

SPECIFICATIONS



SPORTS • INDUSTRY • RETAIL • LEISURE • AGRICULTURE

PRO+ SERIES



EASY|LED



PRO⁺ SERIES

Top quality made in Finland!
The tried and tested design & structure
of PRO-series

Versatile and maintenance free

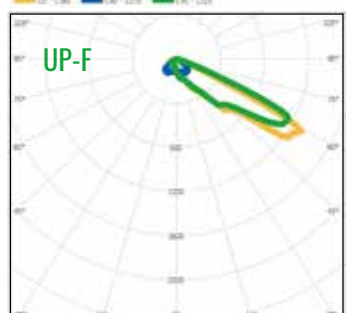
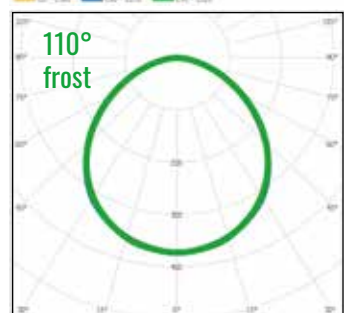
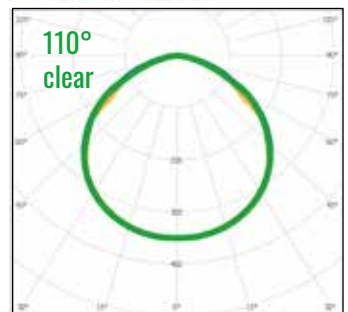
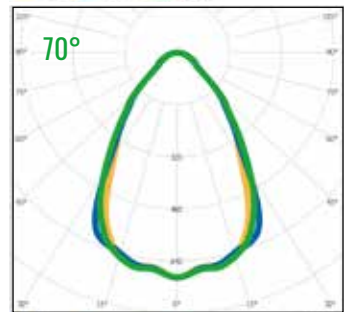
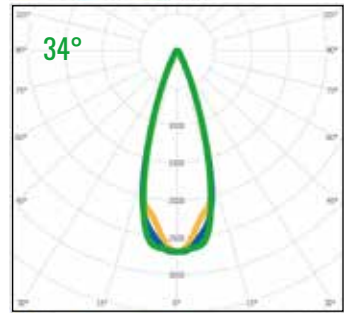
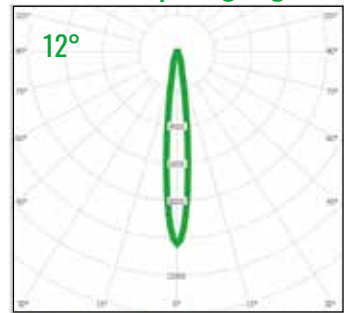
PRO⁺ Series X -technical details

Housing	Anodized aluminium – other surface treatments available in RAL colours, Ceramic coating for entire luminaire available for even improved wear resistance
Optics	Easy LED optimized UV-stabilized PC optics with high impact resistance
Light quality and dimming performance	HD-FF - Flicker Free dimming down to 70 mA and with PWM technology down to 7mA (400 - 500 Hz).
Protection rating	IP66, D-marking and ball impact safe. IK09 available.
Temperature range	Designed for operating temperatures of 290mA: -40°C ...+45°C with thermal protection activation at +50°C (PRO+ 4X has 5°C higher upper limits) or 350mA: -40°C ...+40°C with thermal protection activation at +45°C (PRO+ 4X has 5°C higher upper limits) or 420mA: -40°C ...+30°C with thermal protection activation at +35°C (PRO+ 4X has 5°C higher upper limits) (95 % RH)
Automatic thermal protection	Inbuilt protection with output current dimming and advanced hysteresis
LED unit lumen maintenance L90B10, C10	>200 000 h
Remaining luminous flux after 100 000 h	0,95
Control	Integrated DALI, 1-10V, CLO and Kaamos available
Connection	Preassembled rubber cable (plug available). 2x4-PE QPD-connectors for series installation with M12 for dimming control available
Safety light option	Available - 175 - 275 VDC
Input voltage	230 VAC (operation voltage range: 198 - 264 VAC)
Input frequency	50/60 Hz
Power Factor (PF) typical	> 0,95
Surge protection:	6 kV L-GND / N-GND, 4 kV L-N
Intelligent inrush current control	As standard
Luminaire protection class	CL I
Installation direction	No limits. (Not to be installed inside insulation to enable cooling)
Luminaire luminous efficacy	Up to 166 lm/W

	CRI >70	CRI >80	CRI >90
5 700K		o	o
5 000K	x	x	
4 000K	x	o	
3 000K	o		

x = standard
o = option

Standard opening angles



PRO⁺ 4X



LEDs: **120**

Weight: **5,6 kg**

Dimensions (LxWxH): **507 x 230 x 86 mm**

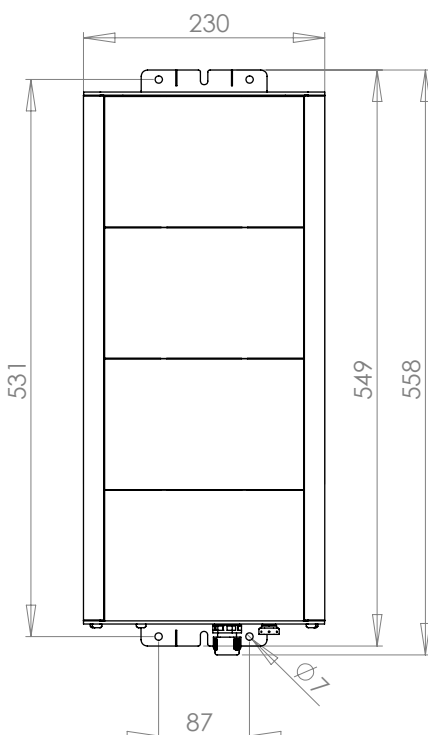
Delivery: **Fully assembled**

Dali addresses: **1**

Inrush current peak: **< 4A (pulses greater than 1ms), 15A, t=170µs, 10% of Ipeak**

Earth leakage current: **0,58 mA**

Maintenance free operating life:
290mA: >100kh at +25°C, 100kh at +40°C, 50kh at +50°C
350mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C
420mA: >100kh at +25°C, 50kh at +35°C



Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	99 W	120 W	146 W
Current [A]	0,45 A	0,55 A	0,67 A
Luminous Flux* [lm]	16 480 lm	19 600 lm	22 780 lm
Luminaire dimming range			
HDFP minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level		4,4 W	

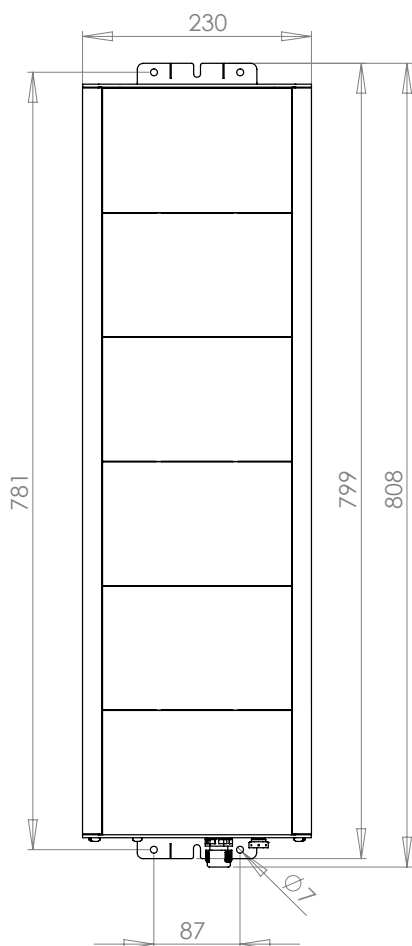
Values shown are nominal values and are subject to +/- 10% tolerance.

* Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ 6X



- LEDs: **180**
- Weight: **7,6 kg**
- Dimensions (LxWxH): **757 x 230 x 86 mm**
- Delivery: **Fully assembled**
- Dali addresses: **1**
- Inrush current peak: **< 4A (pulses greater than 1ms), 15A, t=170µs, 10% of Ipeak**
- Earth leakage current: **0,61 mA**
- Maintenance free operating life:
 - 290mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C**
 - 350mA: >100kh at +25°C, 100kh at +30°C, 50kh at +40°C**
 - 420mA: >100kh at +20°C, 70kh at +25°C, 50kh at +30°C**



Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	149 W	180 W	218 W
Current [A]	0,68 A	0,82 A	1,00 A
Luminous Flux* [lm]	24 720 lm	29 380 lm	34 050 lm
Luminaire dimming range			
HDF minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level		5,3 W	

Values shown are nominal values and are subject to +/- 10% tolerance.

* Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ 8X



LEDs: 240

Weight: 9,7 kg

Dimensions (LxWxH): 1007 x 230 x 84 mm

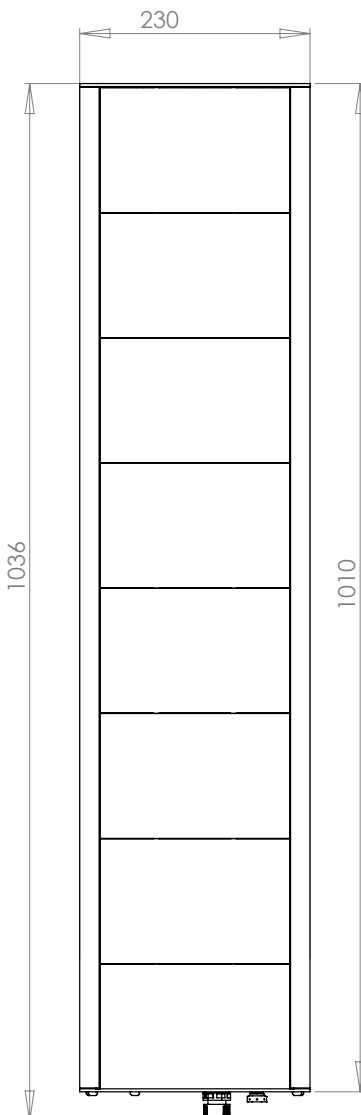
Delivery: Without back mounting

Dali addresses: 1

Inrush current peak: < 4A (pulses greater than 1ms), 15A, t=170µs, 10% of Ipeak

Earth leakage current: 0,69 mA

Maintenance free operating life:
 290mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C
 350mA: >100kh at +25°C, 100kh at +30°C, 50kh at +40°C
 420mA: >100kh at +20°C, 70kh at +25°C, 50kh at +30°C

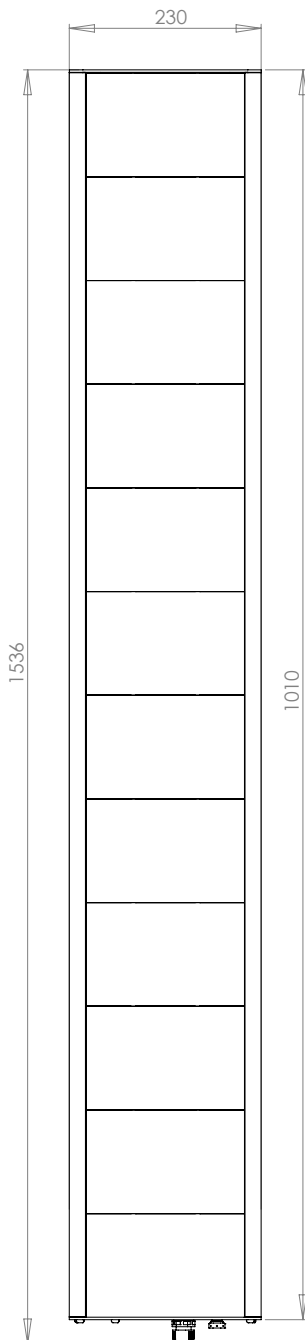


Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	198 W	240 W	286 W
Current [A]	0,91 A	1,10 A	1,31 A
Luminous Flux* [lm]	32 970 lm	39 160 lm	45 300 lm
Luminaire dimming range			
HDFP minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level		6,4 W	

Values shown are nominal values and are subject to +/- 10% tolerance.

* Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ 12X



LEDs: **360**

Weight: **14,9 kg**

Dimensions (LxWxH): **1507 x 230 x 84 mm**

Delivery: **Without back mounting**

Dali addresses: **2**

Inrush current peak: **< 8A (pulses greater than 1ms), 30A, t=170µs, 10% of Ipeak**

Earth leakage current: **1,15 mA**

Maintenance free operating life:
290mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C
350mA: >100kh at +25°C, 100kh at +30°C, 50kh at +40°C
420mA: >100kh at +20°C, 70kh at +25°C, 50kh at +30°C

Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	298 W	360 W	436 W
Current [A]	1,36 A	1,65 A	2,00 A
Luminous Flux* [lm]	49 430 lm	58 720 lm	67 810 lm
Luminaire dimming range			
HDFP minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level		10,6 W	

Values shown are nominal values and are subject to +/- 10% tolerance.

* Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ Series

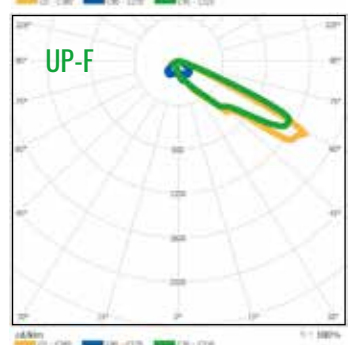
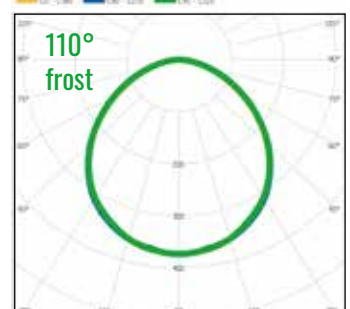
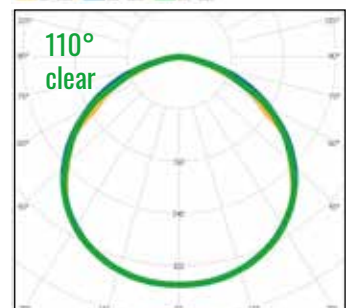
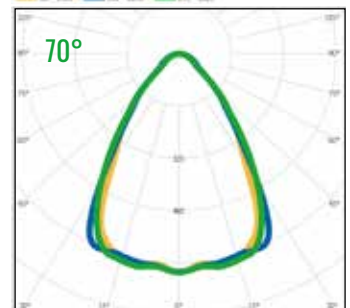
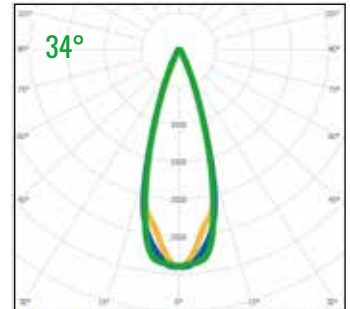
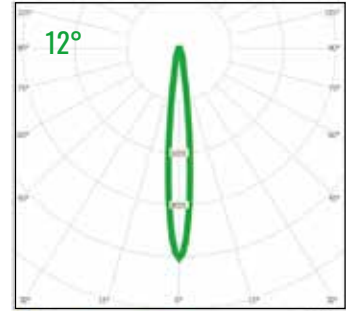
-technical details

Housing	Anodized aluminium. Other surface treatments available in RAL colours, ceramic coating for entire luminaire available for even improved wear resistance
Optics	Easy LED optimized UV-stabilized PC optics with high impact resistance
Light quality and dimming performance	Linear dimming down to 70 mA
Protection rating	IP66, D-marking and Ball impact safe. IK09 available
Temperature range	Designed for operating temperatures of up to +50°C (95 % RH)
Automatic thermal protection	Inbuilt reversible thermal protection with output current dimming
LED unit lumen maintenance L90B10, C10	>200 000 h
Remaining luminous flux after 100 000 h	0,95
Control	Integrated DALI, CLO, MainsDIM and Kaamos available
Connection	Preassembled rubber cable (plug available). 2x4-PE QPD-connections for series installation with M12 for dimming control available
Safety light option	Available - 176...276 VDC
Input voltage	230 VAC (operation voltage range 170–264 VAC)
Input frequency	50/60 Hz
Power Factor (PF) typical	> 0,95 (PRO+ 100 <24W: >0,9)
Surge protection:	10 kV L-GND, N-GND (EN 61000-4-5), 6 kV L-N (EN 61547)
Luminaire protection class	CL I
Installation direction	No limits. (Not to be installed inside insulation to enable cooling)
Luminaire luminous efficacy	Up to 160 lm/W

	CRI >70	CRI >80	CRI >90
5 700K		o	o
5 000K	x	x	
4 000K	x	o	
3 000K	o		

x = standard
o = option

Standard opening angles



PRO⁺ 100



LEDs: 22

Weight: 1,9 kg

Dimensions (LxWxH): 132 x 230 x 86 mm

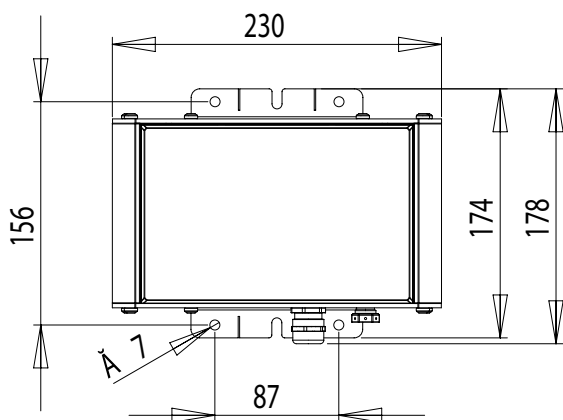
Delivery: Fully assembled

Dali addresses: 1

Earth leakage current: 0,13 mA

Temperature range:
 200mA & 330mA: -40°C ...+50°C or
 440mA: -40°C ...+45°C or
 600mA: -40°C ...+35°C (95 % RH)

Maintenance free operating life:
 200mA: >100kh at +25°C, >100kh at +45°C, 90kh at +50°C
 330mA: >100kh at +25°C, 95kh at +40°C, 50kh at +50°C
 440mA: >100kh at +25°C, 95kh at +35°C, 50kh at +45°C
 600mA: >100kh at +25°C, 75kh at +30°C, 50kh at +35°C



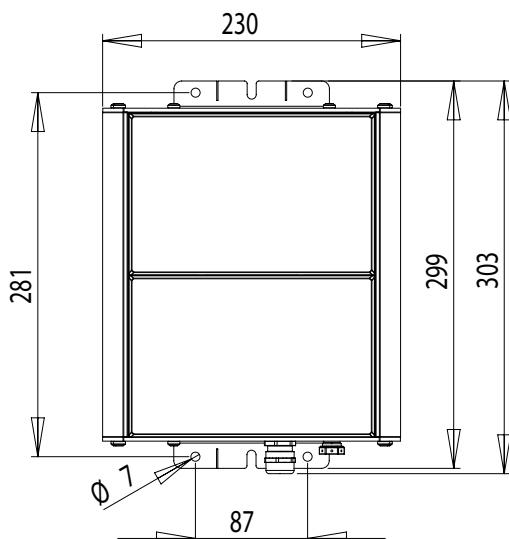
Driving current [mA]	200 mA	330 mA	440 mA	600 mA
System power [W]	15 W	23 W	30 W	41 W
Current [A]	0,08 A	0,11 A	0,14 A	0,19 A
Luminous Flux* [lm]	2 140 lm	3 380 lm	4 350 lm	5 610 lm
Luminaire dimming range				
Light minimum level	34%	22%	17%	13%
Power minimum level	7,2 W			

Values shown are nominal values and are subject to +/- 10 % tolerance.

*Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ 200

LEDs:	44
Weight:	3,3 kg
Dimensions (LxWxH):	257 x 230 x 86 mm
Delivery:	Fully assembled
Dali addresses:	1
Earth leakage current:	0,18 mA
Temperature range	380mA: -40°C ...+45°C or 460mA: -40°C ...+40°C or 530mA: -40°C ...+35°C (95 % RH)
Maintenance free operating life:	380mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C 460mA: >100kh at +25°C, 100kh at +30°C, 50kh at +40°C 530mA: >100kh at +20°C, 85kh at +25°C, 50kh at +35°C



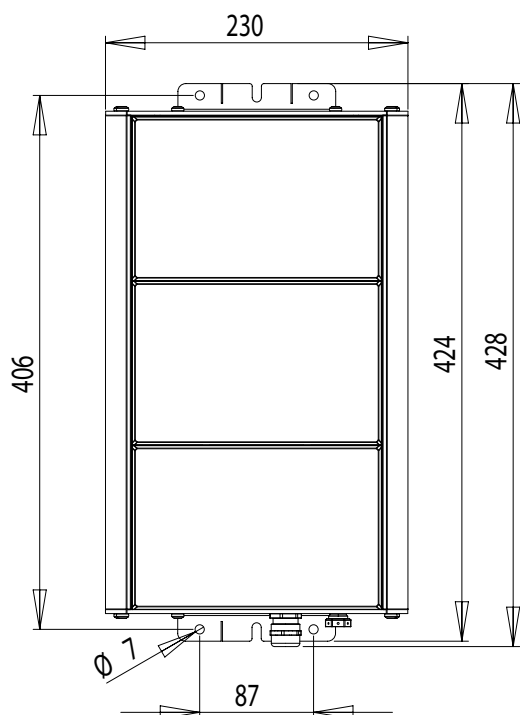
Driving current [mA]	380 mA	460 mA	530 mA
System power [W]	50 W	60 W	68 W
Current [A]	0,24 A	0,28 A	0,32 A
Luminous Flux* [lm]	7 550 lm	9 000 lm	10 300 lm
Luminaire dimming range			
Light minimum level	19 %	16%	14%
Power minimum level		12,7 W	

Values shown are nominal values and are subject to +/- 10 % tolerance.

*Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ 400

LEDs:	66
Weight:	5,0 kg
Dimensions (LxWxH):	382 x 230 x 86 mm
Delivery:	Fully assembled
Dali addresses:	1
Earth leakage current:	0,15 mA
Temperature range:	380mA: -40°C ...+45°C or 460mA: -40°C ...+35°C (95 % RH)
Maintenance free operating life:	380mA: >100kh at +25°C, 100kh at +30°C, 50kh at +45°C 460mA: >100kh at +25°C, 50kh at +35°C



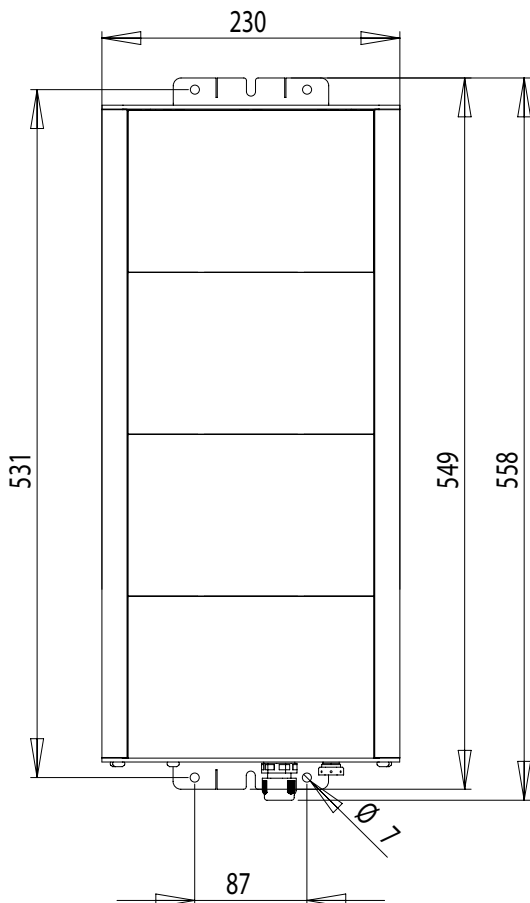
Driving current [mA]	380 mA	460 mA
System power [W]	75 W	90 W
Current [A]	0,35 A	0,41 A
Luminous Flux* [lm]	11 620 lm	13 940 lm
Luminaire dimming range		
Light minimum level	19 %	16%
Power minimum level	16,3 W	

Values shown are nominal values and are subject to +/- 10% tolerance.

*Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ 500

LEDs:	88
Weight:	5,9 kg
Dimensions (LxWxH):	507 x 230 x 86 mm
Delivery:	Fully assembled
Dali addresses:	1
Earth leakage current:	0,15 mA
Temperature range:	380mA: -40°C ...+40°C or 460mA: -40°C ...+30°C (95 % RH)
Maintenance free operating life:	380mA: >100kh at +25°C, 50kh at +40°C 460mA: >100kh at +20°C, 75kh at +25°C, 50kh at +30°C



Driving current [mA]	380 mA	460 mA
System power [W]	99 W	120 W
Current [A]	0,45 A	0,54 A
Luminous Flux* [lm]	15 800 lm	18 590 lm
Luminaire dimming range		
Light minimum level	19 %	16%
Power minimum level	21,6 W	

Values shown are nominal values and are subject to +/- 10 % tolerance.

*Luminous flux for 740, dependent on choice of optical solution. For latest values, ask for light distribution files.



PRO⁺ SERIES

More light
Efficacy up to
160 lm/W

EASY | LED

EASY LED THE BRIGHTEST CHOICE

Investing in high quality LED lighting will give you value for now and far in the future. Easy LED Oy is a Finnish company specialized in manufacturing energy efficient LED-lighting for sports, industry, road, area, commercial, retail and office space lighting purposes.

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