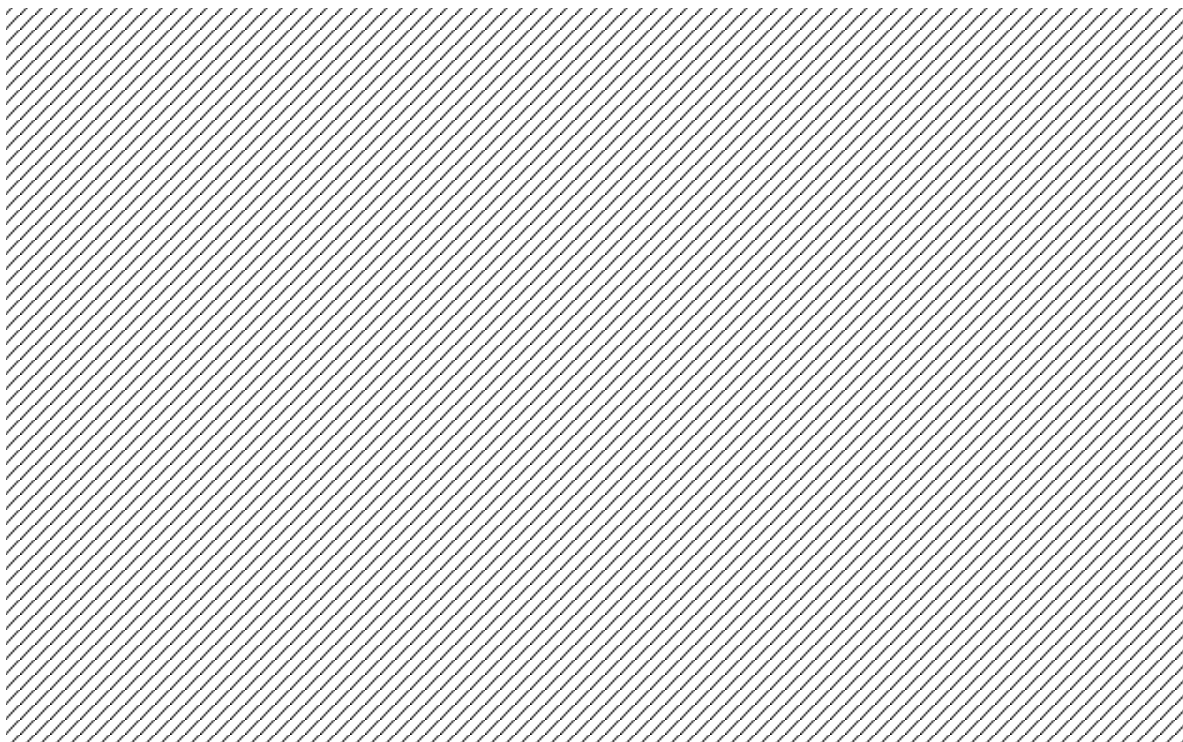
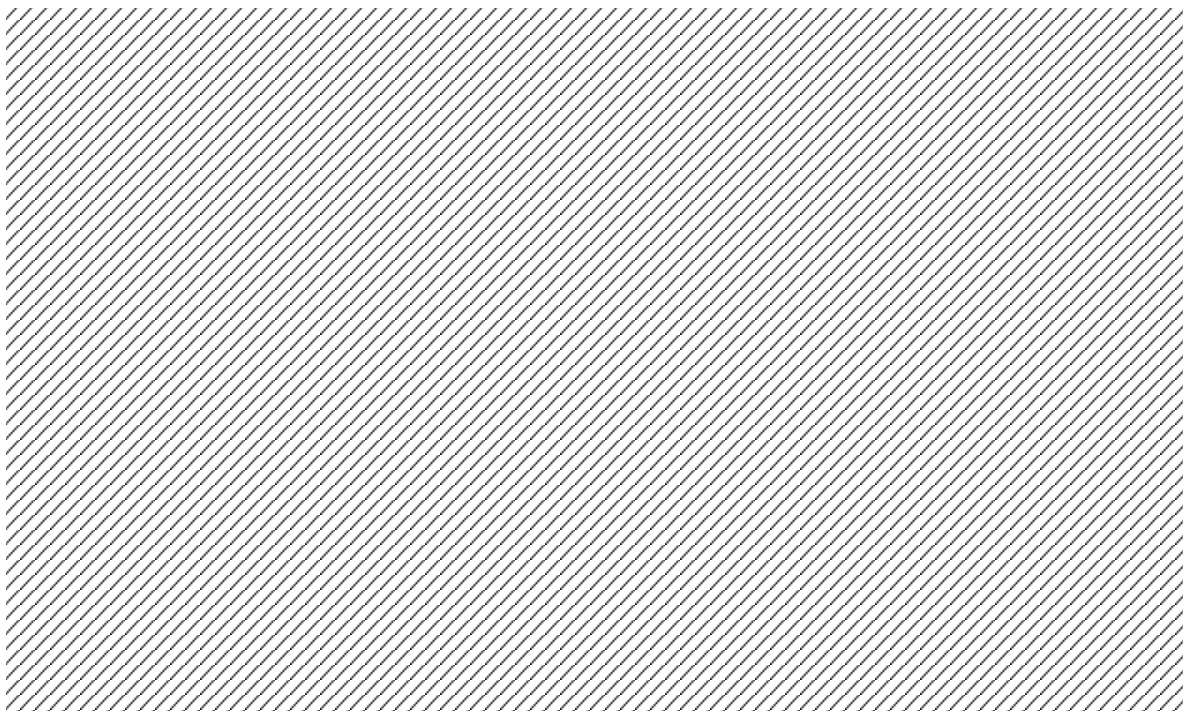




Světlá nad Sázavou

Cover page	1
Content	2
Description	3
Summary (according to EN 13201:2015)	4
Summary (according to EN 13201:2015)	7
Summary (according to EN 13201:2015)	10



Description

Rekonstrukce veřejného osvětlení

uzdržovací činitel:
LLMF=0,9 (L90B10=100.000h)
LSF=1 (indiv. výměna)
LMF=0,9 (interval údržby 3 roky; zneč. ovzduší "malé"; IP6x)

Jan Zvára

Transconsult s.r.o.
Nerudova 37
500 02 Hradec Králové

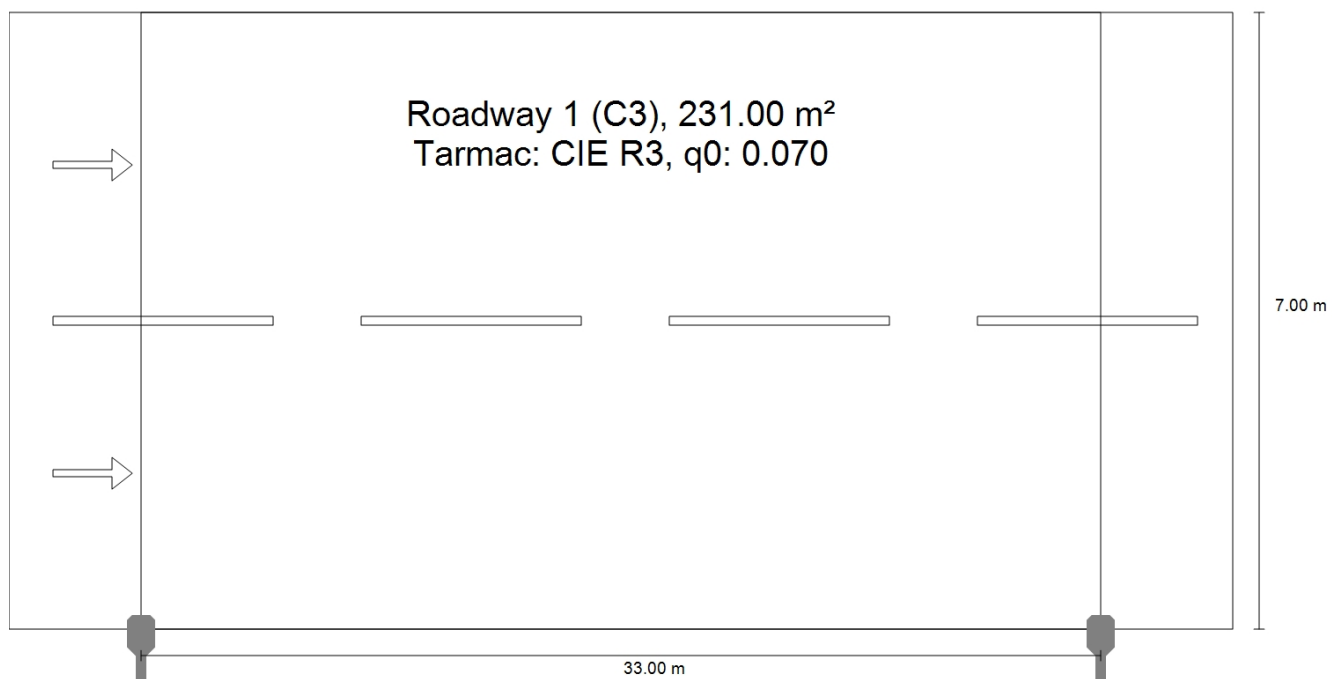
T 495 533 105
zvara@transconsult.cz

Ing. Ladislav Tikovský

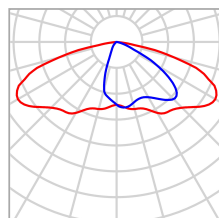
ateliér světelné techniky s.r.o.
Braškovská 368/1
161 00 Praha 6

tikovsky@astatelier.cz

Náměstí Trčků z Lípy část I · Alternative 1

Summary (according to EN 13201:2015)

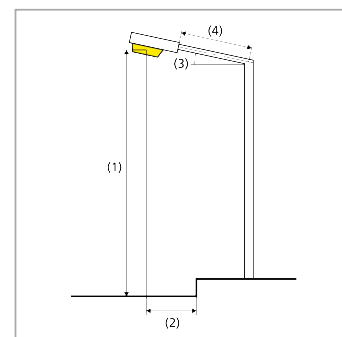
Náměstí Trčků z Lípy část I · Alternative 1

Summary (according to EN 13201:2015)

Manufacturer	IGUZZINI	P	69.6 W
Article No.	ED26	Φ_{Lamp}	9180 lm
Article name	Archilede HP 69.6W	$\Phi_{\text{Luminaire}}$	9180 lm
Fitting	1x LED	η	100.00 %

Archilede HP 69.6W (single side bottom)

Pole distance	33.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	-0.100 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h: 100.0 %, 69.6 W
Consumption	2088.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 424 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 85.4 cd/klm ≥ 90°: 0.00 cd/klm
Luminous intensity class	G*4
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



Náměstí Trčků z Lípy část I · Alternative 1

Summary (according to EN 13201:2015)

Results for valuation fields

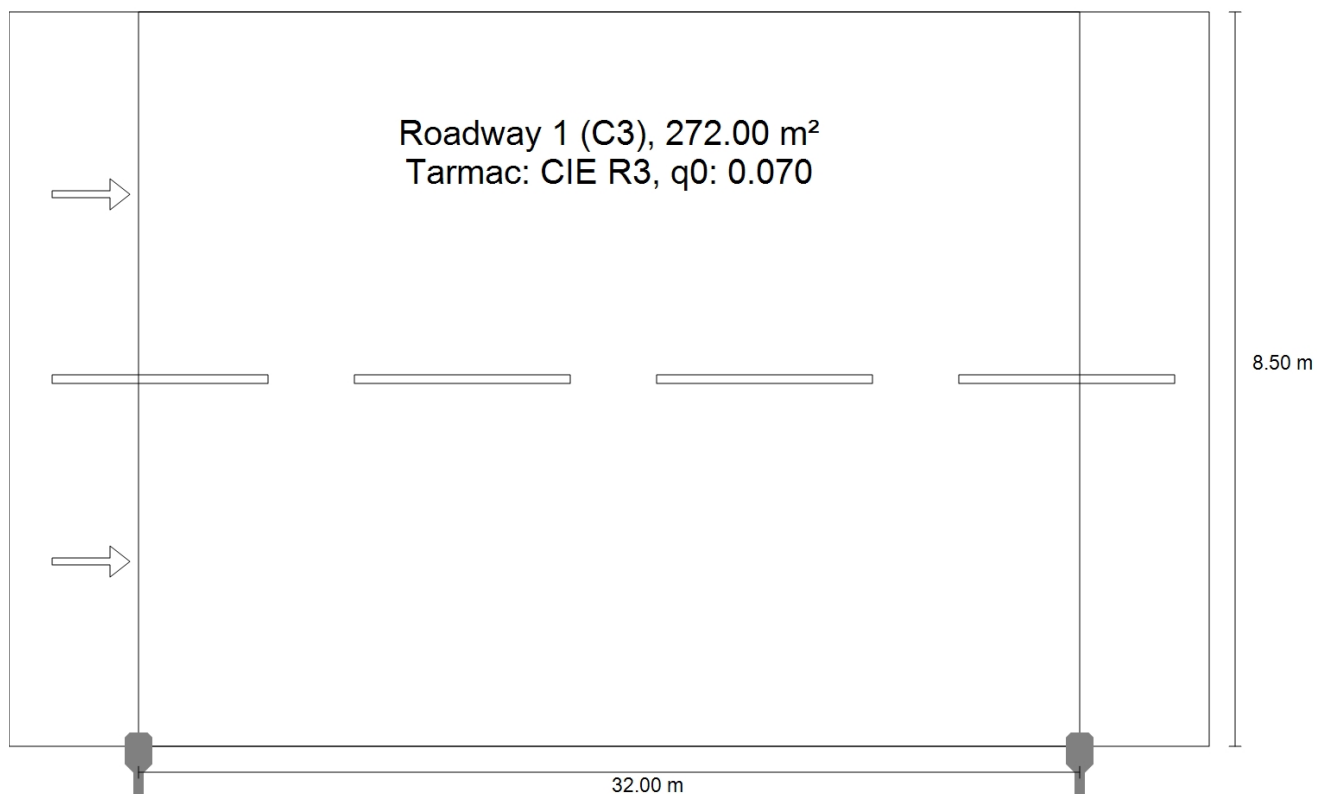
	Symbol	Calculated	Target	Check
Roadway 1 (C3)	E_{av}	15.35 lx	≥ 15.00 lx	✓
	U_o	0.54	≥ 0.40	✓

A maintenance factor of 0.81 was used for calculating for the installation.

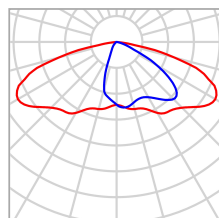
Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Náměstí Trčků z Lípy část I	D_p	0.020 W/lx*m ²	-
Archilede HP 69.6W (single side bottom)	D_e	1.2 kWh/m ² yr	278.4 kWh/yr

Náměstí Trčků z Lípy část II · Alternative 2

Summary (according to EN 13201:2015)

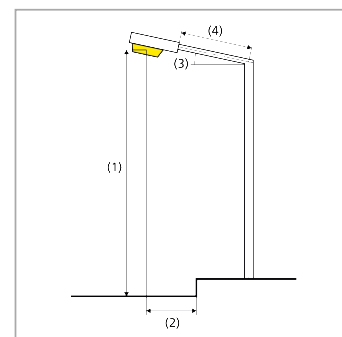
Náměstí Trčků z Lípy část II · Alternative 2

Summary (according to EN 13201:2015)

Manufacturer	IGUZZINI	P	69.6 W
Article No.	ED26	Φ_{Lamp}	9180 lm
Article name	Archilede HP 69.6W	$\Phi_{\text{Luminaire}}$	9180 lm
Fitting	1x LED	η	100.00 %

Archilede HP 69.6W (single side bottom)

Pole distance	32.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	-0.100 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h: 100.0 %, 69.6 W
Consumption	2157.6 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 424 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 85.4 cd/klm ≥ 90°: 0.00 cd/klm
Luminous intensity class	G*4
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



Náměstí Trčků z Lípy část II · Alternative 2

Summary (according to EN 13201:2015)

Results for valuation fields

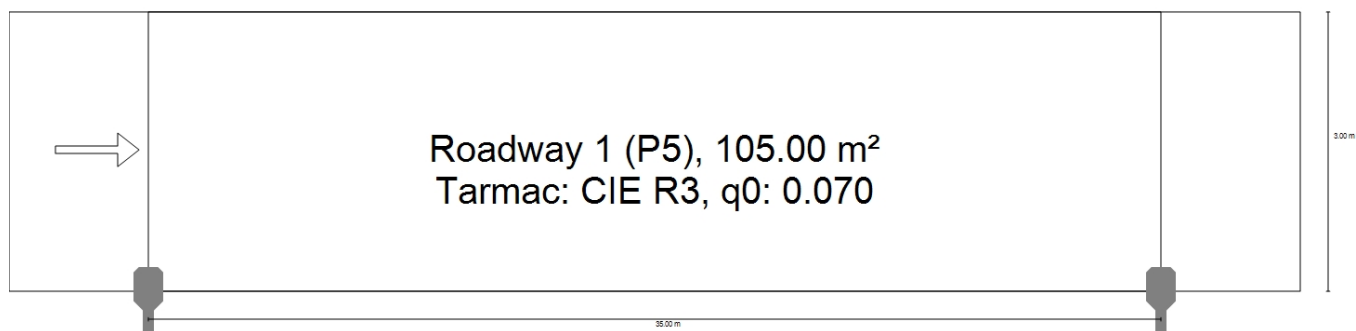
	Symbol	Calculated	Target	Check
Roadway 1 (C3)	E_{av}	15.03 lx	≥ 15.00 lx	✓
	U_o	0.56	≥ 0.40	✓

A maintenance factor of 0.81 was used for calculating for the installation.

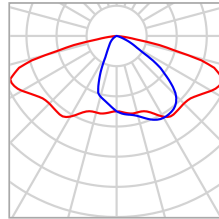
Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Náměstí Trčků z Lípy část II	D_p	0.017 W/lx*m ²	-
Archilede HP 69.6W (single side bottom)	D_e	1.0 kWh/m ² yr	278.4 kWh/yr

Pěšinky · Alternative 3

Summary (according to EN 13201:2015)

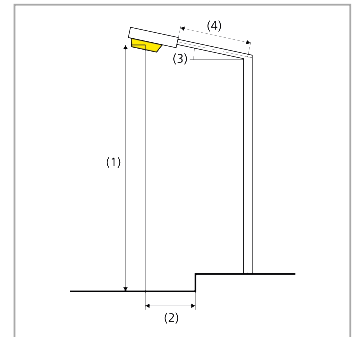
Pěšinky · Alternative 3

Summary (according to EN 13201:2015)

Manufacturer	IGUZZINI	P	13.1 W
Article No.	ED37	Φ_{Lamp}	1463 lm
Article name	Archilede HP 29W	$\Phi_{\text{Luminaire}}$	1463 lm
Fitting	user-defined	η	100.00 %

Archilede HP 29W (single side bottom)

Pole distance	35.000 m
(1) Light spot height	5.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h: 100.0 %, 13.1 W
Consumption	379.9 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 437 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 82.6 cd/klm ≥ 90°: 0.00 cd/klm
Luminous intensity class	G*4
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



Pěšinky · Alternative 3

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (P5)	E_{av}	4.13 lx	[3.00 - 4.50] lx	✓
	E_{min}	0.60 lx	≥ 0.60 lx	✓

A maintenance factor of 0.81 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Pěšinky	D_p	0.030 W/lx*m ²	-
Archilede HP 29W (single side bottom)	D_e	0.5 kWh/m ² yr	52.4 kWh/yr