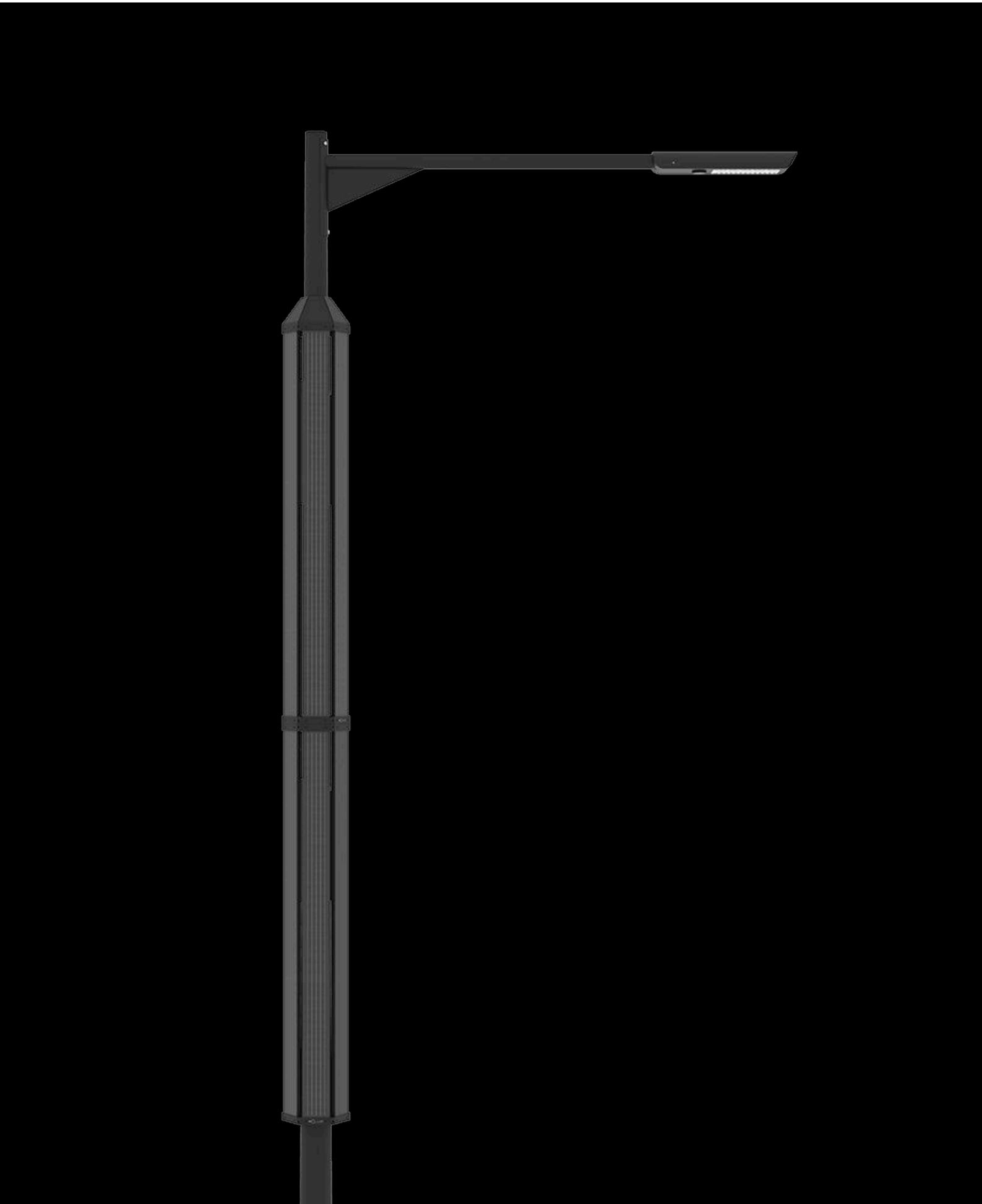
BULLARD SOLAR
One with the Sun

COLARSUN 60
VERTICAL SOLAR STREET LIGHT



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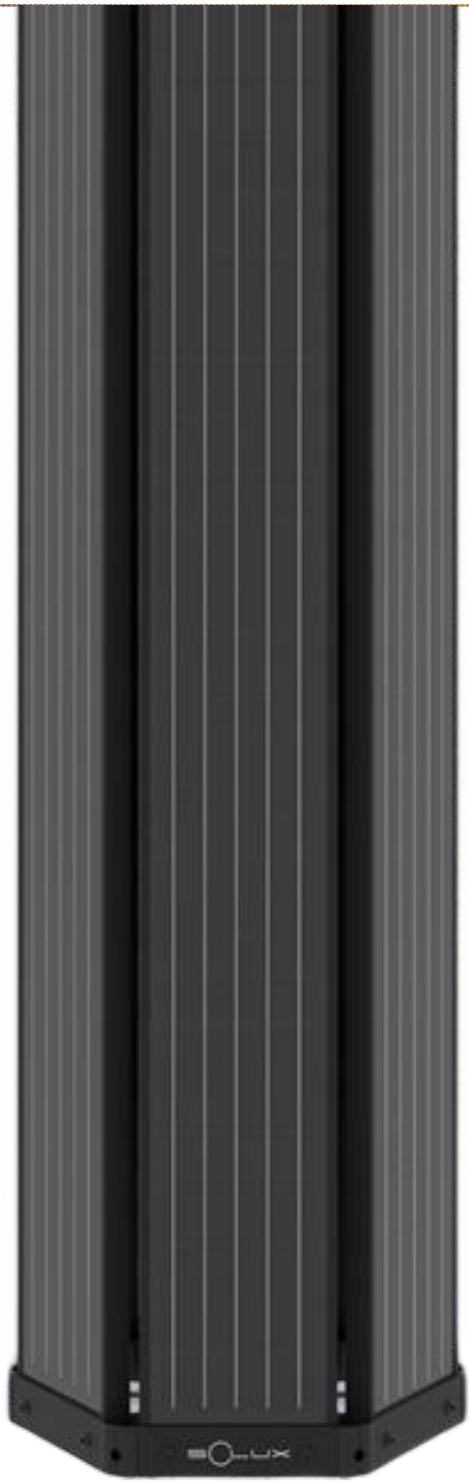
CODE:
BS-CS60-SLX

FIXTURE TYPE: _____

PROJECT NAME: _____

INTRODUCTION
integrated solar street light

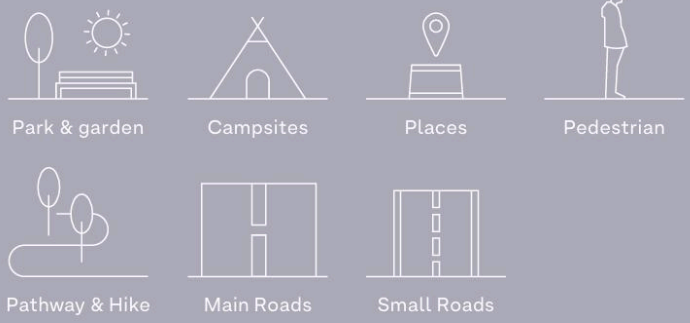
PRO+ PREMIUM DESIGN



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 retrofit ting to the next level with turning existing energy consum ing 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

ONE WITH THE SUN

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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

NOMINAL FLUX	11760 Lumens
NOMINAL POWER	60 watts

LIGHTING

Efficiency	196 Lumens/Watts
Led	PHILIPS Luxeon 30-30
Lifetime	Over 100.000 Hrs - LM80
Optics/CCT	TI / TII / TIII / T-IV / T-V / T10 / T35 - 2300 to 6500K
Light Height	From 6 to 8 meters

BATTERY

Technology	Lithium Iron Phosphate LIFEPO4
Capacity	1128 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	2
Solar panel	195 W
Option	Hybrid System
Cells type	TOPCON Monocrystaline 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	33.96" × 11.14" × 9.92"
Led Fixture	23.62" × 6.02" × 3.19"
Carton size	68.50" x 15.75" x 14.17" / 26.38" x 8.66" x 7.09"
Net weight	101.86 lb
Gross weight	117.75 lb
Qty / Ctn 20" / 40"	54 / 128

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CODE:
BS-CS60-SLX

FIXTURE TYPE: _____

PROJECT NAME: _____



HOW TO ORDER:	CODE:
Example: CODE: BS-CS60-SLX-40K	BS-CS60-SLX-40K

1 DIMENSIONS:

Solar Panel - 133.96" x 11.14" x 9.92"
(340.36 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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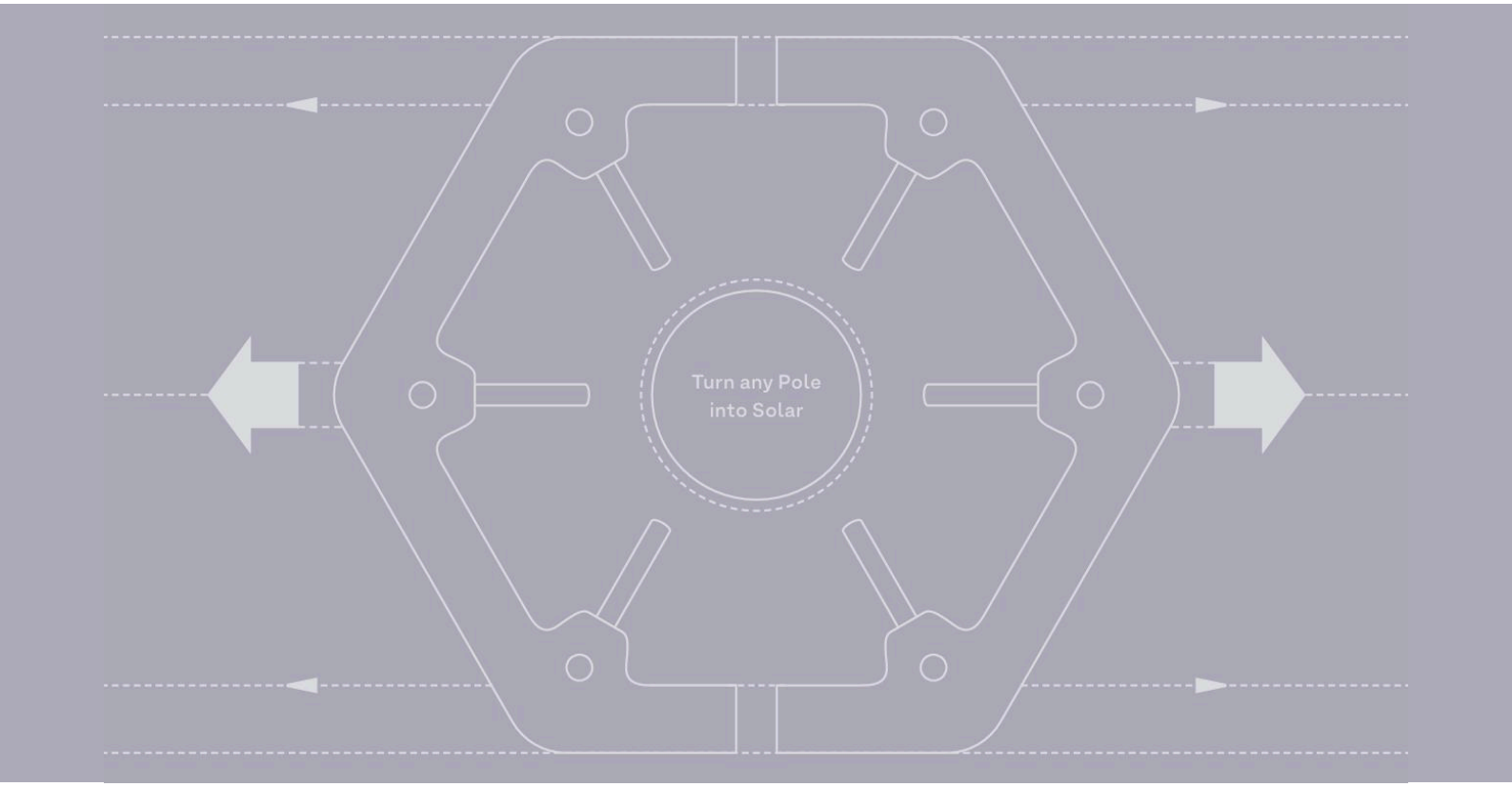
CODE:
BS-CS60-SLX

FIXTURE TYPE: _____

PROJECT NAME: _____

Colarsun concept

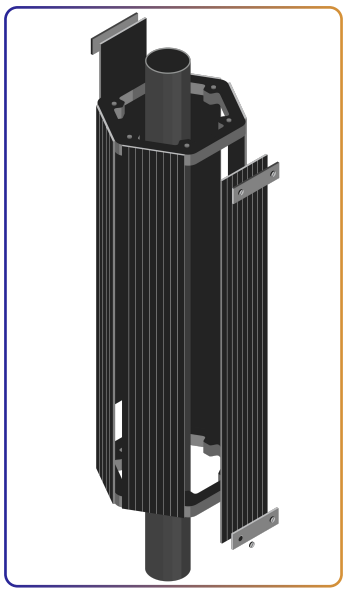
Easy installation - Plug & play



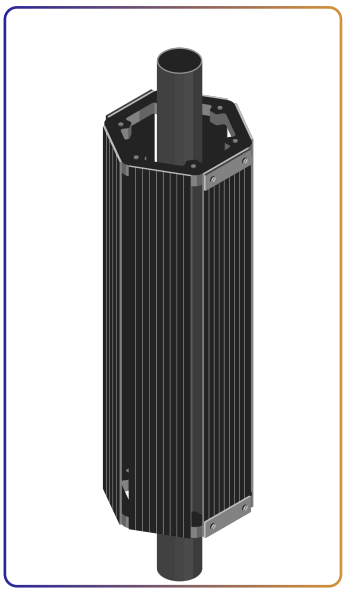
Plug & Play I One man job installation



Installation Step - 1



Installation Step - 2



Installation Step - 2

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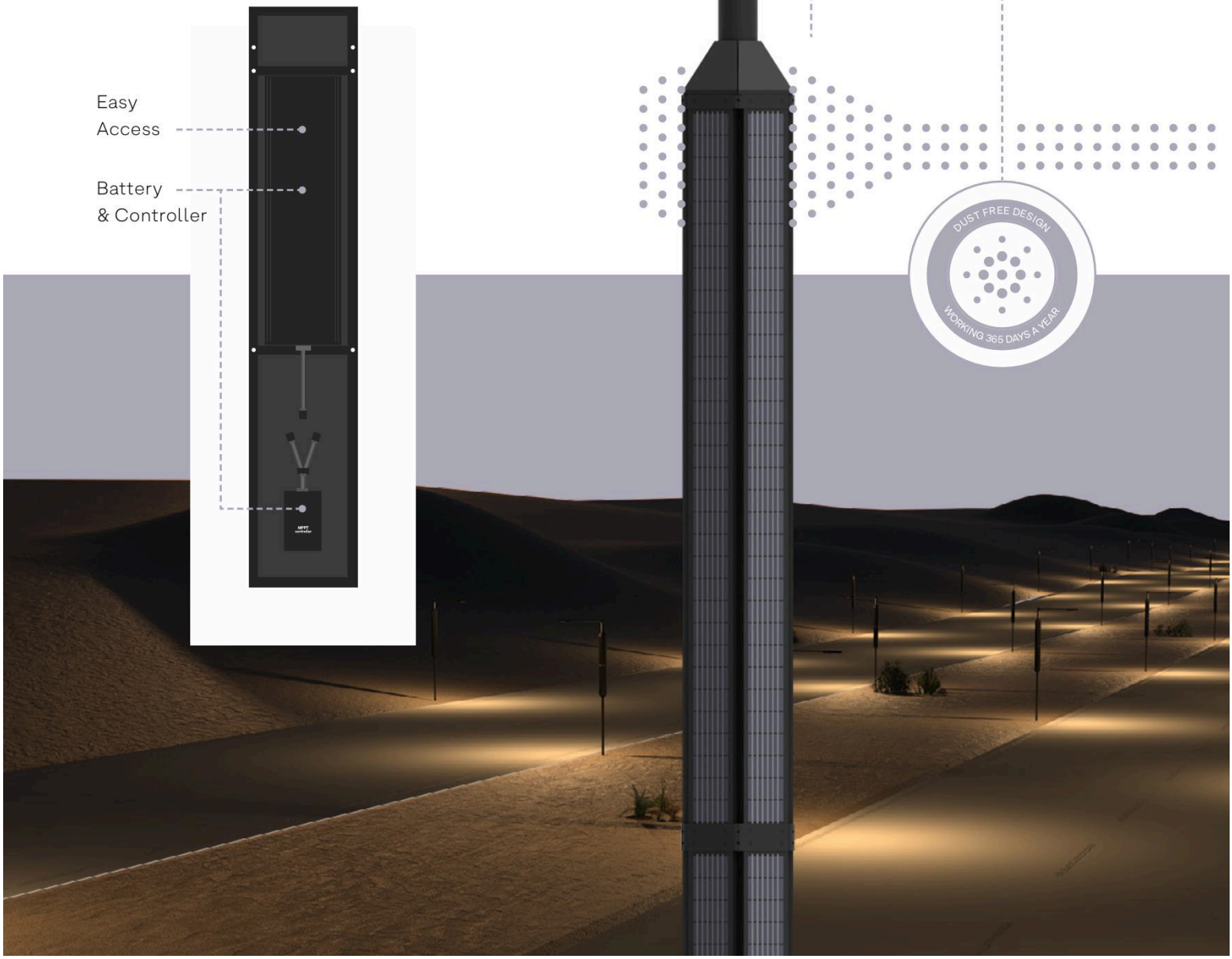
Features and advantages

Hassle free maintenance

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.



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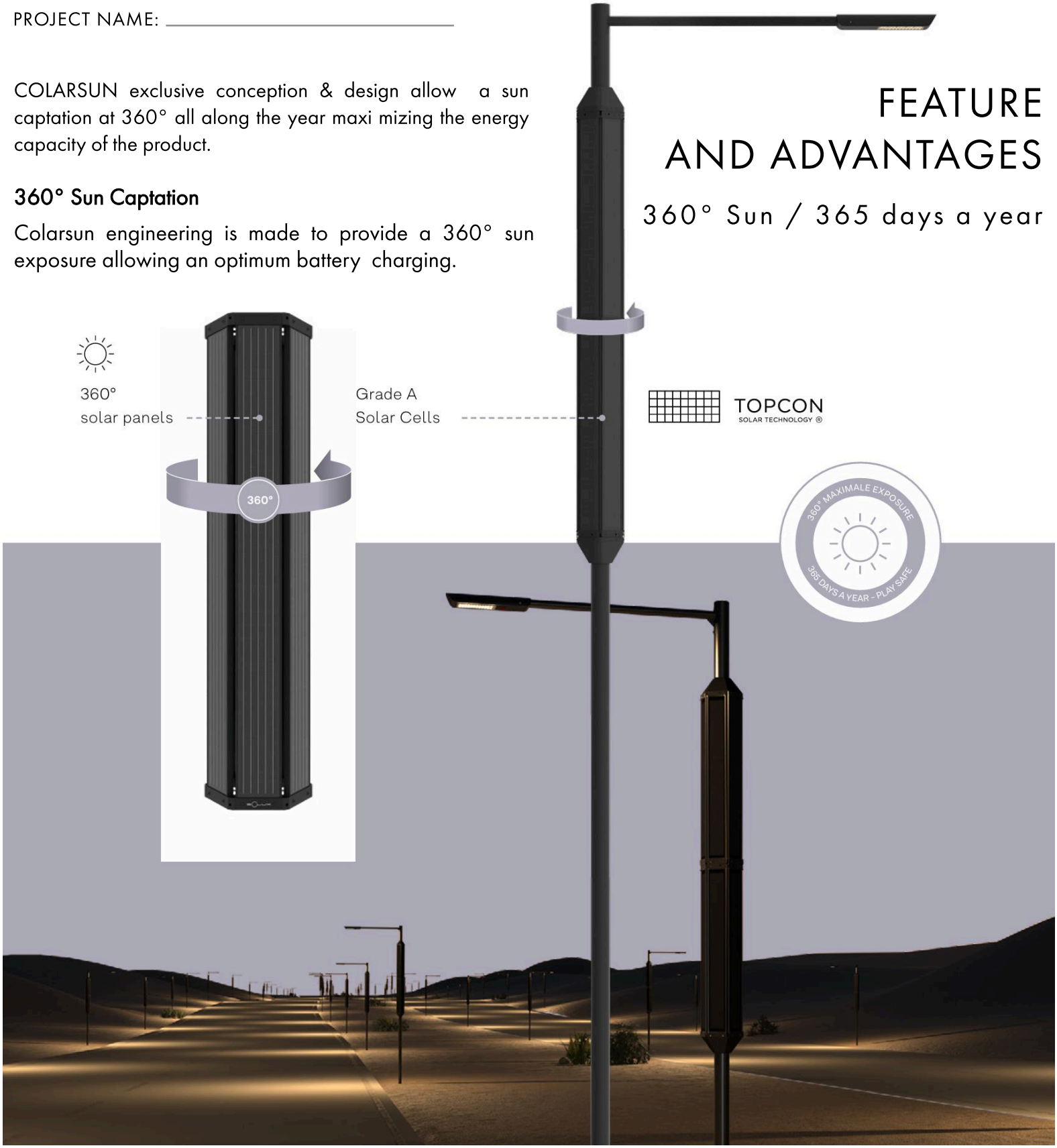
COLARSUN exclusive conception & design allow a sun captation at 360° all along the year maxi mizing the energy capacity of the product.

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



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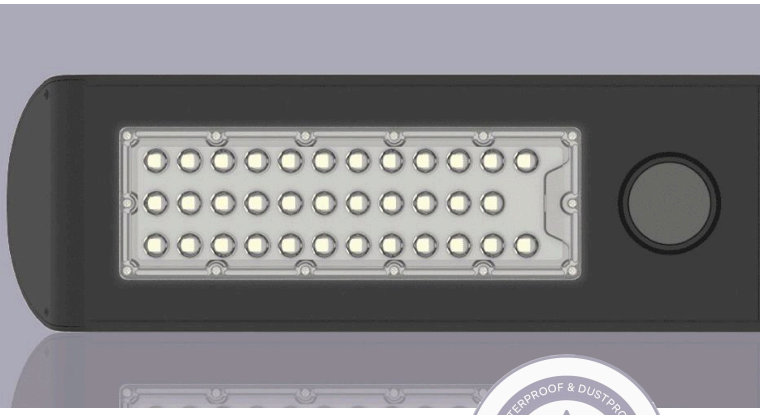
PROJECT NAME: _____

LUMINAIRES HOUSING & LEDS

11760 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%.



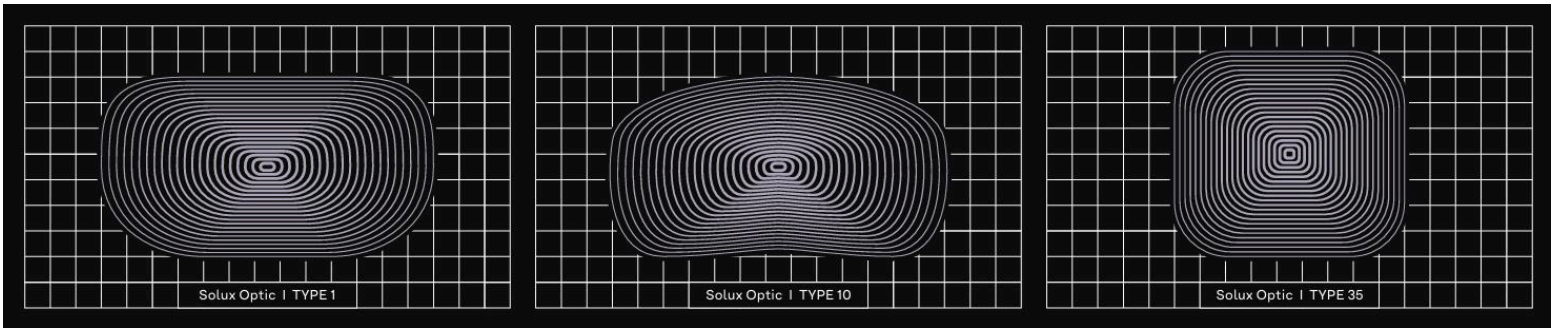
Led : 3030 I Led Q. (Pcs) : 72 I Optics: 1 I CRI > 80

LUXEON BY PHILIPS LUMILED

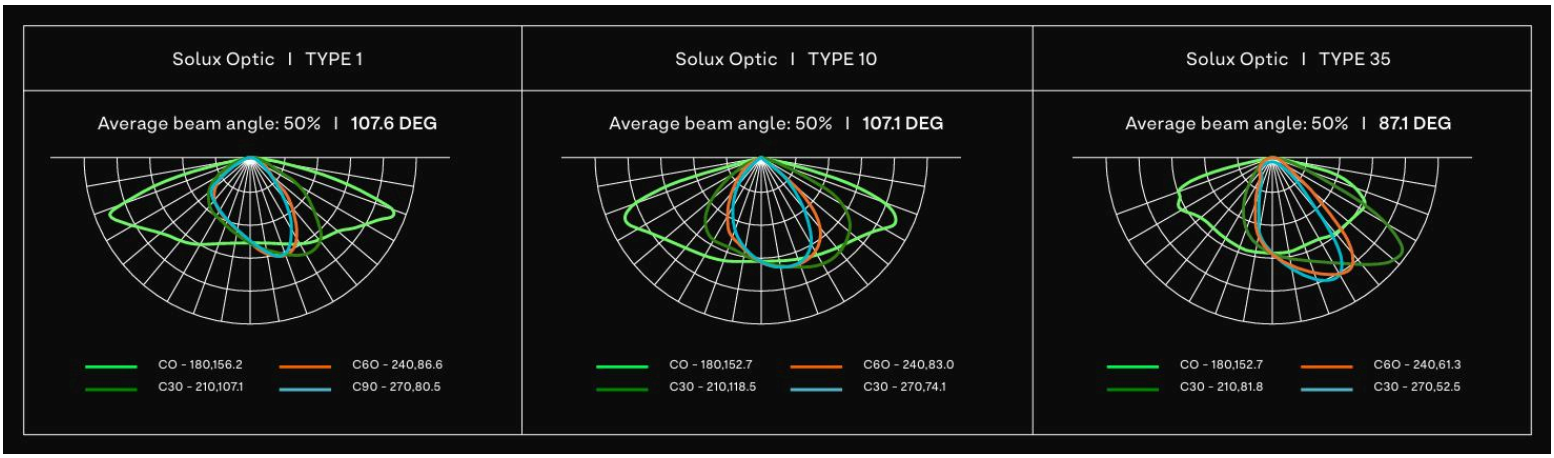
WATERPROOF & DUSTPROOF IP66 PROTECTED 365 DAYS A YEAR

DIFFERENTS OPTICS AVAILABLE

our different optics will allow you to optimize the lighting results of your projects. (please contact us for more optics)



LIGHT DISTRIBUTION CURVES



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PROJECT NAME: _____

BATTERY LIFEPO4 Made to last

Aluminium waterproof casing & Natural Airflow

The COLARSUN series is equiped with Iron Phos phate 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 I ANTI THEFT SCREW



COMPARISON OF DIFFERENT BATTERY TECHNOLOGIES



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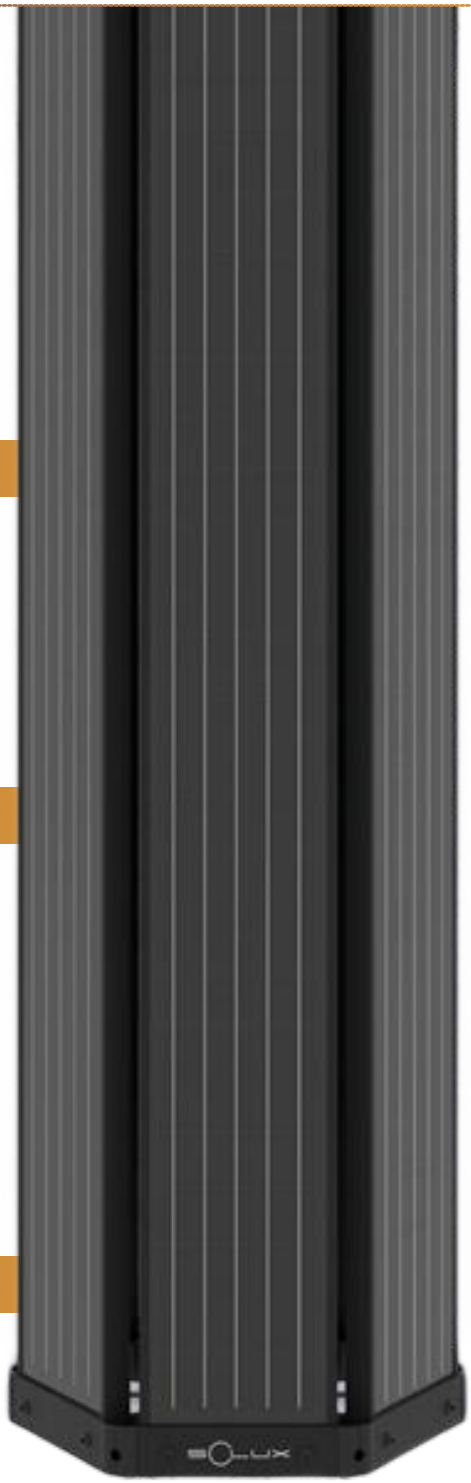
FIXTURE TYPE: _____

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

Conventional Panel -40 %

Topcon Panel -6 %

MPPT CONTROLLER

Waterproof connectors I Performance & reliability I 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 Control ler and MEAN WELL Driver.

HYBRID

Hybrid system

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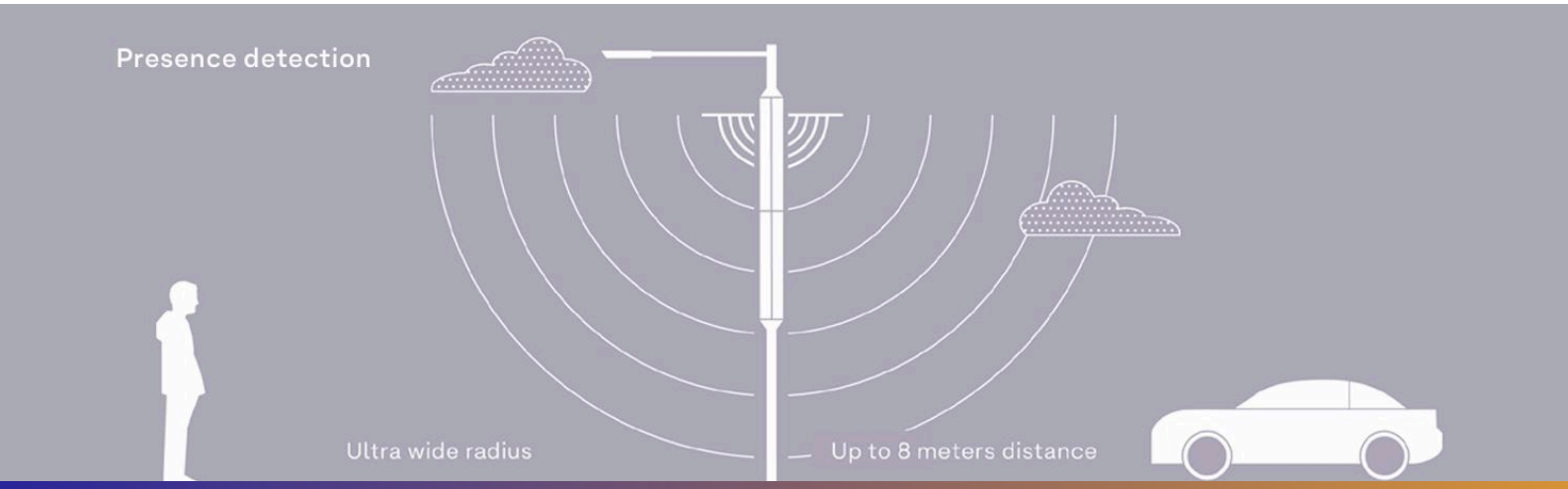
MICROWAVE SENSOR

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:

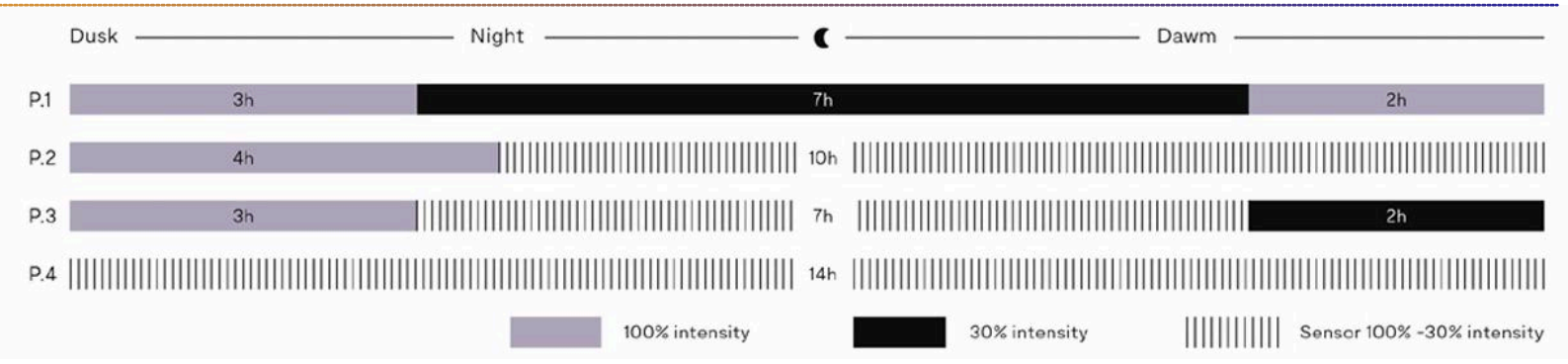
- Much better reliability compared to the Infrared detector
- Up to 360° Directivity
- Insensitivity to other environmental variations such as light, color, temperature, etc.





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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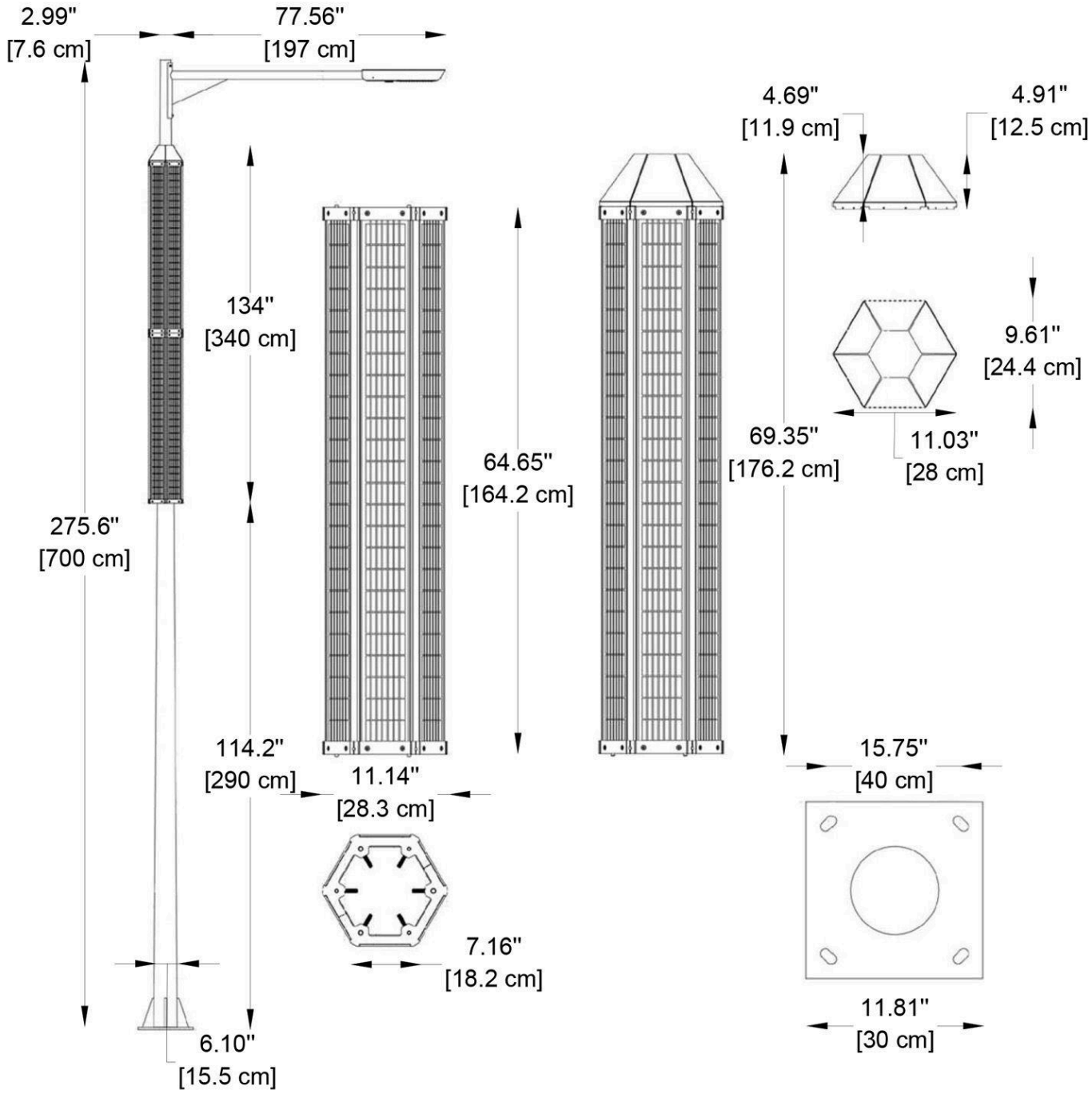
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Technical drawing
Colarsun 60

Product Dimensions



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