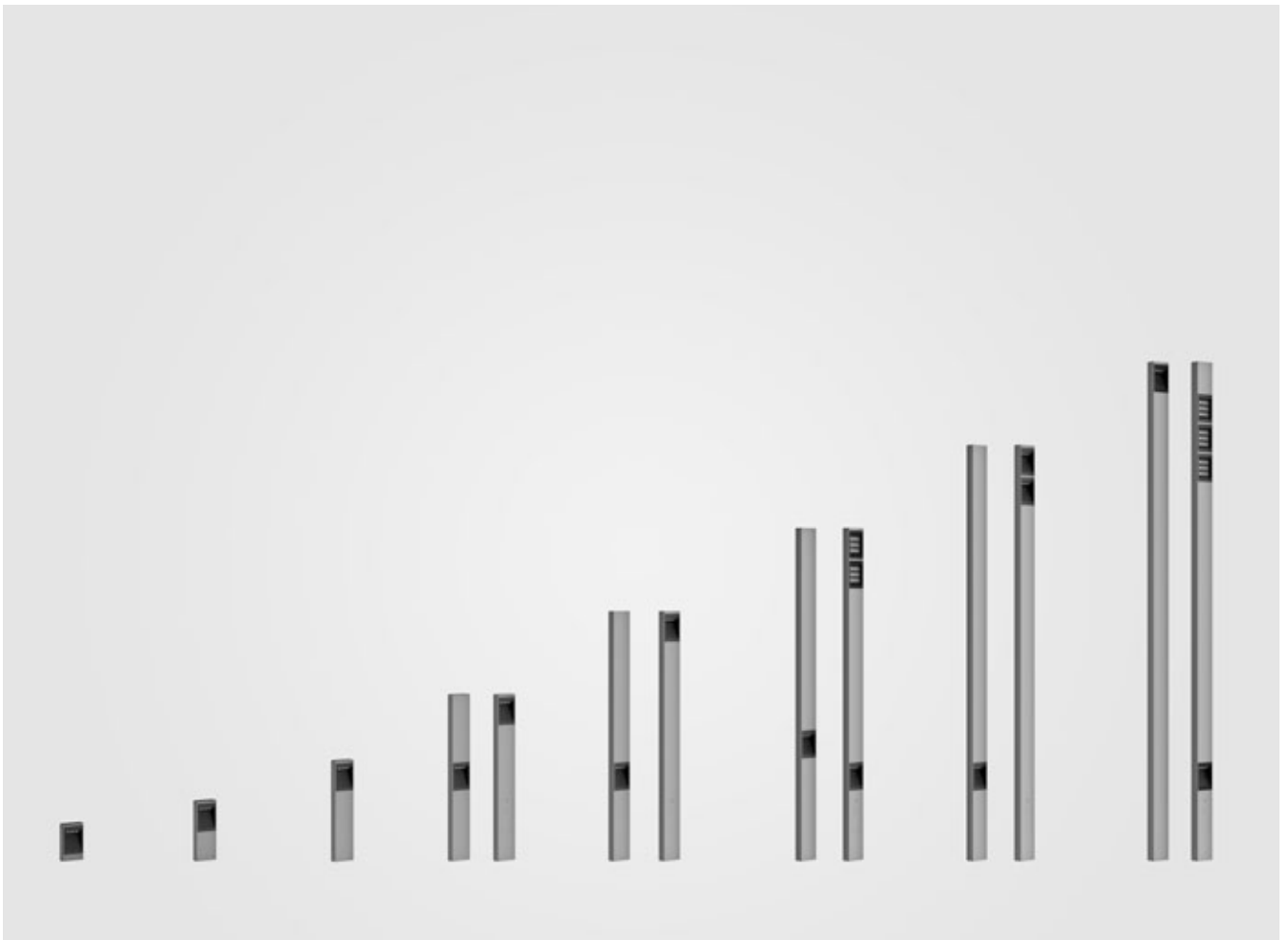


Product data sheet

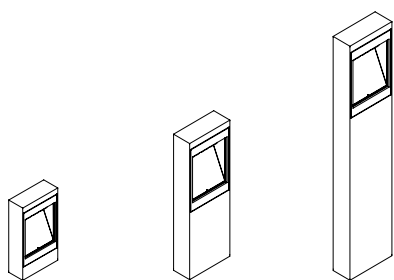
Modell-, Programm- und technische Änderungen sowie Irrtum vorbehalten. / Con riserva di errore e di modifiche tecniche, di modifiche ai modelli e alla gamma prodotti. / Changes to technical specifications, products and product lines can be made without prior notice.

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EL



LED lighting system for column or wall mounting.

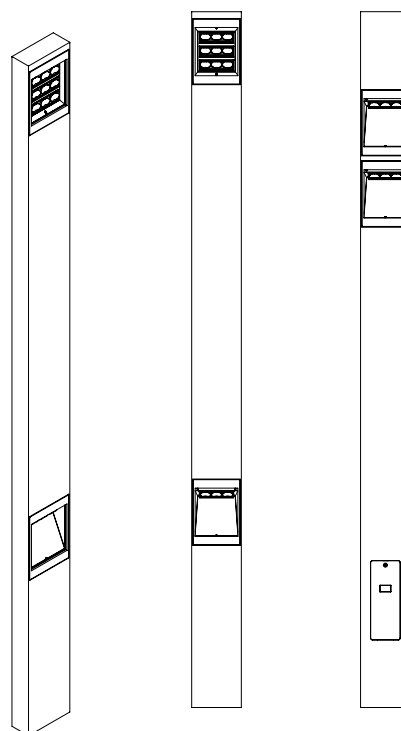


Configuration example 1 to 3

Lighting bollard

1 accent / walkway lighting element

Model: EL380 / EL710 / EL1250

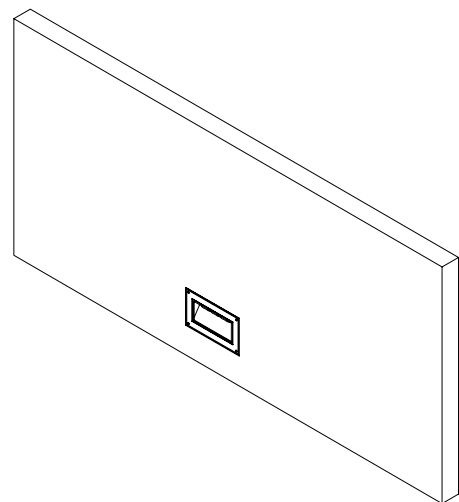
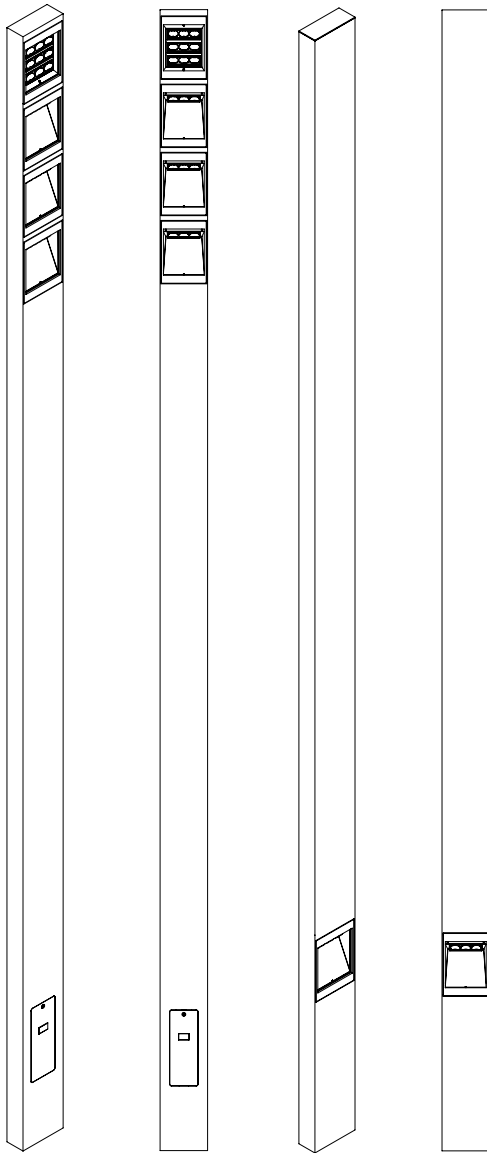


Configuration example 4

Lighting column

1 façade / object lighting element
2 street / square lighting elements
1 accent / walkway lighting element

Model: EL2000



Configuration example 5

Lighting column

- 1 façade / object lighting element
- 3 street / square lighting elements
- 1 accent / walkway lighting element

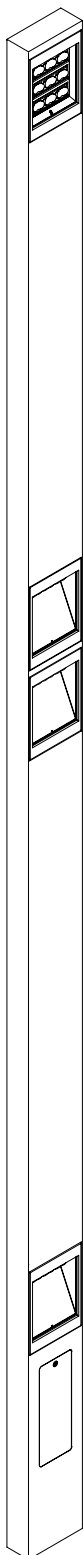
Model: EL6000

Configuration example 6

Recessed wall light fixture

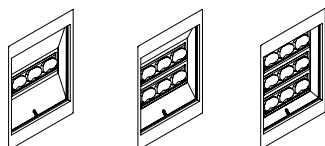
- 1 walkway lighting element

Model: EL W



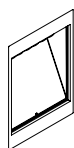
Façade / object lighting element

The lighting element can be used for surface lighting of façades and can be fitted with up to 3 lighting units. Each lighting unit can be adjusted individually and thus be matched ideally to the application.



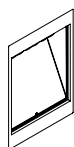
Street / square lighting element

This element is suitable for lighting streets and squares. Multiple elements can be integrated into the column. One lighting unit is inserted per element. You can choose from various different light beam characteristics to suit the specific requirements.

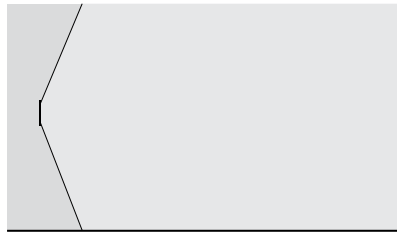


Walkway / accent lighting element

This lighting element permits homogeneous lighting of walkways and setting of accent points. One lighting unit is inserted per element.



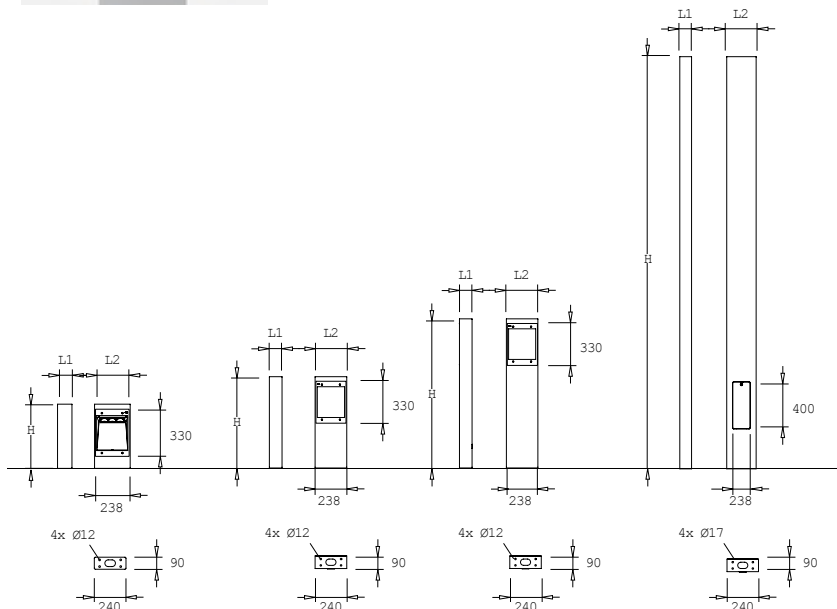
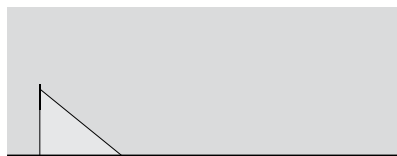
Façade lighting



Open-space lighting



Walkway lighting



Pole	Number of lighting elements	H [mm]	L1 [mm]	L2 [mm]
EL380	1	447	100	250
EL710	1	722	100	250
EL1250	1	1215	100	250
EL2000	1-2	2000	100	250
EL3000	1-3	3000	100	250
EL4000	1-4	4000	100	250
EL5000	1-5	5000	100	250
EL6000	1-6	6000	100	250

EL380:

- Bollard lamp made of aluminium. Surface polyester powder-coated. Standard colour 9007 (DB702); other RAL colours available upon request.
- Luminaire in extruded aluminium profile 250x100mm (s = 4 mm), total height 445 mm. Aluminum section end cover welded and ground. The element for walkway lighting is made with one lighting unit. The lighting unit has flush mounted and screw sealed luminous area, covered with safety glass (238x330mm s=8mm).
- The bollard lamp is flush mounted on the ground or on a base element via the inner flange plate.
- The lighting unit may be inclined for special lighting needs.
- Lighting unit DF31:
 - LED board in metal core [s = 1.6 mm] with Teflon coated connection cable. LED board with 3x3 high-performance LEDs; warm white colour temperature 3000K, outdoor white 4500K and cool white 6000K.
 - Optical unit with 3 lenses made of transparent PLEXIGLAS [PMMA]. Affixed to the heat sink with the aid of two holding profiles. Silicon seal between optical unit and heat sink featuring an IP67 protection degree.
 - Cooling profile made of extruded aluminium section profile, silver anodised.
 - Lighting unit overall length 168.4 mm, width 55.2 mm and height 52 mm. The distance between the individual lenses is 56 mm.
 - Light emission angle
 - DF31: C90 = 77°
 - C0 - C180 = 80°
 - C270 = 45°
 - Optical unit suitable for lighting footpaths.
 - For maintenance purpose, a single board with 3x3 LEDs can be substituted.
 - Protective class III
 - The lighting unit has an IP67 protection degree
 - The LED board is in compliance with the low-voltage directive 2006/95/EU
 - Electronic unit 350mA to max. 700mA
 - Joint box for feed-through wiring
- Protective class of lamp I or II
- The lamp components have protection degree of at least IP 65.
- All fittings are made of stainless steel AISI 316 [1.4401]
- Lamp wired up to the terminal
- Surface finish: Polyester powder coating in the following process: alkaline degreasing, chemical stripping and chromating, each treatment followed by a double rinsing with demineralised water, subsequent drying and coating with polyester powder [30 minutes annealing at 180 - 200° C]. Medium layer thickness 80 microns.
- Weight: Approx. 8.5 kg
- The lamp is in compliance with the regulations CEI EN 60598.1-2000. Manufacturer certified in compliance with ISO 9001:2000

EL710:

- Bollard lamp made of aluminium. Surface polyester powder-coated. Standard colour 9007 (DB702); other RAL colours available upon request.
- Luminaire in extruded aluminium profile 250x100mm (s = 4 mm), total height 720 mm. Aluminum section end cover welded and ground. The lighting unit for walkway lighting is made with one lighting unit. The lighting unit has flush mounted and screw sealed luminous area, covered with safety glass (238x330mm s=8mm).
- The bollard lamp is flush mounted on the ground or on a base element via the inner flange plate.
- The lighting unit may be inclined for special lighting needs.
- Lighting unit DF31:
 - LED board in metal core [s = 1.6 mm] with Teflon coated connection cable. LED board with 3x3 high-performance LEDs; warm white colour temperature 3000K, outdoor white 4500K and cool white 6000K.
 - Optical unit with 3 lenses made of transparent PLEXIGLAS [PMMA]. Affixed to the heat sink with the aid of two holding profiles. Silicon seal between optical unit and heat sink featuring an IP67 protection degree.
 - Cooling profile made of extruded aluminium section profile, silver anodised.
 - Lighting unit overall length 168.4 mm, width 55.2 mm and height 52 mm. The distance between the individual lenses is 56 mm.
 - Light emission angle
 - DF31: C90 = 77°
 - C0 - C180 = 80°
 - C270 = 45°
 - Optical unit suitable for lighting footpaths.
 - For maintenance purpose, a single board with 3x3 LEDs can be substituted.
 - Protective class III
 - The lighting unit has an IP67 protection degree
 - The LED board is in compliance with the low-voltage directive 2006/95/EU
 - Electronic unit 350mA to max. 700mA
 - Joint box for feed-through wiring
- Protective class of lamp I or II
- The lamp components have protection degree of at least IP 65.
- All fittings are made of stainless steel AISI 316 [1.4401]
- Lamp wired up to the terminal, within the lamp with flush mounted inspection door with triangular clasp
- Surface finish: Polyester powder coating in the following process: alkaline degreasing, chemical stripping and chromating, each treatment followed by a double rinsing with demineralised water, subsequent drying and coating with polyester powder [30 minutes annealing at 180 - 200° C]. Medium layer thickness 80 microns.
- Weight: Approx. 11.5 kg
- The lamp is in compliance with the regulations CEI EN 60598.1-2000. Manufacturer certified in compliance with ISO 9001:2000

EL1250:

- Bollard lamp made of aluminium. Surface polyester powder-coated. Standard colour 9007 (DB702); other RAL colours available upon request.
- Luminaire in extruded aluminium profile 250x100mm (s = 4 mm), total height 1242 mm. Aluminum section end cover welded and ground. The lighting unit for walkway lighting is made with one lighting unit. The lighting unit has flush mounted and screw sealed luminous area, covered with safety glass (238x330mm s=8mm).
- The bollard lamp is flush mounted on the ground or on a base element via the inner flange plate.
- The lighting unit may be inclined for special lighting needs.
- Lighting unit DF31:
 - LED board in metal core [s = 1.6 mm] with Teflon coated connection cable. LED board with 3x3 high-performance LEDs; warm white colour temperature 3000K, outdoor white 4500K and cool white 6000K.
 - Optical unit with 3 lenses made of transparent PLEXIGLAS [PMMA]. Affixed to the heat sink with the aid of two holding profiles. Silicon seal between optical unit and heat sink featuring an IP67 protection degree.
 - Cooling profile made of extruded aluminium section profile, silver anodised.
 - Lighting unit overall length 168.4 mm, width 55.2 mm and height 52 mm. The distance between the individual lenses is 56 mm.
 - Light emission angle
 - DF31: C90 = 77°
 - C0 - C180 = 80°
 - C270 = 45°
 - Optical unit suitable for lighting footpaths.
 - For maintenance purpose, a single board with 3x3 LEDs can be substituted.
 - Protective class III
 - The lighting unit has an IP67 protection degree
 - The LED board is in compliance with the low-voltage directive 2006/95/EU
 - Electronic unit 350mA to max. 700mA
 - Joint box for feed-through wiring
- Protective class of lamp I or II
- The lamp components have protection degree of at least IP 65.
- All fittings are made of stainless steel AISI 316 [1.4401]
- Lamp wired up to the terminal, within the lamp with flush mounted inspection door with triangular clasp
- Surface finish: Polyester powder coating in the following process: alkaline degreasing, chemical stripping and chromating, each treatment followed by a double rinsing with demineralised water, subsequent drying and coating with polyester powder [30 minutes annealing at 180 - 200° C]. Medium layer thickness 80 microns.
- Weight: Approx. 14.5 kg
- The lamp is in compliance with the regulations CEI EN 60598.1-2000. Manufacturer certified in compliance with ISO 9001:2000

EL2000/6000:

- Light pole made of aluminium. Surface polyester powder-coated. Standard colour 9007 (DB702); other RAL colours available upon request.
- Luminaire in extruded aluminium profile 250x100mm (s = 4 mm), total height 2000 to 6000 mm. The luminaire may fulfill different lighting requirements, for instance facade and courtyard/object lighting, as well as walkway lighting. The luminaire may also be used for one of the abovementioned lighting requirements only. The lighting unit for street, walkway and big areas lighting is fitted with 1-3 lighting units.
- The element for façade illumination can accommodate up to three lighting units.
- The element for courtyard or street lighting in accordance with S classes, is fitted with one lighting unit. Depending on the illumination requirements more lighting units can be located in the light pole.
- The lighting unit may be inclined for special lighting needs.
- The element for footpath lighting must be positioned at 1180 mm above the ground.
- Luminous area of the façade illumination width 215 mm height 243 mm.
- Luminous area of the local or street lighting width 215 mm height 243 mm.
- The safety glass element can be screwed off for maintenance purposes.
- The light pole has a base element, made of FE510D [ST52-3N] hot-dip galvanised, flush mounted on a foundation with the aid of ground anchors.
- The lighting units have protection degree of IP 65.
- Lighting unit DS31/DS32/DP31:
 - LED board in metal core [s = 1.6 mm] with Teflon coated connection cable. LED board with 3x3 high-performance LEDs; warm white colour temperature 3000K and cool white 6000K.
 - Optical unit with 3 lenses made of transparent PLEXIGLAS [PMMA]. Affixed to the heat sink with the aid of two holding profiles. Silicon seal between optical unit and heat sink featuring an IP67 protection degree.
 - Cooling profile made of extruded aluminium section profile, silver anodised.
 - Lighting unit overall length 168.4 mm, width 55.2 mm and height 52 mm. The distance between the individual lenses is 56 mm.
 - Light emission angle

DS31: C90 = 55°	DS32: C90 = 56°	DP31: C90 = 74°
C0 - C180 = 74°	C0 - C180 = 77°	C0 - C180 = 70°
C270 = 25°	C270 = 27°	C270 = 23°
 - Optical unit suitable for local and street lighting.
 - For maintenance purpose, a single board with 3x3 LEDs can be substituted.
 - Protective class III
 - The lighting unit has an IP67 protection degree
 - The LED board is in compliance with the low-voltage directive 2006/95/EU
 - Electronic unit 350mA to max. 700mA
 - Joint box for feed-through wiring

- Protective class of lamp I or II
- The lamp components have protection degree of at least IP 65.
- All fittings are made of stainless steel AISI 316 [1.4401]
- Lamp wired up to the terminal within the column fitted with a flush mounted inspection door with triangular clasp
- Surface finish: Polyester powder coating in the following process: alkaline degreasing, chemical stripping and chromating, each treatment followed by a double rinsing with demineralised water, subsequent drying and coating with polyester powder [30 minutes annealing at 180 - 200° C]. Medium layer thickness 80 microns.
- Weight: From 38 to 85kg depending on light pole finish.
- The lamp is in compliance with the regulations CEI EN 60598.1-2000. Manufacturer certified in compliance with ISO 9001:2000

**Knowledge, skills and individual solutions
around the element of light in public spheres.**