POLESANO—

Polesano is the first collaboration in product design between DELTA LIGHT and DEAN SKIRA. The goal was to develop a new concept in lighting instruments, designed specifically for urban settings, be that a pedestrian pathway, roadway, park, square, façade or landscape. It needed to provide maximum flexibility for the designer to combine different optical characteristics, whilst keeping the same aesthetic for the entire system, regardless of the area.

The result is Polesano, offering modularity and flexibility, and providing personal involvement for the designer to meet specific functional and aesthetical needs of the project. Future developments can be integrating video surveillance, Wi-Fi, speakers or other IoT units.
DEAN SKIRA —
is the founder of SKIRA,
an award-winning practice based in
Pula (Croatia) with projects also in the
EU, Middle East, Russia, Canada, and
the United Kingdom. For the past 30
years, he is building and creating mostly
with intangible forms while working with
investors, architects and designers to
create meaningful lighting experiences.

SKIRA.HR
Urban fabric is a complex set of architectural, historical, cultural, commercial, spatial and functional requirements for inhabitants. Connective tissue in an urban setting is unthinkable nowadays without light that follows vehicles, pedestrians, landscape or vertical surfaces in any given type of area throughout nocturnal communication.

The main purpose of urban lighting is to secure safety and fulfill essential functions. At the same time it can enhance landscape design, increase social interaction and upgrade orientation. Historically we had a pole which was holding a luminaire at a certain height to provide light according to its photometric characteristics across a given area. Usually pole and luminaire were two entirely different elements, often coming from different suppliers, the pole generally not even considered a part of the design adding no aesthetic value. That’s where Polesano takes it to the next level.

_The main idea of ‘POLESANO’ is to create a ‘device’ which can provide all necessary forms of light in one single aesthetically unique structure, where the pole and the fitting become one body._

Dean Skira
The Polesano is characterized by a minimalist and pure design, subordinate to its environment. Its modularity and high flexibility allows to meet multi-zone lighting needs in a continuous design language.

Thanks to different optics and sizes Polesano enables precise illumination as well as merging lighter and darker zones smoothly, making the combination landscape, social interaction and lighting more effective.
High grade pure aluminium alloy, lowest contaminant grade

Cleaning and degreasing + control test

Etching process + control test

Passivation process + control test

Finishing and protection layer

Layer thickness process + control test

Outdoor luminaires often need to withstand harsh weather conditions, therefore Delta Light® maintains the highest standards, both in material choice as well as in the coating process. Both the luminaire heads as the pole are being finished according to the specifications of the quality label Qualicoat.

In addition to harsh weather conditions, outdoor luminaires can also be subject to collision. Therefore, the enclosure of the fixture needs to protect the electrical equipment, according to a standard classification. The IK label gives us an idea of the possible impact a luminaire can withstand. In case of Polesano, IK08 stands for an impact of 5 Joule.

1000h filiform corrosion test: successfully passed
Flexibility of multiple luminaires from a single infrastructure

Conventional street lights primarily illuminate horizontal areas. However, this is not sufficient to meet the needs of today’s landscape design and illuminate with impact. The flexibility of the Polesano enables to illuminate vertically and horizontally, as the double axis in the connection box allows a 355° rotation from the luminaire vs. the pole and a 180° rotation from the luminaire itself. In this way, any possible set-up can be achieved.
**Extra Clear - Tempered Glass**

To maintain an IP66 rating, the non-reflective glass is glued precisely into the front plate by means of a robot.

**Luminaire Head**

The luminaire head houses both LED engine and power supply. For maintenance or in case of any sudden defect, the head can be removed from the pole and check-up can be done on ground level. To keep dust, dirt or humidity from entering the luminaire, the head is completely sealed with a silicon rubber gasket.

**Power Supply**

Street and area lighting can suffer from voltage peaks through direct or indirect lightning charges. The standard power supply used can withstand peaks up to 6 kV. Moreover, it also features AstroDIM functionality based on an internal timer, allowing energy savings overnight through multi-stage power reduction.

**LED Engine**

With a standard colour rendering index CRI 80, a maximum colour shift of MacAdam Step 3 and a service lifetime of 80,000 hours, the LED engine used in Polesano ensures long-lasting high quality light.

**Optics**

Each of the 16 LEDs has its own lens, allowing to create a multi-layer light output out of the individual LED dots. The use of separate lenses allows for 4 different optics (Spot, Medium, Flood and Street) while maintaining design consistency, so no visible differences can be noticed between the different luminaire heads.

**Accessories**

Although the compactness of the luminaire, the design offers the possibility to add an accessory between the optics and the tempered glass. Either a honeycomb is available to improve the visual comfort for the passer-by, or a linear spread lens can be added to alter the beam of the luminaire and generate a more elliptical light effect.

**Connection Box**

The connection box is the link between pole and luminaire head. Apart from the electrical connector, it also contains the two hinges that can be used to tilt and/or rotate the luminaire head and fine tune the light effect. By separating the electrical and mechanical parts from the luminaire head, the head does not have to be opened when installing, ensuring no damage can be done to the LED engine or the IP66 rating.
The main idea of 'POLESANO' is to create a 'device' which can provide all necessary forms of light in one single aesthetically unique structure, where the pole and the fitting become one body.
Precise Optics

Polesano comes in 4 optics, enabling precise illumination and staging of buildings, decorative elements, paths and streetways. Other specific lenses with an asymmetrical or electrical distribution are in development, but can be asked for on request.

Polesano can be combined with Delta Light’s unique CTRL DELTA, a user-friendly solution for easy wireless control via mobile devices.
Configurate to your needs.

You can shape your Polesano according to the specific needs of your project. The pole comes in 2 standard heights, either 4 or 6 meters high. Both heights can be combined with one, two, three or four luminaires. The luminaires can be any mix of the spot, flood, medium or street optics, or a set of the same optics - depending on the specific illumination requirements of its landscape. Besides the height of the pole and the selection of luminaire optics, you can also opt for either anchored installation or with a base.
A toolbox for different urban applications

Illuminating the street, the park, objects and façades certainly requires varying optic characteristics, power, beam angle and so on. By definition it requires completely different luminaires and multiple poles. The Polesano is able to combine multiple functions in one pole. It is a modular toolbox combining best lighting optics with elegant design, enabling you to specific tailor your lighting around human and aesthetical needs.
Street
Asymmetric _
Concrete, Steel, Light and Emotions

Lighting is dependent on architecture or the space in between, like music is dependent on silence among notes. The tension amid utilitarian and poetic gives light great power and therefore we can truly express ourselves only when designing lighting installations. Then the spirit of place Genius loci brings to us the decisive moment of inspiration to build the atmosphere of the place and its experiential quality.

At SKIRA we refer to light as to an intangible but powerful building material. By understanding light as an infinite voyager, we have developed skills to capture its journey.

Light is a complex fusion of forms intervened in our eyes. The form of light, the form of shadow, the form of the illuminated object and the form of consequence together blend the material and non-material elements of space which condition our perception influencing our biological and emotional sensibility. In this sense, when we talk about animism, we could say that light is a container of soul within its idiosyncratic form.

DEAN SKIRA—
Standard Configurations

Within the Polesano Range, some standard configurations are offered, both for the pole and the luminaire. A pole height of 4m or 6m can be chosen, either with anchor or base as installation possibilities. Both heights allow you to have up to 4 luminaires to be mounted in standard combinations, as shown below.
Graduated scale with 5° steps on both horizontal and vertical axis for better alignment of luminaires.
Next to lighting, the evolution in public infrastructure and IoT often asks for additional specifications such as video surveillance, speakers, WiFi connection, USB chargers, … On request, our R&D team can have a closer look into your specific project if one of these extras is required.

PHOTOMETRICS

HONEYCOMB S105

LINEAR SPREAD LENS S105

ON REQUEST
POLESANO POLE

- **Type**: 43
- **Height**: 120-277V / 50-60Hz
- **Mounting Type**: Anchorage 800mm / 1000mm
- **Service**: Pole Base
- **Wiring**: Incl. 1 x Cable H05 RN-F 2 x 1mm² / Luminaire

### Options
- Fuse Box
- IP68 Junction Box
- IP68 Connector 3P
- Plate 11 (only for version with Base Plate)

All electrical connections need to comply with IP53 regulations.

*ON REQUEST*

**Incl. 2 x Fuse 4A**
**POLESANO WALL**

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**OPTIONS**
- FLOOR BASE: 15932 0010 N

**ACCESSORIES**
- HONEYCOMB S105: 431 03 01 B
- LINEAR SPREAD LENS S105: 431 03 02

**DESIGN BY** DELTA LIGHT® & DEAN SKIRA

![Image of POLESANO WALL product]

**IK08**

**120-277V / 50-60Hz**

**IP66**