



electric Skyline™

LIGHT YEARS AHEAD



ALL-IN-ONE
standalone design



55W
10,285lm



DEFENDER
ALL IN ONE SOLAR SERIES

**SOLAR STREET LIGHTING
BUILT FOR IRISH CONDITIONS**



ALL-IN-ONE
standalone design



55W
10,285lm



DEFENDER
ALL IN ONE SOLAR SERIES

SOLAR STREET LIGHTING
BUILT FOR HARSH CONDITIONS

DEFENDER-55 ALL IN ONE SOLAR LIGHT

SPECIFICATIONS

MODEL BFS-DEFENDER-55

OPERATING PROFILE

Standard operating mode is - Configurable - Unit has programmable parameters ranging from 374lm to 10,285lm NOTE: Various program and TIMER settings for ON/ OFF/ DIM are available upon request.

LED

Type	Class XP-G3 / EPCOS
Watts (Light Output)	55W (Max)
Lumen	10,285lm
Rotatable LED Angle	-40° - +40°
Lens Type	LEDL T3 (Default / T2 - T5 optional)
CCT (Colour Temperature)	4000K (Standard) / 3000K (Optional)
PIR Sensor Type	TWIN (2x) Passive PIR Sensors (L&R Mount)
PIR Detection Range	<15m / <40° detection zone Activates for 30 sec.

BATTERY

Autonomy	102 hours (up to 8.5 nights)*
Battery Capacity	12.8v / 24Ah / 307.2Wh
Battery Type	LiFePO ₄ with passive cell balancing technology
DC Charging Port	Standard

SOLAR PANEL

Watts (p) / Type	32W Monocrystalline
Efficiency	21%

UNIT

Material	6063-T6 Aluminium Alloy (Black)
Pole Mount Spigot Adapter	Ø3 - 4mm / 2-3/8" Thread
Mounting Angle	Adjustable - 90° - +90°
Self Area / EPA	0.23m ² / 0.55ft ²
Product Dimensions	711L x 386W x 47H mm / 27.99" L x 15.19" W x 1.85" H
Product Weight	14 kg / 30.86 lb
Package Dimensions	725 x 475 x 170 mm / 28.5" L x 18.70" W x 6.69" H
Package Weight	<17kg / 15.43 lb

ENVIRONMENTAL

Operating Temp. Range	-20°C - 60°C / -4°F - 140°F
IP Rating	IP-65

WARRANTY

Warranty Period	5 years warranty (complete)
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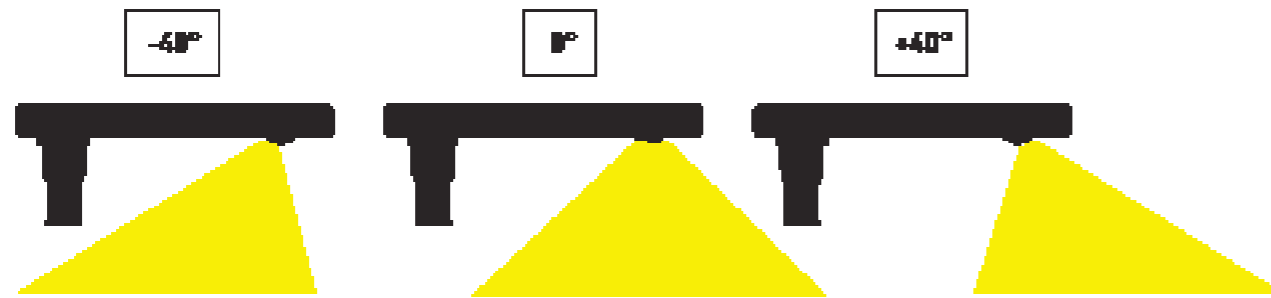
OPTIONS

IoT SAM Enabling	Smart City Connection / Antenna Kit
Additional 32W solar panel	Connectable via DC Charging port
Direct Bury HD Galvanized Pole	6m / 20ft total height - 2 sections, powder coated black 60mm / 2-3/8" spigot
Hinge Pole	6m / 20ft total height - 2 sections, powder coated black 60mm / 2-3/8" spigot - Hinged at Base
Spigot adapter	76mm / 3" Ø
3000K CCT Conversion	Custom modification available - Please Enquire

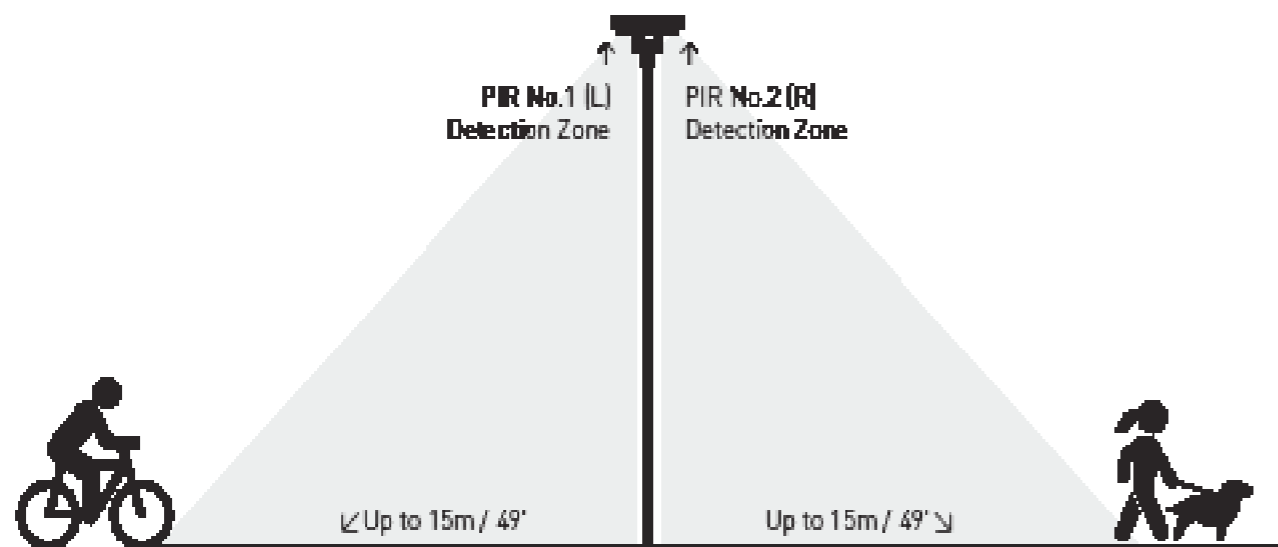
*Based on standard field test data

DEFENDER-55 ALL IN ONE SOLAR LIGHT

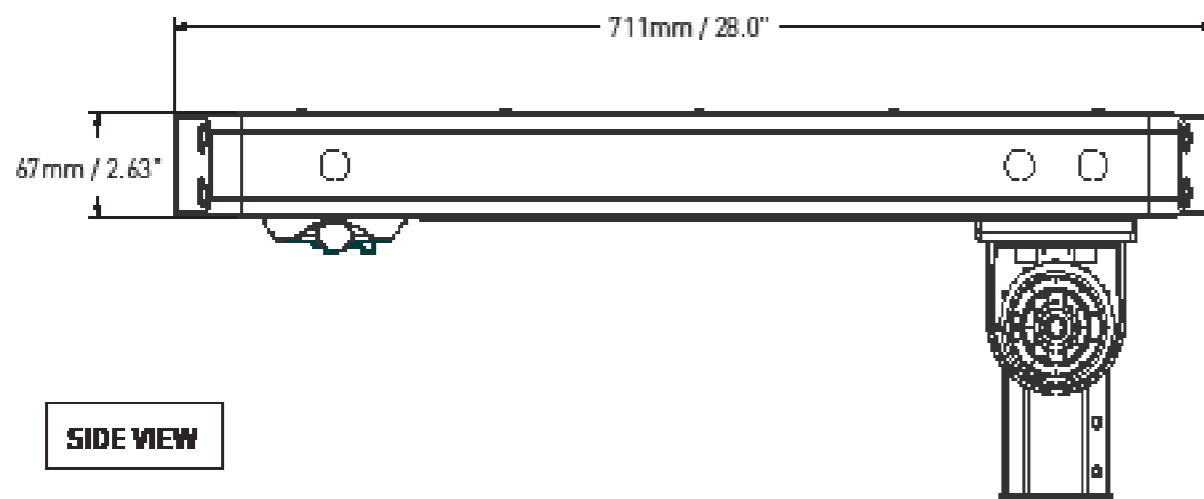
ADJUSTABLE LED - ROTATION ANGLES



PIR FUNCTION - TWIN DETECTION ZONE



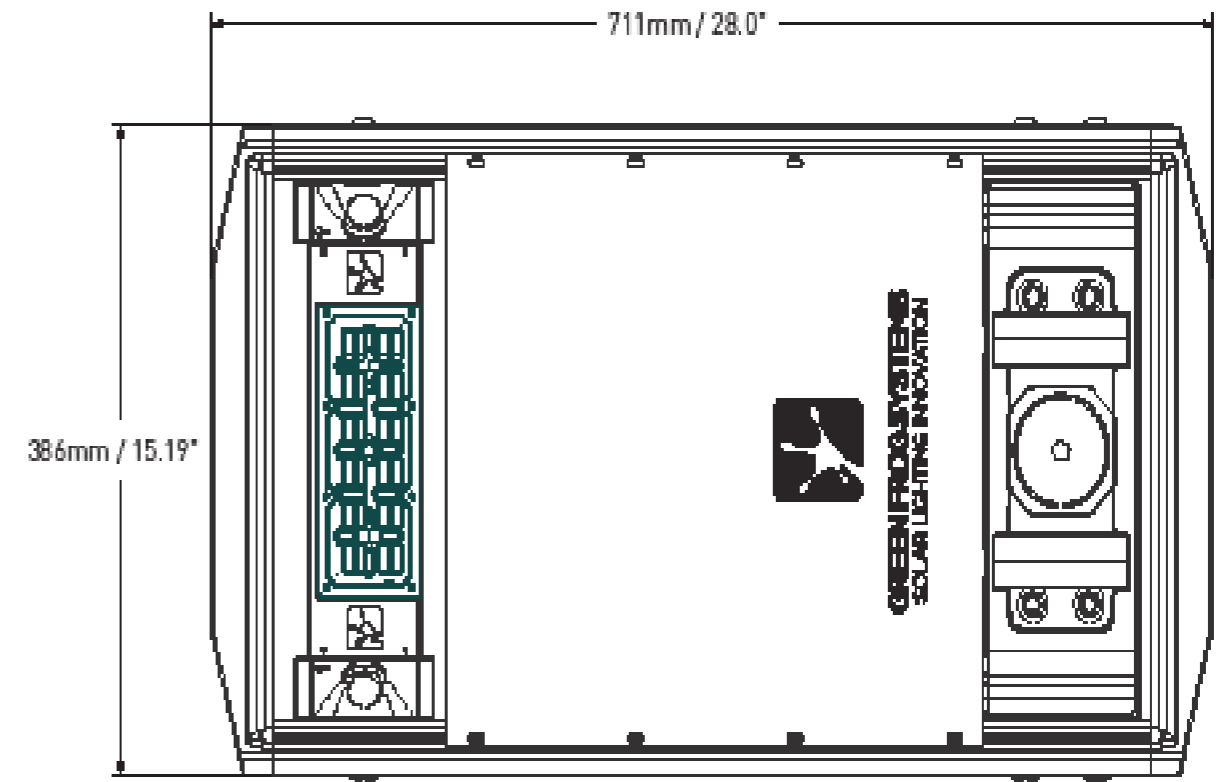
PRODUCT DIMENSIONS



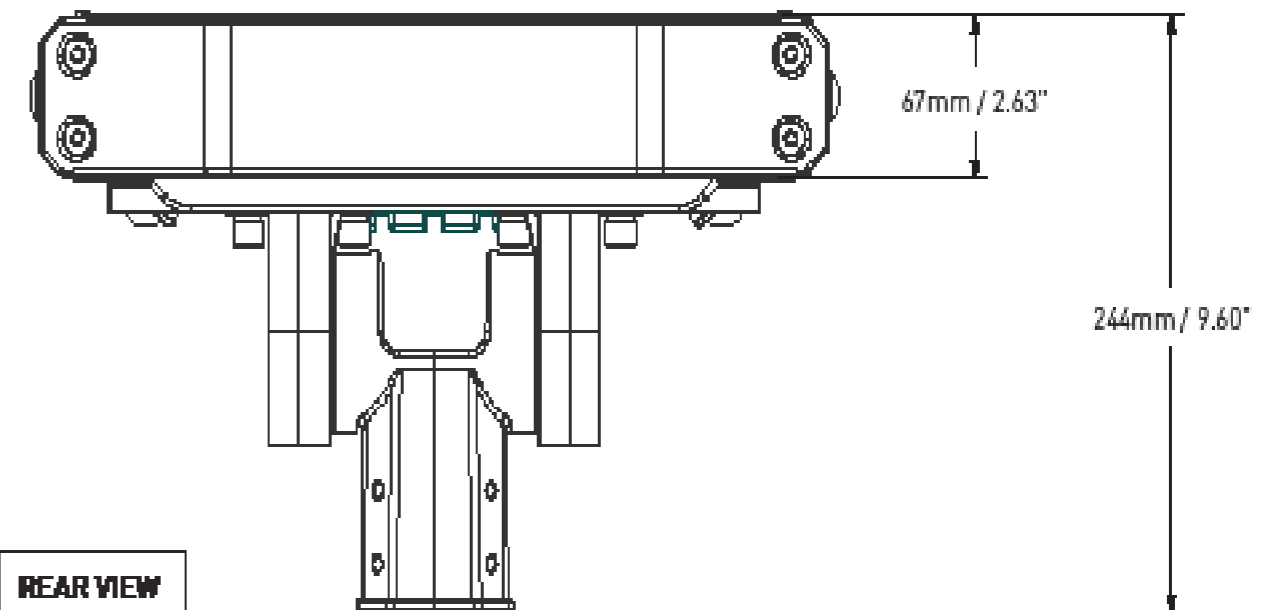
SIDE VIEW

DEFENDER-55 ALL IN ONE SOLAR LIGHT

PRODUCT DIMENSIONS



BOTTOM VIEW



REAR VIEW



DEFENDER LANTERN FAQ'S

ARE THEY A REPLACEMENT FOR TRADITIONAL STREET LIGHTING?

The defender Solar Lantern Range are intended for non-critical applications i.e. non-critical roadways – they are not a direct replacement for standard street lighting where its required.

COULD I USE THEM IN A HOUSING ESTATE OR ON MY COMMERCIAL PROPERTY?

It would depend on your requirements - they are not suitable for housing estates or commercial properties where a constant lighting level is required from dusk until dawn. We do however, have other solar solutions available for critical applications.

WHATS THEIR IDEAL APPLICATION?

They are ideal for greenways, cycle tracks, walkways, access roads, parks, play areas, bottle banks, remote locations, places without mains power - Almost anywhere there is low traffic volume and low pedestrian usage at times.

HOW IS IT ACTIVATED?

The lantern is activated through voltage monitoring of the panel - When the voltage drops below 5v the lantern switches on but these and other settings like activation distance and light levels can all be adjusted via the software included with the lights.

WHATS THE OUTPUT?

As stated these are all adjustable but a typical example would be after the lantern switches on @dusk its light output is at 80% for the first 3 hrs and then drops to 25% light output until dawn. If the PIR on the lantern is triggered the lantern switches on to 100% for 30 secs.

WHATS THE LIMITATIONS IN IRELAND?

The defender is designed to maximise the energy available, in climates like Ireland's. In Ireland in the middle of winter when the daylight harvesting potential is at its minimum the lantern will switch off to protect the battery, however if required the harvesting potential can be increased by the addition of an external solar panel which will increase the lantern light output to 6 hrs per day.



WHAT IS THE LEAD TIME FOR DEFENDER LANTERNS?

Supply Lead Time for Defender Solar Lanterns is 6 weeks.

IS THERE A WARRANTY ON THE DEFENDER?

Yes the defender has a 5 year warranty.

CAN I SEE THE LIGHTS IN ACTION?

Yes of course - Contact us today and we will be happy to refer to you to the nearest installation to you.

HOW CAN I ORDER?

Phone Electric Skyline on 094 9360954 or email us at solarlighting@electricskyline.ie and we will be happy to quote for your project or answer any questions or queries.

