

TECHNICAL INFORMATION

PRO FLOW[®]

STREETS AND ROADS



EASY | LED



PRO FLOW

PRO Flow is smart: The streamlined and compact PRO Flow suits all kinds of environments from roads to highways. The clean Scandinavian design stays fresh through the whole lifespan of the luminaire.

PRO Flow is cost effective: Assembled in a die-cast aluminium body, the PRO Flow will endure for years to come. The luminaire is designed to require very little maintenance and its components are replaceable.

PRO Flow creates safety: The familiar Easy LED road and area lighting optics are known for their efficiency. They make the PRO Flow suitable for all kinds of environments. The lens cover is hardened glass and extra bright.

- A brand new luminaire with all the familiar Easy LED characteristics, including DALI control.

- A versatile smart luminaire, which can be fitted, for example, with wireless control or customisable driver. The revised Kaamos dimmer has also even more options than before.

- Upgradeable and easy to maintain. The luminaire's construction is future proof and it has an automatic maintenance switch for safety.

- Durable. The blasted aluminium surface with a self-cleaning cooling system guarantees an exceptional performance level. IK09 and IP66 certified.

- Easy to install and adjust. The automatic power switch and body that stays open provide safety during maintenance. The integrated mounting angle allows light adjustment also after installation.

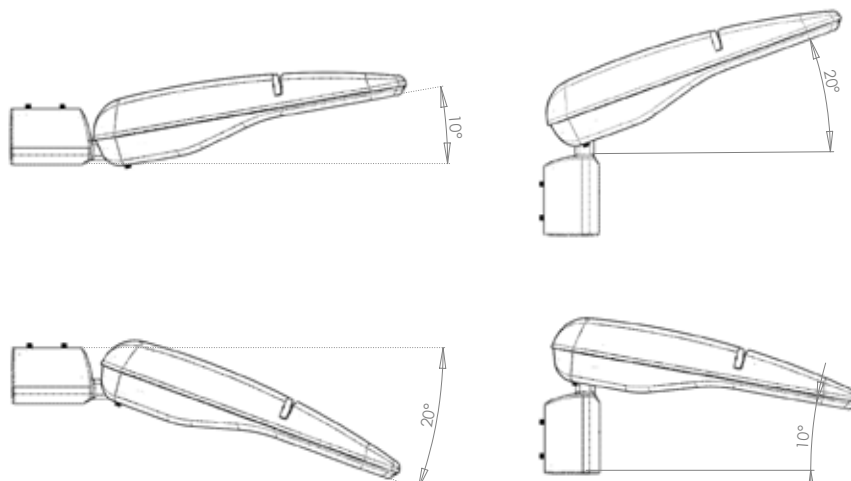
- Designed and manufactured in Finland.

- Energy efficient. The PRO Flow has a lifespan of over 30 years and needs only a little maintenance.

FEATURES

Housing:	Aluminium
Lens cover:	Extra bright hardened glass
Coating:	Aluminium grey, shot-blasted, textured body. Partial aluminium grey powder coat on select models. Available powder-coated and in RAL colours.
Optics:	Easy LED road and area optics: 94, 80, 64, 48, 24 and 12 leds: SP -optics or 60, 44, 30 and 14 leds: UP -optics
IP class:	IP66
IK class:	IK09
Temperature range:	Designed for ambient temperatures of -40°C ...+55°C (95 % RH), depending on the model
Control:	Integrated DALI. In addition a wide range of intelligent lighting controls and CLO available.
Input voltage:	230 VAC (operation voltage range 170 . . .264 VAC)
Input frequency:	50...60 Hz
Power Factor (PF) typical:	L -models: > 0,95, S -models: Input power >22W: >0,95; Input power: <22W: >0,9
Surge protection:	10 kV L-GND, N-GND (EN 61000-4-5), 6 kV L-N (EN 61547)
Automatic thermal protection:	Inbuilt 2-stage protection with advanced hysteresis
Luminaire protection class	I as standard, II available
Installation:	Vertical and horizontal arm 60-48 mm as standard 34-48 mm available Adjustable in 5-degree steps
Weight:	L models: 13,7 kg, S models: 5,7 kg
Delivery:	Fully assembled
Guarantee:	5 years
Accessories:	Pre-assembled installation cable, Retrofitted light visors, Alternative fittings, Optional internal surge protection device for improved overvoltage and lightning protection

ADJUSTMENT RANGE (L-and S-model)



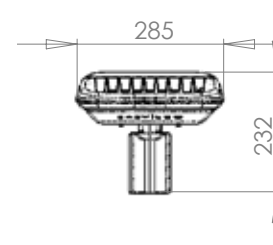
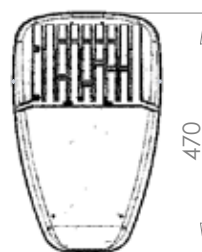
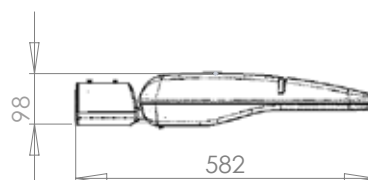
PRO Flow S

Driving current [mA]	350 mA	420 mA	500 mA	600 mA	700 mA	850 mA	1000 mA
Model	12-350	12-420	12-500	12-600	12-700	12-850	12-1000
LEDs	12						
DALI addresses	1						
Input power [W]	14 W	17 W	20 W	23 W	27 W	33 W	39 W
Luminous flux [lm]	1720 lm	2020 lm	2350 lm	2750 lm	3180 lm	3700 lm	4200 lm

Model	14-350	14-420	14-500	14-600	14-700	14-850	14-1000
LEDs	14						
DALI addresses	1						
Input power [W]	16 W	19 W	22 W	26 W	31 W	37 W	44 W
Luminous flux [lm]	1960 lm	2310 lm	2690 lm	3140 lm	3640 lm	4230 lm	4790 lm
LED unit lumen maintenance L90B10, C10 L80B10, C10:	>200 000						170 000
Temperature range [°C]	-40...+50 °C		-40...+45 °C			-40...+40 °C	

Driving current [mA]	350 mA	420 mA	500 mA	600 mA	700 mA	850 mA	1000 mA
Model	24-350	24-420	24-500	24-600	24-700	24-850	24-1000
LEDs	24						
DALI addresses	1						
Input power [W]	26 W	31 W	37 W	44 W	52 W	63 W	74 W
Luminous flux [lm]	3370 lm	3950 lm	4580 lm	5300 lm	6020 lm	6890 lm	7670 lm

Model	30-350	30-420	30-500	30-600	30-700	30-850	30-1000
LEDs	30						
DALI addresses	1						
Input power [W]	32 W	38 W	45 W	54 W	63 W	76 W	90 W
Luminous flux [lm]	4270 lm	5000 lm	5790 lm	6710 lm	7570 lm	8470 lm	9450 lm
LED unit lumen maintenance L90B10, C10 L80B10, C10:	>200 000			>180 000	>150 000	>80 000	>50 000
Temperature range [°C]	-40...+55 °C		-40...+50 °C		-40...+45 °C	-40...+40 °C	-40...+30 °C



	Standard		
CCT (nominal)	3000 K	4000 K	5000 K
CRI (typical)	72		
Luminaire luminous efficacy typical*	120 lm/W	133 lm/W	135 lm/W

* For latest values, ask for light distribution files.



PRO Flow L

Driving current [mA]	350 mA	500 mA	600 mA	700 mA	850 mA	1050 mA
Model	44-350	44-500	44-600	44-700	44-850	44-1050
LEDs	44					
DALI addresses	1					
Input power [W]	47 W	66 W	79 W	92 W	113 W	141 W
Luminous flux [lm]	6630 lm	9150 lm	10720 lm	12200 lm	14430 lm	17050 lm
LED unit lumen maintenance L90B10, C10	>150 000 h					130 000 h
L80B10, C10:	>150 000 h					
Temperature range [°C]	-40°C ...+50°C			-40°C ...+45°C		-40°C ...+40°C

Driving current [mA]	350 mA	500 mA	600 mA	700 mA	850 mA	1050 mA
Model	48-350	48-500	48-600	48-700	48-850	48-1050
LEDs	48					
DALI addresses	1					
Input power [W]	51 W	72 W	86 W	101 W	123 W	153 W
Luminous flux [lm]	6970 lm	9640 lm	11270 lm	12900 lm	15130 lm	17840 lm
LED unit lumen maintenance L90B10, C10	>150 000 h					
L80B10, C10:	>150 000 h					
Temperature range [°C]	-40°C ...+50°C			-40°C ...+45°C		-40°C ...+40°C

Driving current [mA]	350 mA	500 mA	600 mA	700 mA	850 mA	1050 mA
Model	60-350	60-500	60-600	60-700	60-850	60-1050
LEDs	60					
DALI addresses	1					
Input power [W]	63 W	89 W	107 W	125 W	152 W	191 W
Luminous flux [lm]	8860 lm	12290 lm	14480 lm	16490 lm	19260 lm	22610 lm
LED unit lumen maintenance L90B10, C10	>150 000 h					100 000 h
L80B10, C10:	>150 000 h					
Temperature range [°C]	-40°C ...+50°C		-40°C ...+45°C		-40°C ...+40°C	

Driving current [mA]	350 mA	500 mA	600 mA	700 mA	850 mA	1050 mA
Model	64-350	64-500	64-600	64-700	64-850	64-1050
LEDs	64					
DALI addresses	1				2	
Input power [W]	67 W	95 W	114 W	133 W	162 W	201 W
Luminous flux [lm]	9340 lm	12930 lm	15220 lm	17340 lm	20300 lm	23580 lm
LED unit lumen maintenance L90B10, C10	>150 000 h					130 000 h
L80B10, C10:	>150 000 h					
Temperature range [°C]	-40°C ...+50°C		-40°C ...+45°C		-40°C ...+40°C	-40°C ...+35°C

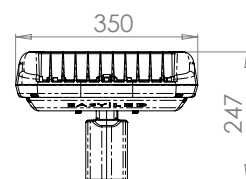
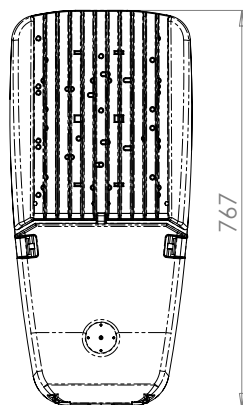
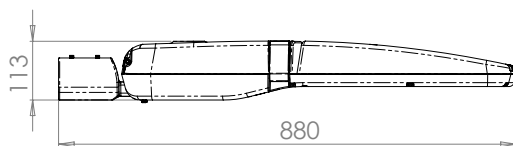
PRO Flow L

Driving current [mA]	350 mA	500 mA	600 mA	700 mA	850 mA	1050 mA
Model	80-350	80-500	80-600	80-700	80-850	80-1050
LEDs	80					
DALI addresses	1			2		
Input power [W]	83 W	118 W	141 W	166 W	204 W	252 W
Luminous flux [lm]	11810 lm	16240 lm	18950 lm	21530 lm	25190 lm	29700 lm
LED unit lumen maintenance L90B10, C10 L80B10, C10:	>150 000 h					120 000 h
Temperature range [°C]	-40°C ...+50°C	-40°C ...+45°C		-40°C ...+40°C	-40°C ...+35°C	

Driving current [mA]	350 mA	500 mA	600 mA	700 mA	850 mA	920 mA
Model	96-350	96-500	96-600	96-700	96-850	96-920
LEDs	96					
DALI addresses	1			2		
Input power [W]	99 W	141 W	168 W	200 W	242 W	263 W
Luminous flux [lm]	14160 lm	19420 lm	22520 lm	25800 lm	30170 lm	32040 lm
LED unit lumen maintenance L90B10, C10 L80B10, C10:	>150 000 h					120 000 h
Temperature range [°C]	-40°C ...+50°C	-40°C ...+45°C	-40°C ...+40°C		-40°C ...+35°C	

	Standard		
CCT (nominal)	3000 K	4000 K	5000 K
CRI (typical)	72		
Luminaire luminous efficacy typical*	133 lm/W	143 lm/W	144 lm/W

* For latest values, ask for light distribution files.



PRO Flow L



PRO Flow S





EASY LED IS THE BRIGHT CHOICE

Investing in high quality LED lighting today will pay off far into the future. Easy LED Oy is a Finnish company specialised in manufacturing of energy efficient LED lighting systems for different uses and environments, such as sports arenas, industrial premises, roads and areas as well as retail and office spaces.

**EASY
LED**

Easy LED Oy
Meriniitynkatu 11
FI-24100 Salo - Finland
p. +358 2 737 4420

easyled.fi

