



A low profile, slimline LED floodlight available in power ratings from 60W to 240W.

Suitable for security, general access, sports pitch, and architectural applications.

Multiple optics (including symmetric and asymmetric), low windage, and various mounting options, provide maximum versatility.

A competitive solution when high-performance is required.

CE, RoHS, ENEC, ETL, SAA international product marks



**Franklin Series**

**Multi-Purpose Economic LED Floodlights**

CDN:SPEC169REV3

## Technical Specifications Summary



### Performance Summary:

Code (Series-Wattage/Size)	FRA-60	FRA-100	FRA-150	FRA-200	FRA-240
Nominal Power	60W	100W	150W	200W	240W
Luminaire Efficacy @ CRI>70, 5000K CCT	125lm/W	124lm/W	122lm/W	120lm/W	125lm/W
Lumen Output @ CRI>70, 5000K CCT	7,500lm	12,400lm	18,300lm	24,000lm	28,800lm
Lumen Maintenance (TM21 Reported)	L70B50 ≥50,000 hours @ 30°C Ambient				
Certification	CE, RoHS, ENEC, ETL, SAA				
Product Warranty	5 Years				

### Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Osram Duris S5
Chip Efficacy @ CRI>70, 4000K CCT	>145lm/W @ 150mA
Light Emission	Direct
CCT	5000K, (3000K, 4000K optional)
CRI	≥70Ra, (≥80Ra optional)
SDCM	SDCM<5
Diffusers	Clear
Symmetric Light Distribution	15°, 30°, 60°
Asymmetric Light Distribution	30°x60°, 65°x120°, 65°x120° (Forward Throw)

### Electrical Parameters¹:

System Operating Power	60W	100W	150W	200W	240W
Driver Brand (D1)	Sosen GA				
System Power Factor	>0.93				
Typical Driver Lifetime @ Tc 75°	50,000 hours				
Input Voltage	220-240VAC, (100-277VAC optional)				
Input Frequency	50-60Hz				
Qty of Drivers per Light	1				
Power Factor	>0.92				
THD	<10% (220-240VAC)				
Surge Protection/Fusing	10KV, (12KV optional)				

### Environmental Parameters:

IP Rating	IP66
IK Rating	IK08
Ambient Usage Tolerance	-30°C to 45°C
Ambient Storage Tolerance	-30°C to 45°C
Ambient Humidity Tolerance	10% to 90% RH



## Technical Specifications Summary

Code (Series-Wattage/Size)	FRA-60	FRA-100	FRA-150	FRA-200	FRA-240
Physical/Mechanical Parameters:					
Product Dimensions: LxWxH (mm)	359 x 308 x 82	413 x 366 x 83		452 x 462 x 87	
Electrical Connection	1.5m cable				
Fixture Weight <sup>2</sup>	4.3kg	7.0kg	7.0kg	8.6kg	8.9kg
Fixture Primary Material(s)	Aluminium Alloy and Stainless Steel Fixings				
Fixture Finish	Powder Coating				
Lens(es) Materials	Tempered Glass and UV Stabilised Polycarbonate Optical Lens				
Dimming/Controls Parameters:					
Dimming Options	Non-Dimming, 0-10V, DALI				
Compatible intelligent lighting systems	LitelP Wireless Controls and Monitoring				
Options/Accessories:					
Mounting Styles	Universal Bracket				
Miscellaneous Accessories	Pole Mounting Adapter (To Suit Pole Diameter 42mm, 60mm, 76mm), Clamp Mount				
Available Product Colours	Black, Grey				

<sup>1</sup>Electrical Parameter data is for D1 drivers, unless otherwise stated

<sup>2</sup>Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

All stated values should be considered indicative only. Technical data is provided from sample luminaires and construction components as assessed by OEM(s) under industry-standard, laboratory conditions. In practice, stated values can vary. Kellwood Lighting operates a policy of continual product improvement. Our luminaires' capabilities are regularly enhanced to outperform in-class market alternatives. Please contact our technical team directly for clarifications prior to purchase. All images depicted should be considered indicative only. Stated product warranty periods do not include associated labour costs. Stated product warranty periods are for UK projects only. For international projects, please contact our offices directly. Optional upgrades can often affect or supersede unit technical parameters, capabilities, and warranties. It is the responsibility of the purchasing authority to ensure selected hardware is suitable for application. For further documentation, including Returns Policy and Conditions of Unit Failure, please contact our offices. Hazardous area documentation (eg. ATEX) are issued to OEM codes. WEEE compliance reference code: WEE/MP3838PR/SCH. Please do not look directly at LED lighting products during operation.

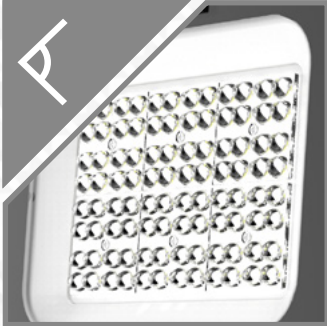
This datasheet & corresponding certification should be reviewed by a competent person to ensure project suitability.

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## Features Summary



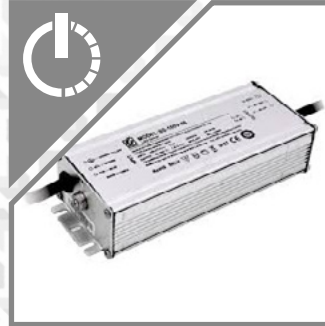
### Distribution

There are symmetric light distribution options available; 15°, 30°, 60° and 3 asymmetric options; 30°x60°, 65°x120°, 65°x120° with forward throw



### Temperature Tolerance

Franklin Series has a usage temperature tolerance of -30°C to 45°C



### Driver

Non-dimming, 1-10V,



### Vibration Resistance

Aluminium alloy housing and tempered glass provides IK08 rating



### Environmental Protection

IP66 Rated with anti-corrosion finish



### Surge Protection

6kV line-line, 10kV line-earth



### Mounting Options

Universal bracket come as standard and slip fit mounting optional through recessed adapter accessory



### Mounting Options

Optional clamp mount can be used to install two floodlights with ease

## Mounting



Slip Fit Mount



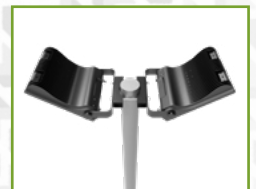
Universal Bracket



### Clamp Mount Bracket

Additional clamp mount is available to provide simple installation of two Franklin floodlights to a pole.

42mm-76mm pole mount adapters available.



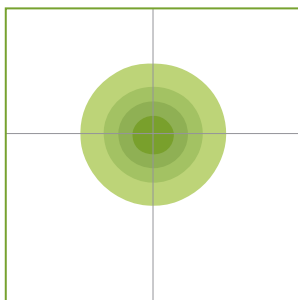


Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

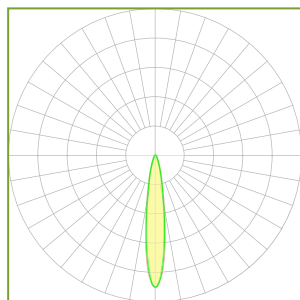
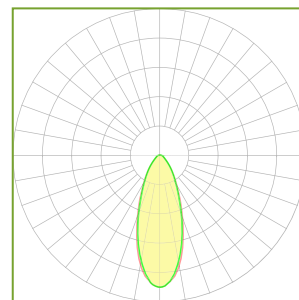
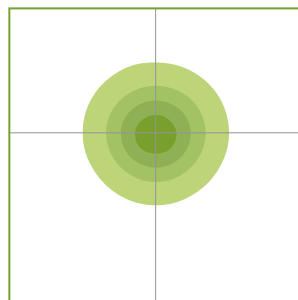
## Indicative Product Photometry

**15° Optic**

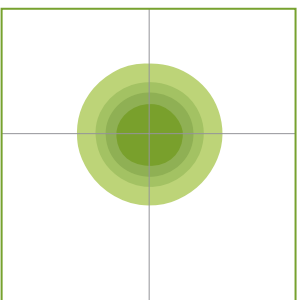
ISOLUX DIAGRAM



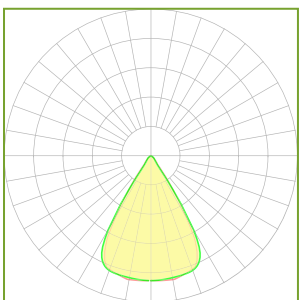
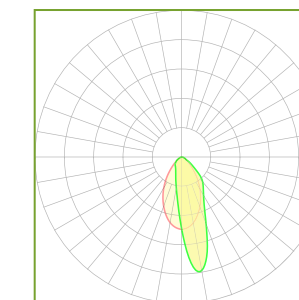
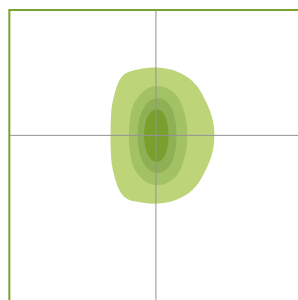
POLAR DIAGRAM

**30° Optic****60° Optic**

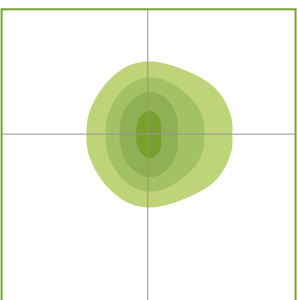
ISOLUX DIAGRAM



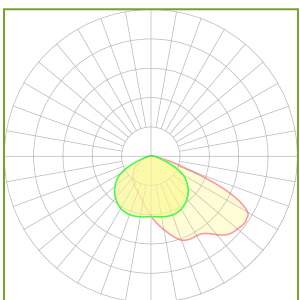
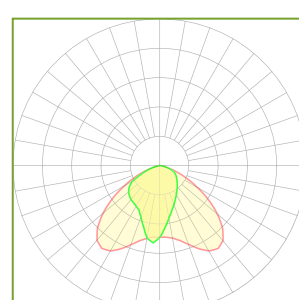
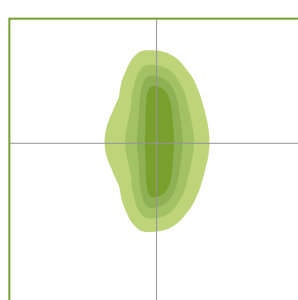
POLAR DIAGRAM

**30° x 60° Optic****65° x 120° (Forward Throw) Optic**

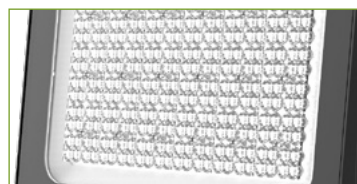
ISOLUX DIAGRAM



POLAR DIAGRAM

**65° x 120° Optic****Diffuser**

This series is available with the following diffusers. Each diffuser will have a varying effect on photometric distribution and intensity. Please refer to downloadable photometrics for exact data.



Clear Optic (Various Beam Angles)



Standard product code fields are presented as:

*Further customisation may be available - please contact us if required*



## Product Ordering Codes

PRODUCT	POWER	CRI & CCT	OPTIC	DRIVER	MOUNTING	COLOUR
<b>FRA</b>	<b>60</b> 60W	<b>730</b> CRI >70, 3000K	<b>15</b> 15° CIRCULAR	<b>D1</b> NON-DIM (220-240VAC)	<b>UB</b> UNIVERSAL BRACKET	<b>BL</b> BLACK
	<b>100</b> 100W	<b>740</b> CRI >70, 4000K	<b>30</b> 30° CIRCULAR	<b>D2</b> 1-10V		<b>GR</b> GREY (RAL9006)
	<b>150</b> 150W	<b>750</b> CRI >70, 5000K	<b>60</b> 60° CIRCULAR	<b>D4</b> NON-DIM		
	<b>200</b> 200W	<b>830</b> CRI >80, 3000K	<b>F5</b> 30° x 60° FLOODLIGHT	<b>D5</b> 1-10V		
	<b>240</b> 300W	<b>840</b> CRI >80, 4000K	<b>F6</b> 65° x 120° FLOODLIGHT			
		<b>850</b> CRI >80, 5000K	<b>F7</b> 65° x 120° (FORWARD THROW) FLOODLIGHT			

### GENERAL NOTES:

1. IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH MODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE
2. PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY
3. PLEASE NOTE THAT MODIFICATIONS WHICH AFFECT LIGHT OUTPUT HAVE SEPARATE PHOTOMETRIC FILES IDENTIFIED WITH ...+(MODIFICATION)\*
4. ALTERNATIVE DRIVERS MAY BE AVAILABLE - PLEASE CONTACT OUR OFFICE FOR FURTHER DETAILS
5. IF PRODUCT IS CUSTOMISED, CODES WILL BE ALTERED AS NECESSARY

Product Ordering Code Examples:

*FRA-100-750-60-D1-UB-BL*

*FRA-200-840-F5-D3-UB-BL*

DRIVER MANUFACTURER				
POWER	D1	D2	D4	D5
<b>60</b> 60W	<b>Sosen</b>	<b>Sosen</b>	<b>Sosen</b>	<b>Sosen</b>
<b>100</b> 100W	<b>Sosen</b>	<b>Sosen</b>	<b>Us</b>	<b>Us</b>
<b>150</b> 150W	<b>Sosen</b>	<b>Sosen</b>	<b>Us</b>	<b>Us</b>
<b>200</b> 200W	<b>Sosen</b>	<b>Sosen</b>	<b>Us</b>	<b>Us</b>
<b>240</b> 240W	<b>Sosen</b>	<b>Sosen</b>	<b>Us</b>	<b>Us</b>

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

ACCESSORIES
<b>PT1</b> 42MM POLE MOUNT ADAPTER
<b>PT2</b> 60MM POLE MOUNT ADAPTER
<b>PT3</b> 76MM POLE MOUNT ADAPTER
<b>CM1</b> 100W-150W CLAMP MOUNT BRACKET
<b>CM2</b> 200W-240W CLAMP MOUNT BRACKET

