

FALCON PRO FLOODLIGHT

PROFESSIONAL SERIES FLOODLIGHT



UP TO
70%

ENERGY SAVING

UP TO
165lm/w

SYSTEM EFFICACY

LIFETIME OF
72,000+

HOURS TO L70

4 BEAM PROFILES

IP67 & IK10 RATED

AVAILABLE FROM 80W-640W

LUMILEDS CHIP, MEAN WELL DRIVER



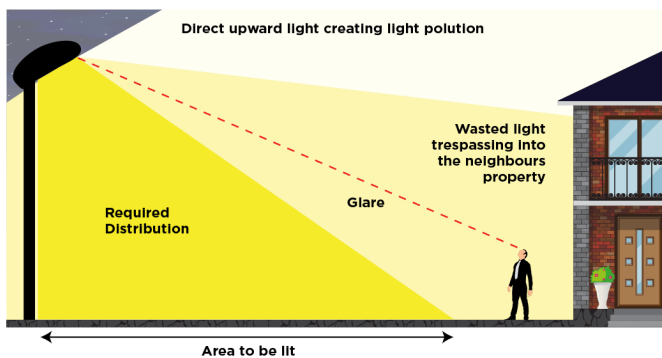
MEET THE FAMILY

The Falcon 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 165lm/W throughout the range topping out at a massive 100,000 lumens.

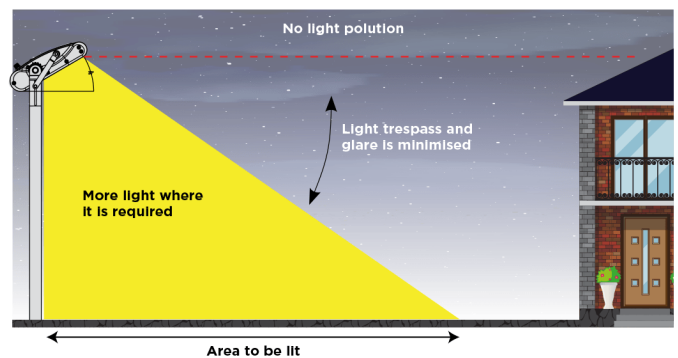


PUTTING THE LIGHT WHERE IT'S WANTED

The LED Falcon 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



FALCON PRO FLOODLIGHT WITH ASYMMETRIC BEAM PROFILE (comes standard)



SUPERIOR COOLING PERFORMANCE

The Falcon 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 separate chamber away from the critical LED components to ensure the complete system life is maximized.

BUILT TO LAST

To ensure the Falcon 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 316 stainless steel bracket.



LED FALCON PRO 80W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT



157lm/W
System Efficacy



7 year
Warranty



IP67
Rated



IK10
Rated



FEATURES

- Ultra efficient system efficacy of up to 157lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP67 and IK10 construction
- Suitable for coastal areas (with optional 316 stainless steel bracket)
- >72,000hrs to L70
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	12,560lm*
LUMINAIRE EFFICACY	157lm/W*
LIFETIME @L70 (TM-21)	>72,000hrs
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	30° / 60° / 90° / 85°x135°

*achieved with 90° beam angle

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-80H-48A
SYSTEM WATTAGE	80W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<10%
INRUSH CURRENT	70A
SURGE PROTECTION	10kV
DRIVER LIFETIME	>62,000hrs
CONNECTION	1.2m 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	4.5kg
CODE	FALCONPRO-80-750

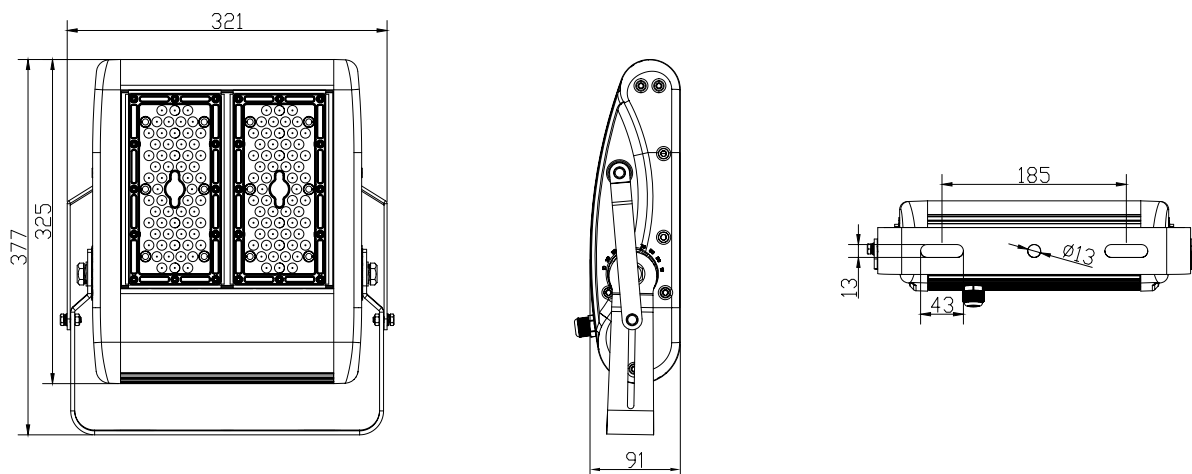
TECHNICAL DATA

IP RATING	IP67
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	SAA
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 7 year warranty

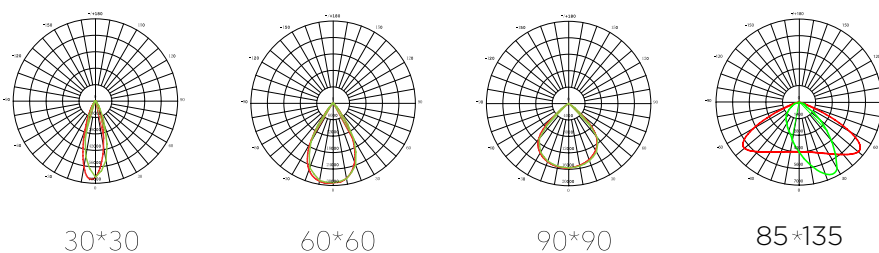
LED FALCON PRO 80W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



IMAGES



LED FALCON PRO 120W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT



157lm/W
System Efficacy



7 year
Warranty



IP67
Rated



IK10
Rated



FEATURES

- Ultra efficient system efficacy of up to 157lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP67 and IK10 construction
- Suitable for coastal areas (with optional 316 stainless steel bracket)
- >72,000hrs to L70
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	18,840lm*
LUMINAIRE EFFICACY	157lm/W*
LIFETIME @L70 (TM-21)	>72,000hrs
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	30° / 60° / 90° / 85°x135°

*achieved with 90° beam angle

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-120H-48A
SYSTEM WATTAGE	120W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<10%
INRUSH CURRENT	60A
SURGE PROTECTION	10kV
DRIVER LIFETIME	>62,000hrs
CONNECTION	1.2m 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	4.5kg
CODE	FALCONPRO-120-750

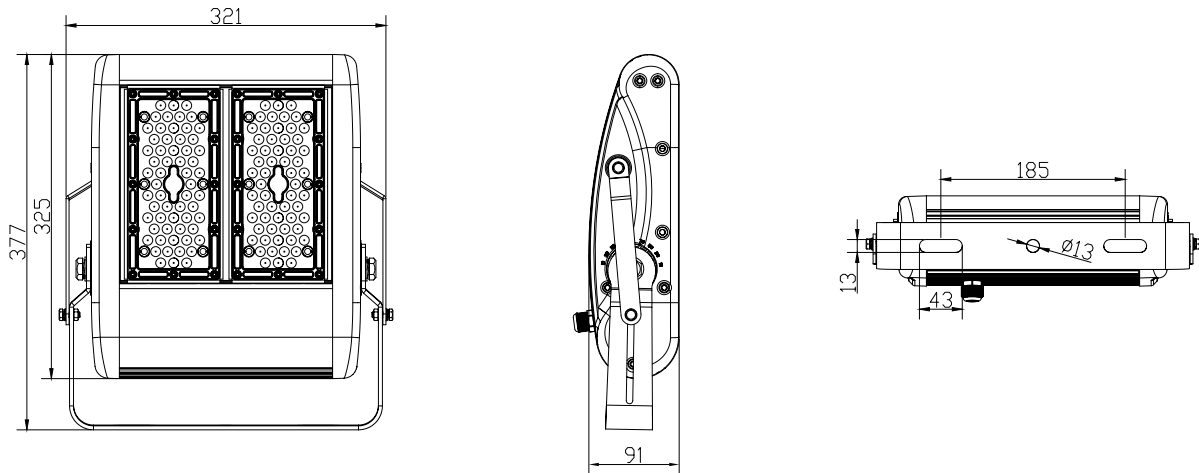
TECHNICAL DATA

IP RATING	IP67
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	SAA
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 7 year warranty

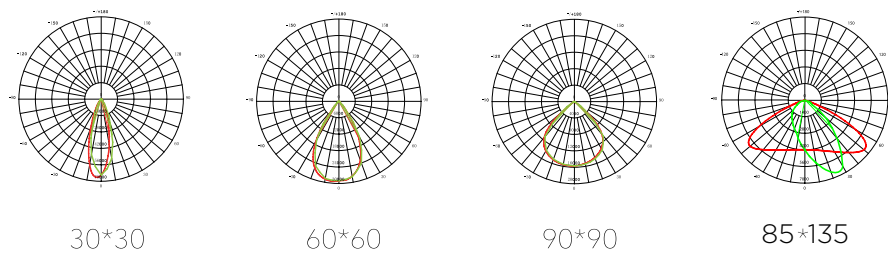
LED FALCON PRO 120W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



IMAGES



LED FALCON PRO 150W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT



157lm/W
System Efficacy



7 year
Warranty



IP67
Rated



IK10
Rated



FEATURES

- Ultra efficient system efficacy of up to 157lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP67 and IK10 construction
- Suitable for coastal areas (with optional 316 stainless steel bracket)
- >72,000hrs to L70
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	23,550lm*
LUMINAIRE EFFICACY	157lm/W*
LIFETIME @L70 (TM-21)	>72,000hrs
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	30° / 60° / 90° / 85°x135°

*achieved with 90° beam angle

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-150H-48A
SYSTEM WATTAGE	150W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<10%
INRUSH CURRENT	60A
SURGE PROTECTION	10kV
DRIVER LIFETIME	>62,000hrs
CONNECTION	1.2m 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	6kg
CODE	FALCONPRO-150-750

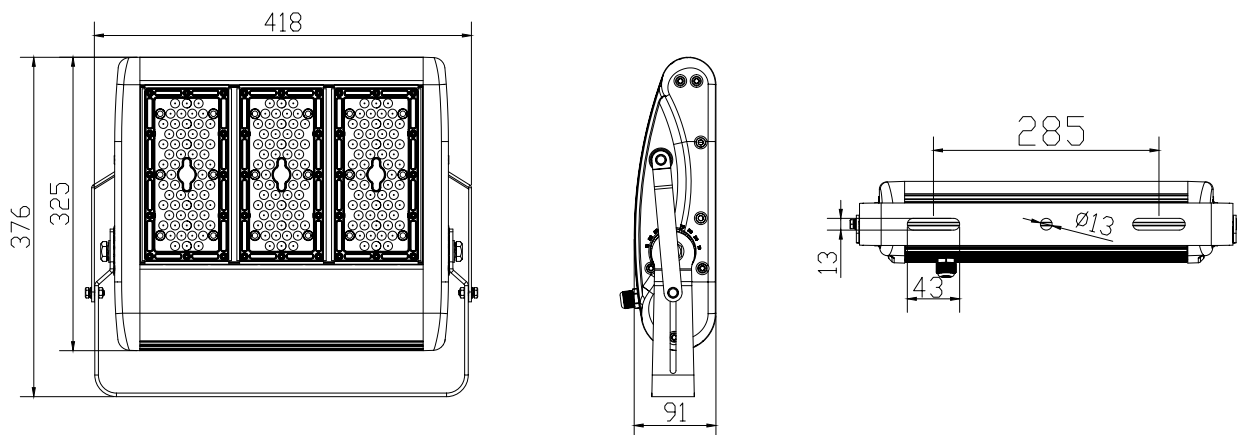
TECHNICAL DATA

IP RATING	IP67
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	SAA
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 7 year warranty

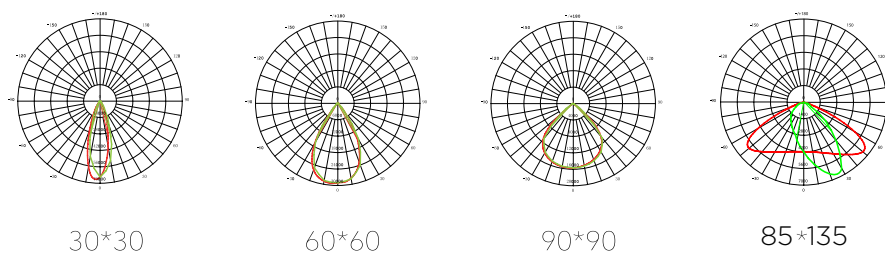
LED FALCON PRO 150W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



IMAGES



LED FALCON PRO 240W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT



160lm/W
System Efficacy



7 year
Warranty



IP67
Rated



IK10
Rated



FEATURES

- Ultra efficient system efficacy of up to 160lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP67 and IK10 construction
- Suitable for coastal areas (with optional 316 stainless steel bracket)
- >72,000hrs to L70
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	38,400lm*
LUMINAIRE EFFICACY	160lm/W*
LIFETIME @L70 (TM-21)	>72,000hrs
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	30° / 60° / 90° / 85°x135°

*achieved with 90° beam angle

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-240H-48A
SYSTEM WATTAGE	240W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<10%
INRUSH CURRENT	75A
SURGE PROTECTION	10kV
DRIVER LIFETIME	>62,000hrs
CONNECTION	1.2m 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	8.6kg
CODE	FALCONPRO-240-750

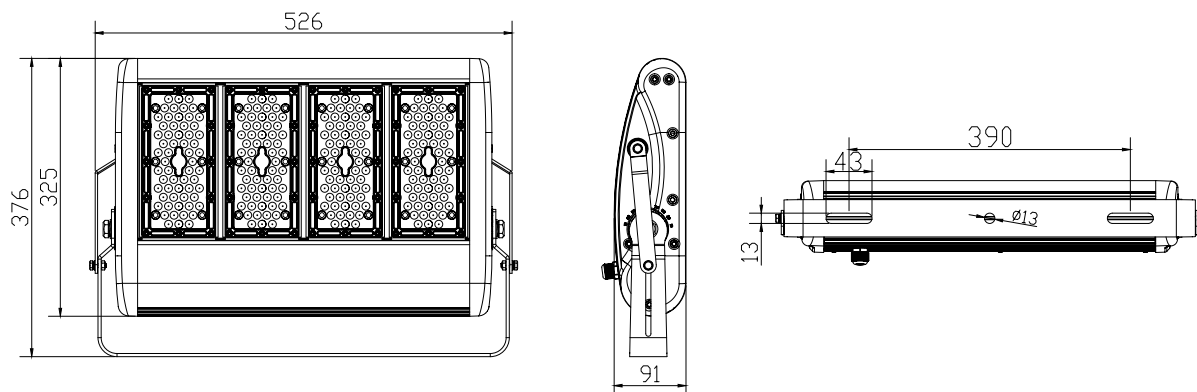
TECHNICAL DATA

IP RATING	IP67
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	SAA
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 7 year warranty

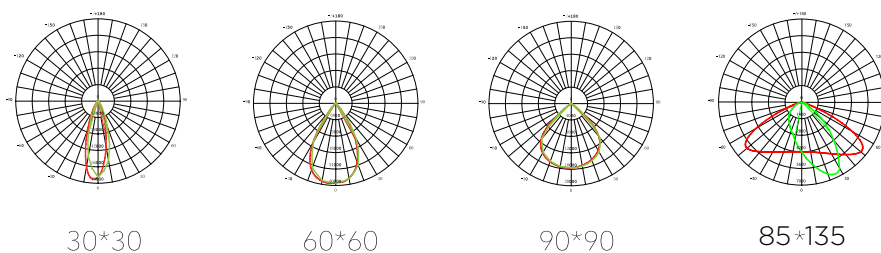
LED FALCON PRO 240W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



IMAGES



LED FALCON PRO 320W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT



165lm/W
System Efficacy



7 year
Warranty



IP67
Rated



IK10
Rated



FEATURES

- Ultra efficient system efficacy of up to 165lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP67 and IK10 construction
- Suitable for coastal areas (with optional 316 stainless steel bracket)
- >72,000hrs to L70
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	52,800lm*
LUMINAIRE EFFICACY	165lm/W*
LIFETIME @L70 (TM-21)	>72,000hrs
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	30° / 60° / 90° / 85°x135°

*achieved with 90° beam angle

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-320H-48A
SYSTEM WATTAGE	320W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<10%
INRUSH CURRENT	70A
SURGE PROTECTION	10kV
DRIVER LIFETIME	>62,000hrs
CONNECTION	1.2m 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	Oblique
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	15.3kg

CODE FALCONPRO-320-750

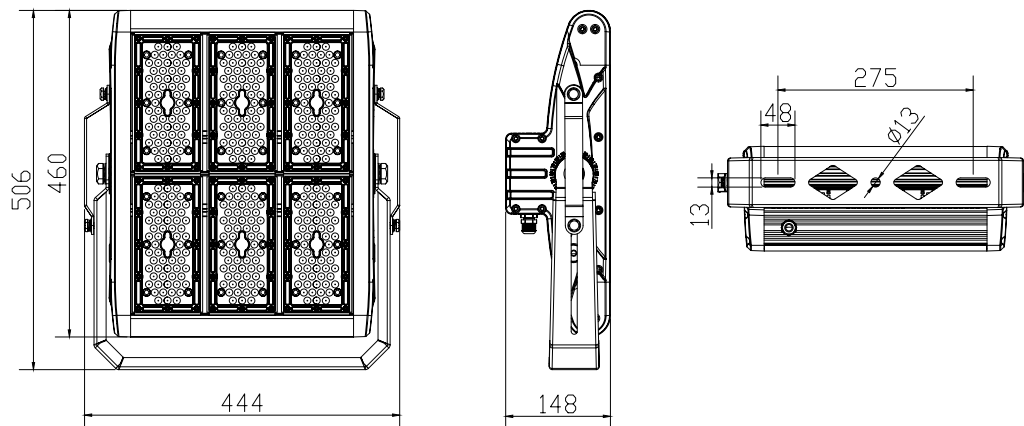
TECHNICAL DATA

IP RATING	IP67
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	SAA
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 7 year warranty

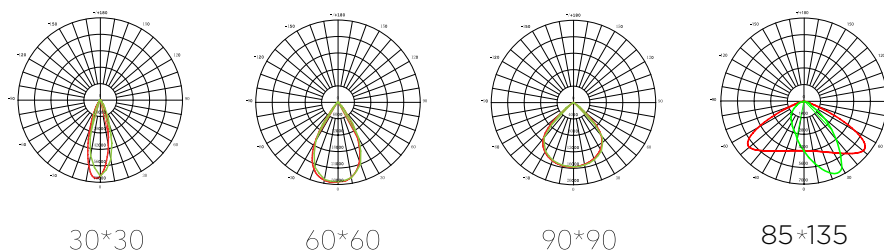
LED FALCON PRO 320W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



IMAGES



LED FALCON PRO 480W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT



163lm/W
System Efficacy



7 year
Warranty



IP67
Rated



IK10
Rated



FEATURES

- Ultra efficient system efficacy of up to 163lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP67 and IK10 construction
- Suitable for coastal areas (with optional 316 stainless steel bracket)
- >72,000hrs to L70
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	78,240lm*
LUMINAIRE EFFICACY	163lm/W*
LIFETIME @L70 (TM-21)	>72,000hrs
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	30° / 60° / 90° / 85°x135°

*achieved with 90° beam angle

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-240H-48A x 2
SYSTEM WATTAGE	480W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<10%
INRUSH CURRENT	75A
SURGE PROTECTION	10kV
DRIVER LIFETIME	>62,000hrs
CONNECTION	1.2m 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	Oblique
POWDER COAT	Epoxy-Polyester hybrid
COLOUR	Graphite black (RAL 9011)
WEIGHT	16kg
CODE	FALCONPRO-480-750

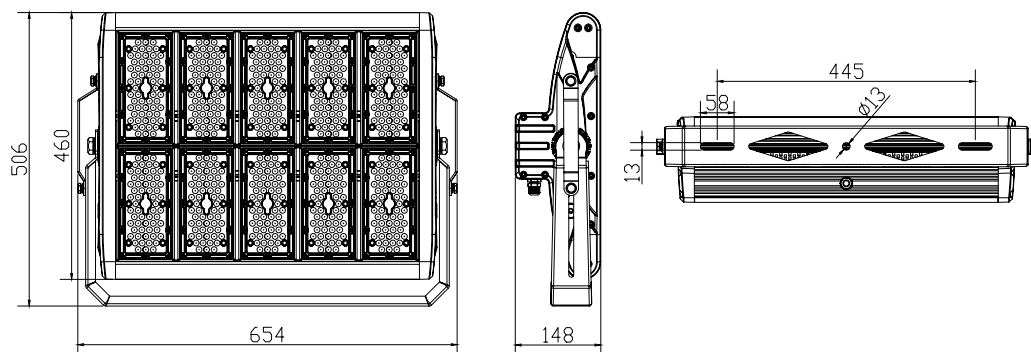
TECHNICAL DATA

IP RATING	IP67
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	SAA
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 7 year warranty

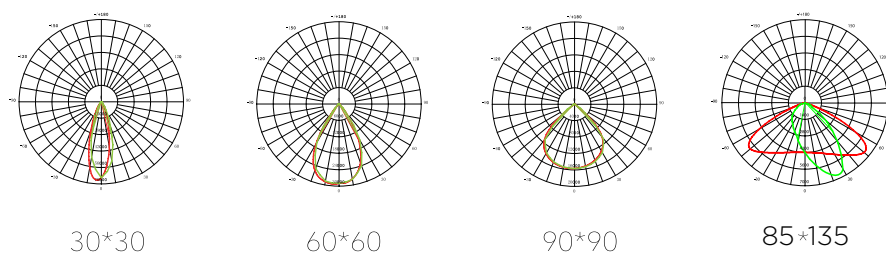
LED FALCON PRO 480W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



IMAGES



LED FALCON PRO 640W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT



162lm/W
System Efficacy



7 year
Warranty



IP67
Rated



IK10
Rated



FEATURES

- Ultra efficient system efficacy of up to 162lm/W
- High quality Lumileds LED chips and Mean Well Driver
- Multiple beam angles available
- Tough IP67 and IK10 construction
- Suitable for coastal areas (with optional 316 stainless steel bracket)
- >72,000hrs to L70
- Epoxy-Polyester anti-corrosion coating

LIGHTING DATA

LIGHT SOURCE	Lumileds 5050
LUMEN OUTPUT	103,680lm*
LUMINAIRE EFFICACY	162lm/W*
LIFETIME @L70 (TM-21)	>72,000hrs
LIFETIME @L80 (TM-21)	67,000hrs
LIFETIME @L90 (TM-21)	29,000hrs
CCT	5000K (Further CCTs on request)
CRI	>70 (CRI80, CRI90 on request)
SDCM	<5
BEAM ANGLE	30° / 60° / 90° / 85°x135°

*achieved with 90° beam angle

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	23.5kg
CODE	FALCONPRO-640-750

ELECTRICAL DATA

POWER SOURCE	Mean Well HLG-320H-48A x 2
SYSTEM WATTAGE	640W
MAINS VOLTAGE	AC100-277V / 50-60 Hz
POWER FACTOR	≥0.97
THD	<10%
INRUSH CURRENT	70A
SURGE PROTECTION	10kV
DRIVER LIFETIME	>62,000hrs
CONNECTION	1.2m 3 core cable
DIMMABLE OPTIONS	DALI, 1-10V

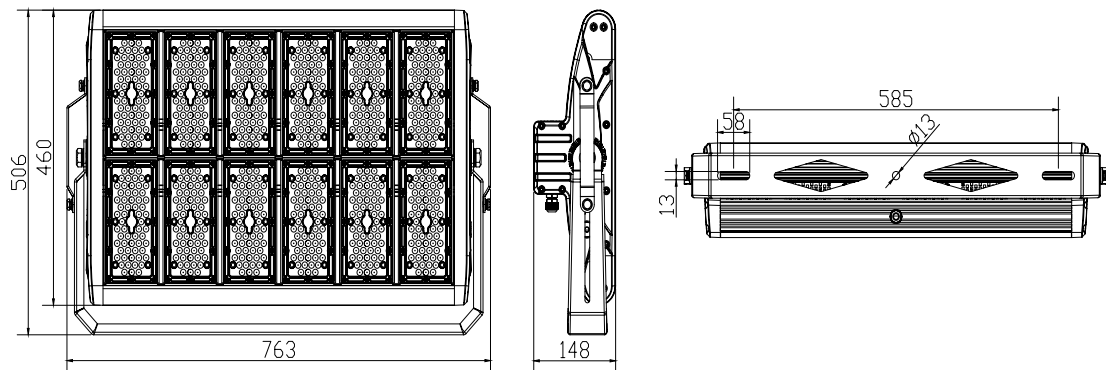
TECHNICAL DATA

IP RATING	IP67
IK RATING	IK10
OPERATING TEMP	-30° to +45°C
PROTECTION CLASS	Class 1
CERTIFICATIONS	SAA
DOCUMENTATION	LM-79 / LM-80 / ISTMT / TM-21
WARRANTY	Standard 7 year warranty

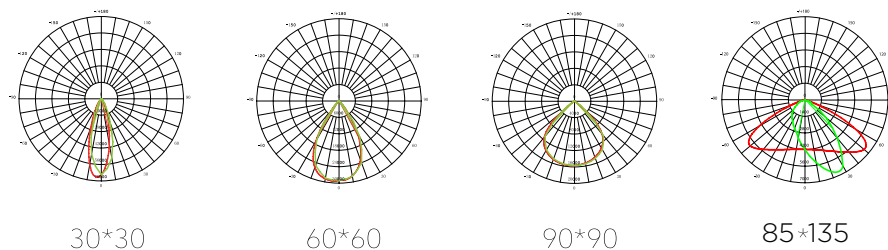
LED FALCON PRO 640W

PROFESSIONAL SERIES HIGH OUTPUT LED FLOODLIGHT

DIMENSIONS



PHOTOMETRIC DIAGRAM



IMAGES



FALCON PRO OPTIONS

PROFESSIONAL SERIES LED FLOODLIGHT

STAINLESS STEEL BRACKET



DESCRIPTION

Marine grade stainless steel, suitable for coastal areas

MATERIAL

Stainless steel

GRADE

316

INCLUDED

Bracket, nuts, bolts, washers

STOCKED

Yes

PRODUCT CODE

80/120W	316SSB100	320W	316SSB300
150W	316SSB150	480W	316SSB400
240W	316SSB200	640W	316SSB600

POLE MOUNT BRACKET FOR 80W/120W



TILT

90° - 180°

SPIGOT SIZE

62mm

MATERIAL

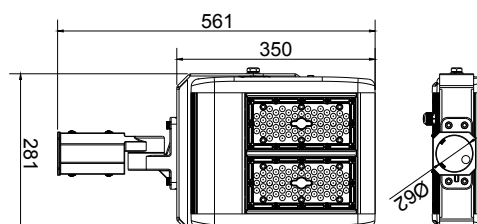
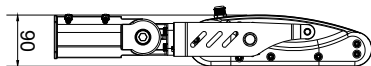
Aluminium

STOCKED

Yes

PRODUCT CODE

EVFLLM100PTB



GLARE SHIELD



DESCRIPTION

Designed for areas where light spill and glare is a concern.

MATERIAL

Aluminium

STOCKED

Indent only

PRODUCT CODE

100W	FGS100	320W	FGS300
150W	FGS150	480W	FGS400
240W	FGS200	640W	FGS600

QUICK COMPARISON GUIDE

A QUICK GUIDE FOR COMPARING THE SPECIFICATIONS OF THE WHOLE RANGE

	FALCONPRO-80	FALCONPRO-120	FALCONPRO-150	FALCONPRO-240	FALCONPRO-320	FALCONPRO-480	FALCONPRO-640
Power	80W	120W	150W	240W	320W	480W	640W
Lumen Output (max)	12,560lm	18,840lm	23,550lm	38,400lm	52,800lm	78,240lm	103,680lm
Efficacy (max)	165lm/W						
Life Span	>72,000hrs						
CCT	5000K (standard), 6000K, 4000K, 3000K (indent)						
CRI	>80						
Beam Angle	30°, 60°, 90°, 85°x135° (standard)						
LED Chips	Lumileds 5050						
LED Driver	Mean Well HLG Series						
Classifications	IP67; IK10; Class 1; RoHS						

FALCON FLOODLIGHT REPLACEMENT CHART



LED FALCON PRO	LED FALCON (Standard)	METAL HALIDE	HALOGEN
LIFETIME: >72,000 HRS	>60,000 HRS	12,000 HRS	1,000 - 2,000 HRS
80W	100W		
120W	150W	320W	
150W	200W	400W	1500W
240W	300W	750W	
320W	400W	1000W	
480W	600W	1500W	
640W			

PRODUCT OPTIONS & ORDERING GUIDE

PRODUCT CODE ORDERING GUIDE

Our stocked product comes standard with 5000K, 85°x135° and the body is black. If you would like any changes to the product that differs from the standard please use the below guide.
Please get in touch with us for lead times on custom configurations. MOQ's may apply.

PRODUCT CODE	COLOUR TEMP	BEAM ANGLE	DIMMING	BODY COLOUR
FACLONPRO-80	730	B30 (30°)	DALI	WH (white)
FACLONPRO-120	740	B60 (60°)	1-10V	
FACLONPRO-150	750	B90 (90°)		
FACLONPRO-240	760	AW (85x135°)		
FACLONPRO-320				
FACLONPRO-480				
FACLONPRO-640				

Example - An order for a 330W Falcon in 6000K with a 60 degree beam angle would look like this

FALCONPRO-320

-

760

-

B60

-

-

-

-

= FALCONPRO-320-760-B60

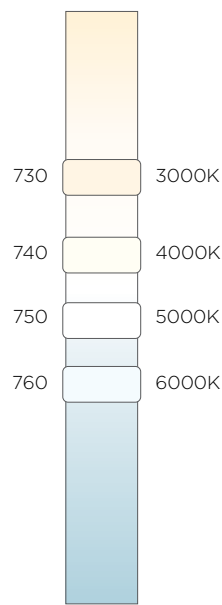
Colour Temp

Beam Angle

Dimming

Body Colour

COLOUR TEMPERATURE

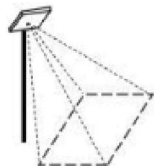


BODY COLOUR



APPLICATION GUIDE

BEAM ANGLE	DISTRIBUTION	APPLICATION
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° (standard)	Asymmetric Wide	Area Lighting, Sign lighting, Sport Courts Lighting (Tennis, Netball, Basketball etc)

BEAM ANGLE	DISTRIBUTION	PATTERN
30°x30° 60°x60° 90°x90°	Symmetric	
85°x135°	Asymmetric	

BEAM ANGLE	SUGGESTED TILT ANGLE	
85°x135°	A: 15°-45°	