



VO Odry - Lokalita U Odry

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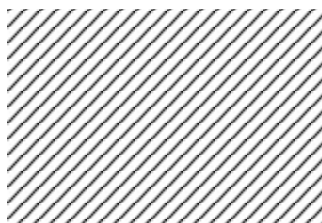
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Contacts



Světelný technik
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Luminaire list

Φ_{total} 37664 lm	P_{total} 322.8 W	Luminous efficacy 116.7 lm/W
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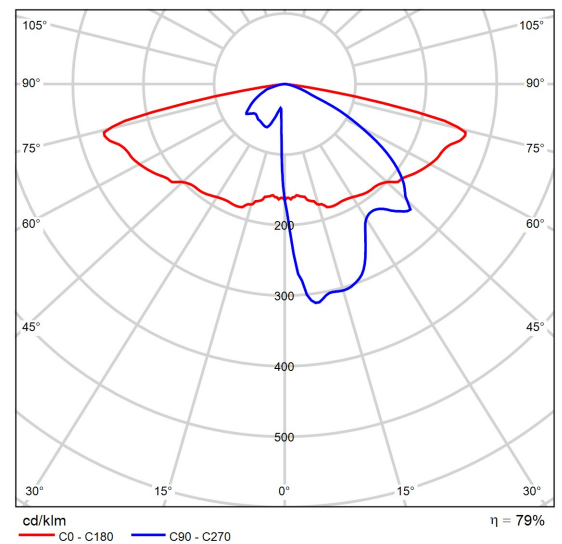
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	ELEKTRO LUMEN		TEKO M03 3k0 727 B104 C; Street/park luminaire	18.8 W	2144 lm	114.0 lm/W
4	ELEKTRO LUMEN		TEKO M03 4k0 727 B104 C; Street/park luminaire	25.3 W	2859 lm	113.1 lm/W
4	ELEKTRO LUMEN		TEKO M06 2k0 727 B104 C; Street/park luminaire	12.5 W	1451 lm	116.0 lm/W
4	ELEKTRO LUMEN		TEKO M12 2k0 727 B104 C; Street/park luminaire	12.5 W	1395 lm	111.5 lm/W
4	ELEKTRO LUMEN		TEKO M10 2k0 727 B104 C; Street/park Luminaire	11.6 W	1567 lm	135.1 lm/W

Product data sheet

ELEKTRO LUMEN - TEK0 M03 3k0 727 B104 C; Street/park luminaire



P	18.8 W
Φ_{Lamp}	2700 lm
$\Phi_{\text{Luminaire}}$	2144 lm
η	79.42 %
Luminous efficacy	114.0 lm/W
CCT	2700 K
CRI	70



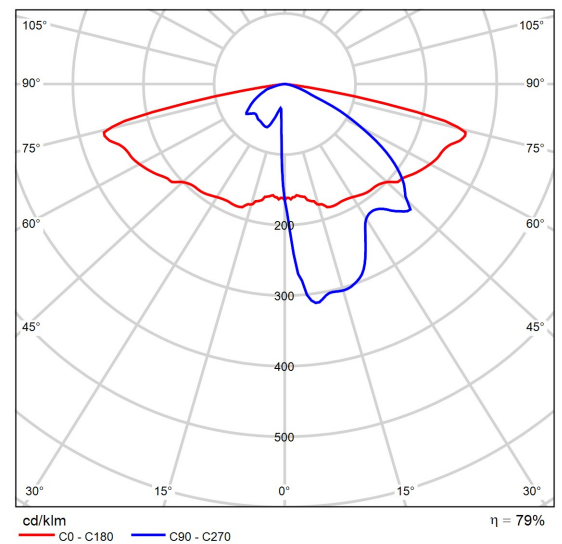
Polar LDC

Product data sheet

ELEKTRO LUMEN - TEK0 M03 4k0 727 B104 C; Street/park luminaire



P	25.3 W
Φ_{Lamp}	3600 lm
$\Phi_{\text{Luminaire}}$	2859 lm
η	79.42 %
Luminous efficacy	113.1 lm/W
CCT	2700 K
CRI	70



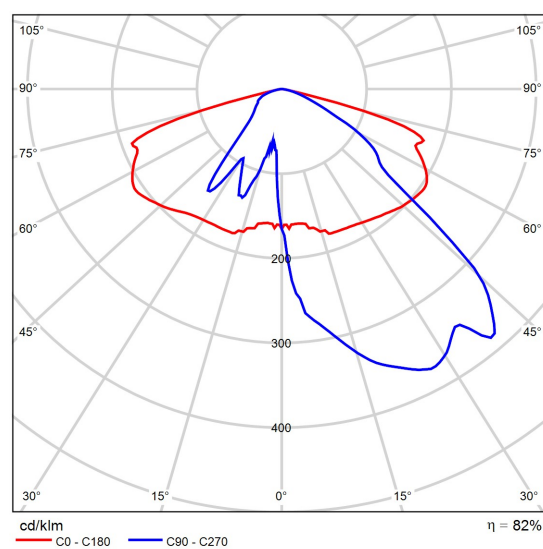
Polar LDC

Product data sheet

ELEKTRO LUMEN - TEK0 M06 2k0 727 B104 C; Street/park luminaire



P	12.5 W
Φ_{Lamp}	1764 lm
$\Phi_{\text{Luminaire}}$	1451 lm
η	82.26 %
Luminous efficacy	116.0 lm/W
CCT	2700 K
CRI	70



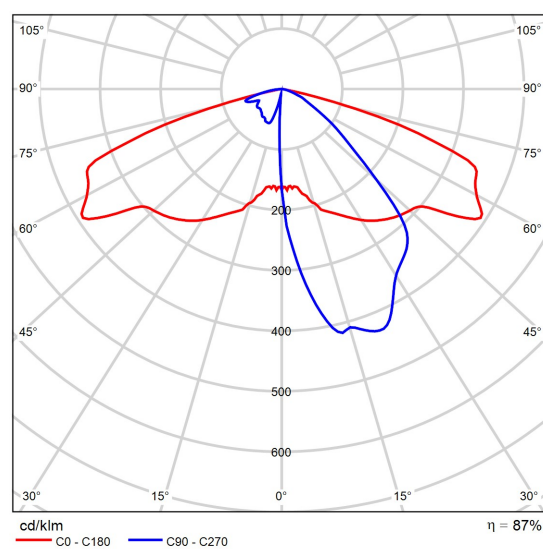
Polar LDC

Product data sheet

ELEKTRO LUMEN - TEK0 M10 2k0 727 B104 C; Street/park Luminaire



P	11.6 W
Φ_{Lamp}	1800 lm
$\Phi_{\text{Luminaire}}$	1567 lm
η	87.07 %
Luminous efficacy	135.1 lm/W
CCT	2700 K
CRI	70



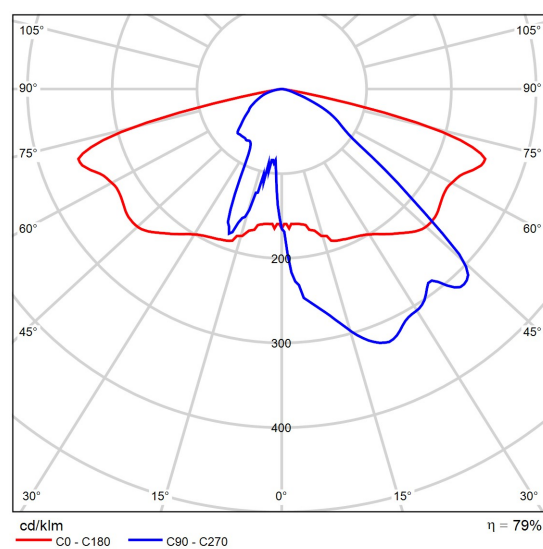
Polar LDC

Product data sheet

ELEKTRO LUMEN - TEK0 M12 2k0 727 B104 C; Street/park luminaire



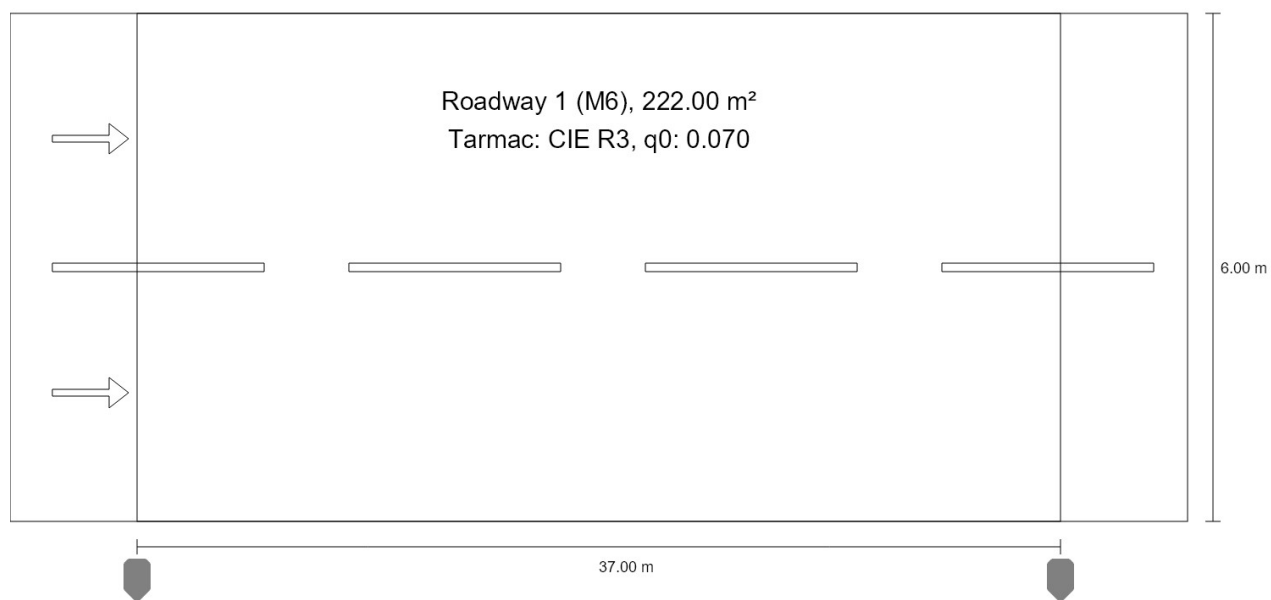
P	12.5 W
Φ_{Lamp}	1764 lm
$\Phi_{\text{Luminaire}}$	1395 lm
η	79.06 %
Luminous efficacy	111.5 lm/W
CCT	2700 K
CRI	70



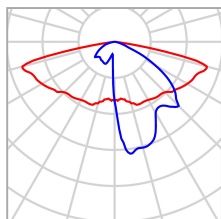
Polar LDC

Nábřeží - Svítidla č. 1 - 3

Summary (according to EN 13201:2015)



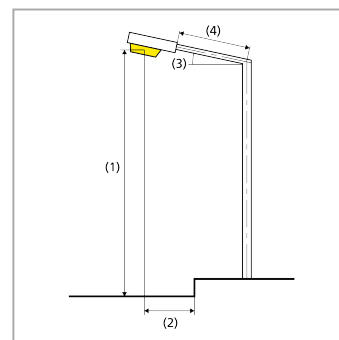
Nábřežní - Svítidla č. 1 - 3

Summary (according to EN 13201:2015)

Manufacturer	ELEKTRO LUMEN	P	18.8 W
Article name	TEKO M03 3k0 727 B104 C; Street/park luminaire	Φ_{Lamp}	2700 lm
		$\Phi_{\text{Luminaire}}$	2144 lm
Fitting	1x LED	η	79.42 %

TEKO M03 3k0 727 B104 C; Street/park luminaire (single side bottom)

Pole distance	37.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-0.700 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h; 100.0 %, 18.8 W
Wattage / route	507.9 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 688 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 262 cd/klm ≥ 90°: 2.53 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.5
MF	0.90



Nábřežní - Svítidla č. 1 - 3

Summary (according to EN 13201:2015)

Results for valuation fields

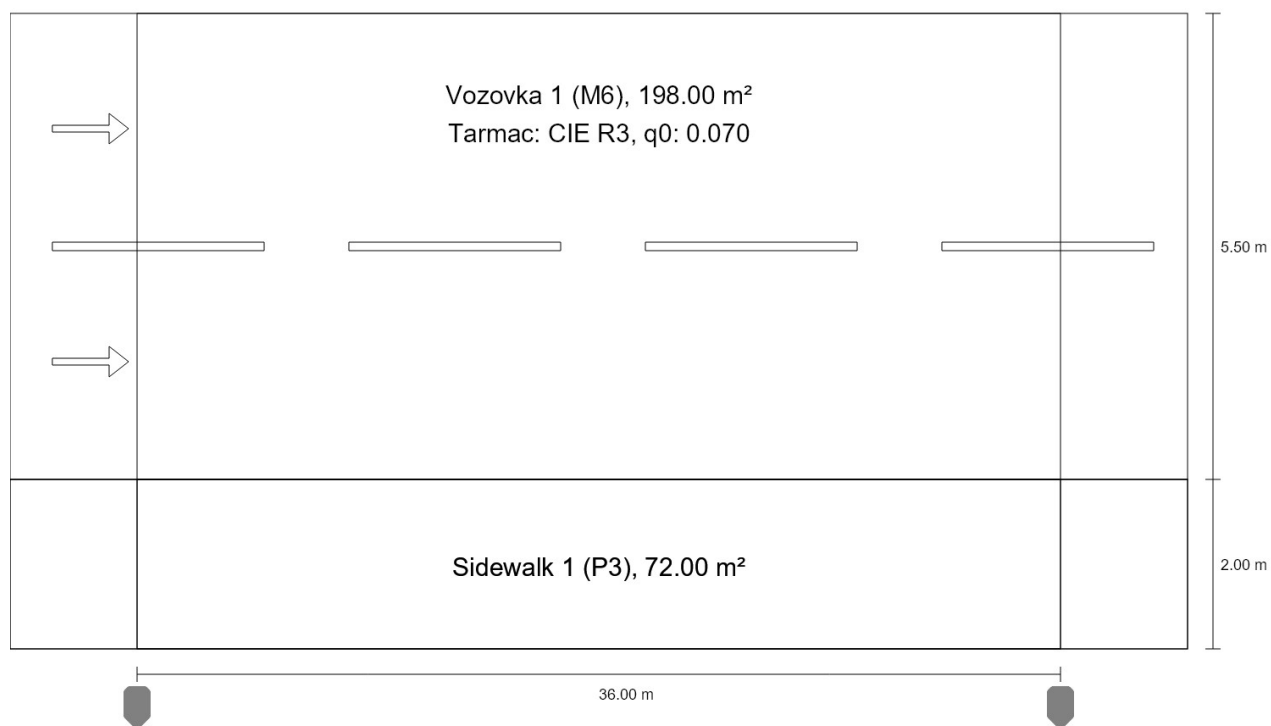
A maintenance factor of 0.90 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.31 cd/m ²	≥ 0.30 cd/m ²	✓
	U_o	0.46	≥ 0.35	✓
	U_l	0.53	≥ 0.40	✓
	TI	15 %	≤ 20 %	✓
	R_{EI}	0.44	≥ 0.30	✓

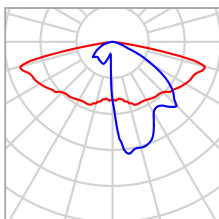
Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Nábřežní - Svítidla č. 1 - 3	D_p	0.018 W/lx*m ²	–
TEKO M03 3k0 727 B104 C; Street/park luminaire (single side bottom)	D_e	0.3 kWh/m ² yr	75.2 kWh/yr

Nábřežní - Svítidla č. 4 - 8

Summary (according to EN 13201:2015)

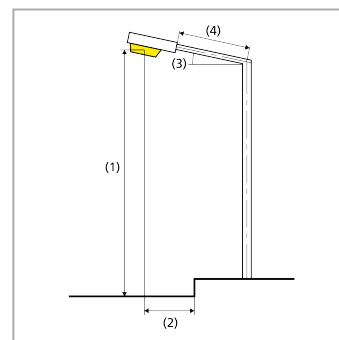
Nábřežní - Svítidla č. 4 - 8

Summary (according to EN 13201:2015)

Manufacturer	ELEKTRO LUMEN	P	25.3 W
Article name	TEKO M03 4k0 727 B104 C; Street/park luminaire	Φ_{Lamp}	3600 lm
		$\Phi_{\text{Luminaire}}$	2859 lm
Fitting	1x LED	η	79.42 %

TEKO M03 4k0 727 B104 C; Street/park luminaire (single side bottom)

Pole distance	36.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-2.700 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h; 100.0 %, 25.3 W
Wattage / route	708.1 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 688 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 262 cd/klm ≥ 90°: 2.53 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.5
MF	0.90



Nábřežní - Svítidla č. 4 - 8

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

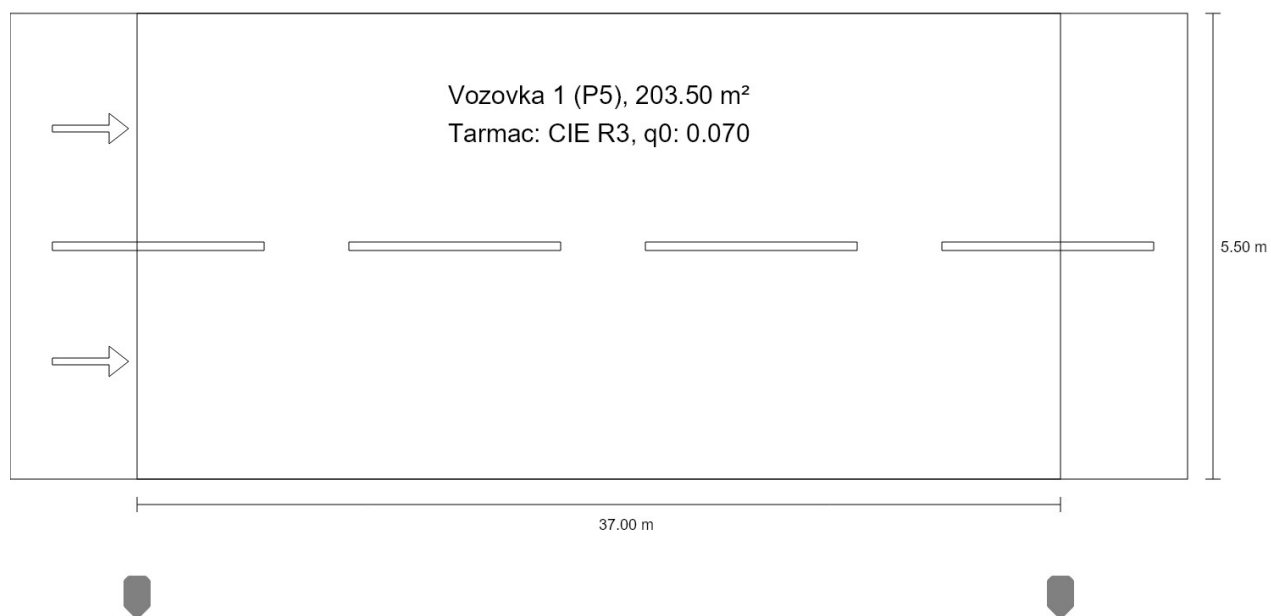
	Symbol	Calculated	Target	Check
Vozovka 1 (M6)	L_{av}	0.31 cd/m ²	≥ 0.30 cd/m ²	✓
	U_o	0.44	≥ 0.35	✓
	U_l	0.64	≥ 0.40	✓
	TI	18 %	≤ 20 %	✓
	R_{EI}	0.49	≥ 0.30	✓
Sidewalk 1 (P3)	E_{av}	7.95 lx	[7.50 - 11.25] lx	✓
	E_{min}	1.81 lx	≥ 1.50 lx	✓

Results for energy efficiency indicators

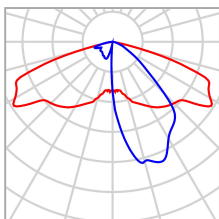
	Symbol	Calculated	Energy Consumption
Nábřežní - Svítidla č. 4 - 8	D_p	0.016 W/lx*m ²	–
TEKO M03 4k0 727 B104 C; Street/park luminaire (single side bottom)	D_e	0.4 kWh/m ² yr	101.2 kWh/yr

Silnice mezi RD - Svítidla č. 9, 10

Summary (according to EN 13201:2015)



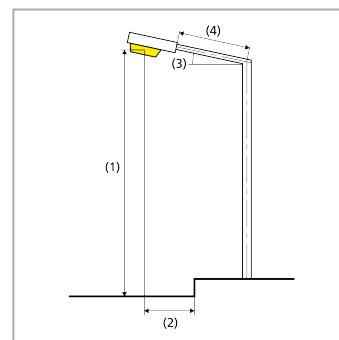
Silnice mezi RD - Svítidla č. 9, 10

Summary (according to EN 13201:2015)

Manufacturer	ELEKTRO LUMEN	P	11.6 W
Article name	TEKO M10 2k0 727 B104 C; Street/park Luminaire	Φ_{Lamp}	1800 lm
		$\Phi_{\text{Luminaire}}$	1567 lm
Fitting	1x LED	η	87.07 %

TEKO M10 2k0 727 B104 C; Street/park Luminaire (single side bottom)

Pole distance	37.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-1.400 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h; 100.0 %, 11.6 W
Wattage / route	313.2 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	$\geq 70^\circ$: 820 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	$\geq 80^\circ$: 48.5 cd/klm $\geq 90^\circ$: 1.29 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	0.90



Silnice mezi RD - Svítidla č. 9, 10

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

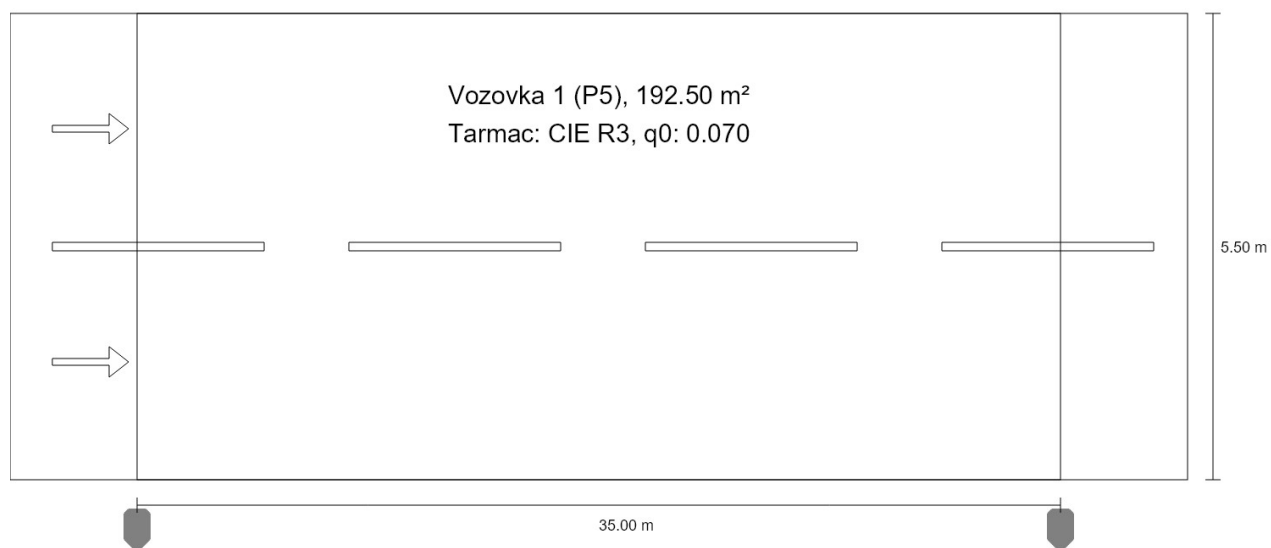
	Symbol	Calculated	Target	Check
Vozovka 1 (P5)	E_{av}	4.14 lx	[3.00 - 4.50] lx	✓
	E_{min}	0.99 lx	≥ 0.60 lx	✓

Results for energy efficiency indicators

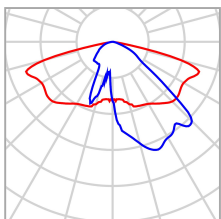
	Symbol	Calculated	Energy Consumption
Silnice mezi RD - Svítidla č. 9, 10	D_p	0.014 W/lx*m ²	–
TEKO M10 2k0 727 B104 C; Street/park Luminaire (single side bottom)	D_e	0.2 kWh/m ² yr	46.4 kWh/yr

Silnice mezi RD - Svítidla č. 11 - 14, 19, 20

Summary (according to EN 13201:2015)



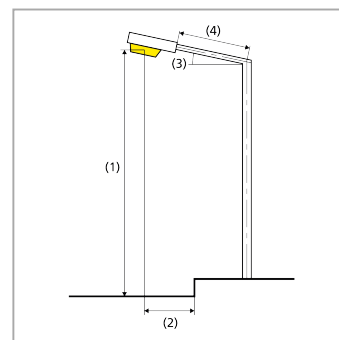
Silnice mezi RD - Svítidla č. 11 - 14, 19, 20

Summary (according to EN 13201:2015)

Manufacturer	ELEKTRO LUMEN	P	12.5 W
Article name	TEKO M12 2k0 727 B104 C; Street/park luminaire	Φ_{Lamp}	1764 lm
		$\Phi_{\text{Luminaire}}$	1395 lm
Fitting	1x LED	η	79.06 %

TEKO M12 2k0 727 B104 C; Street/park luminaire (single side bottom)

Pole distance	35.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-0.600 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h; 100.0 %, 12.5 W
Wattage / route	362.8 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	$\geq 70^\circ$: 785 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	$\geq 80^\circ$: 68.5 cd/klm $\geq 90^\circ$: 3.49 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	0.90



Silnice mezi RD - Svítidla č. 11 - 14, 19, 20

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

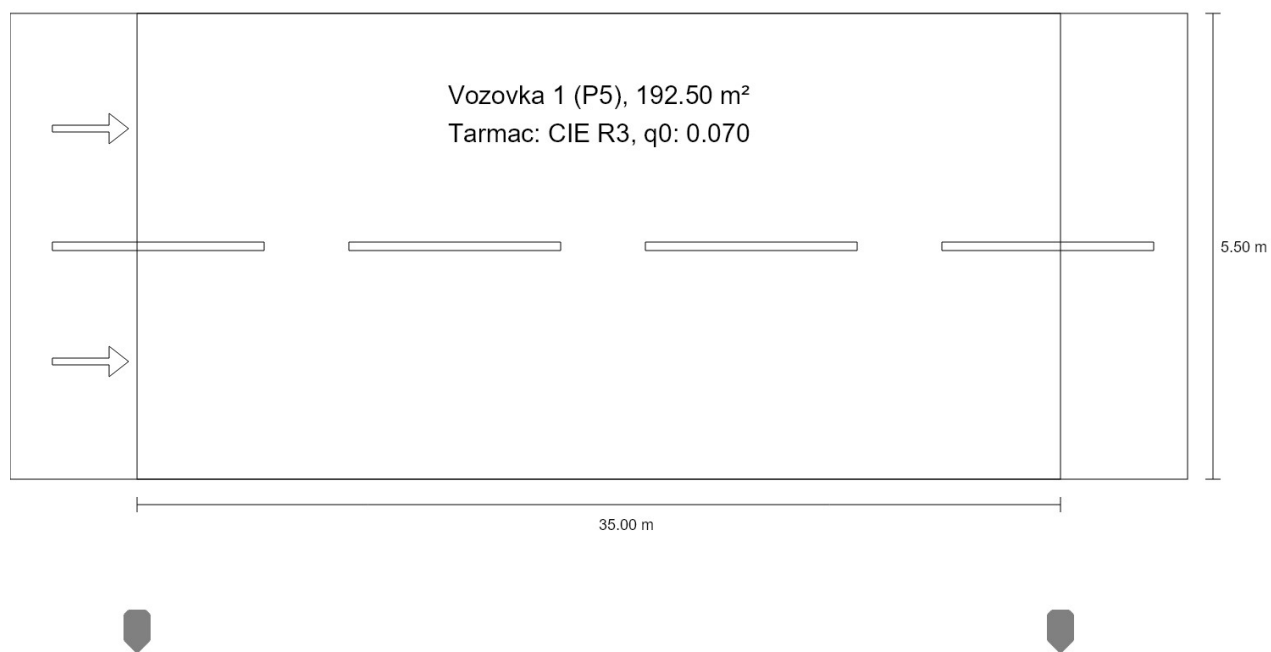
	Symbol	Calculated	Target	Check
Vozovka 1 (P5)	E_{av}	3.59 lx	[3.00 - 4.50] lx	✓
	E_{min}	0.87 lx	≥ 0.60 lx	✓

Results for energy efficiency indicators

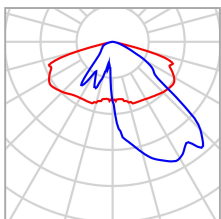
	Symbol	Calculated	Energy Consumption
Silnice mezi RD - Svítidla č. 11 - 14, 19, 20	D_p	0.018 W/lx*m ²	–
TEKO M12 2k0 727 B104 C; Street/park luminaire (single side bottom)	D_e	0.3 kWh/m ² yr	50.0 kWh/yr

Silnice mezi RD - Svítidla č. 15 - 18

Summary (according to EN 13201:2015)



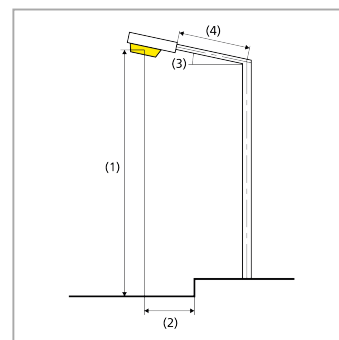
Silnice mezi RD - Svítidla č. 15 - 18

Summary (according to EN 13201:2015)

Manufacturer	ELEKTRO LUMEN	P	12.5 W
Article name	TEKO M06 2k0 727 B104 C; Street/park luminaire	Φ_{Lamp}	1764 lm
		$\Phi_{\text{Luminaire}}$	1451 lm
Fitting	1x LED	η	82.26 %

TEKO M06 2k0 727 B104 C; Street/park luminaire (single side bottom)

Pole distance	35.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-1.800 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h; 100.0 %, 12.5 W
Wattage / route	362.8 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 919 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 37.8 cd/klm ≥ 90°: 2.57 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	0.90



Silnice mezi RD - Svítidla č. 15 - 18

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Vozovka 1 (P5)	E_{av}	3.49 lx	[3.00 - 4.50] lx	✓
	E_{min}	0.84 lx	≥ 0.60 lx	✓

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Silnice mezi RD - Svítidla č. 15 - 18	D_p	0.019 W/lx*m ²	–
TEKO M06 2k0 727 B104 C; Street/park luminaire (single side bottom)	D_e	0.3 kWh/m ² yr	50.0 kWh/yr