LED | LIGHTING
PRODUCT CATALOGUE

STREET & AREA LIGHTING.
FLOOD & AREA LIGHTING.
LINEAR LIGHTING.
TROFFER LIGHTING.

Maxgreen™
LED LIGHTING

PUSHING THE BOUNDARIES OF LED LIGHTING TECHNOLOGY

MAXIMUM EFFICIENCY.
MAXIMUM RELIABILITY.
MAXGREEN.

When we began work on Maxgreen LED, we considered every element that affects the efficiency of the lamp — heat sinks, power supplies, housing materials, lenses and LED substrates. Then we challenged ourselves to find the best, most efficient way possible to engineer each one of them.

Maxgreen provides a range of advanced LED area, street, flood, linear and troffer lighting products, that can be used in a variety of outdoor and indoor environments, offering high levels of customisation for incredibly low cost.

Maxgreen lighting solutions are engineered to the highest global standards to provide reliable, efficient products using patented technologies, innovative designs and recyclable materials. Our team of designers and engineers work on the premise that versatility, reliability and lifetime cost are the most important factors for industrial and commercial grade lighting.

REVOLUTIONARY.
NOT EVOLUTIONARY.

Global population growth and urbanisation are driving concerns over resource scarcity and climate change. Governments, corporations and individuals around the world are responding to this with greater concern and regulation towards energy efficiency.

LED lighting, the fourth lighting technology in human history, is set to transform the world. Research firm Mckinsey and Co. estimates that 60 percent of all lighting will be powered by LED by 2020.

LED lighting is very different from traditional lighting technologies that use electrical filaments or plasma with bulky glass covers. It allows for new form factors and requires little to no maintenance.
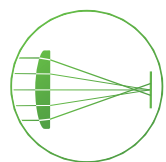
The LED revolution is lighting the way for global change – making a brighter, more efficient world.

1879	1904	1924	2006
First Generation	Second Generation	Third Generation	Forth Generation

INTELLIGENCE MADE VISIBLE.

ADVANCED FEATURES. INTELLIGENT CONTROLS.

PRECISE OPTICS
Maxgreen optics are developed to improve light direction and reduce light spill.

VIBRATION & IMPACT RESISTANT
Tested to ISO Standard to withstand intense vibration and impact.

UNIFIED THERMAL CROWN
Maxgreen's Unified Thermal Crown provides superior thermal management which means a longer life and better efficiency.

FIVE YEAR WARRANTY
All products are covered by Maxgreen's comprehensive five year warranty.

HIGH TRANSMISSION
Maxgreen proprietary optics allow 98.8% of light to pass, resulting in up to 15% increase in efficiency.

REDUCED MAINTENANCE
Maxgreen Lamps are engineered specifically to minimise maintenance.

AIRCRAFT GRADE
Maxgreen lamps are made of aircraft-grade T5 6063 aluminum which has 5x better heat transfer rates than steel.

ENVIRONMENT PROOF
Maxgreen products are rated to withstand total ingress of dust and temporary immersion in water.

FLICKER FREE
Maxgreen products provide a flicker-free solution free of stroboscopic effects.

FULLY RECYCLABLE
Maxgreen products are made from fully recyclable materials.

COOL OPERATION
Maxgreen uses advanced T-Junction thermal control to extend component life.

DESIGNED IN THE UK
Maxgreen products are designed with British ingenuity built-in.

MSL | RANGE

S T R E E T   A N D   A R E A   L I G H T I N G

MaxGreen Street and area lighting solutions provide a range of ultra efficient LED street and area lighting that can be used in any outdoor environment, offering high levels of customisation for incredibly low cost. The MSL Range incorporates a modular construction, intelligence capabilities, fused silica optics and the MaxAdjust™ universal pole bracket for an intelligently designed, long-lasting street light.

MSL | APPLICATIONS

· Highways and Roads
· Tunnels and Passageways
· Residential Streets and Drives

· Parks
· Recreation Areas
· Foot and Bike Paths

· Car Parks
· Parking Lots
· Campuses

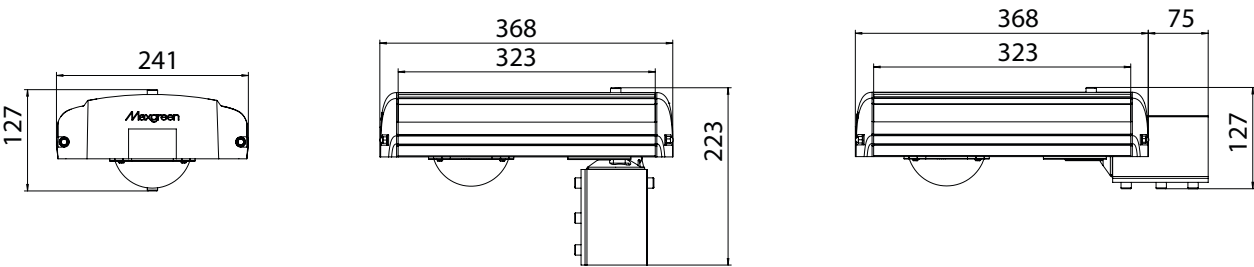· Train and Bus Stations
· Airports
· Outdoor Venues

· Tennis Courts
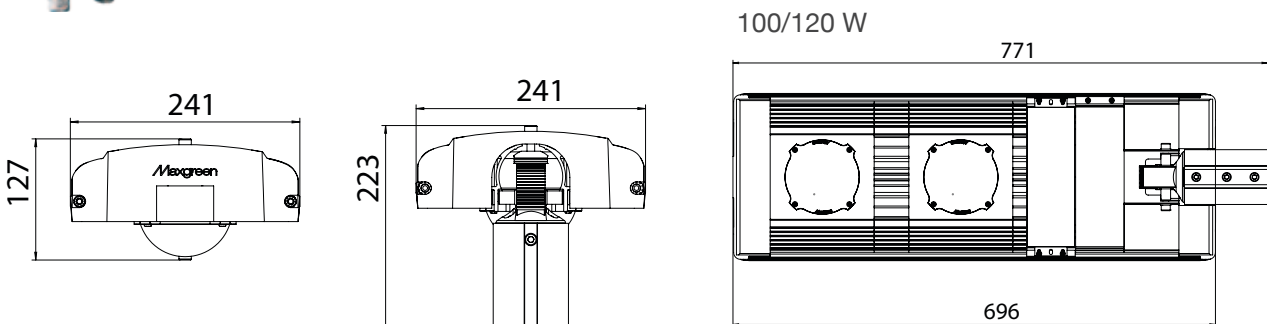· Football Pitches
· Golf Courses

MSL│1

SPECIFICATION


```
        368
        323
241  ┌─────────┐
┌──┐ │         │ 223
│  │127       
└──┘ └─────────┘
```

```
   368      75
   323
┌─────────┐
│         │ 127
└─────────┘
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MSL│2

SPECIFICATION


```
   241
┌───────┐
│       │127
└───────┘
```

```
   241
┌───────┐
│       │223
└───────┘
```

100/120 W

```
        771
┌──────────────────┐
│                  │
└──────────────────┘
        696
```

TECHNICAL SPECIFICATIONS

Colour Temp. (Cct)	5200k
Colour Rendering Index (Cri)	>70
Voltage Range	90 ~ 305VAC
Control Ports	NEMA COMPATIBLE
Working Temp.	-40°c ± 60°c
Working Humidity	0 ~ 95%
Power Factor (PF)	PF>0.98/115 VAC, PF>0.95/230 VAC, PF>0.92/277 VAC
PFC	Active PFC built-in
IP Rating	IP67
Rated Life	100,000hr (LM80)
Housing	6063 T-5 Aluminum
Lens	Fused Silica

MSL│1	30	50	60	70
Wattage (W)	30	50	60	70
Total Lumen	3,275	5,400	6,192	8,485
Efficiency (lm/W)	110	108	103	122
Weight (kg)	4.85	4.89	4.89	6.86

MSL│2	100	120
Wattage (W)	101	117
Total Lumen	10,394	12,156
Efficiency (lm/W)	104	101
Weight (kg)	9.5	9.5

EASY | INSTALLATION

LIGHTWEIGHT

One technician. Three steps. Quick and easy.
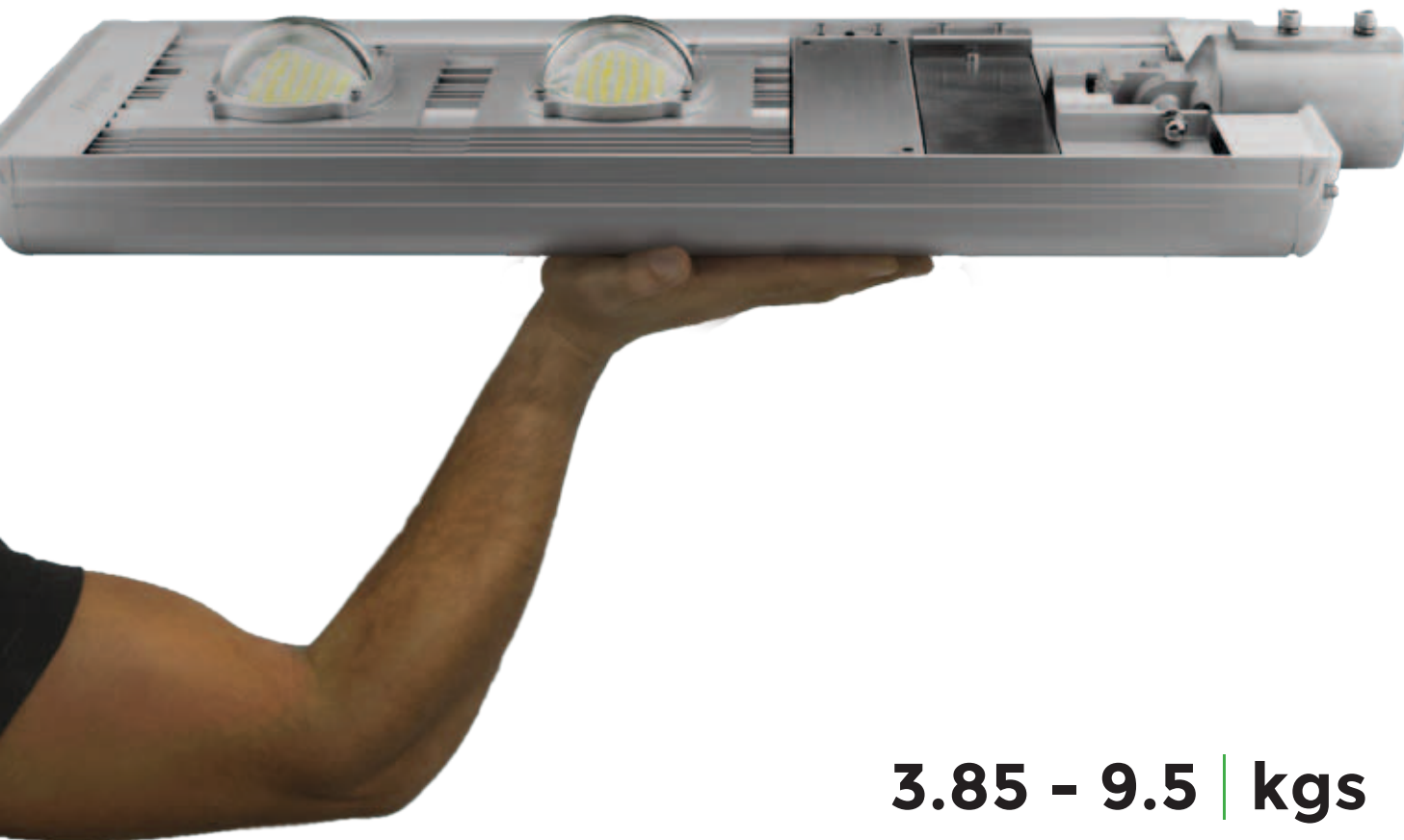
1 ── **2** ── **3**

1 WIRE LAMP INTO POWER SOURCE.

2 MOUNT ON POLE AND POSITION.

3 TIGHTEN SECURITY HARDWARE.

3.85 - 9.5 | kgs
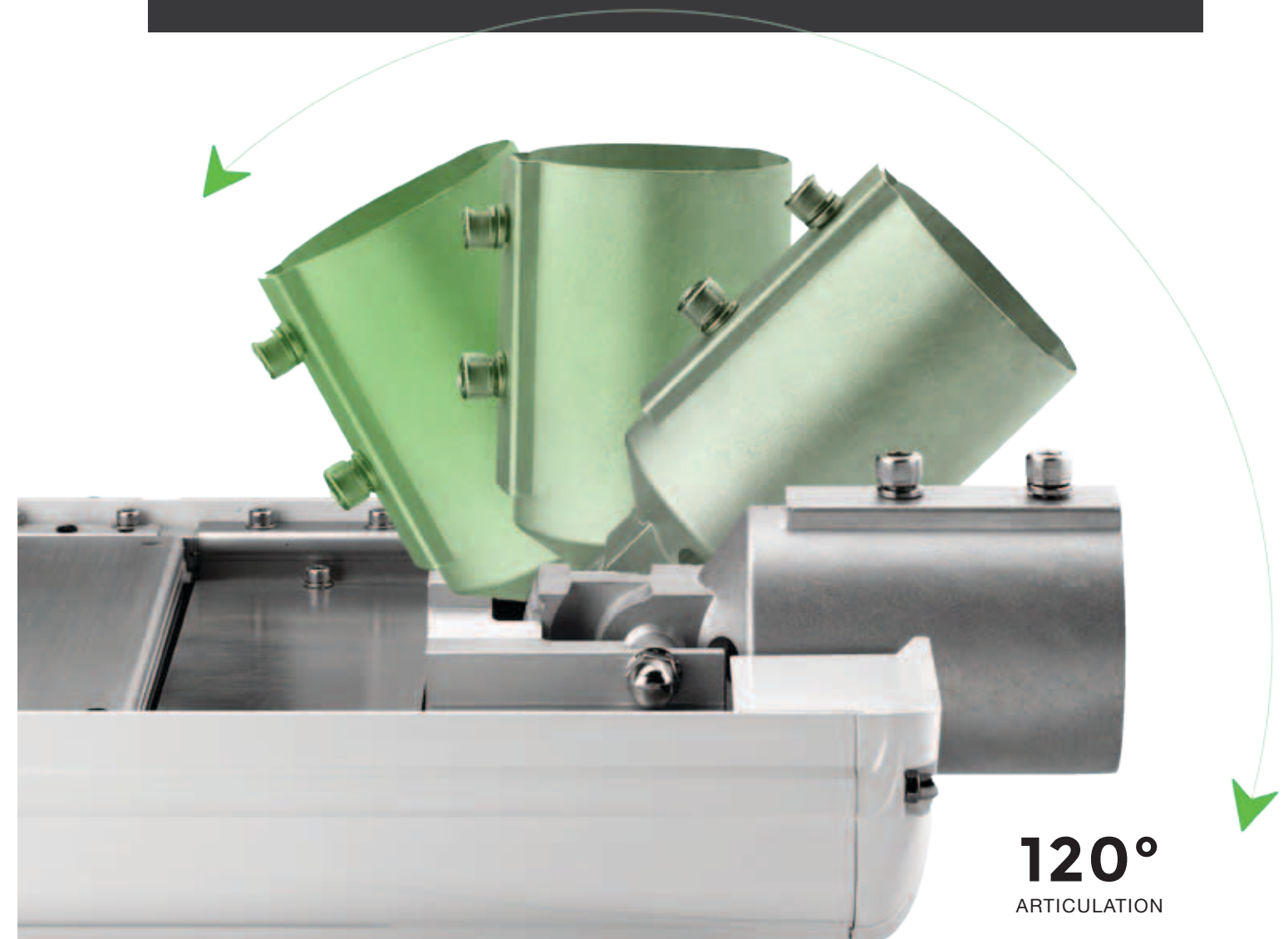
MAXADJUST™ POLE BRACKET

MaxAdjust™ bracket systems make installation easy. Designed to minimise the number of steps for lamp installation, the Maxadjust™ pole bracket reduces both the time and number of technicians needed to install Maxgreen LED lights.

· 120° of articulation, 6° intervals
· Stainless steel mounting hardware
· Universal fit for any pole

We also offer a Fixed Pole Bracket

· Fixed position
· Stainless steel mounting hardware
· Universal fit for any pole

MaxAdjust™ is an available option on all MSL Range products.

120°
ARTICULATION

MFL | RANGE

FLOOD AND AREA LIGHTING

Maxgreen flood and area lighting solutions provide exceptional illumination for a variety of industrial, recreational and mobile applications. The SlimRail™ bracket has a low profile and is easy to adjust with 360° rotation for optimal light direction. The robust MFL lamps can withstand extreme environments and are impact resistant. High build quality, military grade components and advanced thermal engineering ensure a long life and high lumen maintenance.
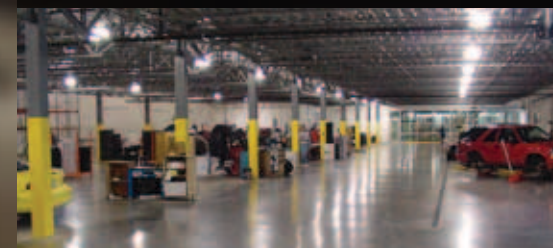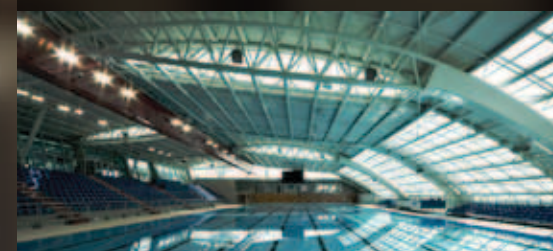

Maxgreen

MFL | APPLICATIONS

· Architectural
· Urban Outdoor
· Residential Outdoor

· Industrial
· Oil and Gas Rigs
· Processing Facilities

· Warehouses
· Factories
· High Bay Applications

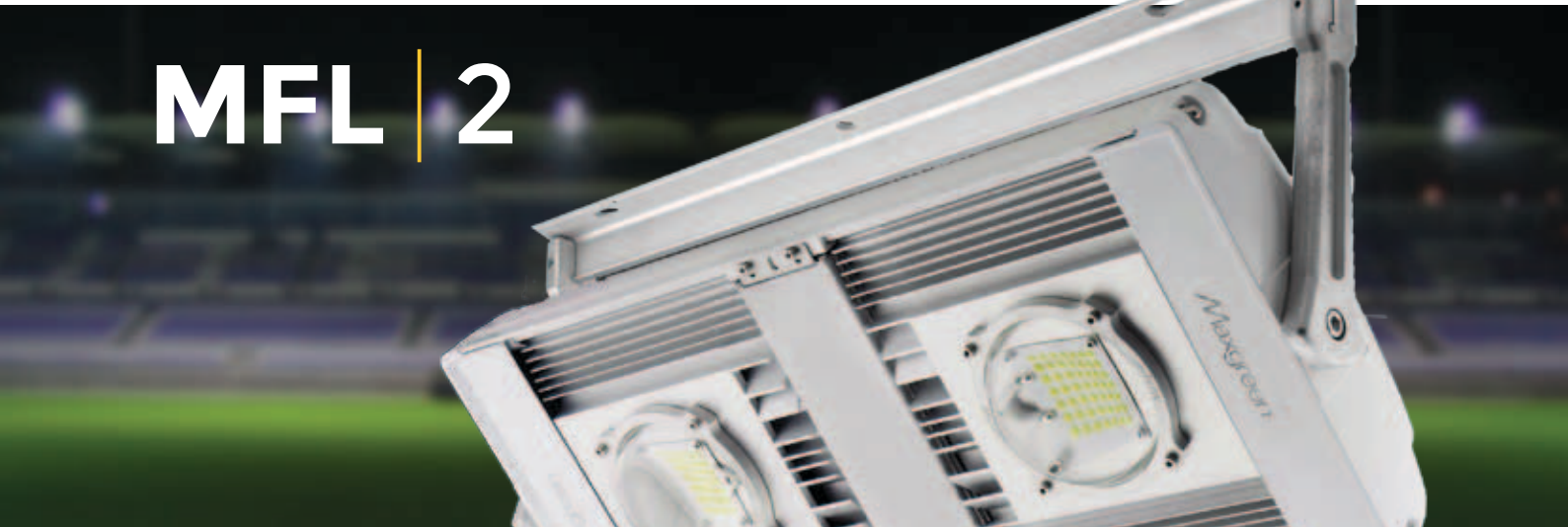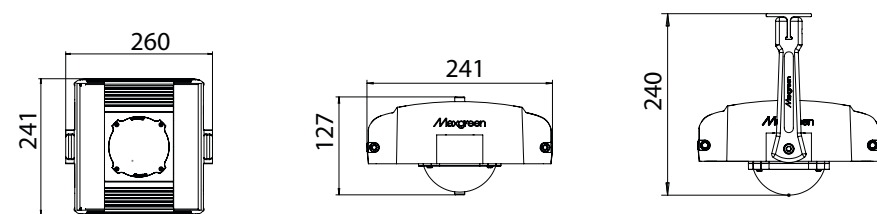

· Swimming Pools
· Sports Arenas
· Recreation Centres

· Railway Stations
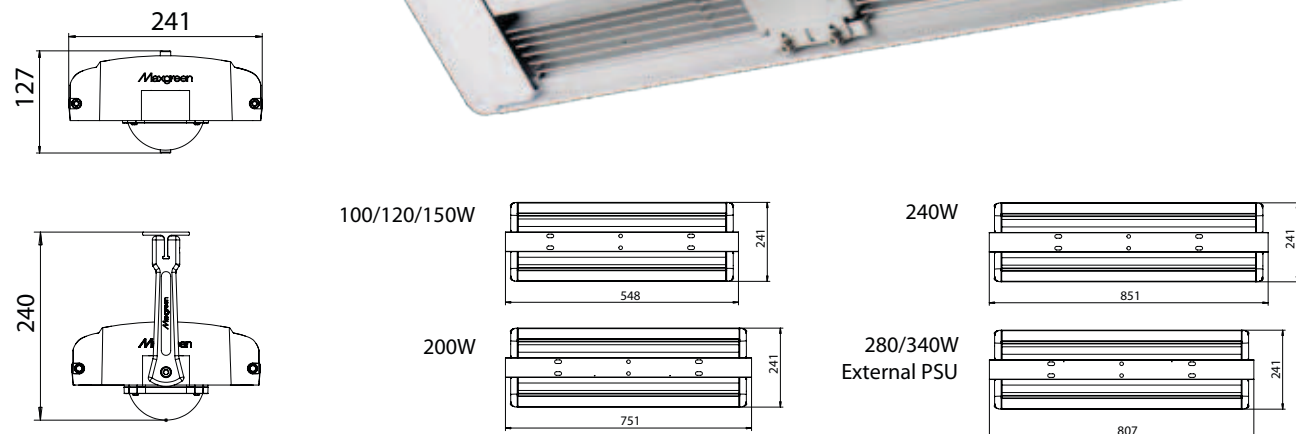· Airports
· Harbours and Ports

MFL | 1

Dimensions (MFL 1)

260
241
241
127
240

TECHNICAL SPECIFICATIONS

Colour Temp. (Cct)	5200k (other Cct available)
Colour Rendering Index (Cri)	>70
Voltage Range	90 ~ 305VAC
Frequency Range	<.75mA / 240V
Control Ports	NEMA COMPATIBLE
Working Temp.	-40°c ± 60°c
Working Humidity	0 ~ 95%
Power Factor (PF)	PF>0.98/115 VAC, PF>0.95/230 VAC, PF>0.92/277 VAC
PFC	Active PFC built-in
IP Rating	IP67
Rated Life	100,000hr (LM80)
Housing	6063 T-5 Aluminum
Lens	Fused Silica

MFL | 2

241
127
240

100/120/150W
548
241

200W
751
241

240W
851
241

280/340W
External PSU
807
241

MFL | 1	30	50	60	70
Wattage (W)	30	50	60	70
Total Lumen	3,275	5,458	6,540	8,091
Efficiency (lm/W)	109	109	109	101
Weight (kg)	3.6	3.6	3.6	5.8

MFL | 2	100	120	150	200	240	280	340
Input Wattage (W)	101	117	150	200	240	280	340
Total Lumen	11,110	11,934	14,700	22,000	21,368	24,000	27,000
Efficiency (lm/W)	110	102	98	110	89	86	79
Weight (kg)	8.2	8.2	8.6	12.3	12.3	15.4	15.4

MaxAdjust™ | SlimRail™

360°
ROTATION

Standard on all MFL Range products.
Flush mount SlimRail bracket also available.

LIGHT | WEIGHT

E A S Y   I N S T A L L A T I O N

One technician. Three steps. Quick and easy.

1   **2**   **3**

MOUNT
SlimRail™
ONTO
MOUNTING
SURFACE.

SLIDE
BRACKETS
AND LAMP
ONTO SlimRail.™

TIGHTEN
SECURITY
HARDWARE.
ADJUST LAMP
POSITION.

SlimRail™

Safety Bolt

Bracket Arm

Angle Adjustment

3.55 - 15.4 | kgs

BESPOKE SMART | LIGHTING

INTELLIGENT. LIGHTWEIGHT. RELIABLE.

BESPOKE LIGHTING

At Maxgreen we can make a light for any application. Our MaxModular™ design philosophy is the foundation for building innovative, functional and reliable products.

MaxModular™ design focuses on maximising function and value with the simplest approach possible. Our engineers are always working to improve our range of products but if you have a specific requirement we are happy to fill it. From custom light distributions designed into the lens to specific electrical requirements, and even colours and finishes. Maxgreen Bespoke Lighting guarantees an efficient lighting solution for any application.

COLOUR | TEMPERATURE

Maxgreen LED lighting uses advanced LED packages that can be configured in a range of colour temperatures. You can order any Maxgreen lamp with either warm, neutral or cool tone LEDs increasing the versatility of the Maxgreen range of products.

CLASSIC Like HPS	WARM Like Tungsten	DAY WHITE Like Sun Light	COOL Crisp White
2400° Kelvin	3200° Kelvin	4000° Kelvin	5500° Kelvin

LENS | OPTIONS

HIGH TRANSMISSION. EXCELLENT DURABILITY.

Maxgreen lenses are made of colourless, silica glass that combines a very low thermal expansion coefficient with excellent optical qualities and an exceptional 98.8% light transmission.

Our lenses are made using high purity synthetic amorphous silicon dioxide (SiO2) that is resistant to yellowing, fogging and abrasion.

Using computer engineering and light dispersion algorithms, Maxgreen lenses are designed with uniform light patterns, reduced internal refraction and precise light direction.

Lens Type	Beam Spread	Lighting Plot Example
Batwing Lens Max beam angle: 140°x60° Average Beam angle 149.6° Transmittance 98.8% Refraction index 1.4585		
120° Lens Max beam angle: 120° Average Beam angle 100° Transmittance 98.8% Refraction index 1.4585		
60° Lens Max beam angle: 90° Average Beam angle 87° Transmittance 98.8% Refraction index 1.4585		
Frosted 120° Lens Max beam angle: 180° Average Beam angle 87° Transmittance 91.3% Refraction index 1.5183		
Flat Glass Lens Max beam angle: 180° Average Beam angle 87° Transmittance 91.3% Refraction index 1.5183		

V | SERIES

L I N E A R   L I G H T I N G

Maxgreen V Series linear lighting is the energy efficient solution to legacy fluorescent lighting technologies like fluorescent - upgrading your linear lighting can save upwards of 40 percent in annual energy usage.

VXL lamps provide a cost effective solution with a swappable LED driver, ideal for applications requiring integration to existing intelligence solutions. VDL lamps offer a direct connection to mains power sources for enhanced lifespan, providing more than a decade of efficient, maintenance-free illumination.
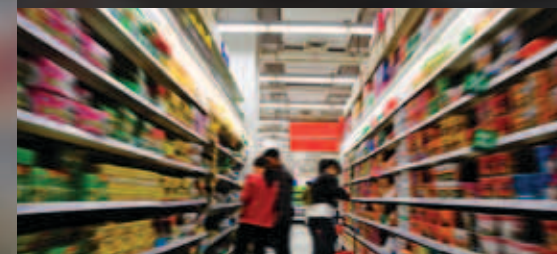
V | APPLICATIONS
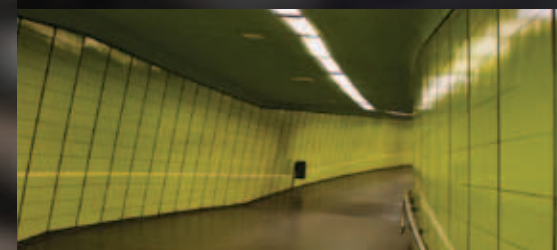

· Basements
· Garages
· Sheds

· Storage Facilities
· Workshops
· Light Industrial

· Supermarkets
· Offices
· Catering

· Bus Shelters
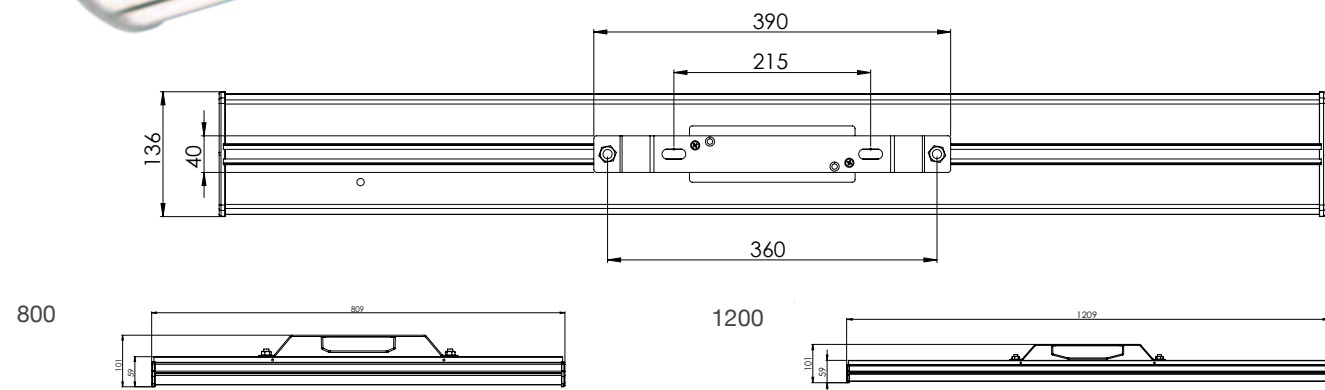· Petrol Stations
· Railway Stations
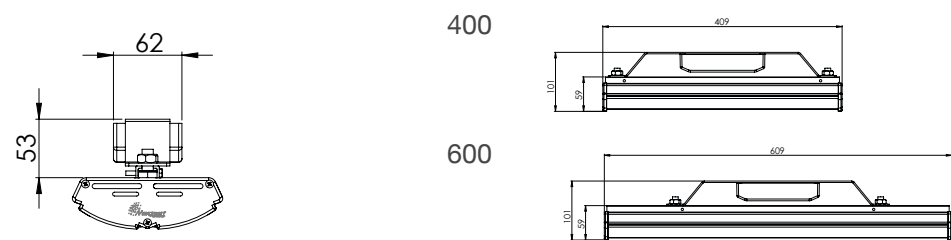

· Walkways
· Subways
· Foot Bridges

Maxgreen

V | XL

Technical drawings with dimensions: 390, 215, 136, 40, 360, 800, 1200

TECHNICAL SPECIFICATIONS

Colour Temp. (Cct)	2700-8200k
Colour Rendering Index (Cri)	>74
Voltage Range	90 ~ 305VAC
Frequency Range	<.75мA / 240V
Working Temperature	-40°c ± 60°c
Working Humidity	0 ~ 95%
VXL Power Factor (PF)	PF>0.98/115 VAC, PF>0.95/230 VAC, PF>0.92/277 VAC
VDL Power Factor (PF)	PF>0.99.7/230 VAC
PFC	Active PFC

V | DL

Technical drawings with dimensions: 62, 53, 400, 600

V | XL

Wattage	Length (MM)	Lumen UP TO	Lm/W UP TO
22	400	2,594	118
	600	2,594	118
43	400	5,300	123
	600	5,300	123
48	800	4,417	92
	1,200	4,417	92
93	800	10,000	108
	1,200	10,000	108

V | DL

Wattage	Length (MM)	Lumen UP TO	Lm/W UP TO
18	400	1,689	97
	600	1,689	97
36	400	3,378	97
	600	3,378	97
	800	3,378	97
	1,200	3,378	97
72	800	6,757	97
	1,200	6,757	97

T | SERIES

T R O F F E R   L I G H T I N G

Maxgreen T Series troffer lighting is the energy efficient solution to legacy fluorescent tube troffer lighting technologies like fluorescent tube troffer lights - upgrading your troffer lighting can save upwards of 30 percent in annual energy usage.

TXL lamps provide a cost effective solution for direct fixture replacement, ideal for applications requiring integration to existing intelligence solutions. TDL lamps offer a direct connection to mains power sources for enhanced lifespan, providing more than a decade of efficient, maintenance-free illumination.
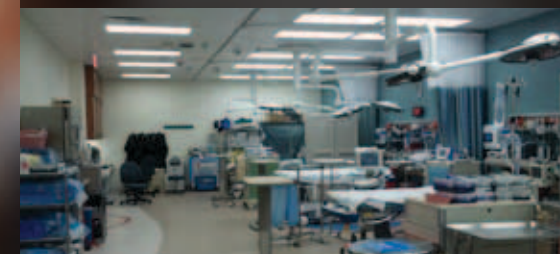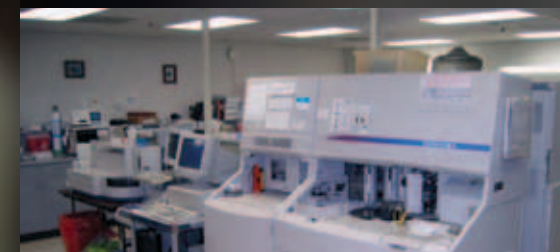
T | APPLICATIONS

· Offices
· Retail Outlets
· Conference Centres

· Classrooms
· Libraries
· Meeting Rooms

· Hospitals
· Clinics
· Pharmacies

· Laboratories
· Research Facilities
· Light Assembly

· Utility Rooms
· Plant Rooms
· Residentials

Maxgreen

T | XL

T | DL

TECHNICAL SPECIFICATIONS

Colour Temp. (Cct)	2700-4700k
Colour Rendering Index (Cri)	>74
Voltage Range	230 VAC
Frequency Range	<.75мA / 240V
Working Temperature	-40°c ± 60°c
Working Humidity	0 ~ 95%
TXL Power Factor (PF)	PF>0.98/115 VAC, PF>0.95/230 VAC, PF>0.92/277 VAC
TDL Power Factor (PF)	PF>0.99.7/230 VAC
PFC	Active PFC

T | XL

Wattage	Length (MM)	Lumen UP TO	Lm/W UP TO
22	400	2,594	118
	600	2,594	118
43	400	5,300	123
	600	5,300	123
48	800	4,417	92
	1,200	4,417	92
93	800	10,000	108
	1,200	10,000	108

T | DL

Wattage	Length (MM)	Lumen UP TO	Lm/W UP TO
18	400	1,689	97
	600	1,689	97
36	400	3,378	97
	600	3,378	97
	800	3,378	97
	1,200	3,378	97
72	800	6,757	97
	1,200	6,757	97

Maxgreen
LED LIGHTING

m a x g r e e n . c o m

g+   f   in