

## Tehase tee 2 jalg- ja jalgrattatee ühenduse ehitusprojekt

Valgusarvutus - sõidutee

### Objekt

Tehase tee 2, Raasiku alevik, Raasiku vald, Harju maakond

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## Kontaktid

**MitiProjekt**



Raasiku vald

### Projekteerija

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### Tellijä

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Harjumaa 75201

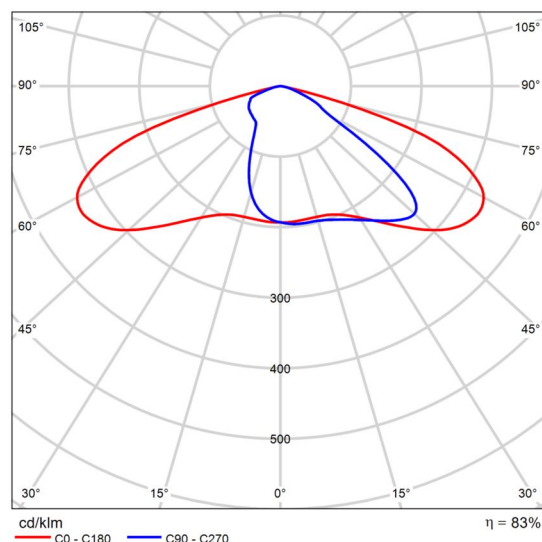
raasiku.vald@raasiku.ee

## Toote andmetabel

Philips - BRP102 T25 1 xLED72/730 DW



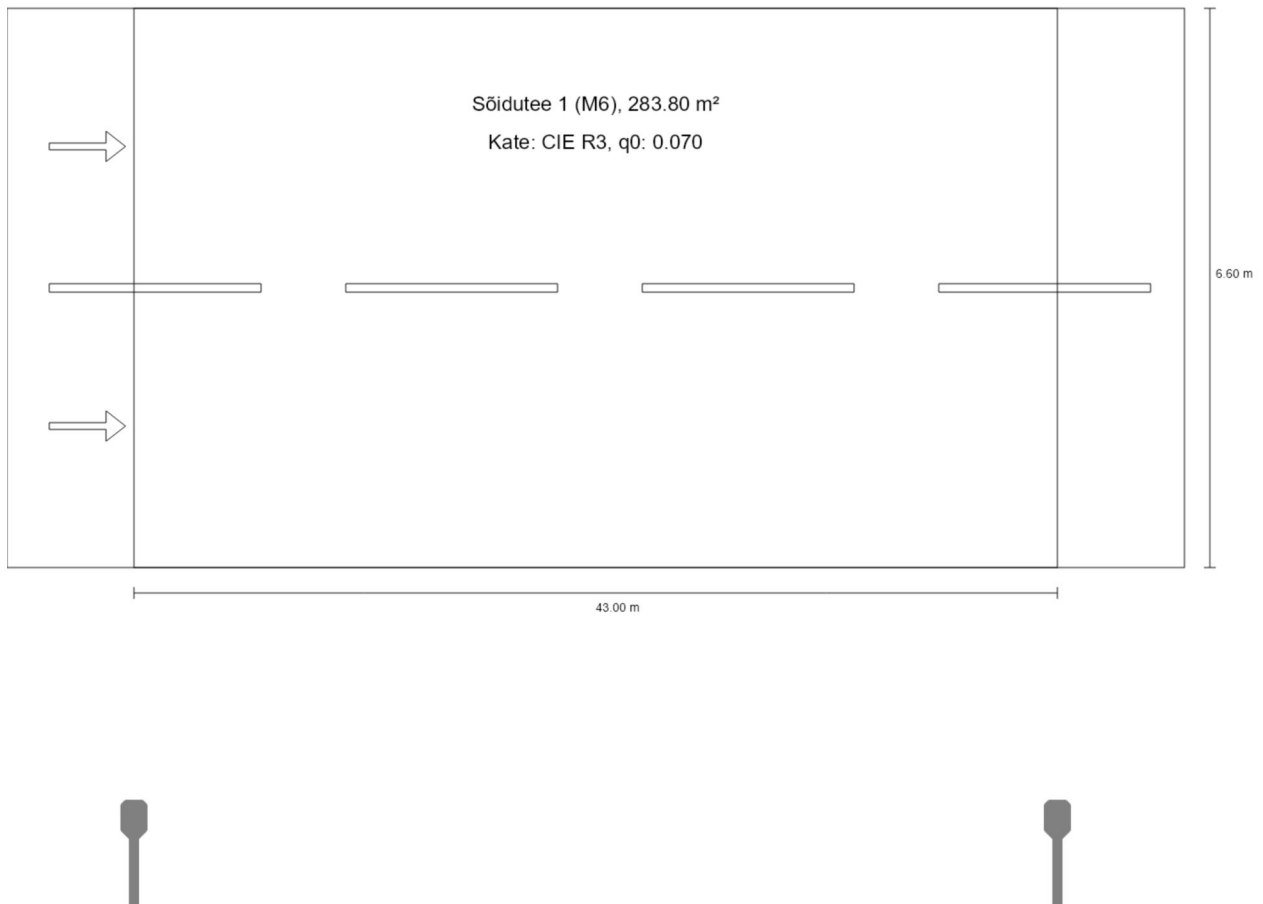
P	56.0 W
$\Phi_{\text{Lamp}}$	7200 lm
$\Phi_{\text{Valgusti}}$	5946 lm
$\eta$	82.58 %
Valgusviljakus	106.2 lm/W
CCT	3000 K
CRI	70



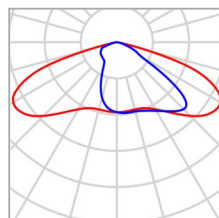
Polaarne LDC

For every project where light really matters, simply efficient street lighting. The Philips CoreLine Malaga LED family consists of two sizes for urban street lighting. Both use a Philips LED engine as a light source and a Philips Xitanium driver - a combination that results in energy savings of 50%. CoreLine Malaga LED has been designed to be as efficient as possible. It offers the same performance as the SON-T 50, 70, 100 and 150W luminaires it replaces, providing the right amount of light in the right place. Furthermore, as the LED light engine in CoreLine Malaga LED will last for the lifetime of the luminaire, it will return your investment simply by saving on the multiple lamp replacements required with SON-T. With its extended gland feature, the CoreLine Malaga LED luminaire is easy to install with no need to open the luminaire to connect the power cable. At the same time, the flat glass cover can be removed to allow access to the driver for maintenance, if required. Special versions of Malaga lighting are available with extra options. However, these specials are manufactured to order only, and have a longer delivery time. The options include: Wide beam (DW) optic, additional surge protection device (10kV), Marine Salt Protection (MSP) paint finish, Micro Mini Pro photocell 35 Lux, a built-in (glass) 6A fuse, and a 3-meter external flying lead cable (H07RN-F). Not all these options can always be combined with each other. For more advice, please consult your Philips partner.

## Kokkuvõte (kuni EN 13201:2015)



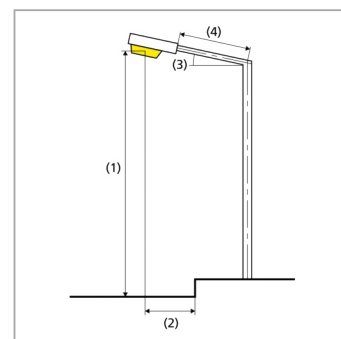
## Kokkuvõte (kuni EN 13201:2015)



Tootja	Philips	P	56.0 W
Artikli nimi	BRP102 T25 1 xLED72/730 DW	$\Phi_{\text{Lamp}}$	7200 lm
Varustatus	1x	$\Phi_{\text{Valgusti}}$	5946 lm
		$\eta$	82.58 %

## BRP102 T25 1 xLED72/730 DW (ühepoolne all)

Postide vahekaugus	43.000 m
(1) Valguspunkti kõrgus	8.000 m
(2) Valguspunkti üleulatus	-3.000 m
(3) Konsooli kalle	0.0°
(4) Konsooli pikkus	1.000 m
Aastased töötunnid	4000 h: 100.0 %, 56.0 W
Võimsus / marsruut	1288.0 W/km
ULR / ULOR	0.00 / 0.00
Max valgustugevused	$\geq 70^\circ$ : 636 cd/klm
Iga kord kõigis suundades, mis moodustavad	$\geq 80^\circ$ : 32.4 cd/klm
tarvitskõlbulikult paigaldatud valgusti korral alumise	$\geq 90^\circ$ : 0.00 cd/klm
vertikaaljoonega etteantud nurga.	
Valgustugevuse klass	G*3
Valgustugevuse väärtused [cd/klm] valgustugevuse	
klassi arvutamiseks lähtuvad vastavalt EN 13201:2015	
valgusti valgusvoost.	
Sulandumise indekssklass	D.6
MF	0.80



## Kokkuvõte (kuni EN 13201:2015)

### Hindamisväljade tulemused

Paigaldamisel arutati säilivusteguriga 0.80.

	Suurus	Arvutatud	Nõutav väärtus	Kontroll
Sõidutee 1 (M6)	$L_m$	0.35 cd/m <sup>2</sup>	$\geq 0.30$ cd/m <sup>2</sup>	✓
	$U_o$	0.45	$\geq 0.35$	✓
	$U_l$	0.46	$\geq 0.40$	✓
	TI	15 %	$\leq 20$ %	✓
	$R_{EI}$	0.42	$\geq 0.30$	✓

### Energiaefektiivsuse indikaatorite tulemused

	Suurus	Arvutatud	Energiatarbimine
Tänav 1	$D_p$	0.030 W/lx*m <sup>2</sup>	–
BRP102 T25 1 xLED72/730 DW (ühepoolne all)	$D_e$	0.8 kWh/m <sup>2</sup> a	224.0 kWh/a