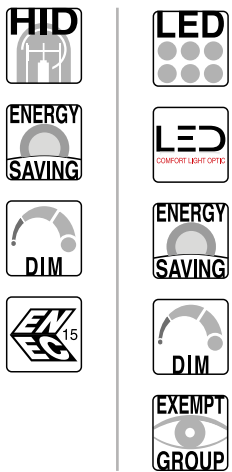


Urban lighting luminaire

# Q QUADRO





When functionality meets the highest expression of design, the result is the Q QUADRO range, offering Q3 and Q5 variations (different sizes), as well as LED and HID versions.

The system includes street optics, both symmetrical and asymmetrical, for pedestrian crossings and cycle lanes, designed for street and urban applications, such as squares, roundabouts, parks and car parks.

Q QUADRO is part of a complete system of poles and brackets suitable for all urban applications.

Q3 QUADRO for SHP and MHL lamps up to 150W and CPO lamps up to 140W\*.

Q5 QUADRO for SHP and MHL lamps up to 400W and CPO lamps up to 140W\*.

Q3-Q5 QUADRO LED feature the LED Comfort Light Optic™ system.



\*All the maximum powers shown are for ST optics.



## MECHANICAL CHARACTERISTICS

- 1 Support frame in die cast aluminum alloy UNI EN 1706. Graphite colour (code 01).
- 2 EPDM or silicone seal.
- 3 Closure screen in flat tempered glass (4mm thickness) featured by high transparency and optimum thermal and mechanical resistance (IK08).
- 4 Optical unit in pure anodized and polished aluminum (99.85%).
- 5 Removable metal gear plate.
- 6 Metal cable gland M20x1.5mm - IP68.
- 7 Integrated cable clamp.
- 8 Fixing system in extruded aluminium EN AW - UNI EN 755. Adjustable tilt.
- 9 Lock in extruded aluminium EN AW - UNI EN 755 with stainless steel spring.
- 10 Regulation of the lamp focus in 6 different positions.

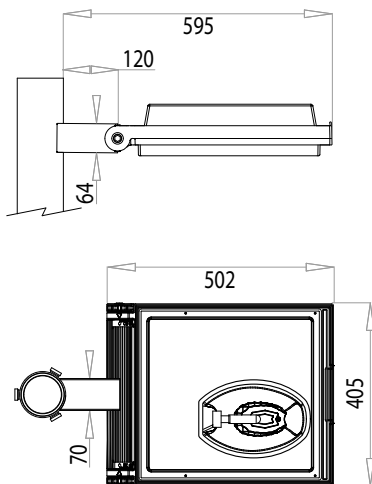
IP66 protection degree.

## ELECTRICAL CHARACTERISTICS

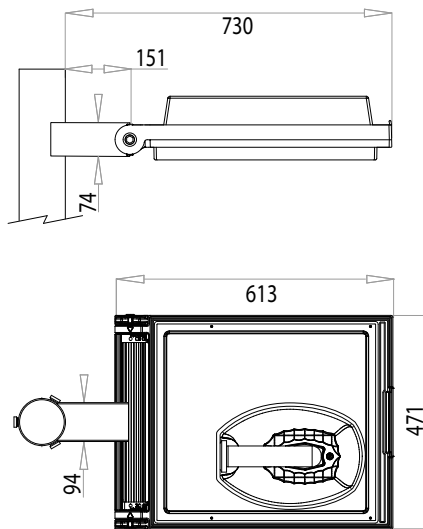
- Insulation class: I, II.
- Power supply: 230V - 50Hz.
- Ferromagnetic power supply unit, efficiency EEI = A3.
- Superimposed pulse ignitor with timer upon request.
- Power factor: > 0.9 (at full load).
- Connection for cables featured by a maximum cross section of 4mmq.
- Integrated on-load switch for luminaires in class II.
- Anti-burst capacitor.
- Ceramic lamp holder.
- Available dimming options: please visit the relevant section for Q QUADRO in the website.



Q3 QUADRO HID



Q5 QUADRO HID



Q3 QUADRO HID			
WATTAGES	LAMP TYPE	LAMP HOLDER	OPTIC
50W	SHP-T	E27	ST-AS-OC-S
70W	SHP-T	E27	ST-AS-OC-S
100W	SHP-T	E40	ST-OC-S
150W	SHP-T	E40	ST-OC-S
50W	MHL-E	E27	ST-AS-OC-S
70W	MHL-E	E27	ST-AS-OC-S
100W	MHL-E	E27	ST-AS-OC-S
150W	MHL-E	E27	ST-AS-OC-S
45W	CPO-TW*	PGZ12	ST-AS-OC-S
60W	CPO-TW*	PGZ12	ST-AS-OC-S
90W	CPO-TW*	PGZ12	ST-AS-OC-S
140W	CPO-TW*	PGZ12	ST-AS-OC-S
50W	CDO-TT	E27	ST-AS-OC-S
70W	CDO-TT	E27	ST-AS-OC-S
100W	CDO-TT	E40	ST-OC-S
150W	CDO-TT	E40	ST-OC-S
35W	CDM-T	G12	ST-AS-OC-S
50W	CDM-T	G12	ST-AS-OC-S
70W	CDM-T	G12	ST-AS-OC-S
100W	CDM-T	G12	ST-AS-OC-S
150W	CDM-T	G12	ST-AS-OC-S

For CDO-TT lamps, please, order SHP wiring.

\*Only available with electronic power supply unit.

Q5 QUADRO HID			
WATTAGES	LAMP TYPE	LAMP HOLDER	OPTIC
70W	SHP-T	E27	OC-S
100W	SHP-T	E40	ST-AS-OC-S
150W	SHP-T	E40	ST-AS-OC-S
250W	SHP-T	E40	ST-AS-S
70W	MHL-E	E27	OC-S
100W	MHL-E	E27	ST-AS-OC-S
150W	MHL-E	E27	ST-AS-OC-S
60W	CPO-TW*	PGZ12	OC-S
90W	CPO-TW*	PGZ12	ST-AS-OC-S
140W	CPO-TW*	PGZ12	ST-AS-OC-S
70W	CDO-TT	E40	OC-S
100W	CDO-TT	E40	ST-AS-OC-S
150W	CDO-TT	E40	ST-AS-OC-S
250W	CDO-TT	E40	ST-AS-S
70W	CDM-T	G12	OC-S
100W	CDM-T	G12	ST-AS-OC-S
150W	CDM-T	G12	ST-AS-OC-S
250W	CDM-T	G12	ST-AS-S
150W	SHP-TS	RX-7S	OP
250W	SHP-TS	FC2	OP
150W	MHL-TS	RX-7S	OP
250W	MHL-TS	FC2	OP

For CDO-TT lamps, please, order SHP wiring.

\*Only available with electronic power supply unit.

## AVAILABLE OPTICS

**ST:** asymmetrical optic for street lighting.

**OC:** asymmetrical optic for pedestrian and cycle paths lighting (Only Q3 QUADRO).

**S:** symmetrical optic for urban lighting.

**OP-SX:** left asymmetrical optic for pedestrian crossing lighting (Only Q5 QUADRO).

**OP-DX:** right asymmetrical optic for pedestrian crossing lighting (Only Q5 QUADRO).

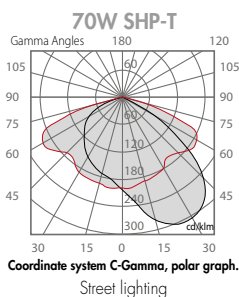
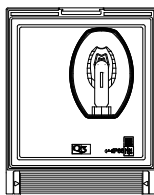
**AS45:** asymmetrical optic 45° for urban and architectural street lighting.

**AS65:** asymmetrical optic 65° for urban and architectural street lighting.

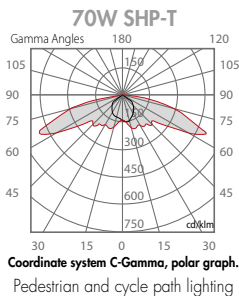
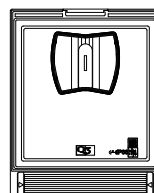
In the street version (ST) it is possible to adjust the lamp focus placing the reflector in different positions. This allows to vary the photometric asymmetry in order to optimize the light beam according to the road width.

\*Please, download Q QUADRO HID photometric data at [www.aecilluminazione.com](http://www.aecilluminazione.com)

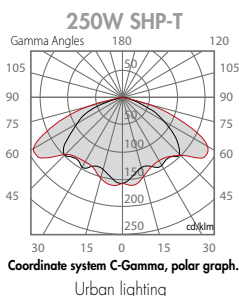
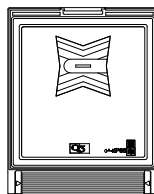
## ST



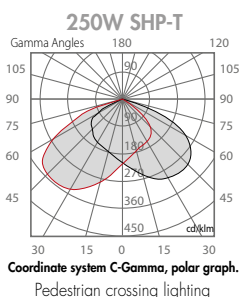
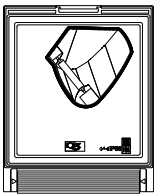
## OC



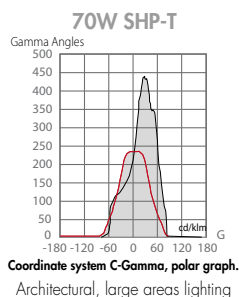
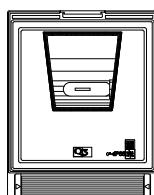
## S



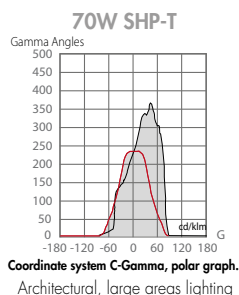
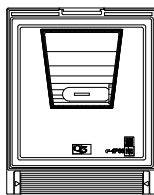
## OP



## AS45



## AS65



## MECHANICAL CHARACTERISTICS

- Support frame in die cast aluminum alloy UNI EN 1706. Graphite colour (code 01).
- EPDM seal.
- High transparency closure screen in flat tempered glass (4mm thickness) on each LED module.
- Optical unit in high efficiency metallised polycarbonate.
- Removable metal gear plate.
- Metal cable gland M20x1.5mm - IP68.
- Integrated cable clamp.
- Fixing system in extruded aluminium EN AW - UNI EN 755. Adjustable tilt.
- Lock in extruded aluminium EN AW - UNI EN 755 with stainless steel spring.
- IP66 protection degree.

## ELECTRICAL CHARACTERISTICS

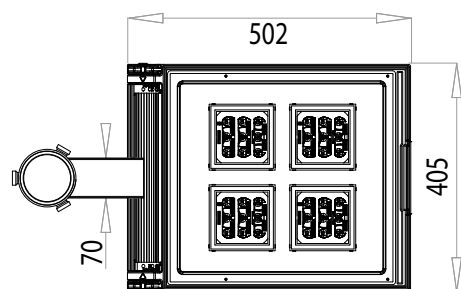
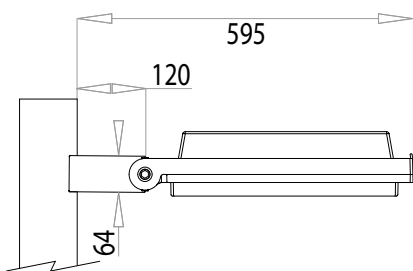
- Insulation class: I, II.
- Power supply: 220-240V - 50/60Hz.
- LED current: 525/700mA.
- Power factor: > 0.9 (at full load).
- Connection: connector for cables featured by a maximum cross section of 2.5mmq.
- Integrated overvoltage protection:  
Impulse withstand voltage:  $\geq 7\text{kV}$  common/differential mode for CLASS I.  
Impulse withstand voltage:  $\geq 4\text{kV}$  common/differential mode for CLASS II.  
Integrated SPD, Type II,  $I_n = 5\text{kA}$ ,  $I_{max} = 10\text{kA}$ ,  $U_{oc} = 10\text{kV}$ .
- Optional fuse: 10A 250V gl.
- Optical unit lifetime:  
525mA:  
 $\geq 70.000\text{hr}$  B20L80 (including critical failures);  $\geq 100.000\text{hr}$  L80, TM-21;  
700mA:  
 $\geq 60.000\text{hr}$  B20L80 (including critical failures);  $\geq 100.000\text{hr}$  L80, TM-21;

- Available dimming options:  
**DA:** automatic adjustment of the light flow.  
**DAC:** customizable DA profile.  
**PLM:** power line communication light flow adjustment.

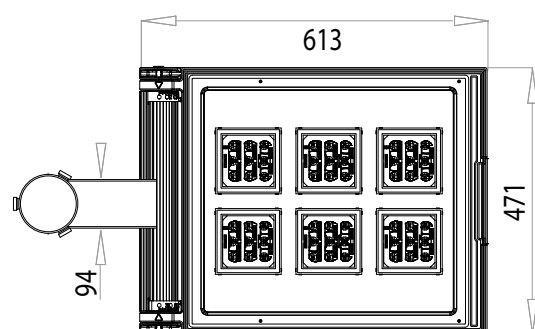
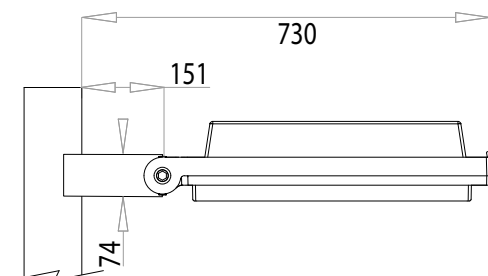


Q QUADRO LED

Q3 QUADRO



Q5 QUADRO



AVAILABLE SIZES

**Q3 QUADRO**

36 LED

**Q5 QUADRO**

36 LED

54 LED

AVAILABLE OPTICS

**ST:** asymmetrical optic for street lighting.

**OC:** asymmetrical optic for pedestrian and cycle paths lighting.

**S:** symmetrical optic for urban lighting.

OPTICAL UNIT

CHARACTERISTICS

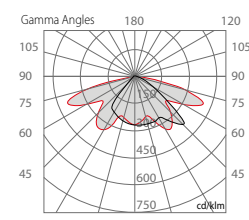
Modular optical system.

Led light source colour

temperature: 4000K.

CRI: minimum 70.

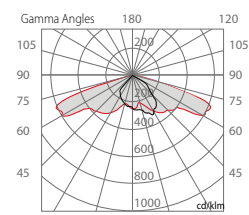
ST



Coordinate system C-Gamma, polar graph.

Street lighting

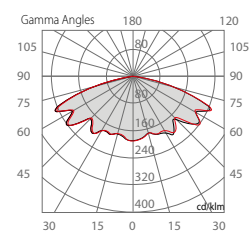
OC



Coordinate system C-Gamma, polar graph.

Pedestrian and cycle path lighting

S



Coordinate system C-Gamma, polar graph.

Urban lighting

Please, download  
Q QUADRO LED photometric data at  
[www.aecilluminazione.com](http://www.aecilluminazione.com)

In order to improve both the performance and reliability of its products, AEC pays particular attention to the protection against overvoltage.

Thanks to the research performed within its own test laboratories, AEC is now able to offer dedicated and customized solutions according to the system selected by the customer.

AEC offers two different types of wiring and related protective devices:

CLASS I: protection  $\geq 7\text{kV}$ .\*

CLASS II: protection  $\geq 4\text{kV}$ .

CLASS II + SPD: protection  $\geq 4\text{kV}$  and surge arrester integrated into the unit.

AEC experience concerning LED technology permits to define the limits of reliability and to propose our customers better safety solutions according to the characteristics of the system.

The minimum requirements imposed by the product standards in the field of "surge protection" may, in some cases, be insufficient: for this reason AEC provides a variety of additional protections.

For further information please visit [www.aecilluminazione.com](http://www.aecilluminazione.com).

Click LED section on the menu and discover more about reliability & safety.

\* For standard luminaires





## MT/Q POST TOP

Bracket in aluminium 6060 T5.

Post-top mounting on poles

Ø 89/102mm.

Projection: 120mm

(Q3 QUADRO) - 151mm

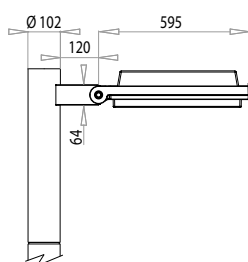
(Q5 QUADRO).

Stainless steel screws.

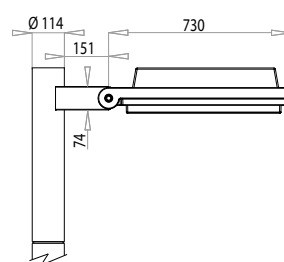
Compositions:

- Groups of 1-2-3 brackets.
- Group of 4 bracket (only Q3 QUADRO) with 195mm projection.

### Q3 QUADRO



### Q5 QUADRO



MT/Q3				
TYPE	COLOUR		COMPOSITIONS	POLES
	STANDARD	OPTIONAL		
MT/Q3 89/1	■	● ▲	■	PQ5 - PQ6 - PQ7
MT/Q3 89/2	■	● ▲	■ ■	PQ5 - PQ6 - PQ7
MT/Q3 89/3	■	● ▲	■ ■ ■	PQ5 - PQ6 - PQ7
MT/Q3 89/4	■	● ▲	■ ■ ■ ■	PQ5 - PQ6 - PQ7

■ GRAPHITE (CODE 01) ● SILVER (CODE 03) ▲ SAND (CODE 04)

MT/Q5				
TYPE	COLOUR		COMPOSITIONS	POLES
	STANDARD	OPTIONAL		
MT/Q5 89/1	■	● ▲	■	PQ6 - PQ7
MT/Q5 102/1	■	● ▲	■	PQ8 - PQ9 - PQ10
MT/Q5 89/2	■	● ▲	■ ■	PQ6 - PQ7
MT/Q5 102/2	■	● ▲	■ ■	PQ8 - PQ9 - PQ10
MT/Q5 89/3	■	● ▲	■ ■ ■	PQ6 - PQ7
MT/Q5 102/3	■	● ▲	■ ■ ■	PQ8 - PQ9 - PQ10

■ GRAPHITE (CODE 01) ● SILVER (CODE 03) ▲ SAND (CODE 04)



## MQ/C POST TOP

Bracket in steel S235 JR EN 10025.

Total length: 912mm (Q3 QUADRO) and 1062mm (Q5 QUADRO).

Post-top mounting on poles  $\varnothing$  89mm (Q3 QUADRO) and 89/102mm (Q5 QUADRO).

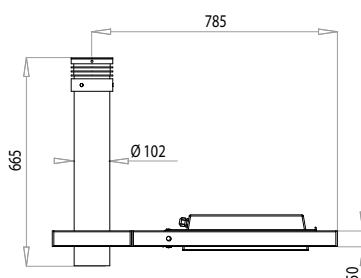
Stainless steel screws.

Compositions by means of adaptor:

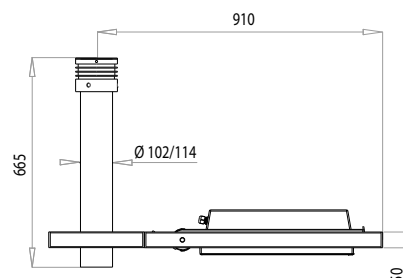
- Rectangle (1 luminaire - 2 luminaires at 180°);
- Triangle (3 luminaires at 120°);
- Square (4 luminaires at 90°).

Decorative finned element for poles  $\varnothing$  102/114mm (optional).

### Q3 QUADRO



### Q5 QUADRO



TYPE	COLOUR			COMPOSITIONS	POLES
	STANDARD	OPTIONAL			
MQ3/C 89/1	■	●	▲	■	PQ5 - PQ6 - PQ7
MQ3/C 89/2	■	●	▲	■ ■	PQ5 - PQ6 - PQ7
MQ3/C 89/3	■	●	▲	■ ■ ■	PQ5 - PQ6 - PQ7
MQ3/C 89/4	■	●	▲	■ ■ ■ ■	PQ5 - PQ6 - PQ7

■ GRAPHITE (CODE 01) ● SILVER (CODE 03) ▲ SAND (CODE 04)

TYPE	COLOUR			COMPOSITIONS	POLES
	STANDARD	OPTIONAL			
MQ5/C 89/1	■	●	▲	■	PQ6 - PQ7
MQ5/C 102/1	■	●	▲	■	PQ8 - PQ9 - PQ10
MQ5/C 89/2	■	●	▲	■ ■	PQ6 - PQ7
MQ5/C 102/2	■	●	▲	■ ■	PQ8 - PQ9 - PQ10
MQ5/C 89/3	■	●	▲	■ ■ ■	PQ6 - PQ7
MQ5/C 102/3	■	●	▲	■ ■ ■	PQ8 - PQ9 - PQ10

■ GRAPHITE (CODE 01) ● SILVER (CODE 03) ▲ SAND (CODE 04)



## MQ/L POST TOP

Bracket in steel S235 JR EN 10025 .

Total length: 1512mm

(Q3 QUADRO) and 1812mm (Q5 QUADRO).

Post-top mounting on poles  $\varnothing$  89mm (Q3 QUADRO) and 102mm (Q5 QUADRO).

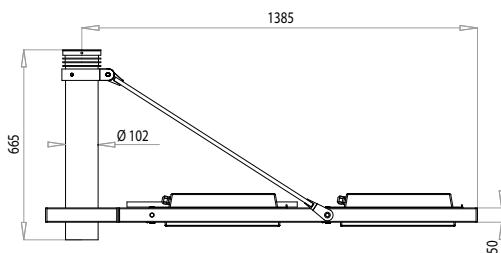
Stainless steel screws.

Compositions by means of adaptor:

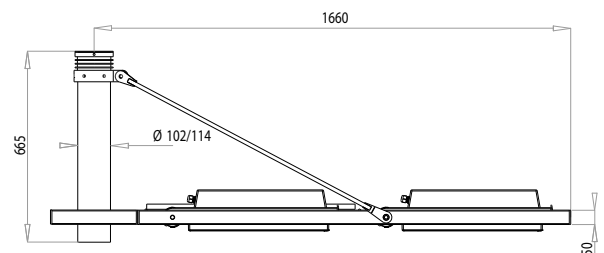
- Rectangle (1 luminaire - 2 luminaires at 180°);
- Triangle (3 luminaires at 120°);
- Square (4 luminaires at 90°).

Decorative finned element for poles  $\varnothing$ 102/114mm (optional).

### Q3 QUADRO



### Q5 QUADRO



TYPE	COLOUR			COMPOSITIONS	POLES
	STANDARD	OPTIONAL			
MQ3/L 89/1	■	● ▲	▲	■	PQ5 - PQ6 - PQ7
MQ3/L 89/2	■	● ▲	▲	■ ■	PQ5 - PQ6 - PQ7
MQ3/L 89/3	■	● ▲	▲	■ ■ ■	PQ5 - PQ6 - PQ7
MQ3/L 89/4	■	● ▲	▲	■ ■ ■ ■	PQ5 - PQ6 - PQ7

■ GRAPHITE (CODE 01) ● SILVER (CODE 03) ▲ SAND (CODE 04)

TYPE	COLOUR			COMPOSITIONS	POLES
	STANDARD	OPTIONAL			
MQ5/L 89/1	■	● ▲	▲	■	PQ6 - PQ7
MQ5/L 102/1	■	● ▲	▲	■	PQ8 - PQ9 - PQ10
MQ5/L 89/2	■	● ▲	▲	■ ■	PQ6 - PQ7
MQ5/L 102/2	■	● ▲	▲	■ ■	PQ8 - PQ9 - PQ10
MQ5/L 89/3	■	● ▲	▲	■ ■ ■	PQ6 - PQ7
MQ5/L 102/3	■	● ▲	▲	■ ■ ■	PQ8 - PQ9 - PQ10

■ GRAPHITE (CODE 01) ● SILVER (CODE 03) ▲ SAND (CODE 04)

10

9

8

7

6

5 ● 4,9

4 ● 3,9

3

Measures in metres



**H** Available luminaire heights

## PR SERIES

### DESCRIPTION

Rectangular cross section steel pole consisting of one single section. The pole is fitted with a drawn aluminium bracket for the installation of units of the Q Quadro range. Cable inlet slot and terminal box slot with finished edges, also suitable for the application of a flush mounted cover door.

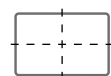
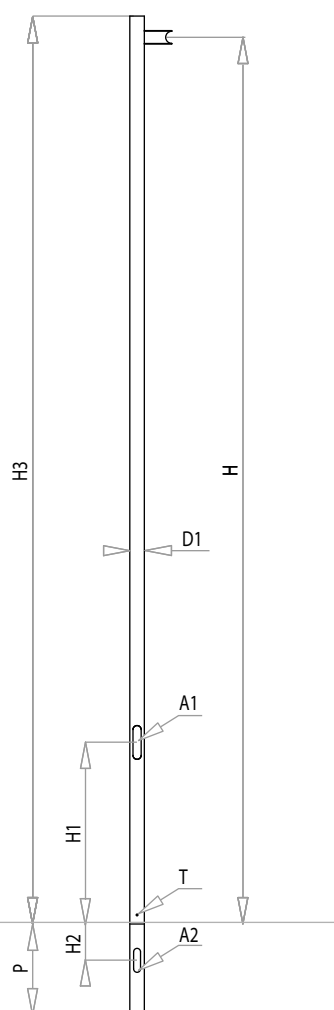
### FINISH

Hot galvanized in accordance with UNI EN ISO 1461, and subsequent brushing to ensure perfect surface finish. Polyester powder coating.

### COLOURS

Code 01, 02, 03, 04, RAL on request.

Available mounting system for Q QUADRO: only post top version.



Section

10

9

8  7,9

7  6,9

6  5,9

5  4,9

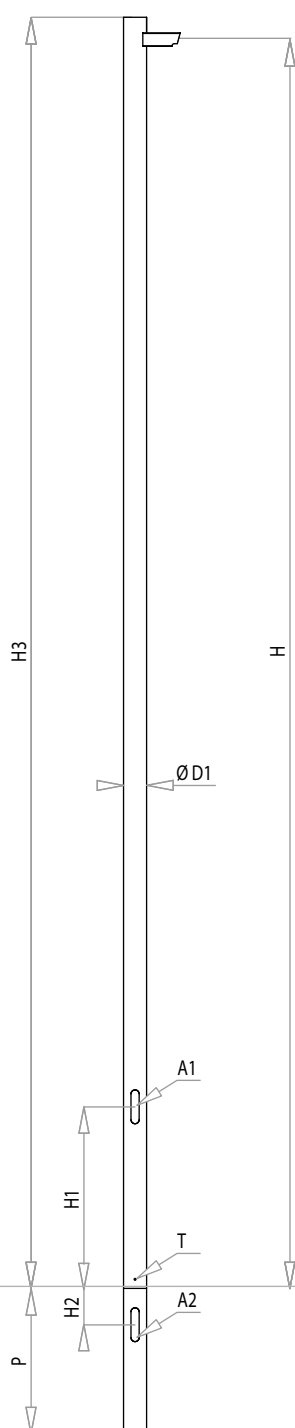
4

3

Measures in metres



 Available luminaire heights



## PL SERIES

### DESCRIPTION

Circular cross section steel pole consisting of one single section. The pole is fitted with a drawn aluminium arm for the installation of units of the Logika and Q Quadro range. PL poles are available with 1, 2, and 3 brackets. Cable inlet slot and terminal box slot with finished edges, also suitable for the application of a flush mounted cover door.

### FINISH

Hot galvanized in accordance with UNI EN ISO 1461, and subsequent brushing to ensure perfect surface finish. Polyester powder coating.

### COLOURS

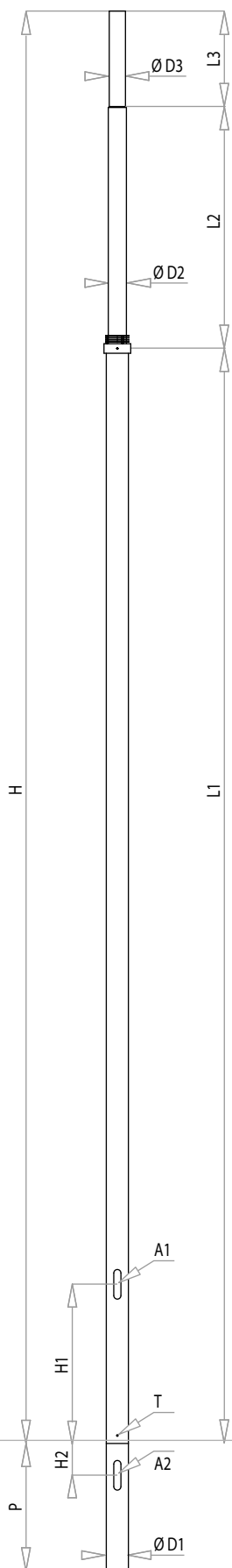
Code 01, 02, 03, 04, RAL on request.

Available mounting system for Q QUADRO: only post top version.



Measures in metres

**H** Available luminaire heights



## PQ SERIES

### DESCRIPTION

Circular cross section steel pole with formed tapering, consisting of two sections (PQ 5 version only) or three sections, made of tubular joint elements welded in sequence. The pole has a finned steel trim to cover the tapering. Cable inlet slot and terminal box slot with finished edges, also suitable for the application of a flush mounted cover door.

### FINISH

Hot galvanized in accordance with UNI EN ISO 1461, and subsequent brushing to ensure perfect surface finish. Polyester powder coating.

### COLOURS

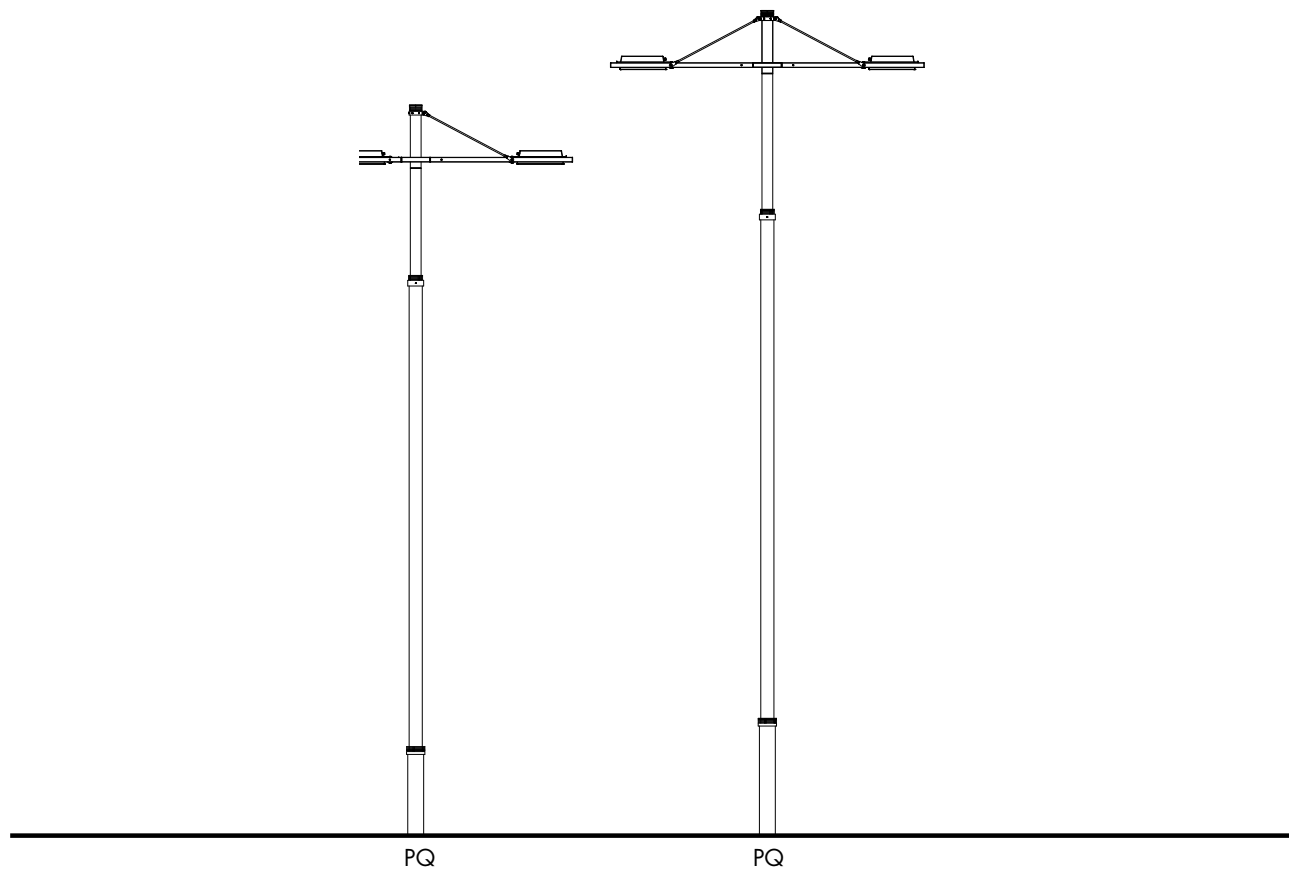
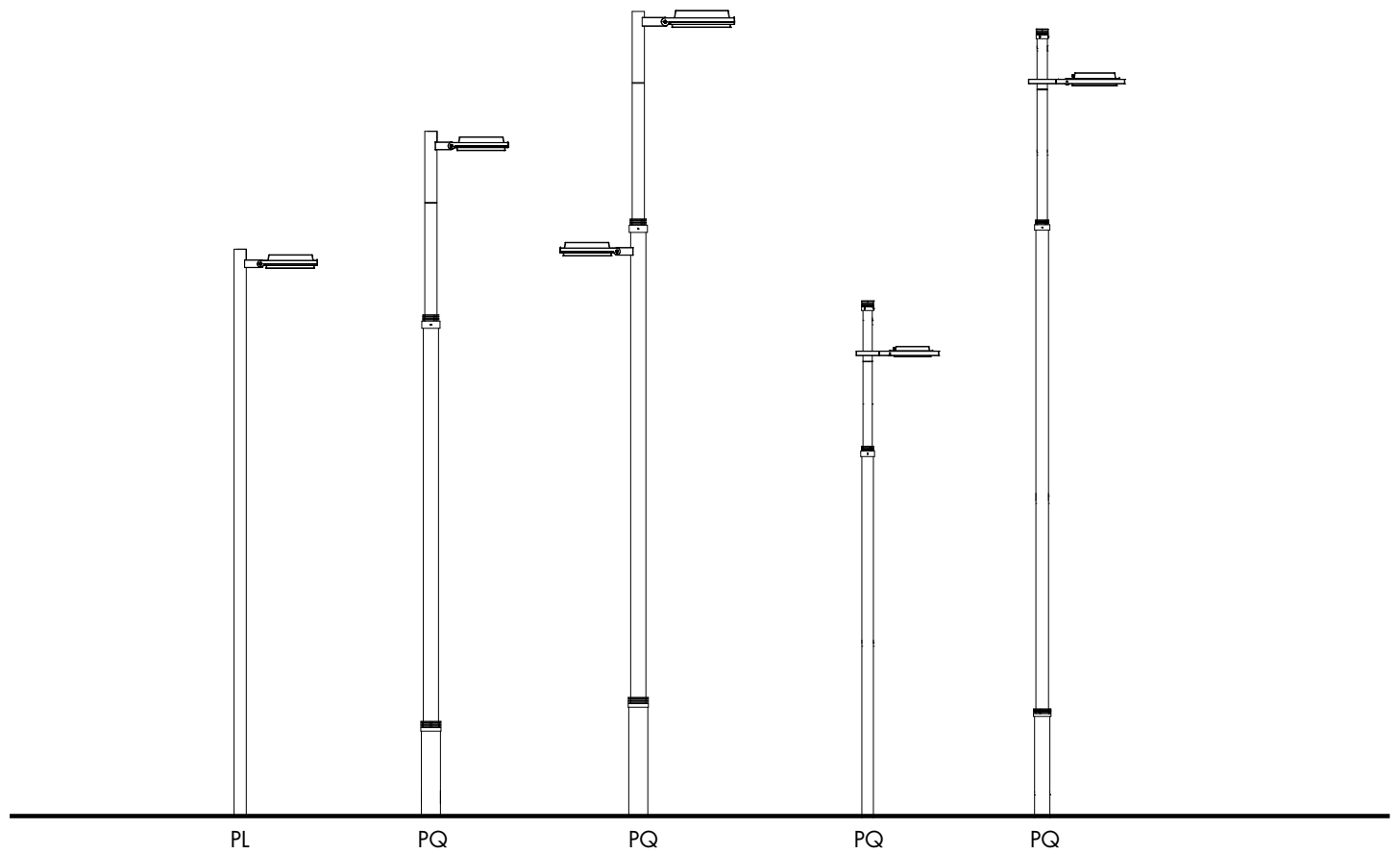
Code 01, 02, 03, 04, RAL on request.



Section

# Installation examples

For more information about AEC Pole Division poles, please, consult the catalogue **"The best in pole design"**.





The information contained in this  
catalogue aren't binding.  
In order to guarantee a continuous  
updating of its products,  
AEC reserves itself the right to modify  
the contents without notice.

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