# PRO FLOW®

**STREET AND AREA LIGHTING**




The energy saving and cost effective PRO Flow LED luminaires are designed to meet the newest regulations in street and area lighting. The pure Scandinavian design and a range of power options of the luminaire make it suitable for all kinds of environments from streets to parking lots and parks.

EASY LED



# PRO FLOW

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

PRO Flow is cost effective: Assembled in a die casting aluminium body, the PRO Flow will endure for years to come. The luminaire requires very little maintenance and its components are easy to replace.

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

- A brand new Easy LED luminaire with all the familiar characteristics, like DALI-2 control.

- A versatile smart luminaire, ready for with wireless control or customisable driver. The revised Kaamos dimmer has even more options than before.

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

- Durable. The surface texture of the casing and the self-cleaning cooling system guarantee an exceptional performance level.

- IK09 and IP66 certified.

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

- Designed and manufactured in Finland.

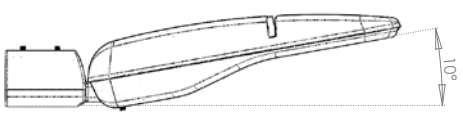
- Energy efficient. The PRO Flow has a lifespan of over 30 years and needs only a little maintenance.

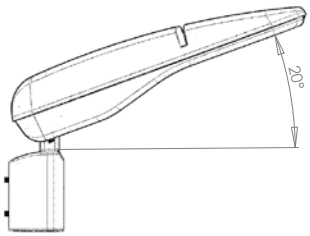
## TECHNICAL DATA

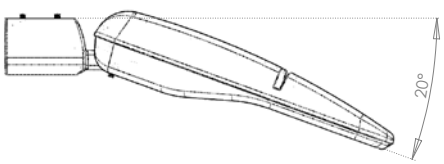
| | |
|---|---|
| **Body:** | Aluminium |
| **Lens cover:** | Extra bright hardened glass |
| **Coating:** | Blasted textured aluminium grey body. Available in powder-coated and in all RAL colours. Painted cooling fins on the efficient L-models. |
| **Optics:** | Easy LED road and area optics |
| | SP-optics: 94, 80, 64, 48, 40, 32, 24 or 12 LEDs |
| | UP-optics: 60, 44, 30 or 14 LEDs |
| **IP-class** | IP66 |
| **IK-class** | IK09 |
| **Temperature range** | Designed for operating temperatures of -40°C ...+55°C (95 % RH) depending on model. |
| **Control** | Built-in DALI-2. Compatible with third party control systems. CLO lumen maintenance compensation and several intelligent control systems available. Luminaires are available with Zhaga or NEMA compliant connectors. The recommended minimum dimming level for PRO Flow L is 60W to ensure effective removal of condensation. |
| **Input voltage:** | 230 VAC (operation range: 170...264 VAC) |
| **Input frequency:** | 50...60 Hz |
| **Power factor (PF):** | S-models >22 W: >0,95, input power <22 W: >0,9 |
| | M & L models >0,95, Z models >0,9 |
| **Inrush current control:** | S-, M- ja L -models: 10 kV L-GND, N-GND (EN 61000-4-5), 6 kV L-N (EN 61547)<br>Z-models: 10 kV L-GND, N-GND (EN 61000-4-5), 6 kV L-N (EN 61000-4-5)<br>Z S12-models: 8 kV L-GND, N-GND (EN 61000-4-5), 6 kV L-N (EN 61000-4-5) |
| **Automatic thermal protection:** | Built-in 2-stage protection with advanced hysteresis |
| **Luminaire protection class:** | I, II available |
| **Installation:** | Vertical and horizontal arm 60 - 34mm as standard |
| | Adjustable in 5-degree steps. |
| **Weight** | S-models: 5,7 kg (Z: 6,1 kg) |
| | M-models: 6,5 kg |
| | L-models: 13,7 kg |
| **Delivery:** | Fully assembled |
| **Guarantee:** | 5 years |
| **Accessories:** | Pre-assembled installation cable, retrofitted light visors, optional internal surge protection device for improved overvoltage and lightning protection, alternative fittings |

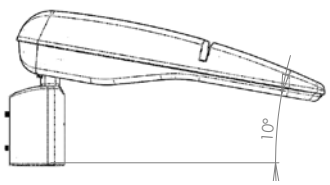
## ADJUSTMENT RANGE (ALL MODELS)

LIIKENNEVIRASTON TYYPPIHYVÄKSYNTÄ PRO Flow



# PRO Flow S



| Model | 12-350 | 12-420 | 12-500 | 12-600 | 12-700 | 12-850 | 12-1000 |
|---|---|---|---|---|---|---|---|
| LEDs | 12 pcs. | | | | | | |
| DALI addresses | 1 | | | | | | |
| Input power [W] | 14 W | 16 W | 19 W | 23 W | 26 W | 32 W | 38 W |
| Luminous flux [lm] | 1830 lm | 2150 lm | 2520 lm | 2960 lm | 3380 lm | 3980 lm | 4550 lm |

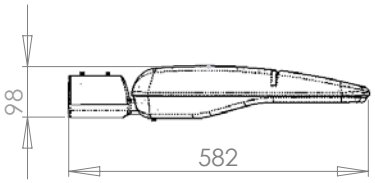
| Model | 14-350 | 14-420 | 14-500 | 14-600 | 14-700 | 14-850 | 14-1000 |
|---|---|---|---|---|---|---|---|
| LEDs | 14 pcs. | | | | | | |
| DALI addresses | 1 | | | | | | |
| Input power [W] | 16 W | 19 W | 22 W | 26 W | 31 W | 37 W | 44 W |
| Luminous flux [lm] | 2130 lm | 2510 lm | 2930 lm | 3450 lm | 3940 lm | 4630 lm | 5280 lm |
| LED unit lumen maintenance L90B10, C10: | >200 000 | | | | | | 170 000 |
| L80B10, C10: | >200 000 | | | | | | |
| Temperature range [°C] | -40...+50 °C | | | -40...+45 °C | | -40...+40 °C | |

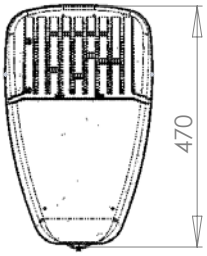
| Model | 24-350 | 24-420 | 24-500 | 24-600 | 24-700 | 24-850 | 24-1000 |
|---|---|---|---|---|---|---|---|
| LEDs | 24 pcs. | | | | | | |
| DALI addresses | 1 | | | | | | |
| Input power [W] | 26 W | 31 W | 37 W | 44 W | 52 W | 63 W | 74 W |
| Luminous flux [lm] | 3650 lm | 4300 lm | 5020 lm | 5870 lm | 6690 lm | 7820 lm | 8880 lm |

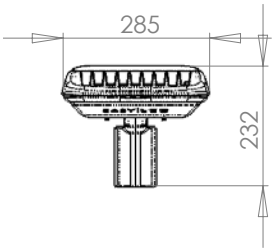
| Model | 30-350 | 30-420 | 30-500 | 30-600 | 30-700 | 30-850 | 30-1000 |
|---|---|---|---|---|---|---|---|
| LEDs | 30 pcs. | | | | | | |
| DALI addresses | 1 | | | | | | |
| Input power [W] | 32 W | 38 W | 45 W | 54 W | 63 W | 76 W | 90 W |
| Luminous flux [lm] | 4440 lm | 5250 lm | 6120 lm | 7160 lm | 8140 lm | 9540 lm | 10730 lm |
| LED unit lumen maintenance L90B10, C10: | >200 000 | | | >180 000 | >150 000 | >80 000 | >50 000 |
| L80B10, C10: | >200 000 | | | | | >180 000 | >120 000 |
| 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) | | | |
| Luminaire luminous efficacy typical* | 136 lm/W | 147 lm/W | 146 lm/W |

* For latest values, ask for light distribution files.



# PRO Flow M

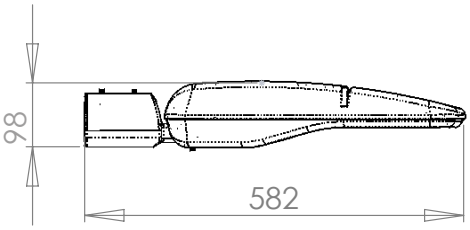


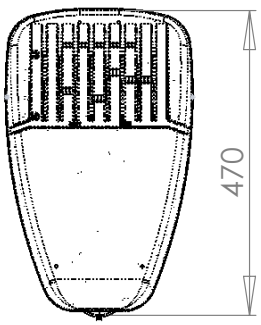
| Model | 32-350 | 32-500 | 32-600 | 32-700 | 32-850 | 32-1000 |
|---|---|---|---|---|---|---|
| LEDs | 32 pcs. | | | | | |
| DALI addresses | 1 | | | | | |
| Input power [W] | 34 W | 48 W | 57 W | 67 W | 81 W | 96 W |
| Luminous flux [lm] | 4480 lm | 6160 lm | 7190 lm | 8280 lm | 9660 lm | 10890 lm |
| 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 | -40°C...+35°C | |

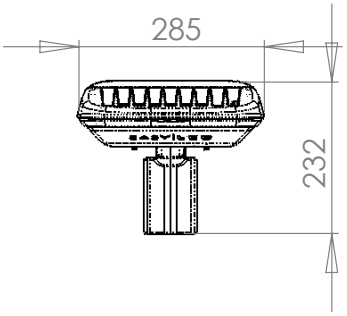
| Model | 40-350 | 40-500 | 40-600 | 40-700 | 40-850 | 40-1000 | 40-1050 |
|---|---|---|---|---|---|---|---|
| LEDs | 40 pcs. | | | | | | |
| DALI addresses | 1 | | | | | | |
| Input power [W] | 42 W | 59 W | 71 W | 83 W | 101 W | 120 W | 126 W |
| Luminous flux [lm] | 5570 lm | 7660 lm | 8940 lm | 10140 lm | 11890 lm | 13430 lm | 13880 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 | -40°C...+35°C | | -40°C...+30°C | -40°C...+25°C |

| | Standard | | |
|---|---|---|---|
| CCT (nominal) | 3000 K | **4000 K** | 5000 K |
| CRI (typical) | 72 | | |
| Luminaire luminous efficacy typical* | 129lm/W | 140 lm/W | 139 lm/W |

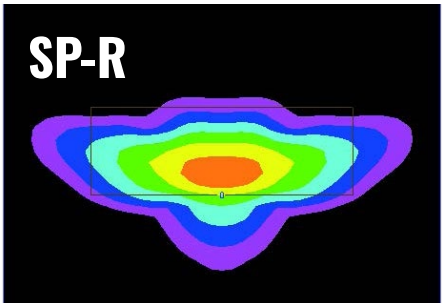
* For latest values, ask for light distribution files.



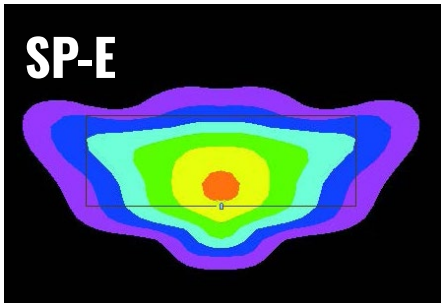



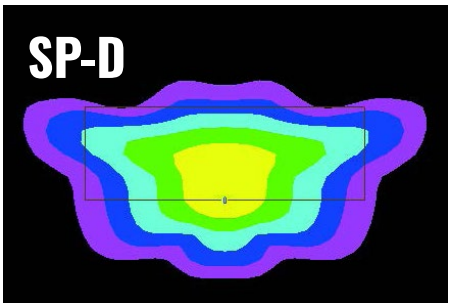
# PRO Flow S optics tool



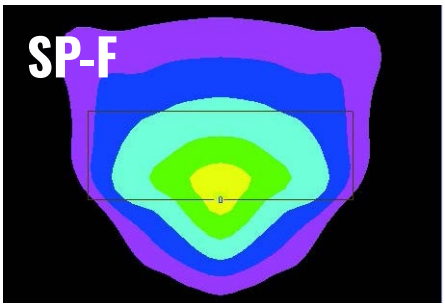

Optics for very narrow roads with normal pole spacing. Highly energy efficient.



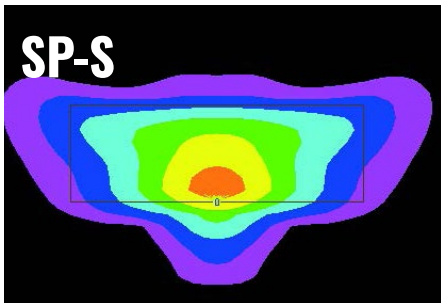

For wide roads and long pole spacing. Offers also some back area light.



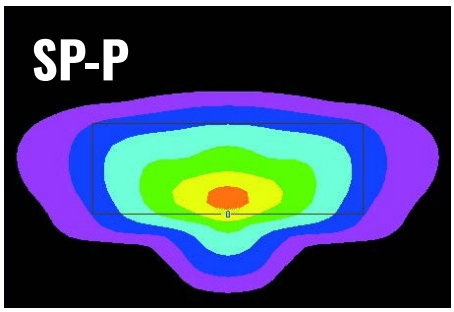

As SP-E but offers a lot of back area light.



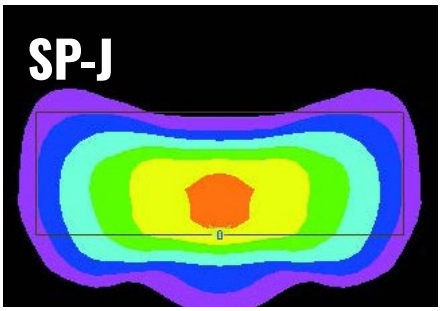

Area light for example for parking lots, efficient light from relatively low poles to a wide area.



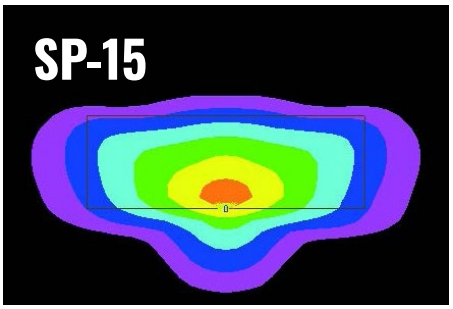

Optics for relatively wide roads and for relatively long pole spacing, no back area light.



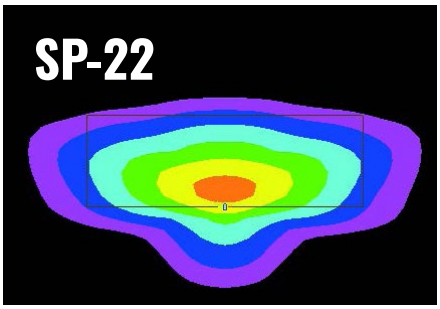

General optics for suburban roads, very long pole spacing, even light in wet conditions if far from road, also suitable for relatively wide roads, cycleways and exercise paths.



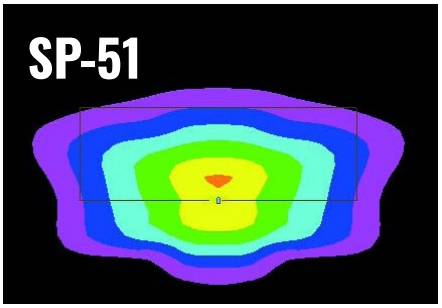

Road/area optics for short pole spacing. Offers no back area light.




General optics for roads with very long pole spacing. Offers even light also in wet conditions. Relatively wide road profile (lits also opposite cycleways if the pole spacing is short)

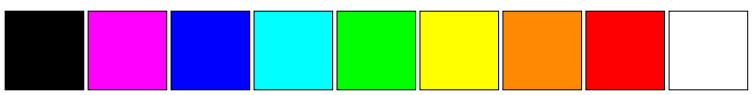



Very long pole spacing, offers even light in wet conditions. Energy efficient. Suitable also for cycleways and exercise paths




A lot of back area light optic for long pole spacing. Energy efficient if cycleways is located behind the poles

**ILLUMINANCE (IN LUX, LX)**




All light patterns depict lights installed at 6 m height and 5° degree angle. Light output 5000 lm. In light patterns the lights are placed at the edge of a 30x10 m square.

# PRO Flow® – cost effective smart luminaire for street and area lighting.




EASYLED

EASY LED

## 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.

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TEHTY SUOMESSA
MADE IN FINLAND

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