OPSUN PRO FLOODLIGHT

PROFESSIONAL SERIES FLOODLIGHT

UP TO
70%
ENERGY SAVING

UP TO
160-170LM/W
SYSTEM EFFICACY

LIFETIME OF
>50,000
HOURS TO L70

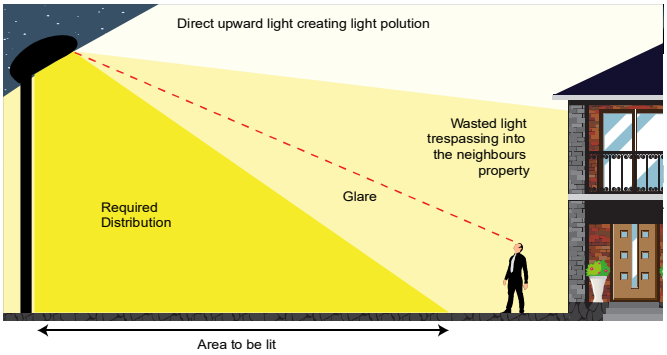
7 BEAM PROFILES | IP65 & IK10 RATED | AVAILABLE FROM 100W-600W | LUMILEDS CHIP, MEAN WELL DRIVER

MEET THE FAMILY

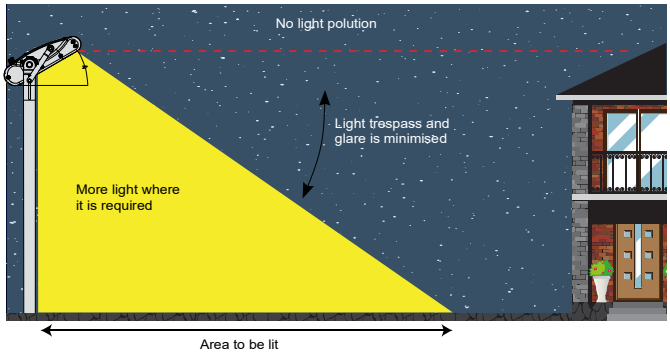
The OpSun Pro offers a large range of wattages giving you maximum flexibility when designing the smallest project to the largest. By using quality components we are able to achieve up to 160-170lm/W throughout the range topping out at a massive 102,000 lumens.

PUTTING THE LIGHT WHERE IT'S WANTED

The LED OpSun Pro Floodlight series uses our custom wide beam profile to put the light where it's wanted and not in your neighbour's property. By using an asymmetric 85°x135° beam profile we can take the wasted light that is normally produced by conventional floodlights and direct it where it's needed, giving you a higher illuminance while delivering excellent uniformity and minimising glare.



STANDARD FLOODLIGHT WITH WIDE SYMMETRICAL BEAM



OPSUN PRO FLOODLIGHT WITH ASYMMETRIC BEAM PROFILE (comes standard)

SUPERIOR COOLING PERFORMANCE

The OpSun Pro has been designed with cooling in mind. Our modular design allows for efficient cooling via convection through the structure's ventilation. The Mean Well driver is housed in a sperate chamber away from the critical LED components to ensure the complete system life is maximized.

BUILT TO LAST

To ensure the OpSun Pro will survive even the toughest of conditions we constructed it out of a low copper content aluminium alloy and coated it with a high performance pure epoxy-polyester anti-corrosion protective coating. For extra protection make sure you combine it with our 304/316 stainless steel bracket.

FL-OPSUN-PRO-100W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	16,000lm-17,000lm
LUMINAIRE EFFICACY	160-170lm/W
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well ELG-100-48A
SYSTEM WATTAGE	100W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<20%
INRUSH CURRENT	60A
DRIVER LIFETIME	>50,000hrs
CONNECTION	1.5m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

DESIGN / CONSTRUCTION

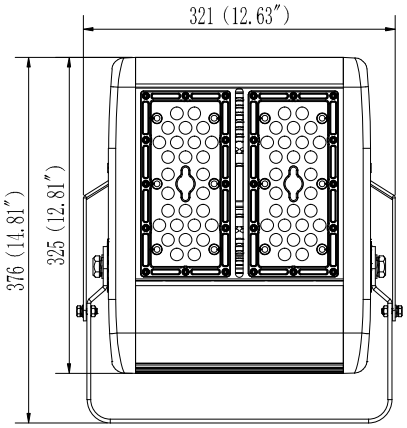
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Straight
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	6.0kg
CODE	LUX-FL-100H

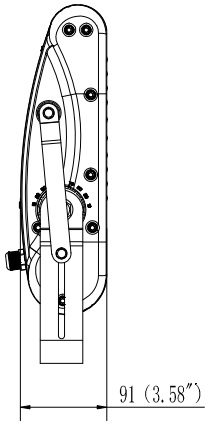
TECHNICAL DATA

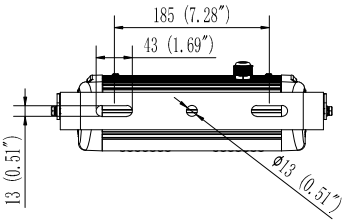
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-CE/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

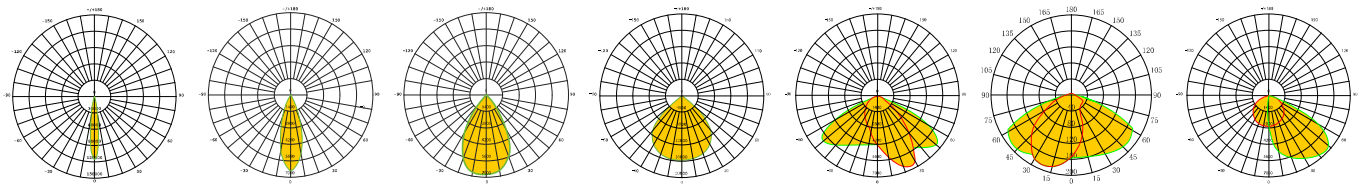
DIMENSIONS







PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

FL-OPSUN-PRO-150W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE LUMEN	Lumileds 5050
OUTPUT LUMINAIRE	24,000lm-25,500lm
EFFICACY LIFETIME @L80	160-170lm/W
(TM-21) LIFETIME @L90	67,000hrs
(TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well ELG-150-48A
SYSTEM WATTAGE	150W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<20%
INRUSH CURRENT	65A
DRIVER LIFETIME	>50,000hrs
CONNECTION	1.5m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

DESIGN / CONSTRUCTION

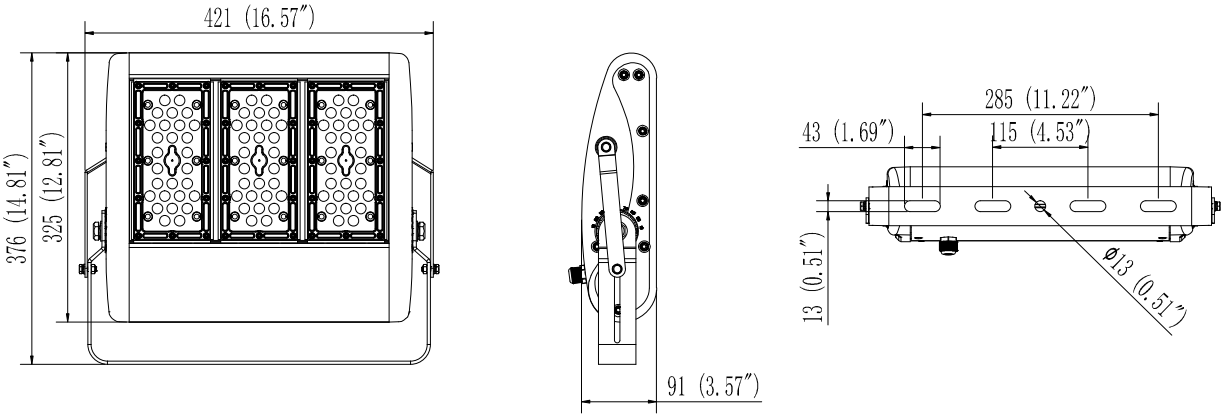
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Straight
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	7.33kg
CODE	LUX-FL-150H

TECHNICAL DATA

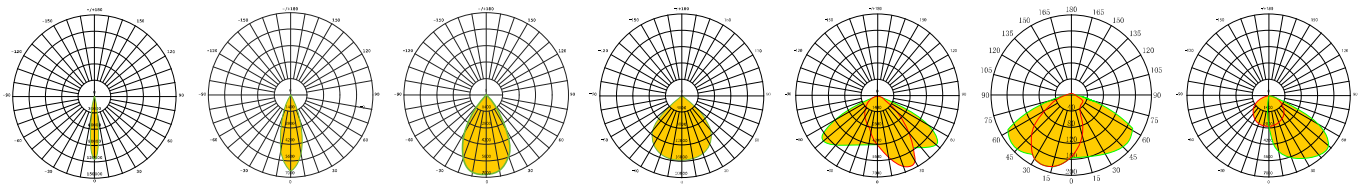
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-CE/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

FL-OPSUN-PRO-200W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	32,000lm-34,000lm
LUMINAIRE EFFICACY	160-170lm/W
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well ELG-240-48A
SYSTEM WATTAGE	200W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<20%
INRUSH CURRENT	60A
DRIVER LIFETIME	>50,000hrs
CONNECTION	1.5m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

DESIGN / CONSTRUCTION

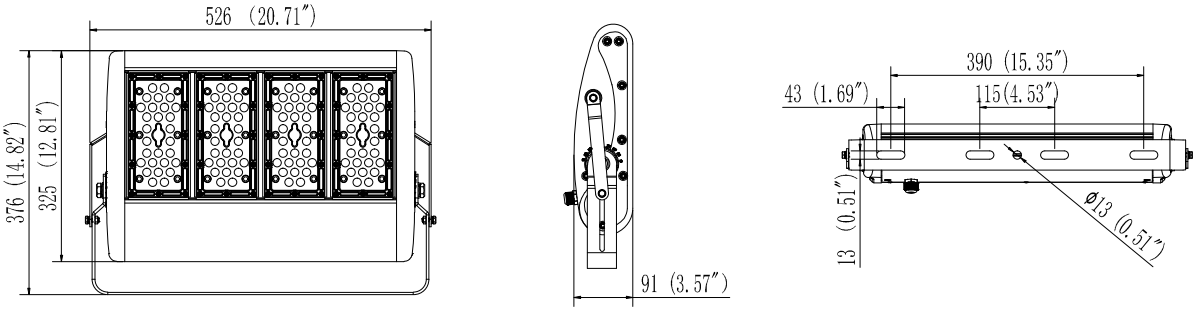
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Straight
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	10.73kg
CODE	LUX-FL-200H

TECHNICAL DATA

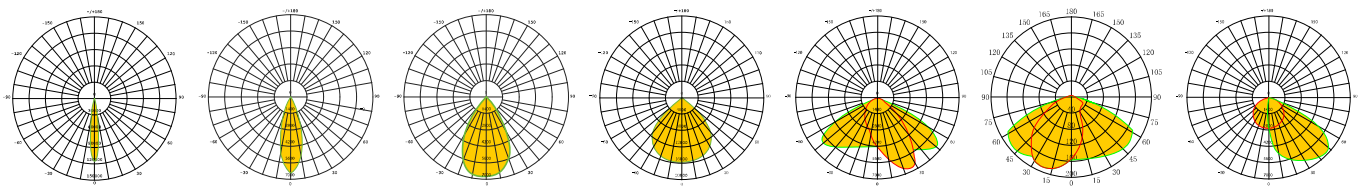
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-CE/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

FL-OPSUN-PRO-250W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	40,000lm-42,500lm
LUMINAIRE EFFICACY	160-170lm/W
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well ELG-100-48A ELG-150-48A
SYSTEM WATTAGE	250W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<20%
INRUSH CURRENT	65A
DRIVER LIFETIME	>50,000hrs
CONNECTION	1.5m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

DESIGN / CONSTRUCTION

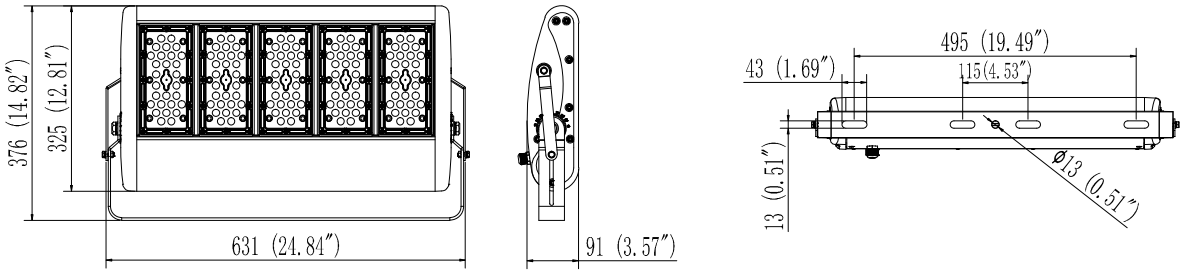
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Straight
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	11.5kg
CODE	LUX-FL-250H

TECHNICAL DATA

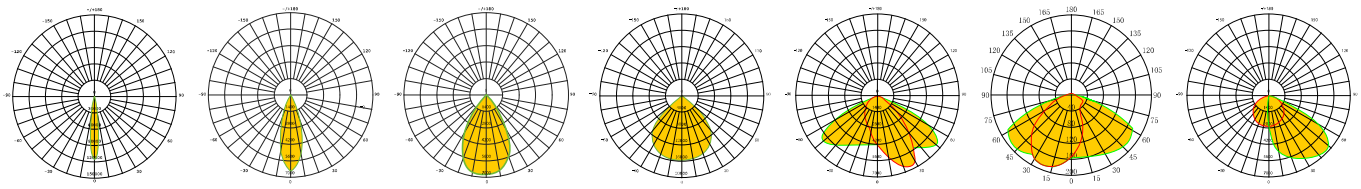
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-E/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

FL-OPSUN-PRO-300W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	48,000lm-51,000lm
LUMINAIRE EFFICACY	160-170lm/W
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-320-48A
SYSTEM WATTAGE	300W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<20%
INRUSH CURRENT	70A
DRIVER LIFETIME	>50,000hrs
CONNECTION	1.5m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

DESIGN / CONSTRUCTION

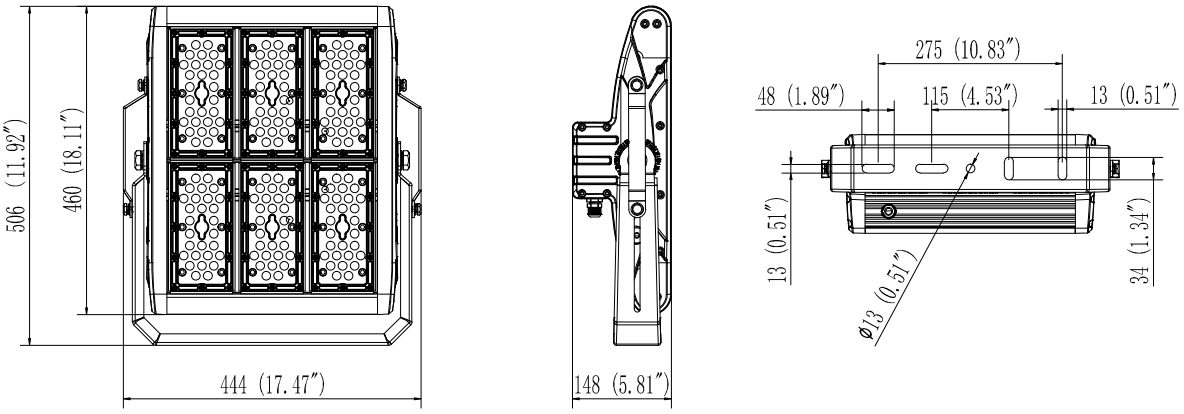
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Straight
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	12.51kg
CODE	LUX-FL-300H

TECHNICAL DATA

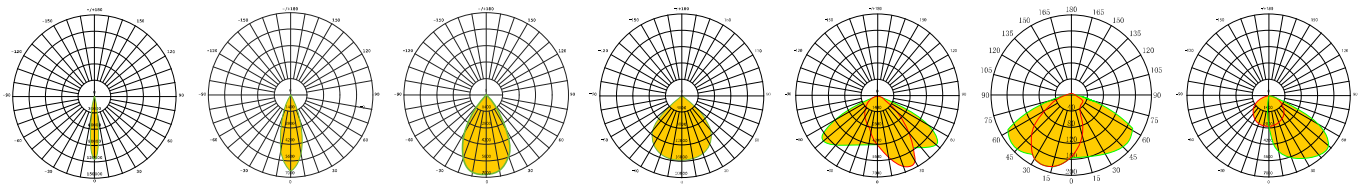
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-CE/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

FL-OPSUN-PRO-400W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	64,000lm-68,000lm
LUMINAIRE EFFICACY	160-170lm/W
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well ELG-240-48A x2
SYSTEM WATTAGE	400W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<20%
INRUSH CURRENT	60A
DRIVER LIFETIME	>50,000hrs
CONNECTION	1.5m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

DESIGN / CONSTRUCTION

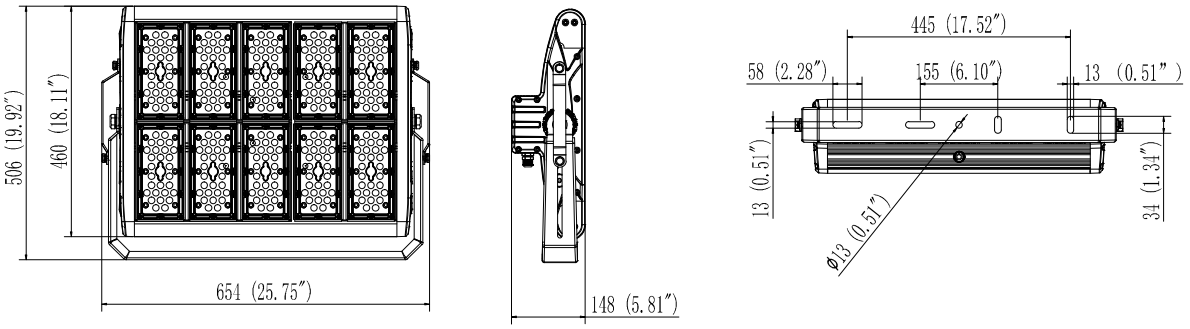
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Straight
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	19.45kg
CODE	LUX-FL-400H

TECHNICAL DATA

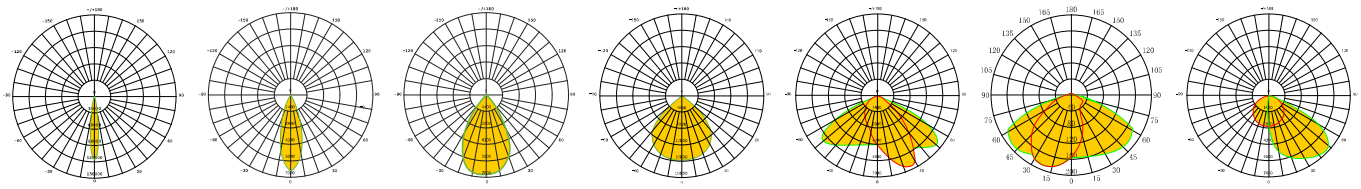
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-E/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

FL-OPSUN-PRO-500W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	80,000lm-85,000lm
LUMINAIRE EFFICACY	160-170lm/W
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-320H-48A ELG-240-48A
SYSTEM WATTAGE	500W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<20%
INRUSH CURRENT	70A
DRIVER LIFETIME	>50,000hrs
CONNECTION	1.5m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

DESIGN / CONSTRUCTION

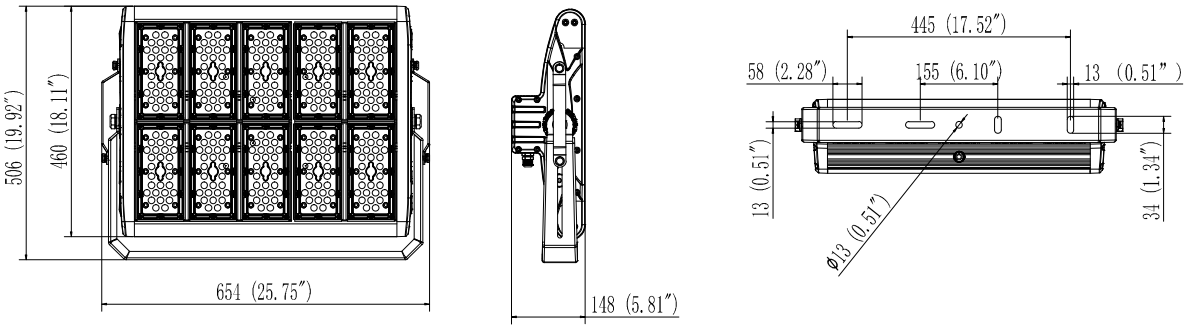
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Straight
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	20.19kg
CODE	LUX-FL-500H

TECHNICAL DATA

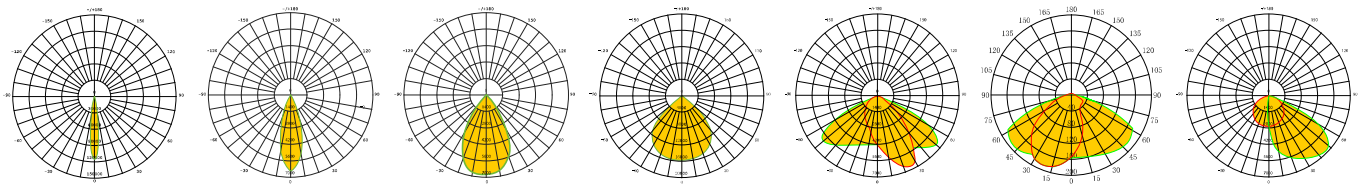
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-E/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

FL-OPSUN-PRO-600W

VIMALUX

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

160-170lm/W System Efficacy

5 year Warranty

IP65 Rated

IK10 Rated

FEATURES

- Ultra efficient system efficacy of up to 160-170lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP65 and IK10 construction
- Suitable for coastal areas (with optional 304/316 stainless steel bracket)
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	96,000lm-102,000lm
LUMINAIRE EFFICACY	160-170lm/W
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCT's on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	15° / 30° / 60° / 90° / 85°x135°/ 70°x140° / 60°x130°

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-320H-48A x 2
SYSTEM WATTAGE	600W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR THD	≥0.97
INRUSH CURRENT	<20%
DRIVER LIFETIME	70A
CONNECTION	>50,000hrs
DIMMABLE OPTIONS	1.5m 3 core cable
	DALI, 1-10V

DESIGN / CONSTRUCTION

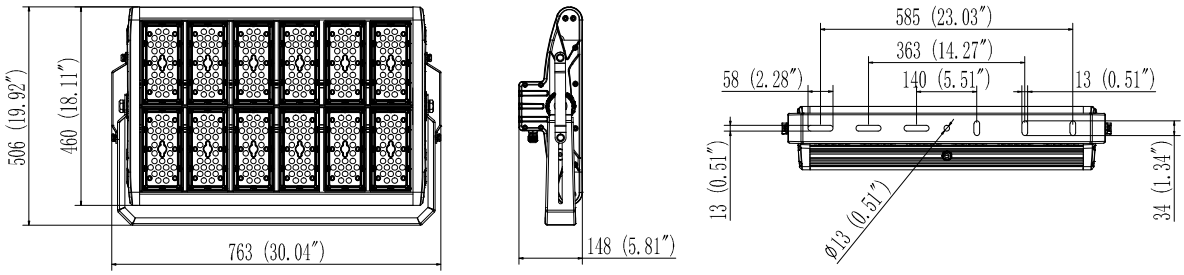
HOUSING MATERIAL	Corrosion-resistant aluminium
LENS MATERIAL	Polycarbonate
BRACKET MATERIAL	Hot-dip galvanised iron
BRACKET TYPE	Oblique
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	23.15kg
CODE	LUX-FL-600H

TECHNICAL DATA

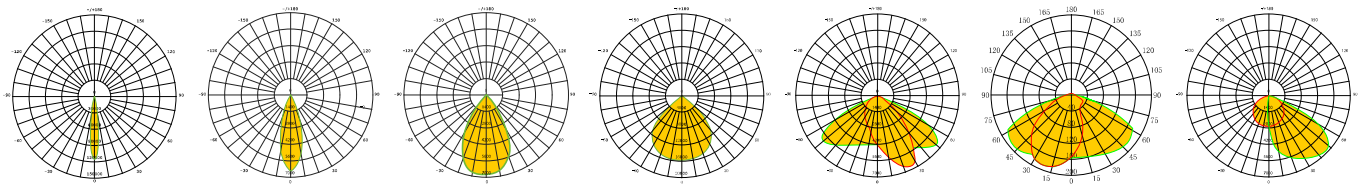
IP RATING	IP65
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	UL/ENEC/CB/SAA/TUV-E/ROHS
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 5 year warranty

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



15*15 30*30 60*60 90*90 85*135 70*140 60*130

IMAGES

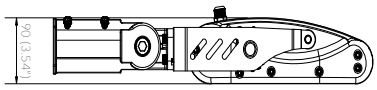
PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

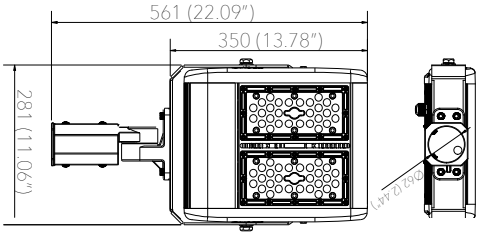
STAINLESS STEEL BRACKET

DESCRIPTION	Marine grade stainless steel, suitable for coastal areas
MATERIAL	Stainless steel
GRADE	304/316
INCLUDED	Bracket, nuts, bolts, washers
STOCKED	Yes

POLE MOUNT BRACKET FOR 100-150W

TILT	90° - 180°
SPIGOT SIZE	62mm
MATERIAL	Aluminium
STOCKED	Yes





GLARE SHIELD

DESCRIPTION	Designed for areas where light spill and glare is a concern.
MATERIAL	Aluminium
STOCKED	Indent only

PRODUCT CODE

100W	300W
150W	400W/500W
200W/250w	600W

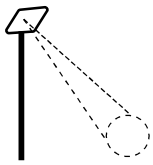
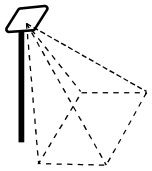
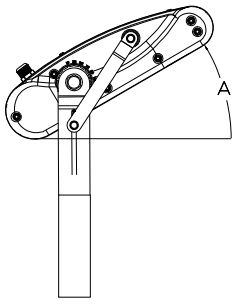
A QUICK GUIDE FOR COMPARING THE SPECIFICATIONS OF THE WHOLE RANGE

	LUX-FL-100H	LUX-FL-150H	LUX-FL-200H	LUX-FL-250H	LUX-FL-300H	LUX-FL-400H	LUX-FL-500H	LUX-FL-600H
Power	100W	150W	200W	250W	300W	400W	500W	600W
Lumen Output (max)	16,000lm-17,000lm	24,000lm-25,500lm	32,000lm-34,000lm	40,000lm-42,500lm	48,000lm-51,000lm	64,000lm-68,000lm	80,000lm-85,000lm	96,000lm-102,000lm
Efficacy (max)	160-170lm/W							
Life Span	>50,000hrs							
CCT	5000K (standard), 6000K, 4000K, 3000K (indent)							
CRI	>70/80							
Beam Angle	15°,30°, 60°, 90°, 85°x135° , 70°x140°, 60°x130° (standard)							
LED Chips	Lumileds 5050							
LED Driver	Mean Well Series							
Classifications	IP65; IK10; Class 1; RoHS							

OPSUN FLOODLIGHT REPLACEMENT CHART

OPSUN PRO	OPSUN (Standard)	METAL HALIDE	HALOGEN
LIFETIME: >50,000 HRS	>50,000 HRS	12,000 HRS	1,000 - 2,000 HRS
80W	100W		
100W	150W	320W	
150W	200W	400W	1500W
250W	300W	750W	
300W	400W	1000W	
500W	600W	1500W	
600W			

BEAM ANGLE	DISTRIBUTION	APPLICATION
15°x15°/30°x30°	Symmetric	Architectural, Accent Lighting, Sports Feilds
60°x60°	Symmetric	Area Lighting, Facade Lighting, Sports Courts
90°x90°	Symmetric	Area Lighting, Facade Lighting, Sports Courts
85°x135° 70°x140° (standard) 60°x130°	Asymmetric Wide	Area Lighting, Sign lighting, Sport Courts Lighting (Tennis, Netball, Basketball etc)

BEAM ANGLE	DISTRIBUTION	PATTERN
15°x15° 30°x30° 60°x60° 90°x90°	Symmetric	
85°x135° 70°x140° 60°x130°	Asymmetric	

BEAM ANGLE	SUGGESTED TILT ANGLE	
85°x135° 70°x140° 60°x130°	A: 15°-45°