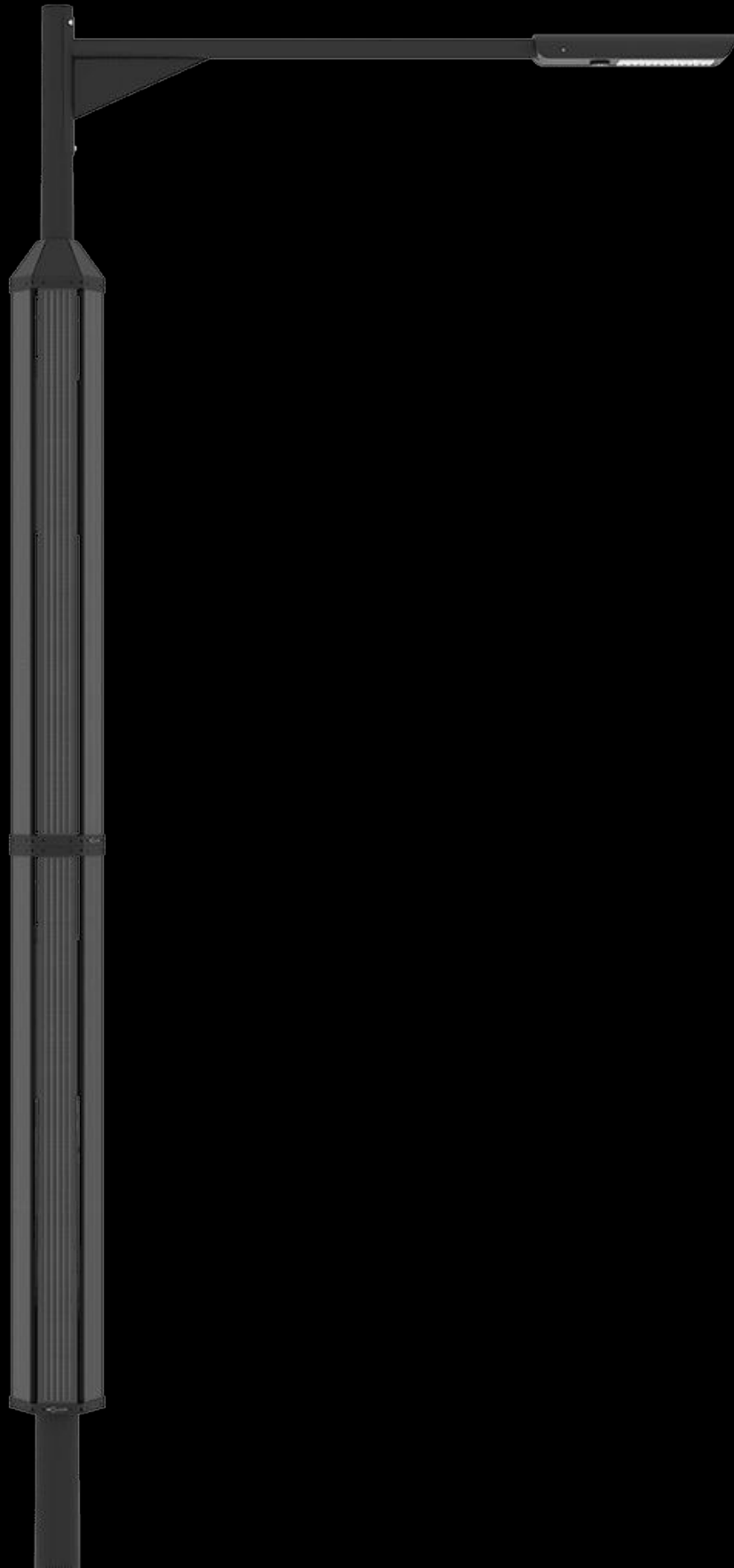


**BULLARD
SOLAR**
One with the Sun

COLARSUN 90 VERTICAL SOLAR STREET LIGHT

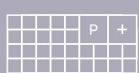


FIXTURE TYPE: _____

PROJECT NAME: _____

INTRODUCTION

integrated solar street light

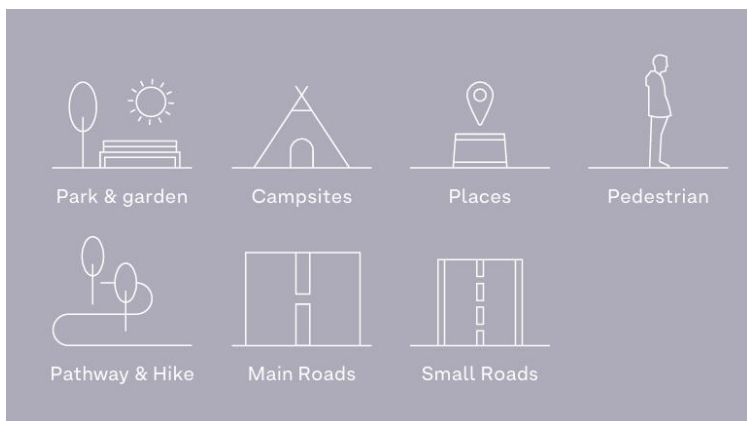


PRO⁺
PREMIUM DESIGN

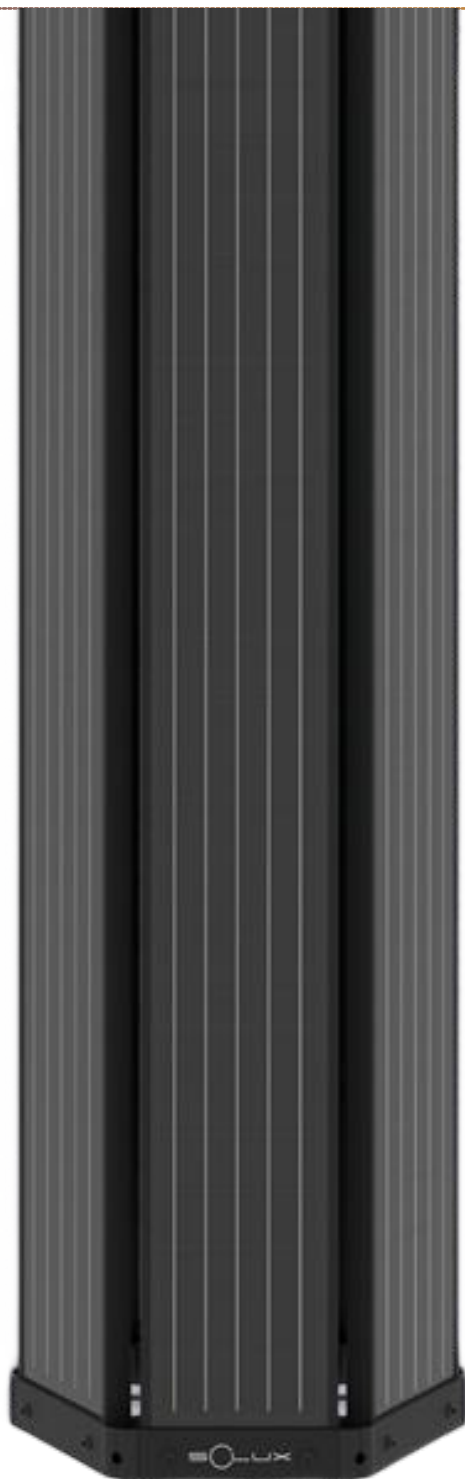
Hello Vertical lighting,

While creating the COLARSUN we wanted a solar street light easy to install, requiring no maintenance or cleaning. Our aim was also to create a solution that could bring retrofitting to the next level with turning existing energy consuming and inefficient light point to sustainable solar powered at a realistic cost. After months of hard work, our team of experts developed COLARSUN solar street light, which not only meets all of these criteria, but also boasts a sleek and modern design.

Suitable for



Certified by



Bullard Solar retains the right to modify or change product specifications without prior notice, as part of our ongoing commitment to improvement

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FIXTURE TYPE: _____

PROJECT NAME: _____



NOMINAL FLUX 17640 Lumens
NOMINAL POWER 90 watts

LIGHTING

Efficiency 196 Lumens/Watts
Led PHILIPS Luxeon 30-30
Lifetime Over 100.000 Hrs - LM80
Optics/CCT T1 / TII / TIII / T-IV / T-V / T10 / T35 - 2300 to 6500K
Light Height From 8 to 10 meters

BATTERY

Technology Lithium Iron Phosphate LIFEPO4
Capacity 1842 Wh
Autonomy Over 24 hours at full charge 4 Rainy Days back up
Charging time 5/6 Hours
Lifespan Over 5000 CYCLES @ 50% DOD over 10y lifetime
Working temp -10°c to 70°c (optional -40°c TO 70°c)

ENERGY

Number of Colarsun 3
Solar panel 195 W
Option Hybrid System
Cells type TOPCON Monocrystalline Panel Grade A 25 years
Certificate IEC 61215 - IEC 61730 I and II - IEC 60904

ELECTRONIC

Controller MPPT Controller, (Bullard Solar Bridge Optional)
Sensor Microwave 360° Sensor
Cabling Waterproof Connector, (Plug and Play)
Protection Battery Management System (BMS)

MECHANICAL

Wind speed 76 mm to 100 mm
Material Aluminium

DIMENSIONS

Solar Panel 198.59" × 11.14" × 9.92"
Led Fixture 23.62" × 6.02" × 3.19"
Carton size 68.50" × 15.75" × 14.17" / 26.38" × 8.66" × 7.09"
Net weight 144.91 lb
Gross weight 168.10 lb
Qty / Ctn 20" / 40" 35 / 86

CERTIFICATIONS

**IEC / TUV / EMC / LM-79- 08
AND LM-80 TEST STANDARDS
/ IK8 / IP65 / CE / ETL**

**5
YEARS**

* Bullard Solar offers a 5 Year Limited Warranty Luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers all components when installed and operated according to Bullard Solar instructions.

Fixture suitable for ambient temperature from -10° to 50°.

PV Panels - 20 year performance warranty

Controller & Batteries: 5 years

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FIXTURE TYPE: _____

PROJECT NAME: _____



HOW TO ORDER:

CODE:

Example:
CODE: BS-CS90-SLX-30K

BS-CS90-SLX-30K

1

DIMENSIONS:

Solar Panel - 198.6" x 11.14" x 9.92" /
(504.56 cm x 28.3 cm x 25.2 cm)

Led Fixture - 23.62" x 6.02" x 3.19" /
(60 cm x 15.3 cm x 8.1 cm)

2

CCT:

-23K	2300K
-30K	3000K
-40K	4000K
-50K	5000K
-65K	6500K

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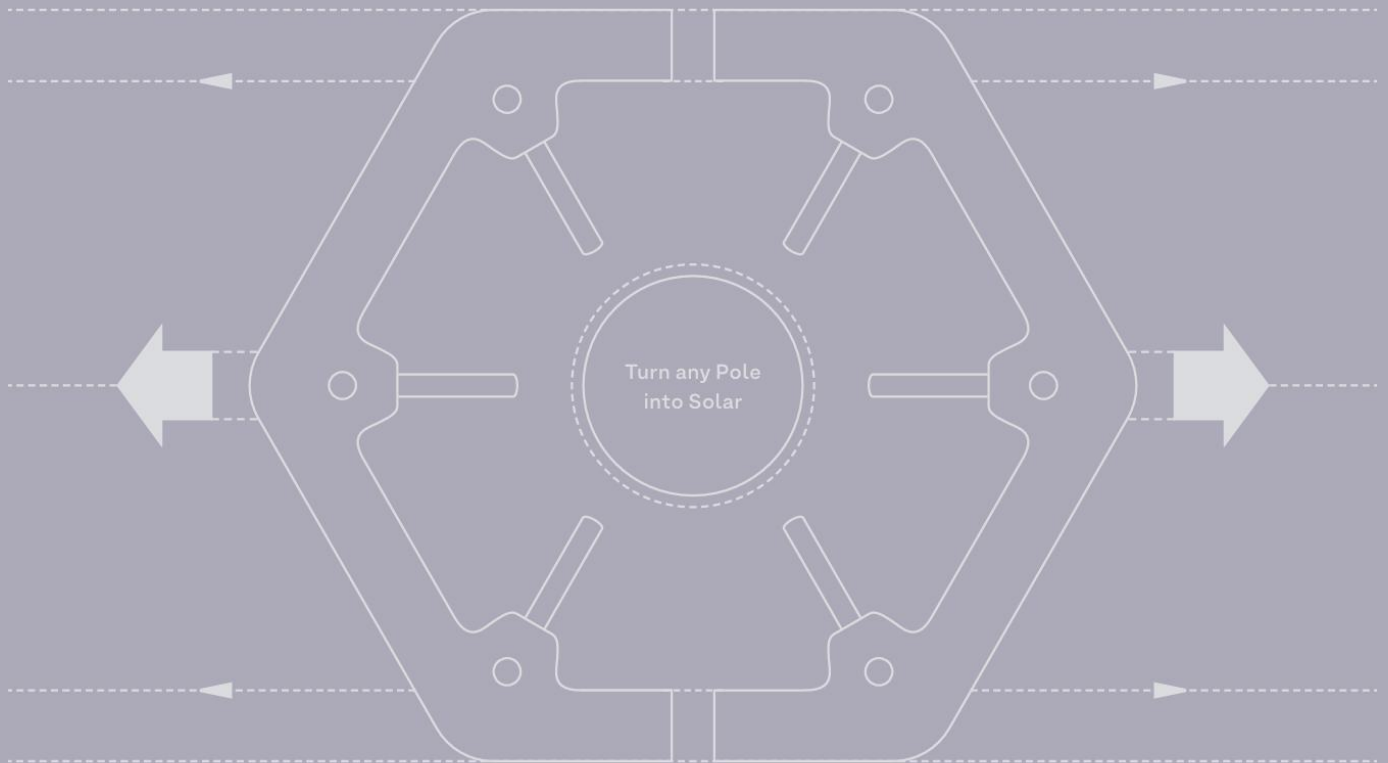
CODE:
BS-CS90-SX

FIXTURE TYPE: _____

PROJECT NAME: _____

Colarsun concept

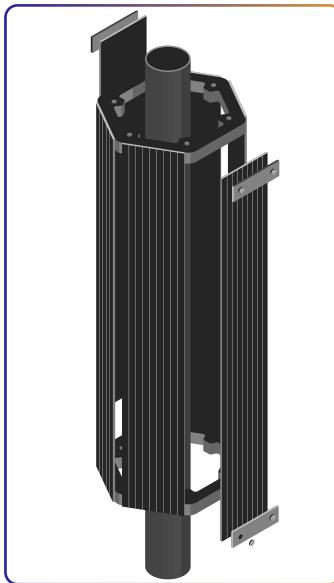
Easy installation - Plug & play



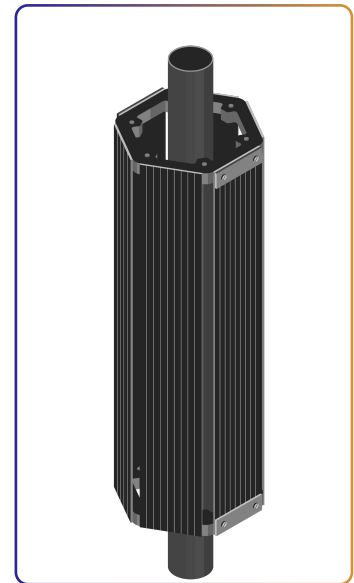
Plug & Play | One man job installation



Installation Step - 1



Installation Step - 2



Installation Step - 2

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CODE:
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FIXTURE TYPE: _____

PROJECT NAME: _____

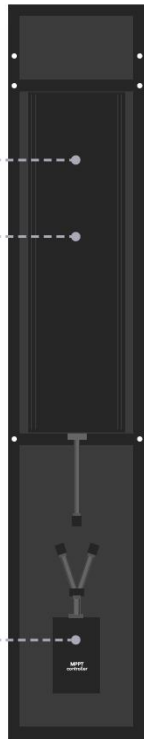
The unconventional vertical solar panels that ensure fewer dirt deposits and low cleaning maintenance requirements enable COLARSUN to offer the best performances consistently in any conditions. This unique and smart design makes Colarsun the perfect solution for arid desert climate.

All in one sytem

Enjoy a hassle free maintenance with COLARSUN exclusive design product range.

Easy
Access

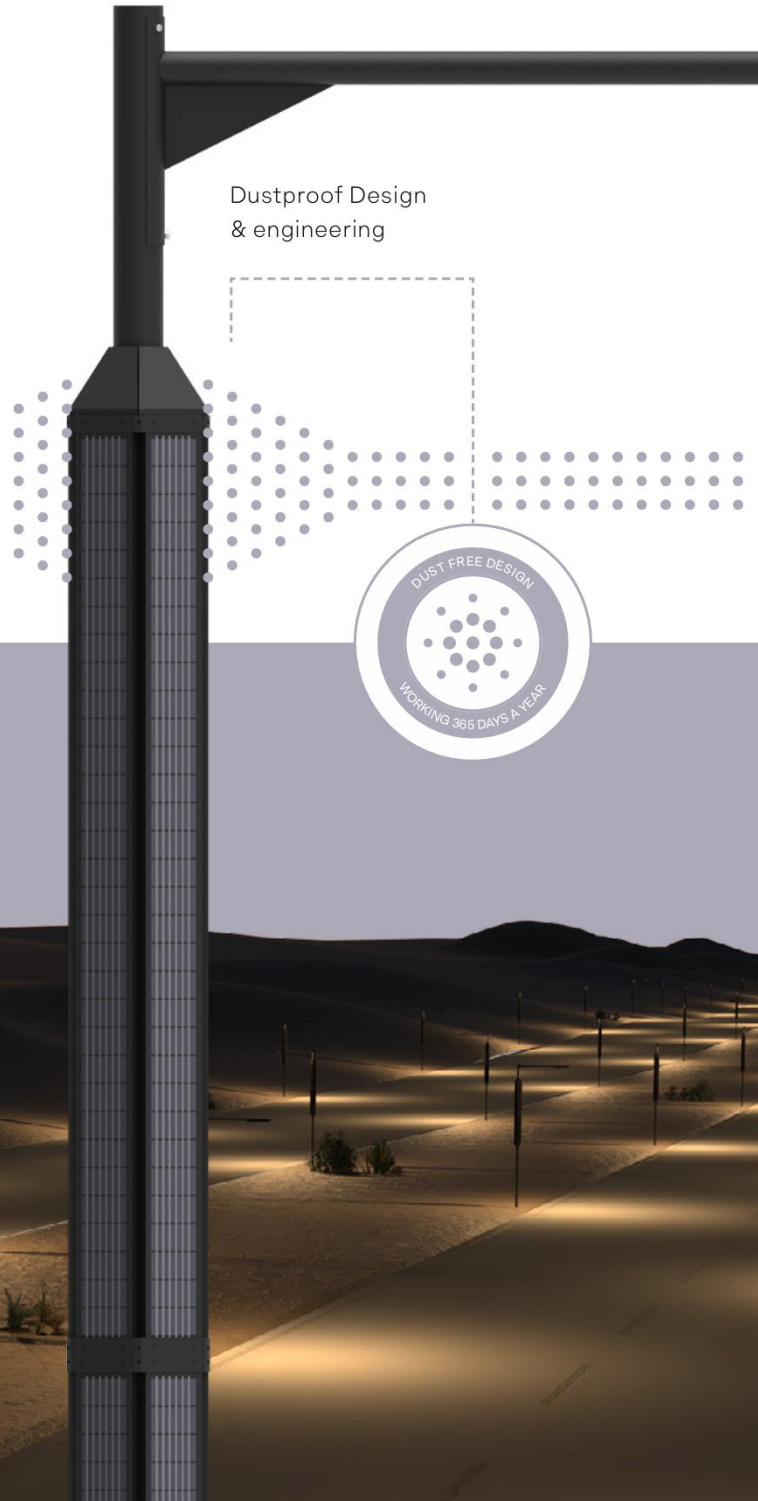
Battery
& Controller



Features and advantages

Hassle free maintenance

Dustproof Design
& engineering



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FIXTURE TYPE: _____

PROJECT NAME: _____

COLARSUN exclusive conception & design allow a sun captation at 360° all along the year maxi mizing the energy capacity of the product.

360° Sun Captation

Colarsun engineering is made to provide a 360° sun exposure allowing an optimum battery charging.

FEATURE AND ADVANTAGES

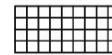
360° Sun / 365 days a year



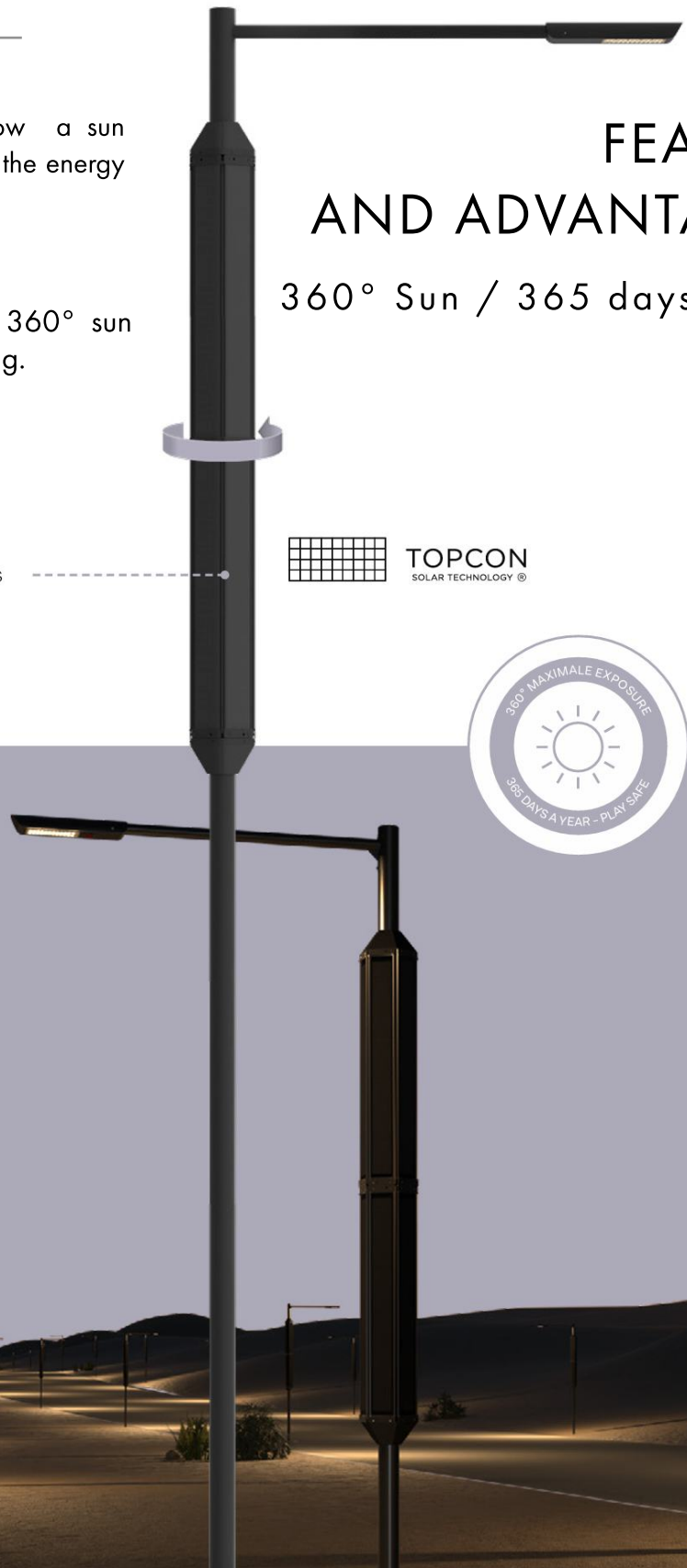
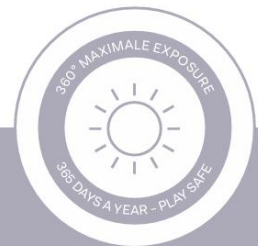
360°
solar panels



Grade A
Solar Cells



TOPCON
SOLAR TECHNOLOGY ®



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CODE:
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FIXTURE TYPE: _____

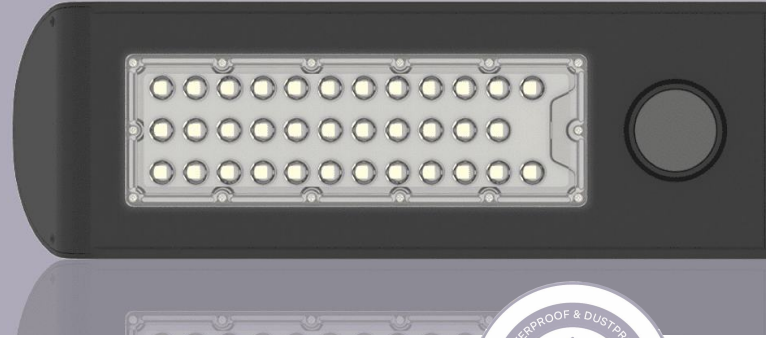
PROJECT NAME: _____

LUMINAIRES HOUSING & LEDS

17640 Lumens - 2300 to 6500 K

Our luminaire boasts an anodised aluminium casing, offering exceptional protection with an IP66 rating and superior heat dissipation. Equipped with PHILIPS LUXEON HE PLUS high efficiency chips, it delivers an impressive 196 lumens per watt efficacy.

Furthermore, the luminaire adheres to DARK SKY requirements for light pollution, ensuring minimal upward lighting at just 0.31%.



Led : 3030 | Led Q. (Pcs) : 72 | Optics: 1 | CRI > 80

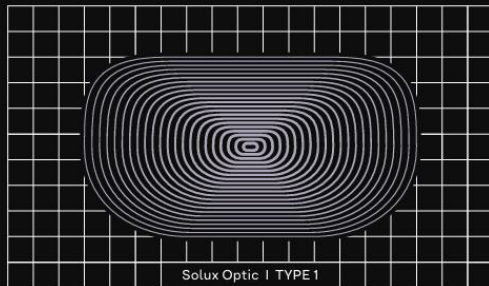
LUXEON
BY PHILIPS LUMILED



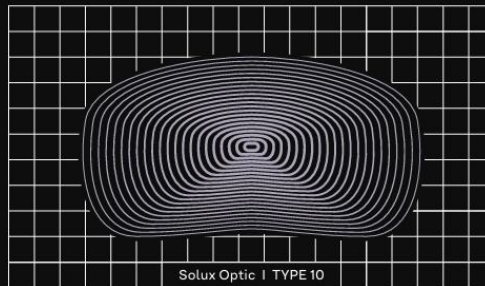
DIFFERENTS OPTICS AVAILABLE

our different optics will allow you to optimize the lighting results of your projects.

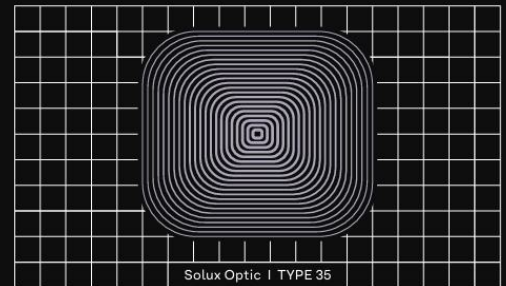
(please contact us for more optics)



Solux Optic I TYPE 1



Solux Optic I TYPE 10

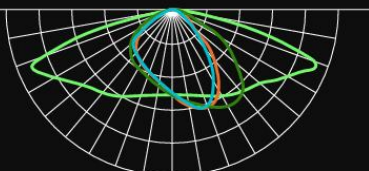


Solux Optic I TYPE 35

LIGHT DISTRIBUTION CURVES

Solux Optic I TYPE 1

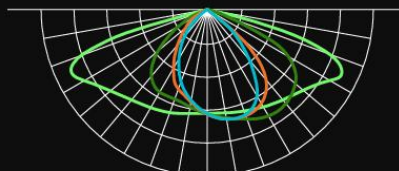
Average beam angle: 50% | 107.6 DEG



CO - 180,156.2 C60 - 240,86.6
C30 - 210,107.1 C90 - 270,80.5

Solux Optic I TYPE 10

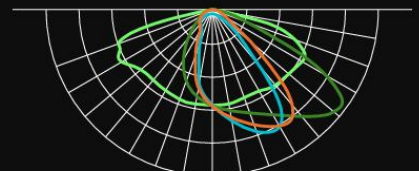
Average beam angle: 50% | 107.1 DEG



CO - 180,152.7 C60 - 240,83.0
C30 - 210,118.5 C90 - 270,74.1

Solux Optic I TYPE 35

Average beam angle: 50% | 87.1 DEG



CO - 180,152.7 C60 - 240,61.3
C30 - 210,81.8 C90 - 270,52.5

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FIXTURE TYPE: _____

PROJECT NAME: _____

BATTERY LiFePO4 Made to last

Aluminium waterproof casing & Natural Airflow

The COLARSUN series is equipped with Iron Phosphate Lithium LiFePO4 battery. This technology is proved to be the best chemical technology for solar application on the market. With a cycle life of over 5000 Cycles @ 50% DOD, the battery enjoys lifespan of over 13 years.

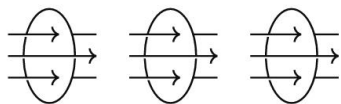


Extreme conditions ready
-10° to 85° (optional - 40°)

BMS System by Bullard Solar

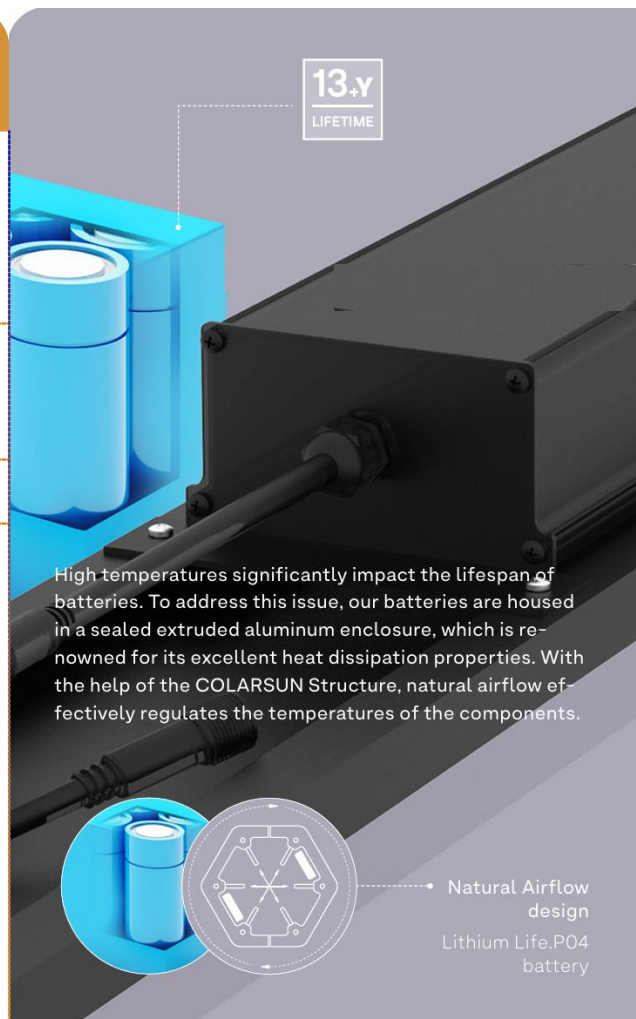
Electronic battery management system

Our batteries are equipped with electronic circuit boards for a higher protection



Over & Under current - Overload
Over & Under Voltage - Over & Under Charge
Temperature management

DIRECT BATTERY ACCESS | ANTI THEFT SCREW 



COMPARISON OF DIFFERENT BATTERY TECHNOLOGIES



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FIXTURE TYPE: _____

PROJECT NAME: _____

TOPCON MONOCRYSTALINE SOLAR PANEL

Anodized aluminium frame for longevity

For high performance and a sleek design, the COLARSUN lights are equipped with TOPCON photovoltaic technology, providing very high efficiency, as well as improved performance in low irradiation. It allows maximizing the installed power in a limited space. Vertically mounted, they don't accumulate dust ultimately reducing the need for complex and expensive cleaning programs.

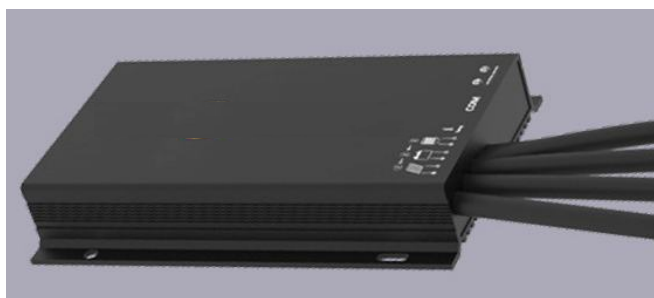
TOPCON ADVANTAGES / POWERLOSS DUE TO SHADING



MPPT CONTROLLER

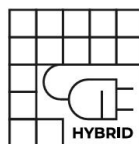
Waterproof connectors | Performance & reliability | Up to 98% efficiency

ANTI BLACKOUT: Load adjust according to the battery capacity & Intelligent LED Driver.

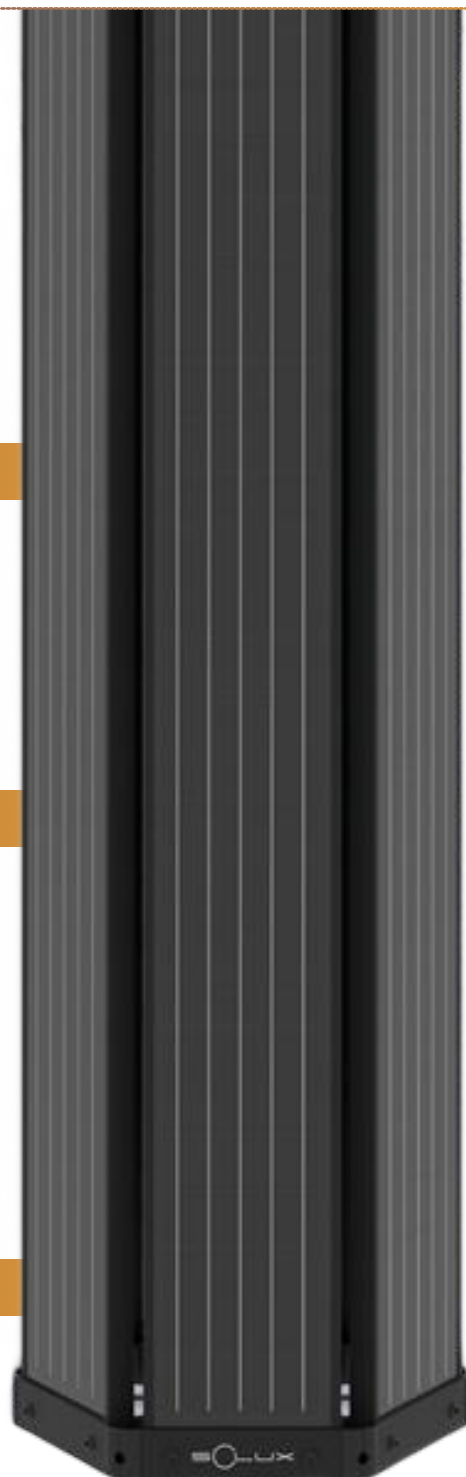


AVAILABLE FOR HYBRID-RETROFITTING

Transform your existing street light into a solar-powered one seamlessly with our Hybrid AC/DC MPPT Controller and MEAN WELL Driver.



Hybrid system



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FIXTURE TYPE: _____

PROJECT NAME: _____

MICROWAVE SENSOR

Bullard Solar exclusive sensor

Bullard Solar luminaires are equipped with microwave detectors that use the Doppler effect, just like car radars, to detect nearby objects and measure their distance. The sensor emits a high-frequency wave that reflects off objects, allowing for precise analysis.

Because these microwaves only detect specific objects, our sensors offer increased detection reliability, resulting in:

- Much better reliability compared to the Infrared detector
- Up to 360° Directivity
- Insensitivity to other environmental variations such as light, color, temperature, etc.

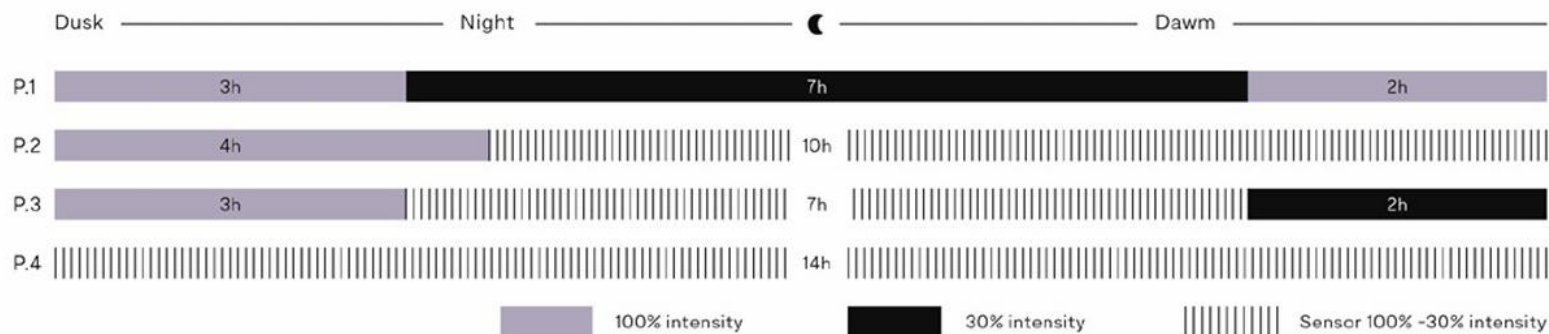


Presence detection



OPERATION MODE AND LIGHTING SCHEDULE

In addition to automatic switching on and off, you can choose from different modular operating modes to suit the specific needs of your project. So, whether your project demands part-night brightness, early evening lighting, or anything in between, our flexible lighting programs have you covered!



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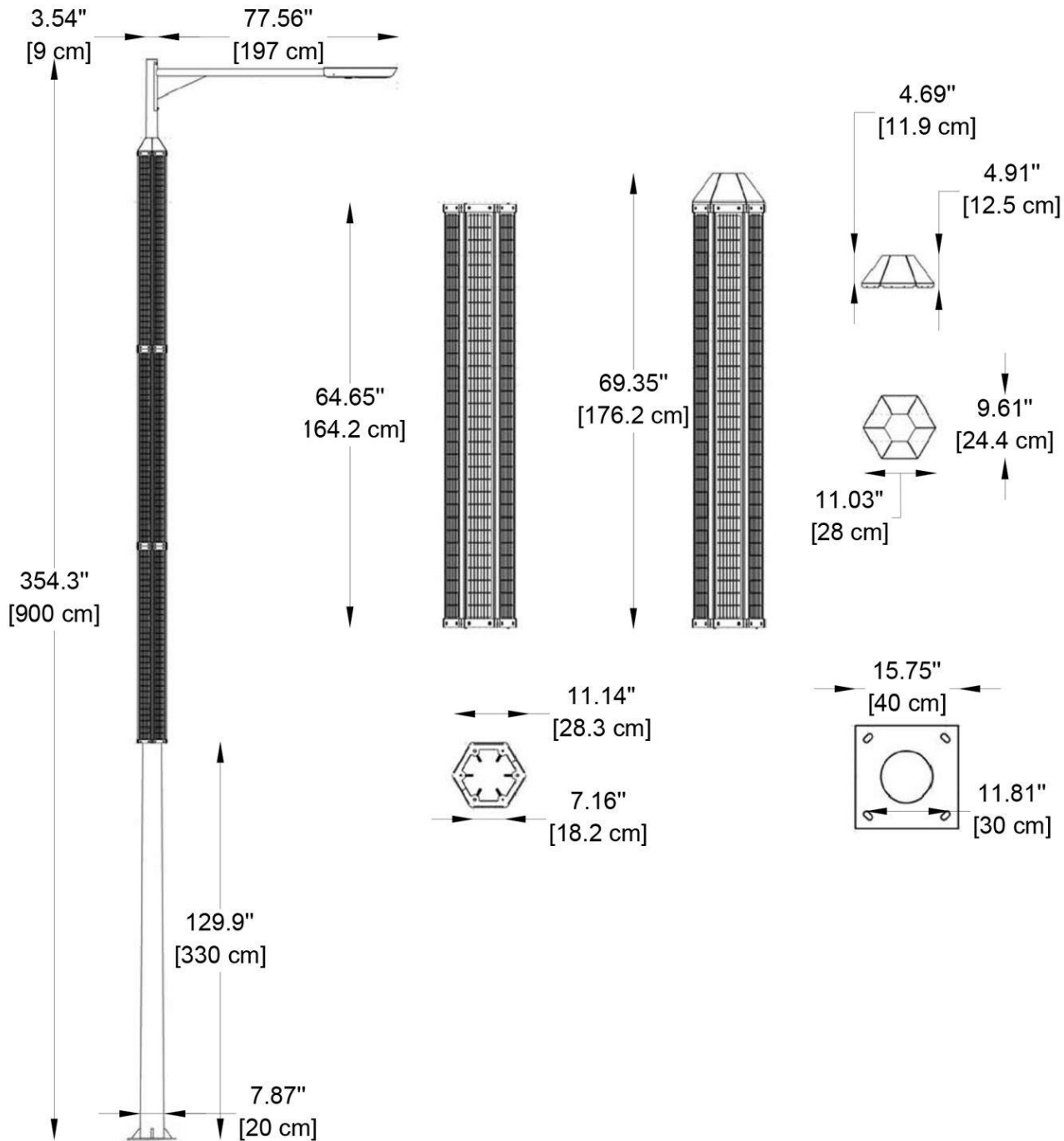
CODE:
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FIXTURE TYPE: _____

PROJECT NAME: _____

Technical drawing Colarsun 90

Product Dimensions



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