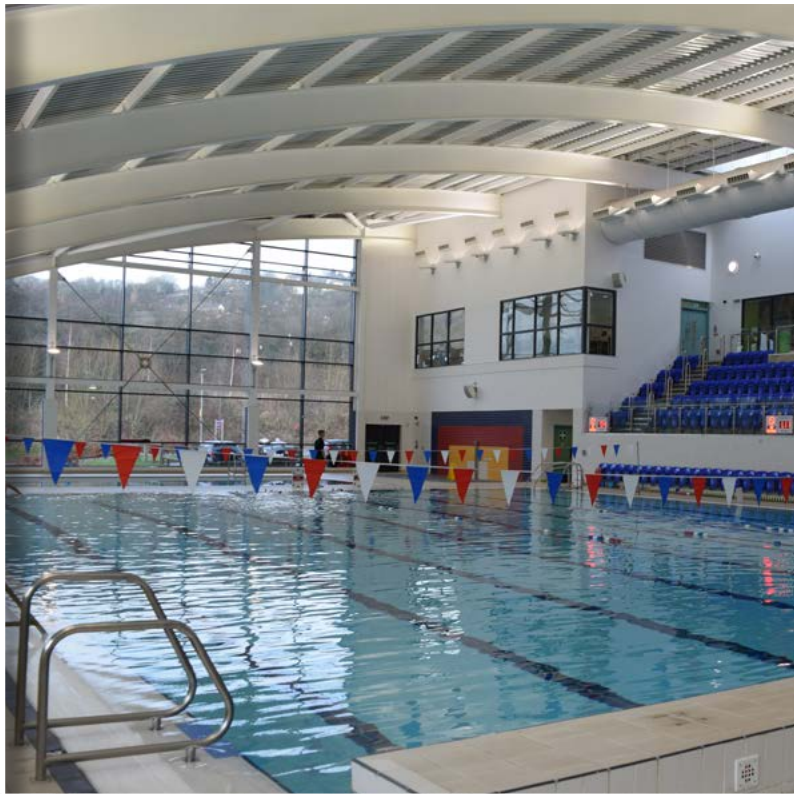


Versatile & technically advanced LED floodlighting & high bay hardware - Configurable for nearly any external or internal, industrial environment, including marine, urban, municipal, transport, & logistics zones

40W-480W series power range -  
Impact, ingress, corrosion, & vibration resistance as standard - 5,000 hour  
Salt-spray test approved - >150lm/W family efficacy - 15+ general-purpose & task-specific optic variants - Advanced colour rendering capabilities available - Integrated, standalone, & wireless network, intelligent control options available

CE, RoHS, DLC, UL, & CUL international product marks

## *McFarlane 5 Series* *Floodlights & High Bays*



CDN:SPEC242REV0

# Technical Specifications Summary



## Performance Summary:

Code (Series-Wattage/Size)	MCF5A (40W Modules)							MCF5B (60W Modules)						
Nominal Power	40W	80W	120W	160W	200W	240W	320W	60W	120W	180W	240W	300W	360W	480W
System Operating Power	40W	80W	115W	150W	190W	230W	300W	60W	120W	175W	230W	290W	350W	460W
Luminaire Efficacy @ CRI>70, 5000K CCT	150lm/w							135lm/W						
Lumen Output @ CRI>70, 5000K CCT	6,000	12,000	17,250	22,500	28,500	34,500	45,000	8,100	16,200	23,625	31,050	39,150	47,250	62,100
Lumen Maintenance (TM21 Calculated)								L70B10 ≥200,000 hours L90B10 ≥60,000 hours						
Certification								CE, RoHS, DLC, UL, CUL						
Product Warranty								10 Years						

## Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Nichia 3535 219F
Light Emission	Direct
CCT	5000K, (3000K, 4000K, 5700K)
CRI	≥70, (≥80, ≥90 optional)
Diffusers	Clear, Diffused
Symmetric Light Distribution	10°, 20°, 40°, 60°, 90°, 120°, 150°
Asymmetric Light Distribution	IESNA Type 1S, 2S, 3S, 3M, 3L, 4S, 4VS, 4M
Optical Accessories	Backspill Guard

## Electrical Parameters:

System Operating Power	40W	80W	115W	150W	190W	230W	300W	60W	120W	175W	230W	290W	350W	460W
Driver Brand	Inventronics													
Driver Model	EUM075	EUM150	EUM240	EUM240 + EUM075	EUM075	EUM150	EUM240	EUM240 + EUM075	EUM240	EUM240 + EUM075	EUM240	EUM240 + EUM075	EUM240	EUM240 + EUM075
Input Voltage	100-277VAC													
Input Frequency	50-60Hz													
Power Factor	>0.9													
THD	<20%													
Insulation Class	Class I													
Surge Protection/Fusing	10kA													

## Environmental Parameters:

IP Rating	IP66
IK Rating	IK10
Ambient Usage Tolerance	-40°C to 50°C
Ambient Storage Tolerance	-40°C to 50°C

## Physical/Mechanical Parameters:

Product Dimensions: LxWxH (mm)	305 x 334 x 118	368 x 334 x 118	430 x 334 x 118	493 x 334 x 118	555 x 334 x 118	618 x 334 x 118	805 x 334 x 118	305 x 334 x 118	368 x 334 x 118	430 x 334 x 118	493 x 334 x 118	618 x 334 x 118	680 x 334 x 118	805 x 334 x 118
Qty of Modules	1	2	3	4	5	6	8	1	2	3	4	5	6	8
Fixture Weight <sup>2</sup>	5.4kg	6.1kg	6.7kg	7.7kg	8.5kg	9.1kg	11.5kg	5.5kg	6.2kg	6.9kg	7.9kg	9.5kg	10.2kg	12.2kg
Fixture Primary Material(s)	Aluminium Alloy													
Fixture Finish	AkzoNobel Powder Coated (Marine Grade Available)													
Lens(es) Materials	UV Stabilised Polycarbonate													

## Technical Specifications Summary

Code (Series-Wattage/Size)	MCF5A							MCF5B						
	40W	80W	115W	150W	190W	230W	300W	60W	120W	175W	230W	290W	350W	460W
<b>Dimming/Controls Parameters:</b>														
<b>Dimming Options</b>	1-10V, DALI2 D4I													
<b>Built-in Controls</b>	Photocell, NEMA Socket, and Zhaga Book 18 Node													
<b>Compatible intelligent lighting systems</b>	Wireless Controls and Monitoring													
<b>Options/Accessories:</b>														
<b>Mounting Styles</b>	Universal Bracket, Surface Mount Bracket, Wall Mount													
<b>Miscellaneous Accessories</b>	Bird Spikes, Safety Cable													
<b>Available Product Colours</b>	Grey (RAL 7004), Black (RAL 9001), White (RAL 9011), Customised (Including Green, Orange, Blue)													

<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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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	MODIFICATIONS
<b>MCF5A</b> 40W MODULES	<b>40</b> 40W	<b>730</b> CRI >70, 3000K	<b>1S</b> IESNA TYPE I SHORT	<b>D1</b> NON-DIM	<b>UB</b> UNIVERSAL BRACKET	<b>GR</b> GREY	<b>BG</b> BACKSPILL GUARD
	<b>80</b> 80W	<b>740</b> CRI >70, 4000K	<b>2S</b> IESNA TYPE II SHORT	<b>D2</b> 1-10V	<b>SM</b> SURFACE MOUNT BRACKET	<b>BL</b> BLACK	<b>E3R1</b> INTEGRATED 3 HOUR MAINTAINED EMERGENCY (REMOTE TEST)
	<b>115</b> 115W	<b>750</b> CRI >70, 5000K	<b>3S</b> IESNA TYPE III SHORT	<b>D3</b> DALI2 D4I	<b>WM</b> WALL MOUNT BRACKET	<b>WH</b> WHITE	<b>Z1<sup>2</sup></b> ZHAGA BOOK 18 SOCKET
	<b>150</b> 150W	<b>757</b> CRI >70, 5700K	<b>3M</b> IESNA TYPE III MEDIUM			<b>GR2<sup>1</sup></b> GREY - MARINE GRADE	
	<b>190</b> 190W	<b>830</b> CRI >80, 3000K	<b>4S</b> IESNA TYPE IV SHORT			<b>BL2<sup>1</sup></b> BLACK - MARINE GRADE	
	<b>230</b> 230W	<b>840</b> CRI >80, 4000K	<b>4M</b> IESNA TYPE IV MEDIUM			<b>WH2<sup>1</sup></b> WHITE - MARINE GRADE	
	<b>300</b> 300W	<b>850</b> CRI >80, 5000K	<b>4VS</b> IESNA TYPE IV VERY SHORT				
<b>MCF5B</b> 60W MODULES	<b>60</b> 60W	<b>857</b> CRI >80, 5700K	<b>10</b> 10° CIRCULAR				
	<b>120</b> 120W	<b>930</b> CRI >90, 3000K	<b>20</b> 20° CIRCULAR				
	<b>175</b> 175W	<b>940</b> CRI >90, 4000K	<b>40</b> 40° CIRCULAR				
	<b>230</b> 230W	<b>950</b> CRI >90, 5000K	<b>60</b> 60° CIRCULAR				
	<b>290</b> 290W	<b>957</b> CRI >90, 5700K	<b>90</b> 90° CIRCULAR				
	<b>350</b> 350W		<b>120</b> 120° CIRCULAR				
	<b>460</b> 460W		<b>150</b> 150° CIRCULAR				

### Product Ordering Code Examples:

**MCF5A-230-750-120-D1-UB-GR**

**MCF5B-350-857-3M-D3-SM-GR-BG**

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

DRIVER MANUFACTURER			
POWER	D1	D2	D3
<b>MCF5A-40</b> 40W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5A-80</b> 80W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5A-115</b> 115W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5A-150</b> 150W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5A-190</b> 190W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5A-230</b> 230W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5A-300</b> 300W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5B-60</b> 60W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5B-120</b> 120W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5B-175</b> 175W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5B-230</b> 230W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5B-290</b> 290W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5B-350</b> 350W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>
<b>MCF5B-450</b> 450W	<b>Inventronics</b>	<b>Inventronics</b>	<b>Inventronics</b>

<sup>1</sup> Upgraded AkzoNobel polyester powder coat for increased salt corrosion resistance.  
<sup>2</sup> Supplied as standard with DALI connections only.

### GENERAL NOTES:

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

### ACCESSORIES

#### JB1

IP68 13A IN-LINE CONNECTOR

#### JB1-(LENGTH IN METRES)

IP68 13A IN-LINE CONNECTOR WITH CABLE TO REQUESTED LENGTH

#### MCF-BS

BIRD SPIKES

#### MCF-SF

SAFETY CABLE