



GREEN  
TECHNOLOGY  
MADE IN  
GERMANY

# FARA Vela

Specs, Dimensions and Modules



Fig. Sand blasted  
without powder coating

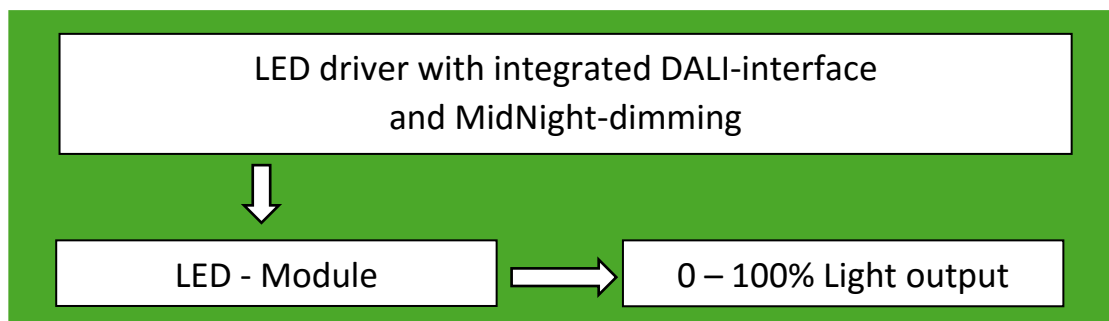
## Description

The LED-lamp FARA Vela is the innovative and economic solution for Outdoor- and Street illumination. Due to our patented technology we are able to customize the FARA Vela to get a completely individual product with optimized and homogeneous light distribution. Regional suppliers and selected components mark the FARA Vela as an ecological alternative to common lamps and luminaries. The high quality aluminium housing is serially powder coated in RAL 7043 (traffic grey B). But it is also available in all other RAL colour or simply in sand blasted edition.

## Applications



## Block Diagram



The lamps are equipped with an integrated, free programmable night setback with up to 10 dimming scenarios including the status OFF.\*

\* excluding the 15 W version.

## Technical Data

Type of luminaire:	Side-entry lamp, pole-mounted lamp
System power versions:	15 W, 30 W, 45 W, 60 W, 75 W, 90 W, 120 W
Light distribution street:	8 versions in standard program with lenses
Light distribution other:	7 versions in standard program with lenses
Colour temperature:	3000 K on request / 4000 K / 5000 K
Colour rendering index:	> 75 CRI
Light source:	4 x CREE/XPL on pluggable aluminium LED board
Net luminous flux:	2030- 15300 lumen
Dimming:	Stand-alone with integrated MidNight dimming and DALI interface or 1–10 V interface
Recommended pole height:	4 m to 20 m
Protection glass:	Tempered and coated safety glass with 98% transmission
Pole diameter:	35 mm – 80 mm steplessly adjustable
Body cooling concept:	Seawater-resistant aluminium design (patented)
Body colour:	RAL 7043 (traffic grey B), powder coated
Protection category:	IP67
Tilt angle:	-15° to 25° steplessly via central screw and safety bolt
Impact protection:	IK10 (Body), IK08 (Glass)
Luminaire access:	Tool-free, opening downwards
Protection class:	SKII / SKI on request
Input voltage:	198 V – 264 V/AC 12 V – 60 V/DC option
Frequency:	50 – 60 Hz
Live span:	L80 B10 C2 @ 80.000 h @ Ta 85 °C L80 B10 C2 @ >100.000 h @ Ta 25 °C
Power factor:	$\cos \varphi \geq 0,98$ (@ 100 % load) $\geq 0,90$ (@ 25 % load)
Operating temperature:	-40 °C...50 °C
Inrush current:	$I^2s < 0,15 \text{ A}^2\text{s}$
Surge protection:	L-PE/N-PE: 4 KV L-N:2 KV
Certifications:	CE: EN 60598-1 / EN 60598-2-3 / EN 62471 GOST: according GOST Norm ATEX: EN 60079-0 / 60089-15 / 60079-31 (DEKRA) DALI: IEC62386 RoHS: EN 50581
EMC test:	SGS TÜV Saarland EN 55015 / EN 61547 EN 61000-3-2 / EN 61000-3-3 EN 61000-4-2; 4-3;4-4;4-5; 4-6; 4-8; 4-11
Driver test:	EN 61347-2-13 / EN 62384 / EN 55015 / EN 61547 EN 61000-3-2
Driver test mark:	ENEC / VDE
WEEE-Reg.-ID:	DE587631941
Guarantee:	5 years

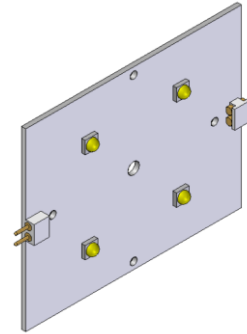
All given data above are standard specifications. Customized versions may be produced on request.

## LED- Board Types

Warm white 3000K: FULB007C04WW120

Neutral white 4000K: FULB007C04NW120

Daylight white 5000K: FULB007C04DW120



## Assembly Performances

Lamp	No. of boards	System performance	LED-current	Lum. flux min.*
Vela-015-xxxxx	1	15 W	1150 mA	2030 lm
Vela-030-xxxxx	2	30 W	1150 mA	4020 lm
Vela-045-xxxxx	3	45 W	1150 mA	5970 lm
Vela-060-xxxxx	4	60 W	1150 mA	7870 lm
Vela-075-xxxxx	5	75 W	1150 mA	9740 lm
Vela-090-xxxxx	5	90 W	1150 mA	11560 lm
Vela-120-xxxxx**	6	120 W	1150 mA	15240 lm

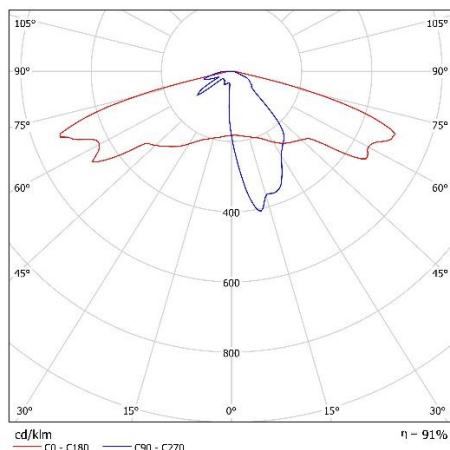
\* Net luminous flux value, losses are not included, according to lens value can vary

\*\* external power supply

## Lenses – Street Illumination

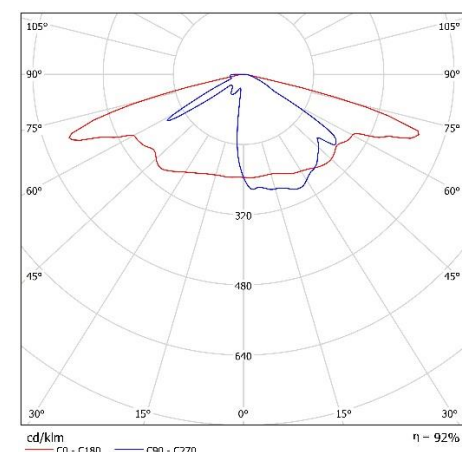
### Typ T2:

LVK-Polar (asymmetrical)

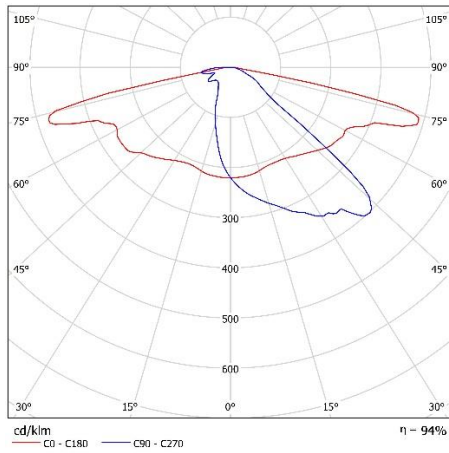


### Typ T3:

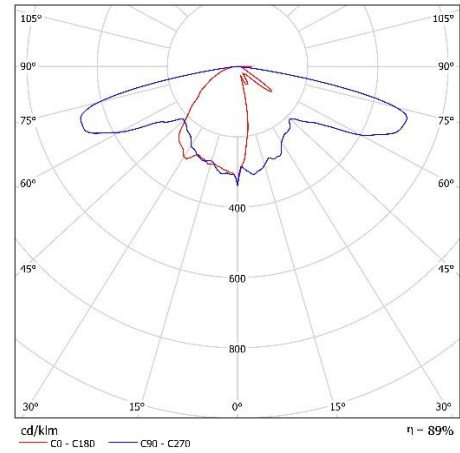
LVK-Polar (asymmetrical)



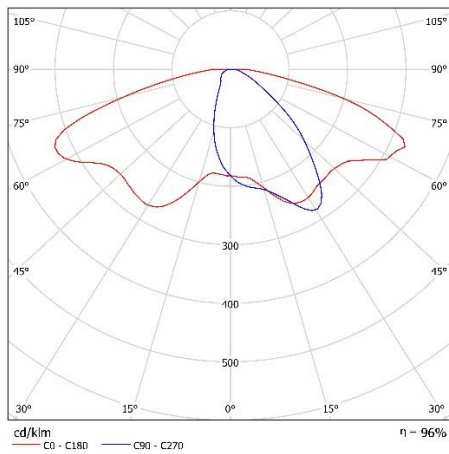
**Typ ME:**  
LVK-Polar (asymmetrical)



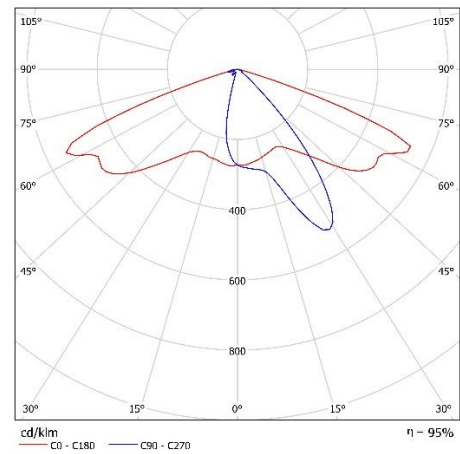
**Typ DWC:**  
LVK-Polar (asymmetrical)



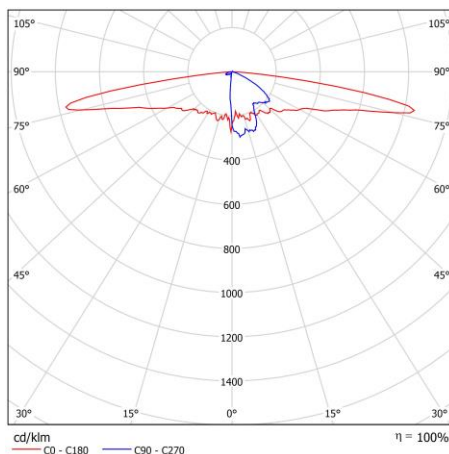
**Typ DNW:**  
LVK-Polar (asymmetrical)



**Typ A-T:**  
LVK-Polar (asymmetrical)

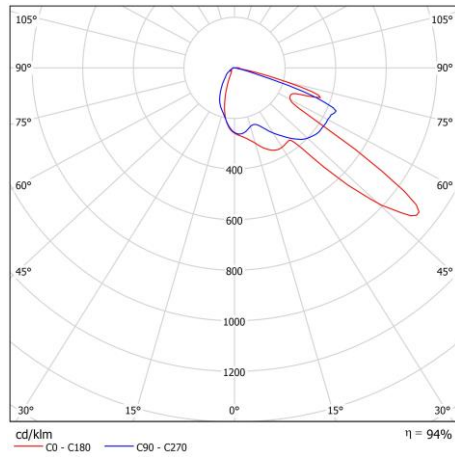


**Typ SCL:**  
LVK-Polar (asymmetrical)



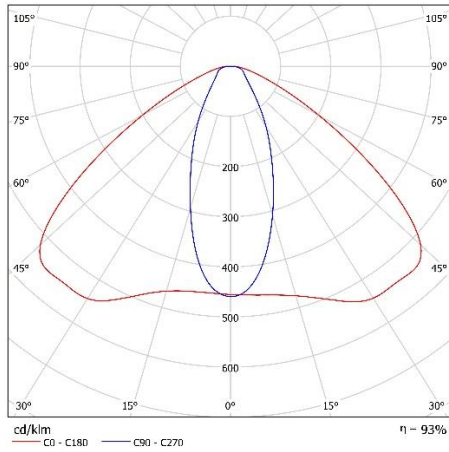
## Lenses for Pedestrian Crossing

### Typ PX: LVK-Polar (asymmetrical)

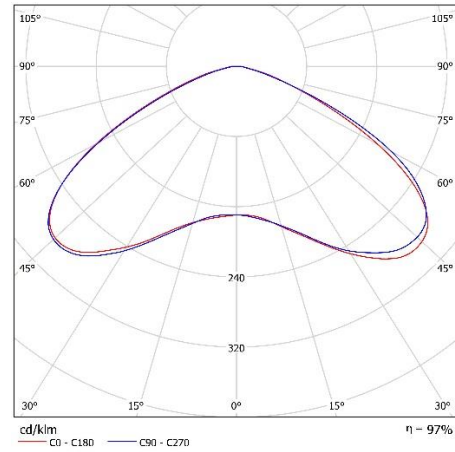


## Lenses for Places and Objects

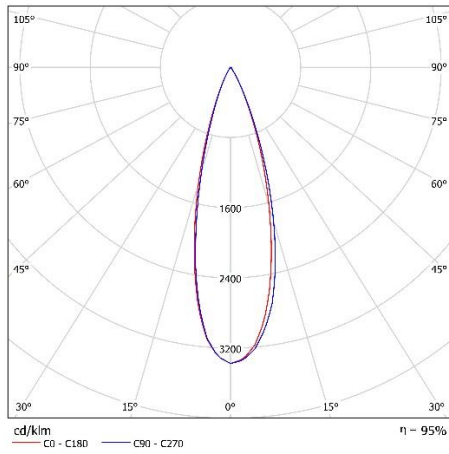
### Typ B2-STP: LVK-Polar (119° + 42°)



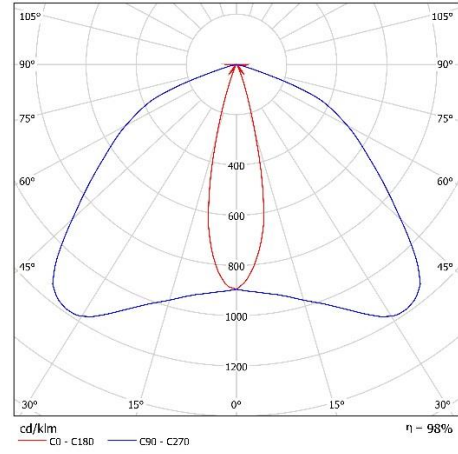
### Typ C-STP: LVK-Polar (138°)



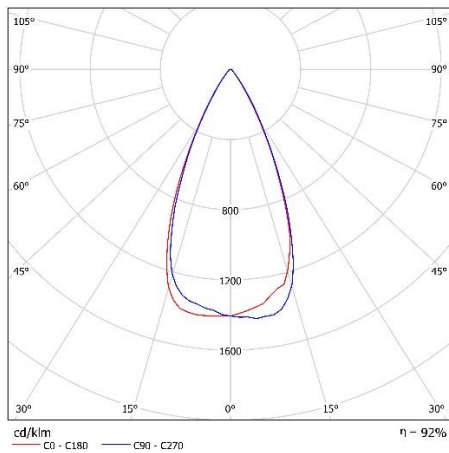
**Typ HB-M:**  
LVK-Polar (33°)



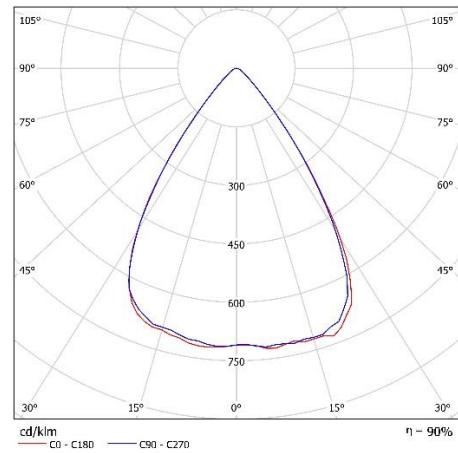
**Typ HB-O:**  
LVK-Polar (27° + 112°)



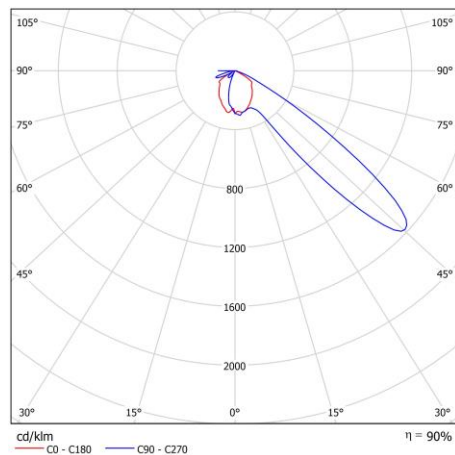
**Typ HB-RW:**  
LVK-Polar (48°)



**Typ HB-WW:**  
LVK-Polar (69°)



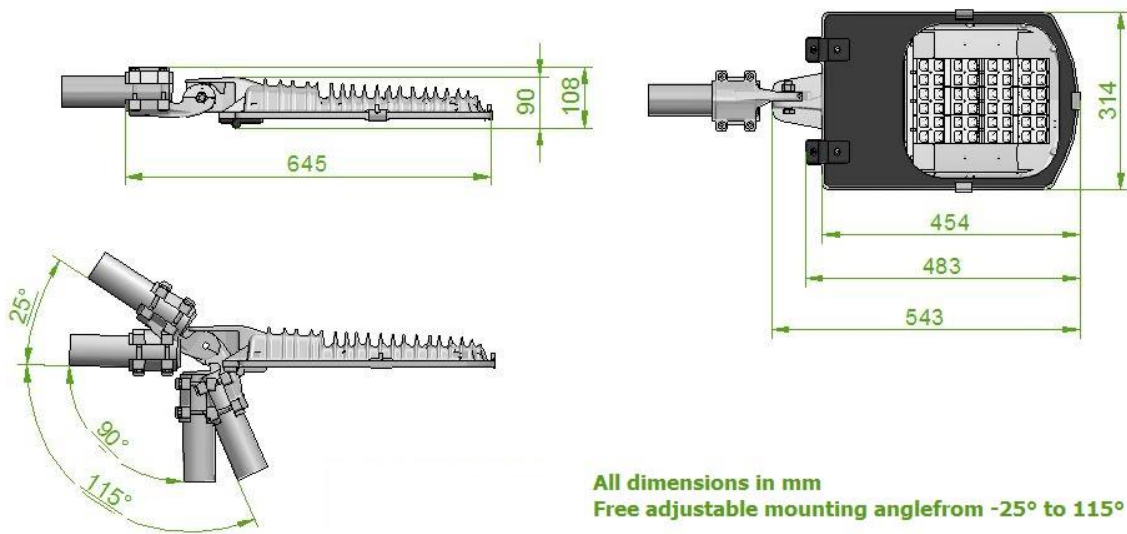
**Typ FN:**  
LVK-Polar (asymmetrical)



## Mechanical Specification

Dimensions: (l x w x h) 645 mm x 314 mm x 90 mm

Weight: 8,5 kg to 9,5 kg, according to type  
without packaging



All dimensions in mm  
Free adjustable mounting angle from -25° to 115°

## Control units

### iMCU - Intelligent outdoor lighting control system for outdoors

Developed for illumination of roads and near buildings, the controller enables control of magnetic and electronic ballasts with 1 to 10 V and DALI interface. Individually programmable and updatable, it provides all the functions of a light management system but as a stand-alone unit without elaborate commissioning.\*



### OLC-Module, Outdoor Light Controller via RF

Developed to control complex outdoor light systems the OLC-module allows direct access from the central control unit to the lamp. Data can be exchanged and analyzed bidirectional. The lamp can be controlled in real time mode from the control centre.

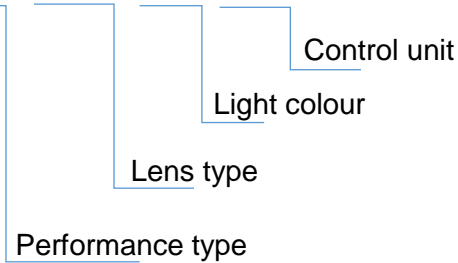


\* for additional information see separate data sheet

## Type Matrix

Structure of ordering code, example

### FARA Vela-045-DNW-WW-OLC



Performance type						
Vela-015	Vela-030	Vela-045	Vela-060	Vela-075	Vela-090	Vela-120

Lenses for street illumination							
T2	T3	ME	DWC	DNW	A-T	SCL	
Lenses for pedestrian crossing							
PX							
Lenses for places and objects							
B2-STP	C-STP	HB-M	HB-O	HB-RW	HB-WW	FN	

Light colour		
WW (3000K) only on request	NW (4000K) standard	DW (5000K)

Control unit	
iMCU	OLC