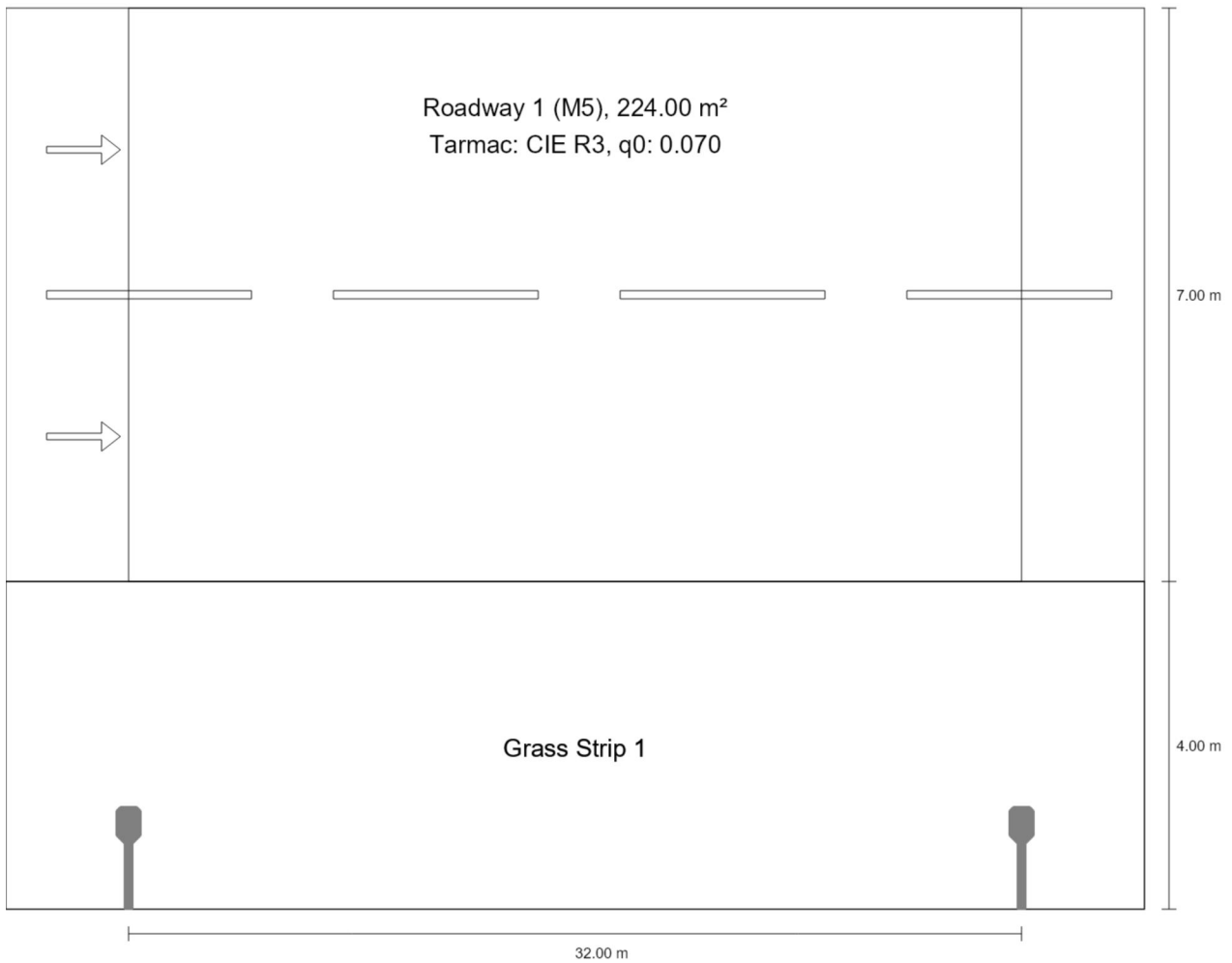




Extinderea rețelei de iluminat public din s. Cobani r-nul Glodeni

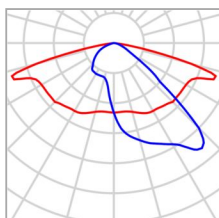
Stradă - M5 · Alternative 1

Summary (according to EN 13201:2015)



Stradă - M5 · Alternative 1

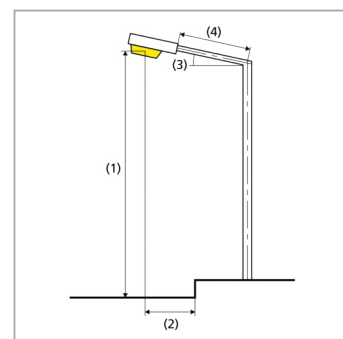
Summary (according to EN 13201:2015)



Manufacturer	LUG Light Factory	P	36.0 W
Article No.	130782.5L201.150.80 4	Φ_{Lamp}	5950 lm
Article name	URBINO LED S 36W 5950lm 740 O15	$\Phi_{Luminaire}$	5950 lm
Fitting	1x LED 4000K	η	100.00 %

URBINO LED S 36W 5950lm 740 O15 (single side bottom)

Pole distance	32.000 m
(1) Light spot height	7.000 m
(2) Light point overhang	-2.998 m
(3) Boom inclination	10.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 36.0 W
Wattage / route	1116.0 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.	$\geq 70^\circ$: 595 cd/klm $\geq 80^\circ$: 263 cd/klm $\geq 90^\circ$: 9.49 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	0.85



Stradă - M5 · Alternative 1

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.85 was used for calculating for the installation.

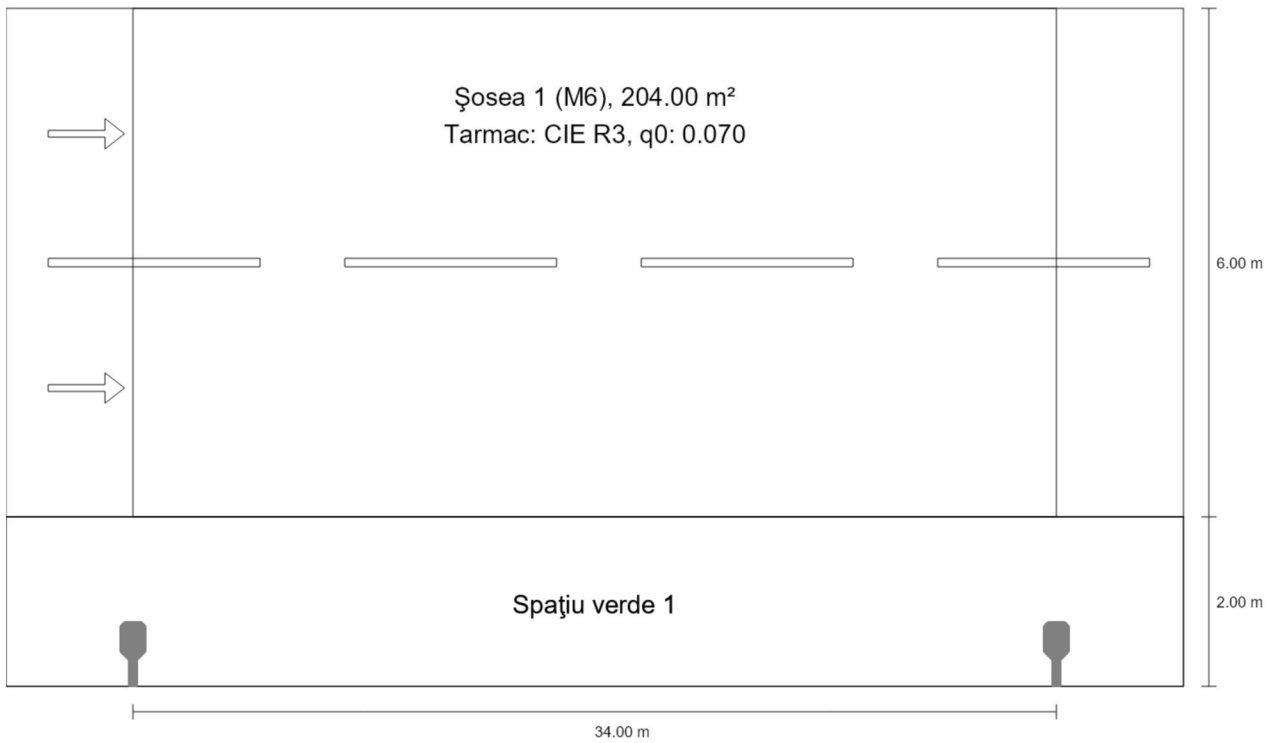
	Symbol	Calculated	Target	Check
Roadway 1 (M5)	L_{av}	0.56 cd/m ²	≥ 0.50 cd/m ²	✓
	U_o	0.48	≥ 0.35	✓
	U_l	0.75	≥ 0.40	✓
	TI	15 %	≤ 15 %	✓
	R_{EI}	0.41	≥ 0.30	✓

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Stradă - M5	D_p	0.015 W/lx*m ²	-
URBINO LED S 36W 5950lm 740 O15 (single side bottom)	D_e	0.6 kWh/m ² yr	144.0 kWh/yr

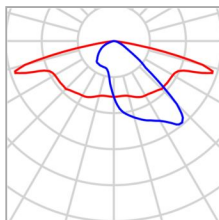
Stradă - M6 · Alternative 3

Summary (according to EN 13201:2015)



Stradă - M6 · Alternative 3

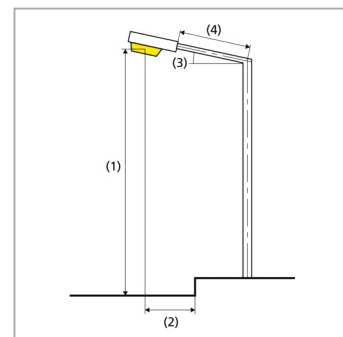
Summary (according to EN 13201:2015)



Manufacturer	LUG Light Factory	P	19.0 W
Article No.	130782.5L121.150.00 4	Φ_{Lamp}	3050 lm
Article name	URBINO LED S 19W 3050lm 740 O15	$\Phi_{Luminaire}$	3050 lm
Fitting	1x LED 4000K	η	100.00 %

URBINO LED S 19W 3050lm 740 O15 (single side bottom)

Pole distance	34.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-1.493 m
(3) Boom inclination	5.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 19.0 W
Wattage / route	551.0 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°: 631 cd/klm ≥ 80°: 212 cd/klm ≥ 90°: 2.11 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.6
MF	0.85



Stradă - M6 · Alternative 3

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.85 was used for calculating for the installation.

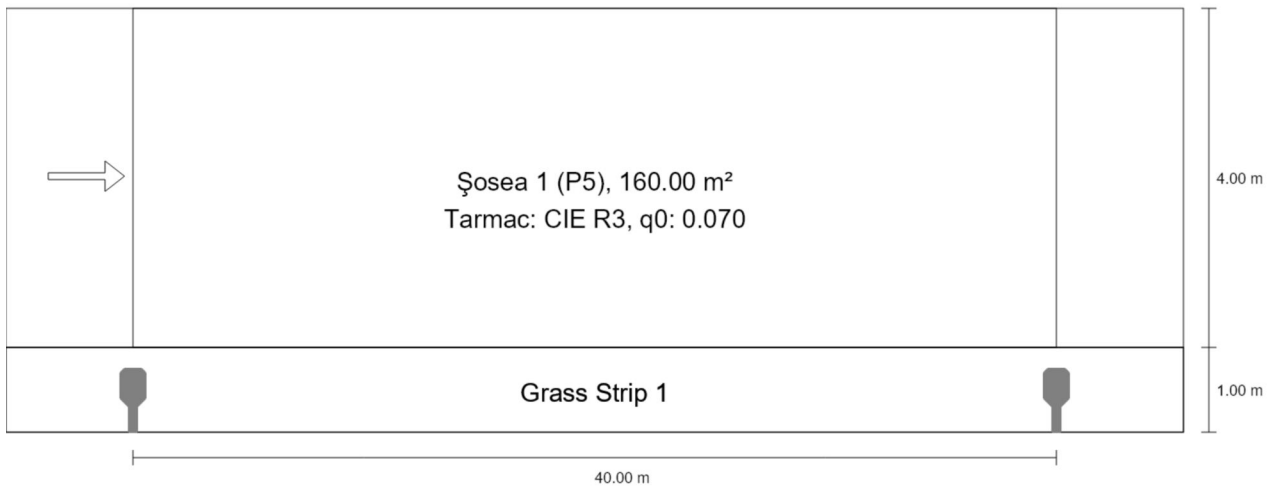
	Symbol	Calculated	Target	Check
Șosea 1 (M6)	L_{av}	0.39 cd/m ²	≥ 0.30 cd/m ²	✓
	U_o	0.44	≥ 0.35	✓
	U_l	0.66	≥ 0.40	✓
	TI	17 %	≤ 20 %	✓
	R_{EI}	0.40	≥ 0.30	✓

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Stradă - M6	D_p	0.014 W/lx*m ²	-
URBINO LED S 19W 3050lm 740 O15 (single side bottom)	D_e	0.4 kWh/m ² yr	76.0 kWh/yr

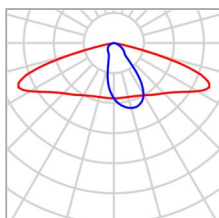
Stradă - P5 · Alternative 2

Summary (according to EN 13201:2015)



Stradă - P5 · Alternative 2

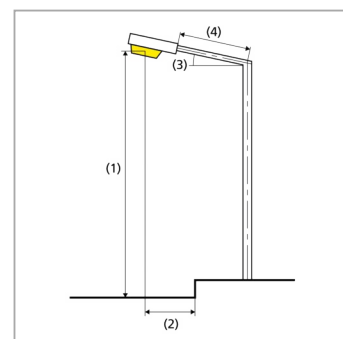
Summary (according to EN 13201:2015)



Manufacturer	LUG Light Factory	P	10.0 W
Article No.	130782.5L041.110.00 2	Φ_{Lamp}	1600 lm
Article name	URBINO LED S 10W 1600lm 740 O11	$\Phi_{Luminaire}$	1600 lm
Fitting	1x LED 4000K	η	100.00 %

URBINO LED S 10W 1600lm 740 O11 (single side bottom)

Pole distance	40.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-0.500 m
(3) Boom inclination	0.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 10.0 W
Wattage / route	250.0 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.	$\geq 70^\circ$: 619 cd/klm $\geq 80^\circ$: 63.8 cd/klm $\geq 90^\circ$: 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*3
Glare index class	D.6
MF	0.85



Stradă - P5 · Alternative 2

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.85 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Șosea 1 (P5)	E_{av}	4.34 lx	[3.00 - 4.50] lx	✓
	E_{min}	0.86 lx	≥ 0.60 lx	✓
	$TI^{(1)}$	11 %	-	

(1) Informative, not part of the valuation

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Stradă - P5	D_p	0.014 W/lx*m ²	-
URBINO LED S 10W 1600lm 740 O11 (single side bottom)	D_e	0.3 kWh/m ² yr	40.0 kWh/yr