

- Multi-purpose industrial fittings - Ideal for application in workshops, warehouses, sheds & factories, with optional smart controls
- Ingress & impact resistant - Progressive, 75W modular light-engine design featuring long-life SMDs
- CE, RoHS, ETL international product marks
- The most competitive, high-end solution for projects worldwide



## ***Forsyth 2B Series***

# ***Multi-Purpose High Bays & Floodlights***

CDN:SPEC197REV4

## Technical Specifications Summary



### Performance Summary:

Code (Series-Wattage/Size)	FOR2B-75	FOR2B-100	FOR2B-150	FOR2B-200	FOR2B-240	FOR2B-300	FOR2B-450
Nominal Power	75W	100W	150W	200W	240W	300W	450W
Luminaire Efficacy @ CRI>70, 4000K/5000K CCT	137lm/W	154lm/W	140lm/W	145lm/W	137lm/W	140lm/W	140lm/W
Lumen Output @ CRI>70, 4000K/5000K CCT	10,275lm	15,400lm	21,000lm	29,000lm	32,880lm	42,000	63,000
Lumen Maintenance (TM21 Calculated)	L70B50 ≥100,000 hours @ 25°C Ambient						
Certification	CE, RoHS, ETL						
Product Warranty	5 Years						

### Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Philips Lumileds
Chip Efficacy @ CRI>70, 5000K CCT	169lm/W @ 122mA, 25°C
Light Emission	Direct
CCT	5000K, (3000K, 4000K, 6000K)
CRI	≥70Ra, (≥80Ra optional)
SDCM	≤5
Diffusers	Clear
Symmetric Light Distribution	25°, 30°, 60°, 90°, 110° (Standard), 140°
Asymmetric Light Distribution	A1 (30°x100°), A2 (60°x100°), 2S, 2M, 3S, 3M, 4S

### Electrical Parameters:

System Operating Power	75W	100W	150W	200W	240W	300W	450W
Driver Brand	Meanwell (Inventronics DALI-dimming optional)						
Driver Model	XLG-75	HLG-150	HLG-240	HLG-150			
Typical Driver Lifetime	100,000 hours @Ta 25°C						
Input Voltage	220-240VAC						
Input Frequency	50-60Hz						
Qty of Drivers per Light	1					2	3
Power Factor	>0.95						
THD	<15% (220-240VAC)						
Insulation Class	Class I						
Surge Protection/Fusing	4kV L-L, 6kV L-E	2kV line-line, 4kV line-earth					

### Environmental Parameters:

IP Rating	IP66
IK Rating	IK10
Ambient Usage Tolerance	-30°C to 45°C
Ambient Storage Tolerance	-40°C to 80°C
Driver automatic turn-off temperature	90°C Tc - Driver Powers OFF to protect the LED Load
Ambient Humidity Tolerance	15% to 95% RH



Technical Specifications Summary

Code (Series-Wattage/Size)	FOR2B-75	FOR2B-100	FOR2B-150	FOR2B-200	FOR2B-240	FOR2B-300	FOR2B-450
Physical/Mechanical Parameters:							
Product Dimensions: LxWxH (mm)	214 x 365 x 224	330 x 365 x 224	330 x 365 x 224	435 x 365 x 224	435 x 365 x 224	540 x 365 x 224	750 x 365 x 224
Qty of Modules	1	2	2	3	3	4	6
Electrical Connection	1000mm 3-Core Cable						
Fixture Weight²	5.4kg	6.4kg	6.4kg	7.7kg	7.7kg	9.1kg	14.9kg
Fixture Primary Material(s)	Aluminium Alloy and Stainless Steel Fixings						
Fixture Finish	Painted						
Lens(es) Materials	UV Stabilised Polycarbonate						
Dimming/Controls Parameters:							
Dimming Options	1-10V, DALI						
Built-In Controls	Photocell, PIR Sensor						
Compatible intelligent lighting systems	Wireless Controls and Monitoring, Photocell						
Options/Accessories:							
Mounting Styles	Universal Bracket (optional 180° rotation), Slip Fit, Twin Surface Mount Brackets, Eye Bolt, Twin Eye Bolts						
Miscellaneous Accessories	Wire Grill, Corrosion Resistant Finish, IP68 13A In-Line Connector, Photocell, PIR Sensor, Microwave Sensor						
Available Product Colours	Black (RAL 9017), Grey (RAL 7045)						

<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. 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



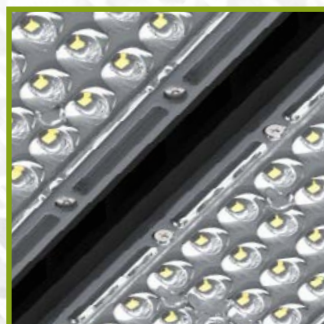
### Multiple Mounting Options

Universal bracket, universal bracket with 360° rotation, slip fit, twin surface mount brackets, eye bolt and twin eye bolts available



### Standalone Integrated Controls

Occupancy, multi-step dimming, & daylight harvesting systems available - Refer to series ordering codes for options



### Flexible Optics

Racking-specific, open-area, street lighting & floodlight dispersion patterns available



### IP68 Barrel Connector

Temperature-resistant, 13A, TUV-rated, ingress-resistant connector with optional length of three core flex



### Thermal Specialist

Product application in high ambient temperatures possible through chassis & heat sink upgrades - See Parker Series



### Stainless Steel Components

Exposed metal fixtures are fabricated from 304 stainless steel



### WAGO Connectors

Internal connections use premium WAGO connectors for reliability



### Safety Wire & Carabiner

Additional safety-feature



### Fitting Colouration

Fittings supplied with grey surface finish as standard. Black and other custom colours available subject to MOQs (typically >100 units)



### Integrated Photocell

Integrated dusk-til-down photocells available for high mast and flood lighting applications



### DALI / 1-10V

Intelligent operation compatibility - dimming, photocells, occupancy...

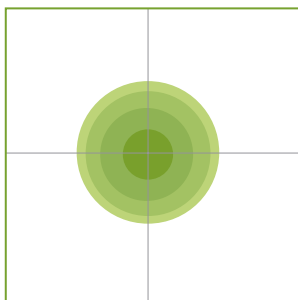


Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

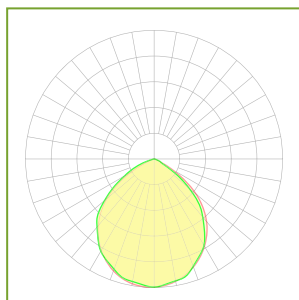
## Indicative Product Photometry

90° Optic

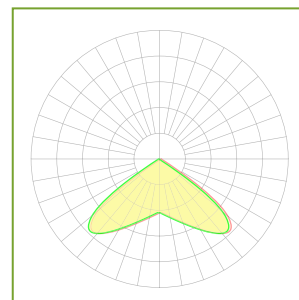
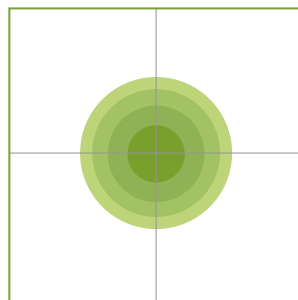
ISOLUX DIAGRAM



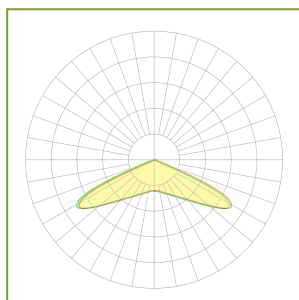
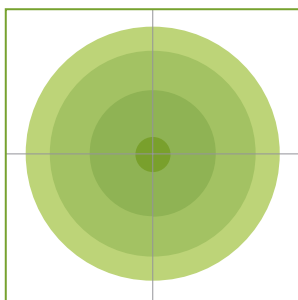
POLAR DIAGRAM



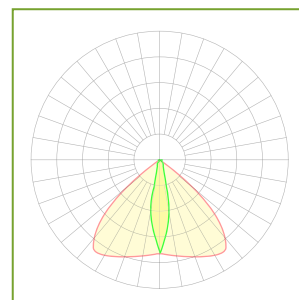
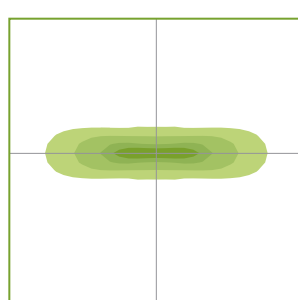
110° Optic



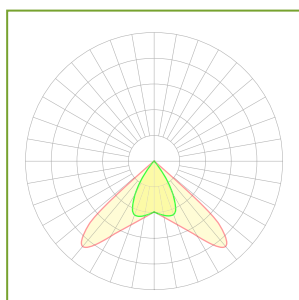
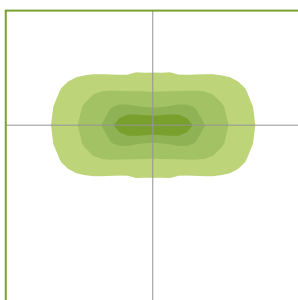
140° Optic



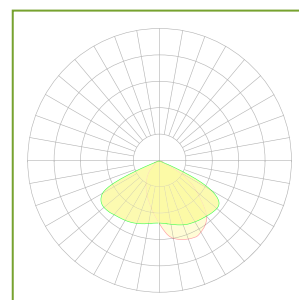
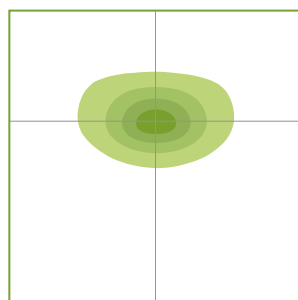
A1 Optic



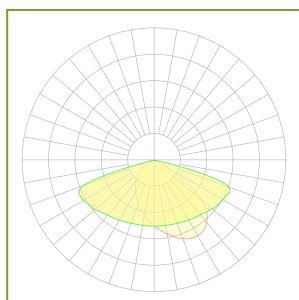
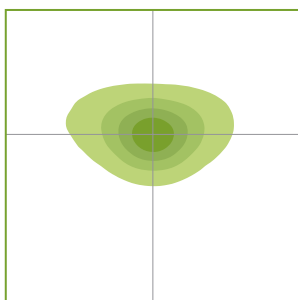
A2 Optic



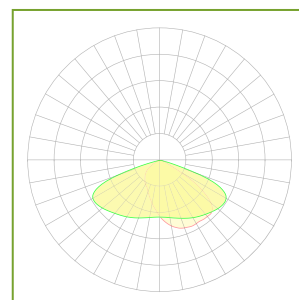
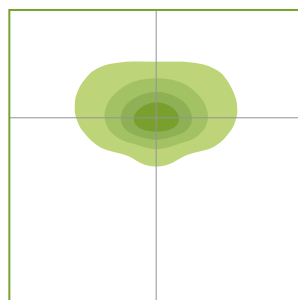
IESNA Type 2S (70° x 130°)



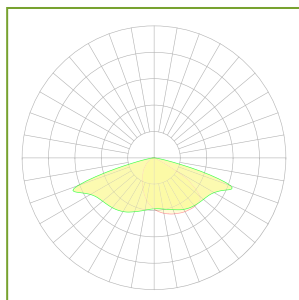
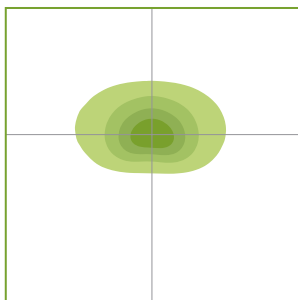
IESNA Type 2M (80° x 150°)



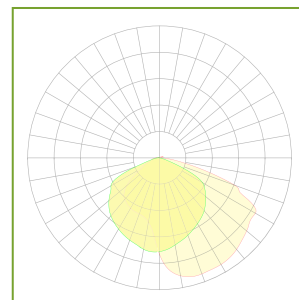
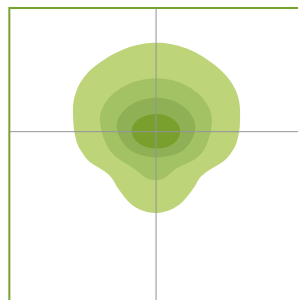
IESNA Type 3S (80° x 145°)



IESNA Type 3M (80° x 150°)



IESNA Type 4S (85° x 125°)



Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

Standard product code fields are presented as:  
Further customisation may be available - please contact us if required

CODE  
Description

830  
CRI>80, 3000K

< Product Ordering Codes

PRODUCT	POWER	CRI & CCT	OPTIC	DRIVER	MOUNTING	COLOUR	MODIFICATIONS
FOR2B	75 75W	730 CRI >70, 3000K	25 25° CIRCULAR	D1 NON-DIM	UB <sup>1</sup> UNIVERSAL BRACKET	GR GREY (RAL 7045)	PH1 PHOTOCELL
	100 100W	740 CRI >70, 4000K	30 30° CIRCULAR	D2 1-10V	UE UNIVERSAL BRACKET (180° ROTATION)	BL BLACK (RAL 9017)	M1 MICROWAVE SENSOR 1
	150 150W	750 CRI >70, 5000K	60 60° CIRCULAR	D3 DALI	UO OFFSET UNIVERSAL BRACKET	GR2 GREY - CORROSION RESISTANT (RAL 7045)	M2 MICROWAVE SENSOR (REMOTE CONTROL)
	200 200W	760 CRI >70, 6000K	90 90° CIRCULAR		SF SLIP FIT	BL2 BLACK - CORROSION RESISTANT (RAL 9017)	P1 PIR SENSOR 1
	240 240W	840 CRI >80, 4000K	110 110° CIRCULAR		TM TWIN SURFACE MOUNT BRACKETS		UM COMPATIBLE WITH UMBILICAL EMERGENCY MODULE
	300 300W	850 CRI >80, 5000K	140 140° CIRCULAR		EB EYE BOLT		WG WIRE GRILL
	450 450W	860 CRI >80, 6000K	A1 30X100° RECTANGULAR		TE TWIN EYE BOLTS		
			A2 60X100° RECTANGULAR				
			2S IESNA TYPE II SHORT				
			2M IESNA TYPE II MEDIUM				
			3S IESNA TYPE III SHORT				
			3M IESNA TYPE III MEDIUM				
			4S IESNA TYPE IV SHORT				

<sup>1</sup> Universal Bracket (mounting code "UB") has restricted rotations when mounted on a solid surface: 100W=±60°, 150W = ±45°, and 200W = ±20°. 300W, and 450W not available with UB mount. Specify the Extended Universal Bracket (mounting code "UE") to allow for unrestricted rotation, e.g. wall mounting while facing directly at the ground.

Product Ordering Code Examples:  
FOR2B-100-750-110-D1-UB-GR  
FOR2B-200-760-A1-D2-UB-GR-M2-WG

DRIVER MANUFACTURER			
POWER	D1	D2	D3
75 75W	Mean Well	Mean Well	Inventronics
100 100W	Mean Well	Mean Well	Inventronics
150 150W	Mean Well	Mean Well	Inventronics
200 200W	Mean Well	Mean Well	Inventronics
240 240W	Mean Well	Mean Well	Inventronics
300 300W	Mean Well	Mean Well	Inventronics
450 450W	Mean Well	Mean Well	Inventronics

ACCESSORIES
JB1 IP68 13A IN-LINE CONNECTOR
JB1-(LENGTH IN METRES) IP68 13A IN-LINE CONNECTOR WITH CABLE TO REQUESTED LENGTH

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS