Urban Lighting Luminaire

LOGIKA

Registered models - Design Massimo Sacconi

logika

AE
ΦC
ILLUMINAZIONE

light
life

HID | LED

ENERGY SAVING | LED COMFORT LIGHT OPTIC

DIM | ENERGY SAVING

EEI 15 | DIM

LOGIKA is a luminaire for urban applications available in two sizes (LOGIKA 1 and LOGIKA 2), and in the double HID / LED version.
With LOGIKA, AEC provides an urban system in two sizes, featuring units that can be equipped with several optical assemblies, as well as different types of brackets and poles, which complete the range, satisfying the most varied installation needs.
A project using LOGIKA is a research project that goes well beyond the simple need of illuminating a space, to its enhancement.
LOGIKA 1 for SHP and MHL lamps up to 100W and CPO lamps up to 90W*.
LOGIKA 2 for SHP and MHL lamps up to 250W and CPO lamps up to 140W*.
LOGIKA LED features the LED Comfort Light Optic™ system.

CE

*All the maximum powers shown are for ST optics.

MECHANICAL CHARACTERISTICS

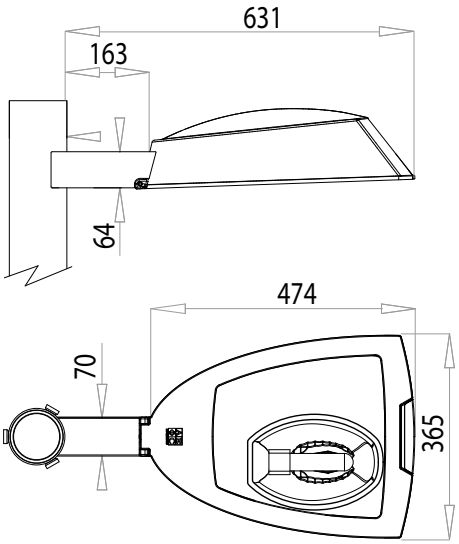
1. Support frame and top cover in die cast aluminum UNI EN 1706. Graphite colour (code 01).
2. EPDM seal.
3. Closure screen in flat tempered glass (4mm thickness) featured by high transparency and optimum thermal and mechanical resistance (IK08).
4. Optical unit in pure anodized and polished aluminum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

IP66 protection degree.

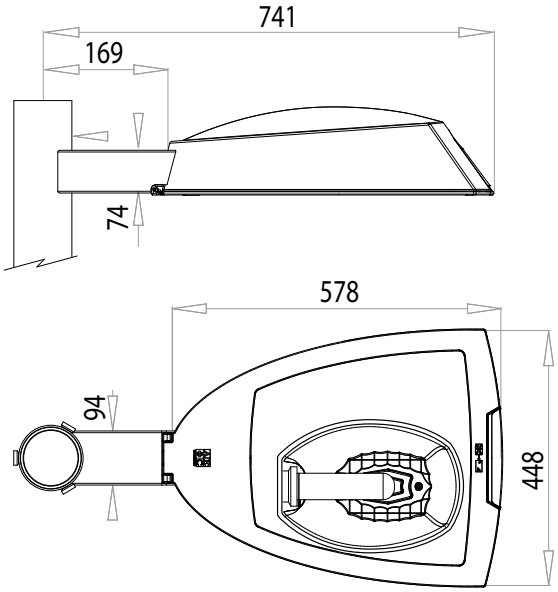
ELECTRICAL CHARACTERISTICS

- 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 luminaries in class II.
- Anti-burst capacitor.
- Ceramic lamp holder.
- Available dimming options: please visit the relevant section for LOGIKA in the website.

LOGIKA 1



LOGIKA 2



LOGIKA 1			
WATTAGES	LAMP TYPE	LAMP HOLDER	OPTIC
50W	SHP-T	E27	ST-AS-OC
70W	SHP-T	E27	ST-AS-OC
100W	SHP-T	E40	ST-OC
150W	SHP-T	E40	ST-OC
50W	MHL-E	E27	ST-AS-OC
70W	MHL-E	E27	ST-AS-OC
100W	MHL-E	E27	ST-AS-OC
150W	MHL-E	E27	ST-AS-OC
45W	CPO-TW*	PGZ12	ST-AS-OC
60W	CPO-TW*	PGZ12	ST-AS-OC
90W	CPO-TW*	PGZ12	ST-AS-OC
140W	CPO-TW*	PGZ12	ST-AS-OC
50W	CDO-TT	E27	ST-AS-OC
70W	CDO-TT	E27	ST-AS-OC
100W	CDO-TT	E40	ST-OC
150W	CDO-TT	E40	ST-OC
35W	CDM-T	G12	ST-AS-OC
50W	CDM-T	G12	ST-AS-OC
70W	CDM-T	G12	ST-AS-OC
100W	CDM-T	G12	ST-AS-OC
150W	CDM-T	G12	ST-AS-OC

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

*Only available with electronic power supply unit.

LOGIKA 2			
WATTAGES	LAMP TYPE	LAMP HOLDER	OPTIC
70W	SHP-T	E27	OC
100W	SHP-T	E40	ST-AS-OC
150W	SHP-T	E40	ST-AS-OC
250W	SHP-T	E40	ST-AS
70W	MHL-E	E27	OC
100W	MHL-E	E27	ST-AS-OC
150W	MHL-E	E27	ST-AS-OC
60W	CPO-TW*	PGZ12	OC
90W	CPO-TW*	PGZ12	ST-AS-OC
140W	CPO-TW*	PGZ12	ST-AS-OC
70W	CDO-TT	E40	OC
100W	CDO-TT	E40	ST-AS-OC
150W	CDO-TT	E40	ST-AS-OC
250W	CDO-TT	E40	ST-AS
70W	CDM-T	G12	OC
100W	CDM-T	G12	ST-AS-OC
150W	CDM-T	G12	ST-AS-OC
250W	CDM-T	G12	ST-AS
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.

OP - DX: right asymmetrical optic for pedestrian crossing lighting (only LOGIKA 2).

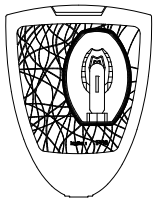
OP - SX: left asymmetrical optic for pedestrian crossing lighting (only LOGIKA 2).

AS: asymmetrical optic for big areas and architectural lighting.

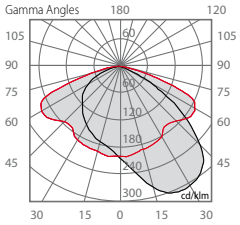
In the street version (ST) it is possible to adjust the lamp focus placing the reflector in different positions. This allows to vary the photometric asymmetry in order to optimize the light beam according to the road width.

Please, download
LOGIKA HID photometric data at
www.aecilluminazione.com

ST

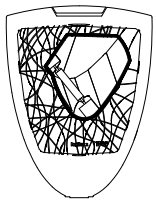


250W SHP-T

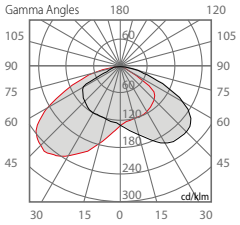


Coordinate system C-Gamma, polar graph.
Street lighting

OP

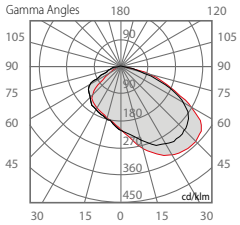


250W SHP-T SX



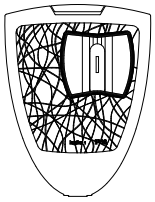
Coordinate system C-Gamma, polar graph.
Pedestrian crossing lighting

250W SHP-T DX

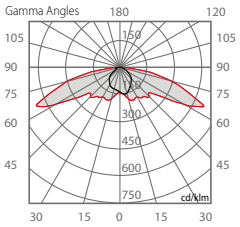


Coordinate system C-Gamma, polar graph.
Pedestrian crossing lighting

OC

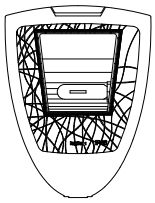


70W SHP-T

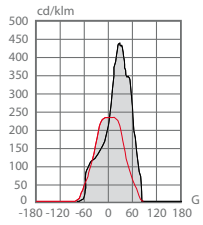


Coordinate system C-Gamma, polar graph.
Pedestrian and cycle path lighting

AS45

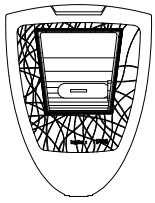


70W SHP-T

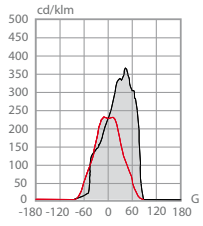


Coordinate system C-Gamma, cartesian graph.
Architectural lighting

AS65



70W SHP-T



Coordinate system C-Gamma, cartesian graph.
Architectural lighting

MECHANICAL CHARACTERISTICS

- Support frame and top cover in die cast aluminum 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.
- Plastic cable gland M20x1.5mm - IP68.
- Integrated cable clamp.
- Fixing system in die cast aluminium alloy UNI EN 1706.
- Lock in die cast aluminium alloy UNI EN 1706 with stainless steel spring.
- Regulation of the lamp focus in 6 different positions.

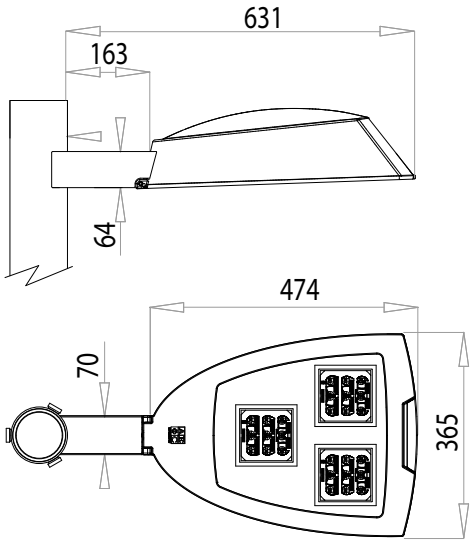
IP66 protection degree.

ELECTRICAL CHARACTERISTICS

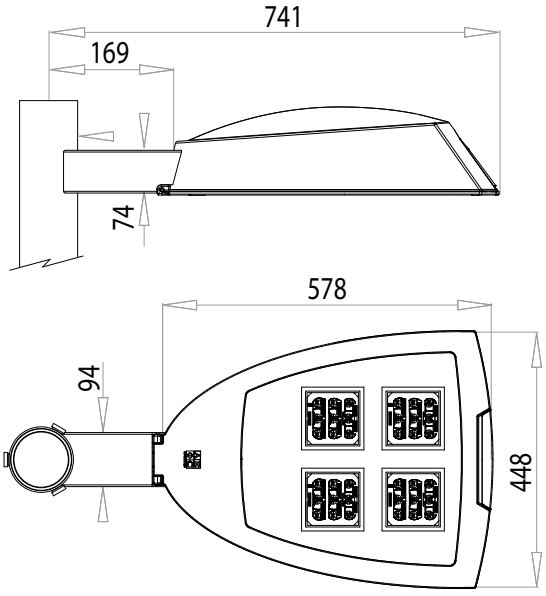
- Insulation class: I, II.
- Power supply: 220-240V - 50/60Hz.
- LED current: 525/700mA.
- Power factor: > 0.9 (at full load).
- Connection: connector for cables featured by a maximum cross section of 2.5mmq.
- Integrated overvoltage protection:
  Impulse withstand voltage: ≥7kV common/differential mode for CLASS I.
  Impulse withstand voltage: ≥4kV common/differential mode for CLASS II.
  Integrated SPD,
  Type II, In = 5kA, Imax = 10kA, Uoc = 10kV.
- Optional fuse: 10A 250V gL.
- Optical unit lifetime:
  525mA:
  ≥70.000hr B20L80 (including critical failures);
  ≥100.000hr L80, TM-21;
  700mA:
  >60.000hr B20L80 (including critical failures);
  >100.000hr L80, TM-21;
- Available dimming options:
  DA: automatic adjustment of the light flow.
  DAC: customizable DA profile.
  PLM: power line communication light flow adjustment.

LOGIKA LED

LOGIKA 1



LOGIKA 2



AVAILABLE SIZES:

LOGIKA 1
18 LED
27 LED

LOGIKA 2
18 LED
27 LED
36 LED

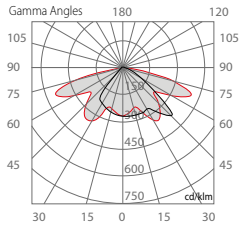
AVAILABLE OPTICS:

ST: asymmetrical optic for street lighting.
OC: asymmetrical optic for pedestrian and cycle paths lighting.
S: symmetrical optic for urban lighting.

OPTICAL UNIT CHARACTERISTICS:

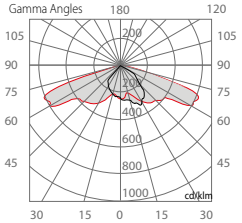
Modular optical system.
Led light source colour temperature: 4000K.
CRI: minimum 70.

ST



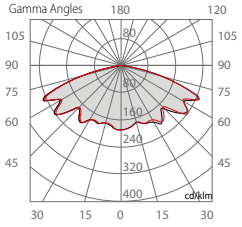
Coordinate system C-Gamma, polar graph.
Street lighting

OC



Coordinate system C-Gamma, polar graph.
Pedestrian and cycle path lighting

S



Coordinate system C-Gamma, polar graph.
Urban lighting

Please, download
LOGIKA LED photometric data at
www.aecilluminazione.com

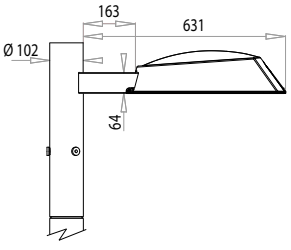
Protection against overvoltage

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 ≥ 7kV.*
CLASS II: protection ≥ 4 kV.
CLASS II + SPD: protection ≥ 4kV 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.
Click LED section on the menu and discover more about reliability & safety.

* For standard luminaires

MT/L1 POST TOP

Bracket in aluminium 6060 T5.
Post top mounting for poles with final spigot Ø 89mm.
Wall mounting by means of fixing support in galvanized and painted iron.
Stainless steel screws.
Projection: 163mm.
Wall mounting projection : 171mm.
Compositions:
- Groups of 1-2-3- 4 brackets.
- Wall mounted single bracket.



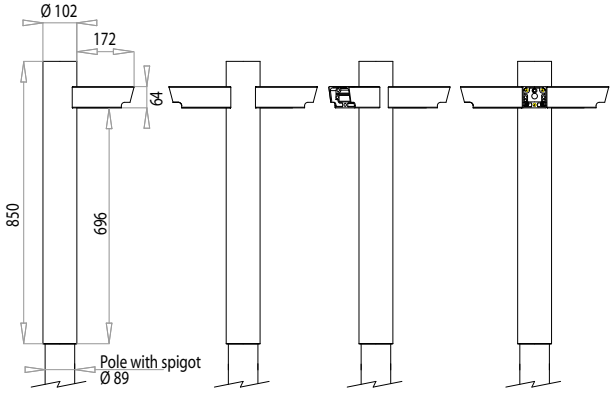


Fig. 1 Fig. 2 Fig. 3 Fig. 4

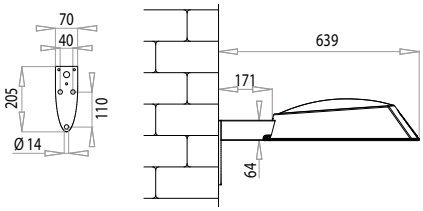


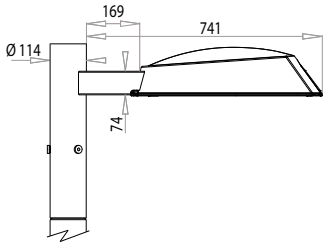
Fig. 5

MT/L1					
TYPE	COLOUR			COMPOSITIONS	POLES
	STANDARD	OPTIONAL			
MT/L1 89/1	■	●	▲	▪	PQ5-PQ6-PQ7
MT/L1 89/2	■	●	▲	▪▪	PQ5-PQ6-PQ7
MT/L1 89/3	■	●	▲	▪▪▪	PQ5-PQ6-PQ7
MT/L1 89/4	■	●	▲	▪▪▪▪	PQ5-PQ6-PQ7
SL1	■	●	▲	▪▪	-

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

MT/L2 POST TOP

Bracket in aluminium 6060 T5.
Post top mounting for poles with final spigot Ø 89/102mm.
Wall mounting by means of fixing support in galvanized and painted iron.
Stainless steel screws.
Projection: 169mm.
Wall mounting projection : 177mm.
Compositions:
- Groups of 1-2-3 brackets.
- Wall mounted single bracket.



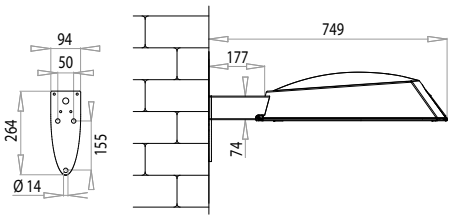


Fig. 4

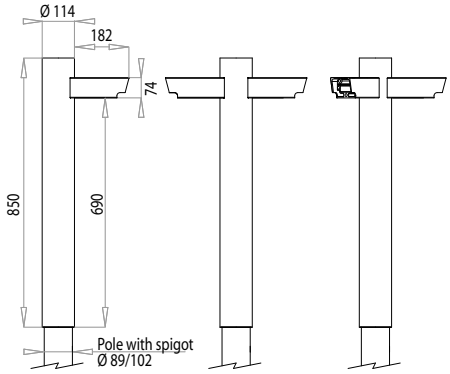


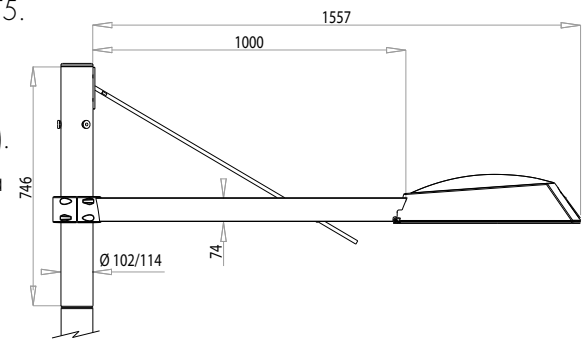
Fig. 1 Fig. 2 Fig. 3

MT/L2					
TYPE	COLOUR			COMPOSITIONS	POLES
	STANDARD	OPTIONAL			
MT/L2 89/1	■	●	▲	▪	PQ6-PQ7
MT/L2 102/1	■	●	▲	▪	PQ8-PQ9-PQ10
MT/L2 89/2	■	●	▲	▪▪	PQ6-PQ7
MT/L2 102/2	■	●	▲	▪▪	PQ8-PQ9-PQ10
MT/L2 89/3	■	●	▲	▪▪▪	PQ6-PQ7
MT/L2 102/3	■	●	▲	▪▪▪	PQ8-PQ9-PQ10
SL2	■	●	▲	▪▪	-

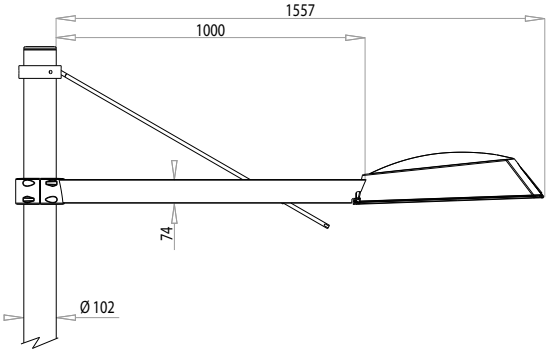
■ GRAPHITE (CODE 01) ● SILVER (CODE 03) ▲ SAND (CODE 04)

MI - MI/E BRACKET

Bracket in aluminium 6060 T5.
Post top mounting for poles with final spigot Ø 89/102mm (MI version).
Pole junction by means of a collar in die-cast aluminium for poles Ø 102mm.
Stainless steel screws.
Stainless steel cable rod.
Projection: 1000mm.
Maximum total length: 1448mm.
Compositions:
- Groups of 1-2 brackets.



MI Fig. 1



MI/E Fig. 2

MI

TYPE	COLOUR STANDARD	COLOUR OPTIONAL	COMPOSITIONS	POLES
MI 89/1	■	● ▲	▪	PQ5-PQ6-PQ7
MI 102/1	■	● ▲	▪	PQ8-PQ9-PQ10
MI 89/2	■	● ▲	▪▪	PQ5-PQ6-PQ7
MI 102/2	■	● ▲	▪▪	PQ8-PQ9-PQ10

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

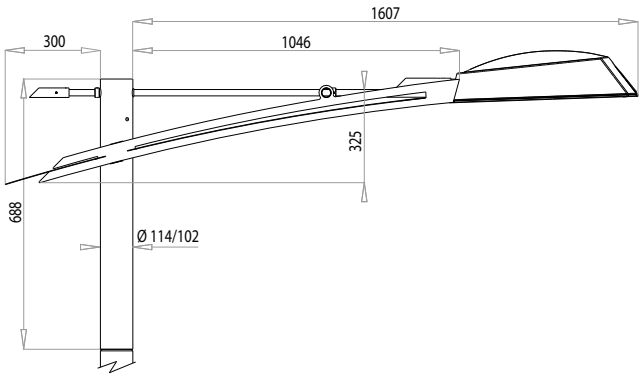
MI/E

TYPE	COLOUR STANDARD	COLOUR OPTIONAL	COMPOSITIONS	POLES
MI/E 102/1	■	● ▲	▪	EC-PN-PA
MI/E 102/2	■	● ▲	▪▪	EC-PN-PA

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

MH BRACKET

Bracket in steel S235 JR EN 10025.
Post top mounting for poles with final spigot
Ø 89/102mm.
Stainless steel cable rod.
Stainless steel screws.
Projection: 1046mm.
Maximum total length: 1448mm.
Compositions:
- Groups of 1-2 brackets.

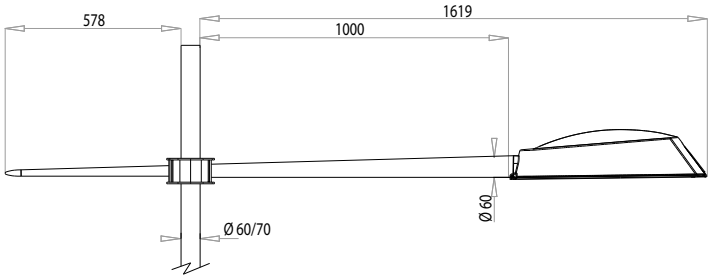


MH					
TYPE	COLOUR			COMPOSITION	POLES
	STANDARD	OPTIONAL			
MH 89/1	■	●	▲	▪	PQ5-PQ6-PQ7
MH 102/1	■	●	▲	▪	PQ8-PQ9-PQ10
MH 89/2	■	●	▲	▪▪	PQ5-PQ6-PQ7
MH 102/2	■	●	▲	▪▪	PQ8-PQ9-PQ10

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

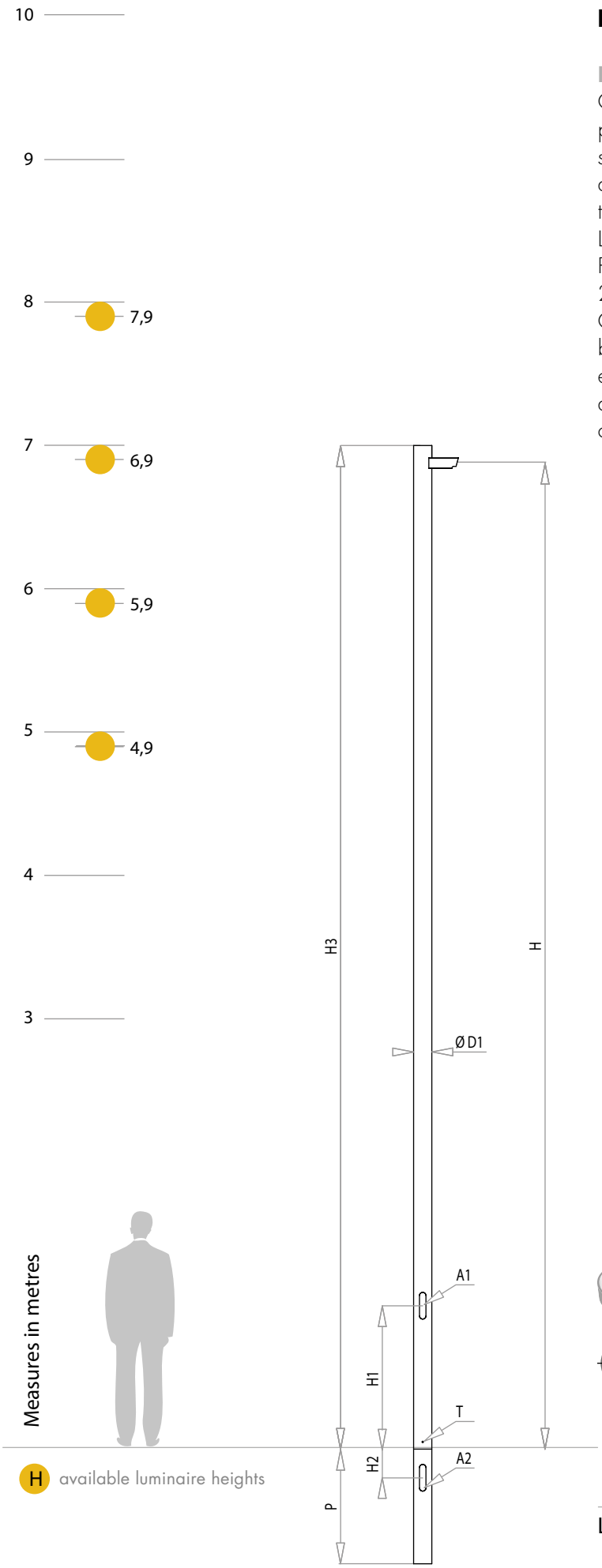
MD BRACKET

Bracket in drawn aluminum tube Ø 60mm tapered at Ø 60-29mm (3mm thickness).
Bracket support central spacer composed of a central steel ring and a silver coated elliptical plate in moulded aluminium, 5mm thickness.
Pole junction Ø72mm for conical poles Ø 60mm on top and cylindrical poles Ø 70mm on top.
Stainless steel screws.
Projection: 1000mm.
Total length: 1648mm.
Compositions:
Groups of 1-2 brackets.
Decorative element available in three versions:
- Transparent.
- Transparent with bright blue LED 1W (inclusive of ballast installed in the unit).
- Transparent with bright red LED 1W (inclusive of ballast installed in the unit).



MD					
TYPE	COLOUR			COMPOSITION	POLES
	STANDARD	OPTIONAL			
MD 1.1-60	■	●	▲	▪	Conical poles with head Ø60mm
MD 2.1-60	■	●	▲	▪	Conical poles with head Ø60mm

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



PL SERIES

DESCRIPTION

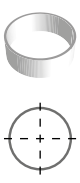
Circular cross section steel pole consisting of one single section. The pole is fitted with a drawn aluminium arm for the installation of units of the Logika and Q Quadro range. PL poles are available with 1, 2, and 3 brackets.
Cable inlet slot and terminal box slot with finished edges, also suitable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



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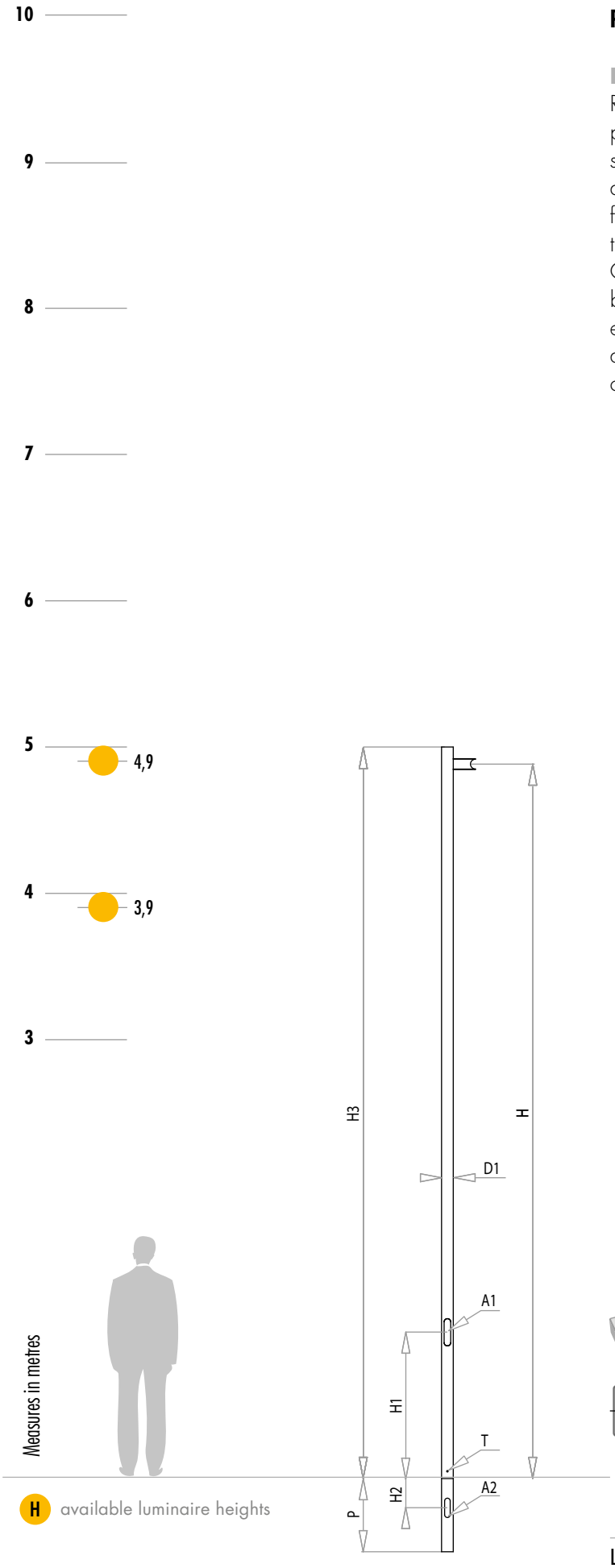


PR SERIES

DESCRIPTION

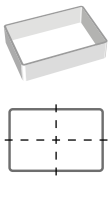
Rectangular cross section steel pole consisting of one single section. The pole is fitted with a drawn aluminium bracket for the installation of units of the Q Quadro range.
Cable inlet slot and terminal box slot with finished edges, also suitable for the application of a flush mounted cover door.

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.



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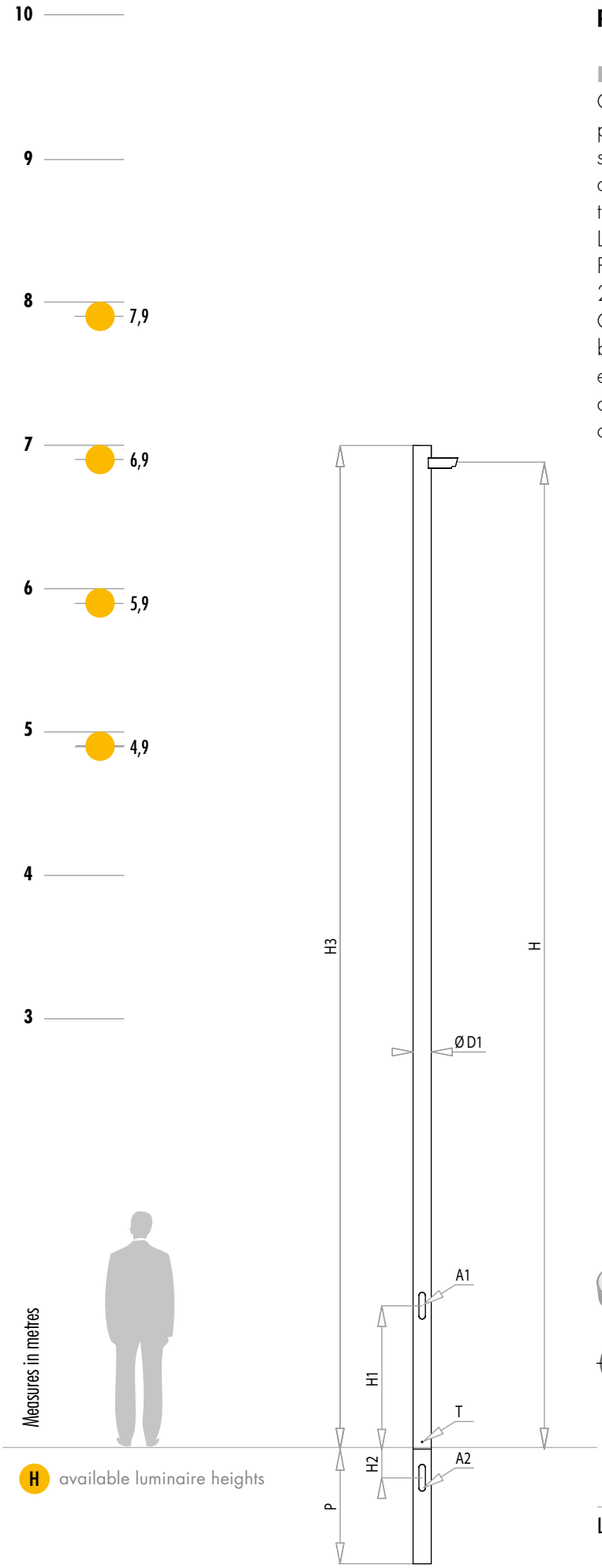


PL SERIES

DESCRIPTION

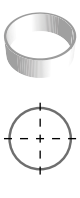
Circular cross section steel pole consisting of one single section. The pole is fitted with a drawn aluminium arm for the installation of units of the Logika and Q Quadro range. PL poles are available with 1, 2, and 3 brackets.
Cable inlet slot and terminal box slot with finished edges, also suitable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



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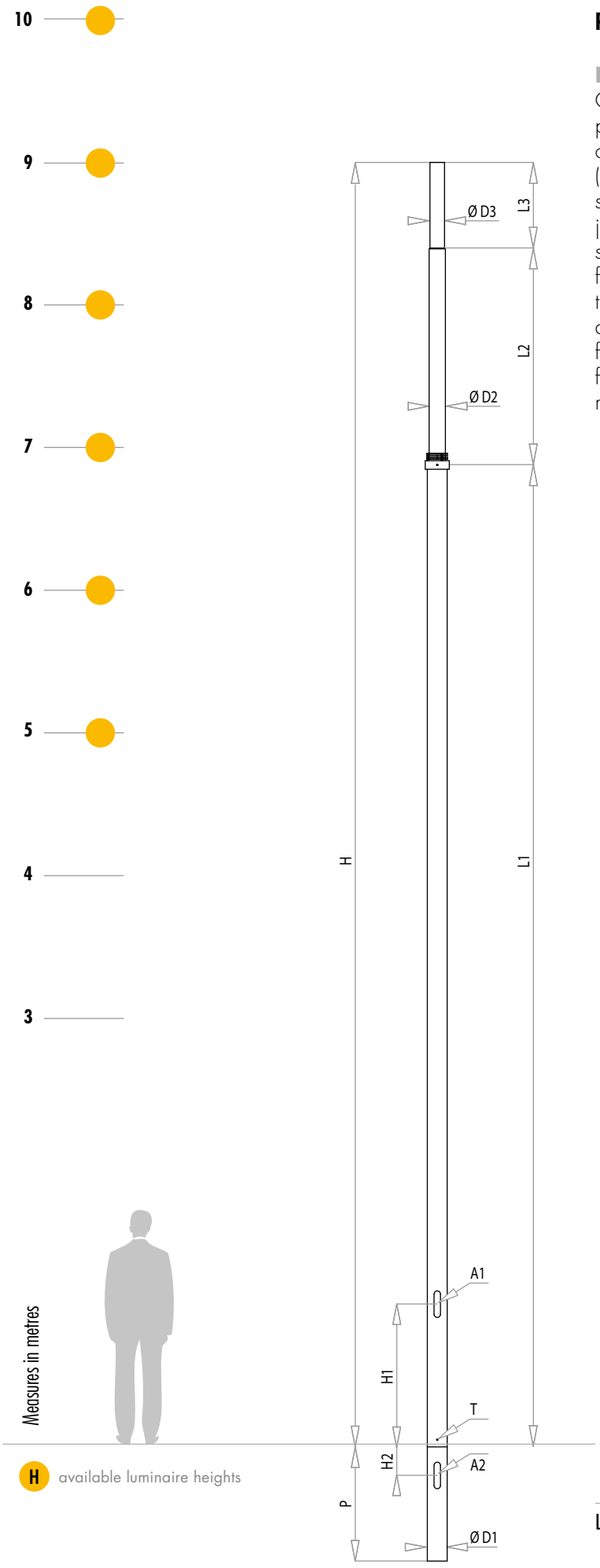


PQ SERIES

DESCRIPTION

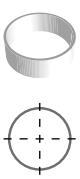
Circular cross section steel pole with formed tapering, consisting of two sections (PQ 5 version only) or three sections, made of tubular joint elements welded in sequence. The pole has a finned steel trim to cover the tapering. Cable inlet slot and terminal box slot with finished edges, also suitable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



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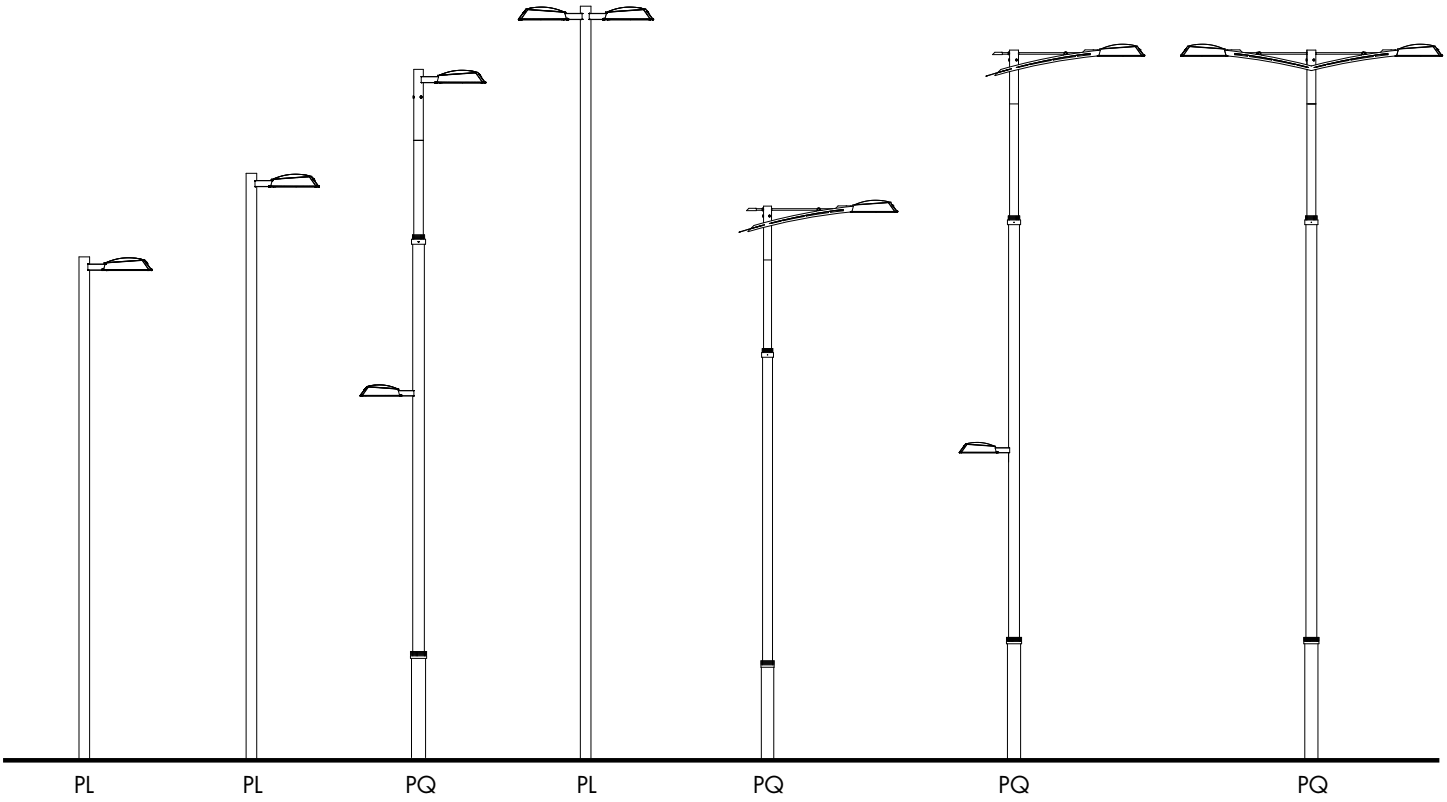
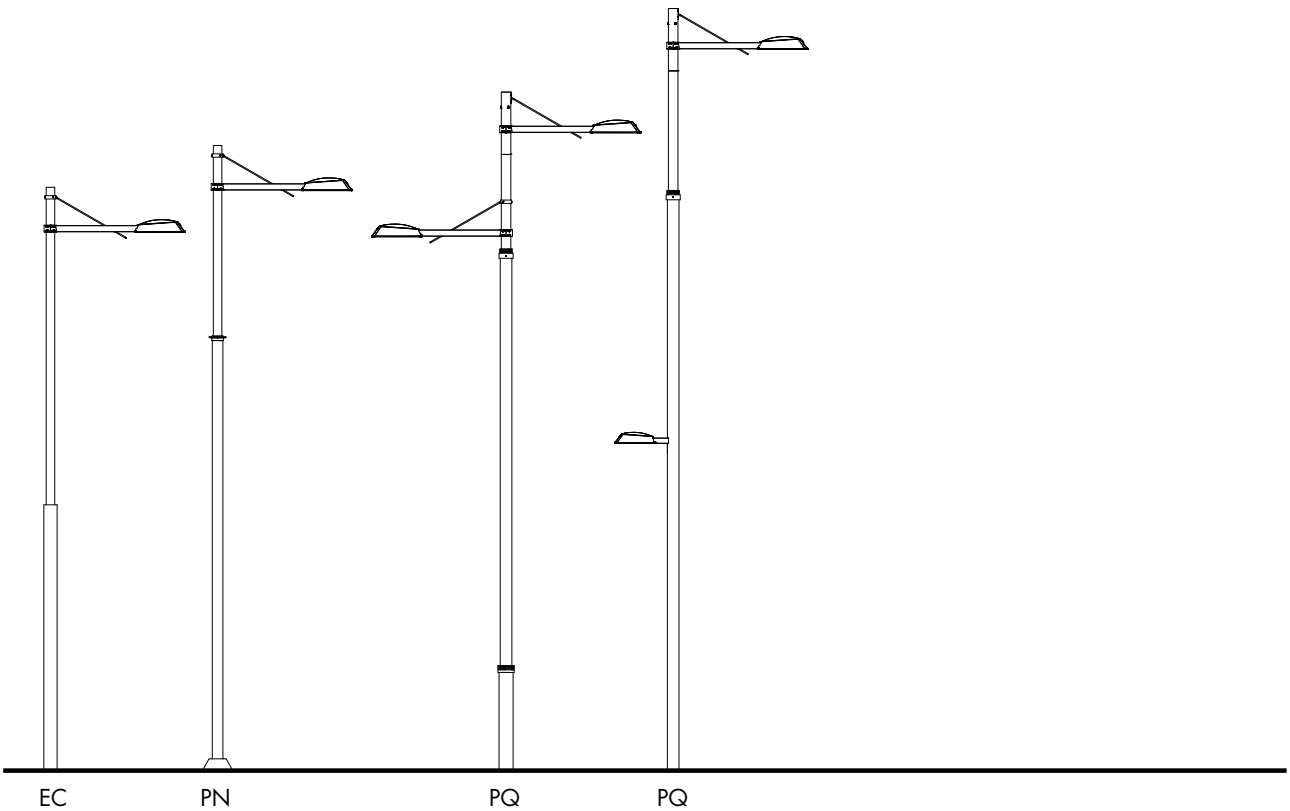
For more information about AEC Pole Division poles, please, consult the catalogue **"The best in pole design"**.





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updating of its products,
AEC reserves itself the right to modify
the contents without notice.

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