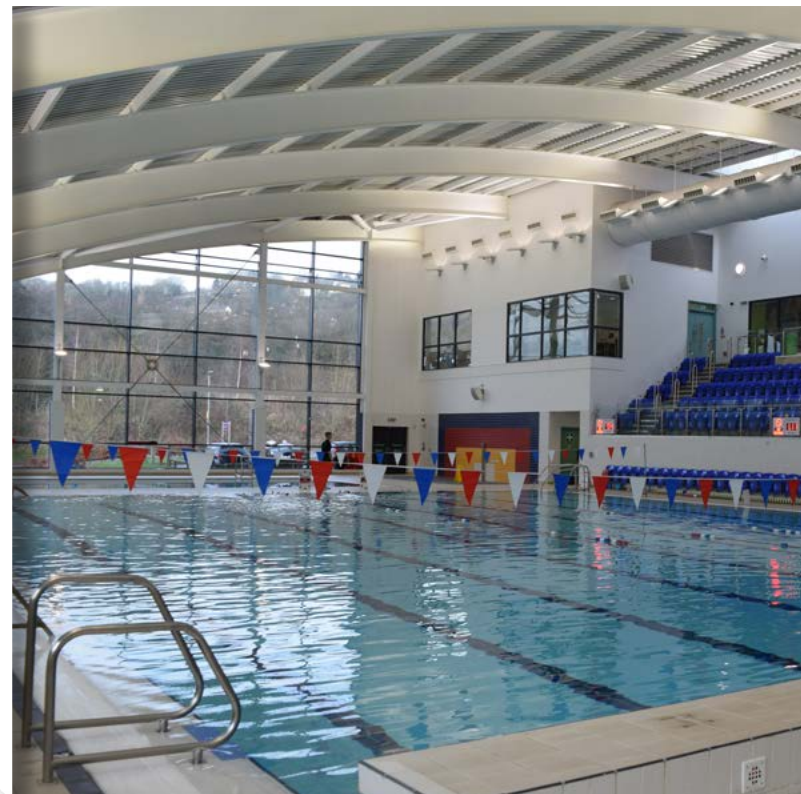


Versatile & technically advanced LED floodlighting & high bay hardware - Configurable for nearly any external or internal, industrial environment, including marine, urban, municipal, transport, & logistics zones

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, 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
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 ²	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
Dimming/Controls Parameters:														
Dimming Options	1-10V, DALI2 D4I													
Built-in Controls	Photocell, NEMA Socket, and Zhaga Book 18 Node													
Compatible intelligent lighting systems	Wireless Controls and Monitoring													
Options/Accessories:														
Mounting Styles	Universal Bracket, Surface Mount Bracket, Wall Mount													
Miscellaneous Accessories	Bird Spikes, Safety Cable													
Available Product Colours	Grey (RAL 7004), Black (RAL 9001), White (RAL 9011), Customised (Including Green, Orange, Blue)													

¹ Electrical Parameter data is for D1 drivers, unless otherwise stated
² 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.

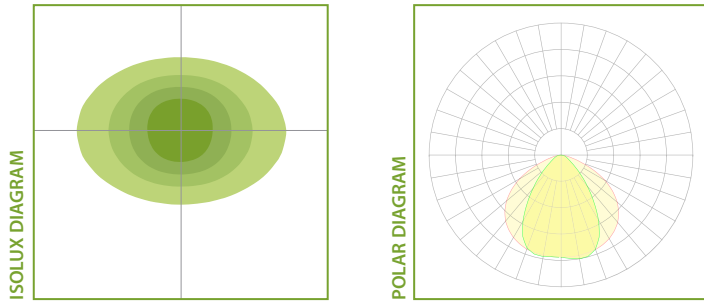
This datasheet & corresponding certification should be reviewed by a competent person to ensure project suitability.

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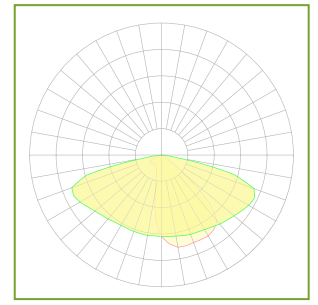
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

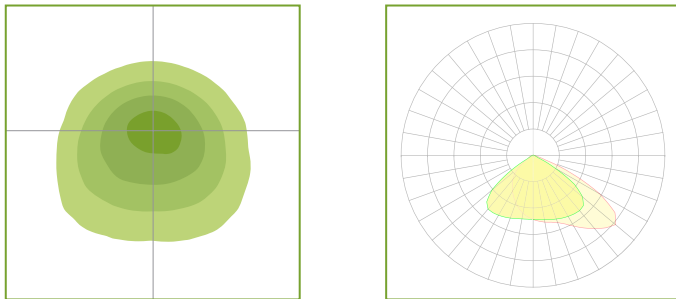
IESNA Type 1 Short ▶▶



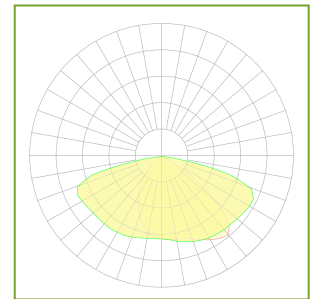
◀◀ IESNA Type 2 Short



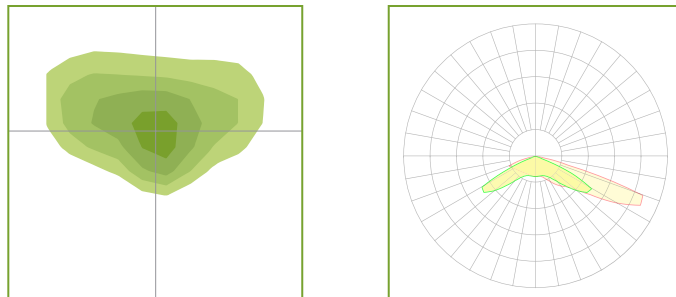
IESNA Type 3 Short ▶▶



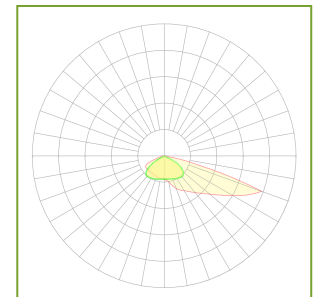
◀◀ IESNA Type 3 Medium



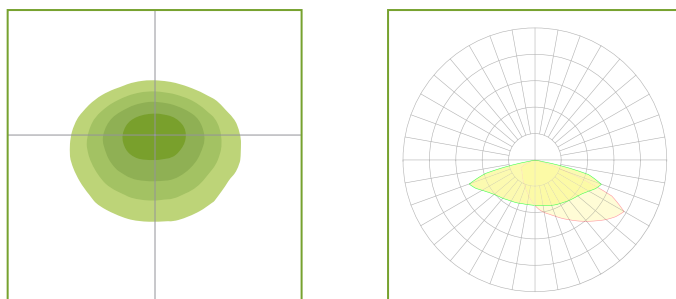
IESNA Type 4 Short ▶▶



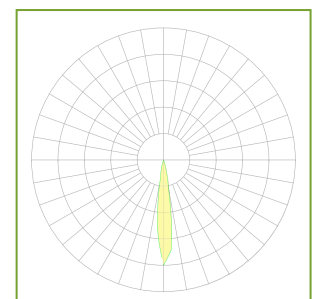
◀◀ IESNA Type 4 Very Short



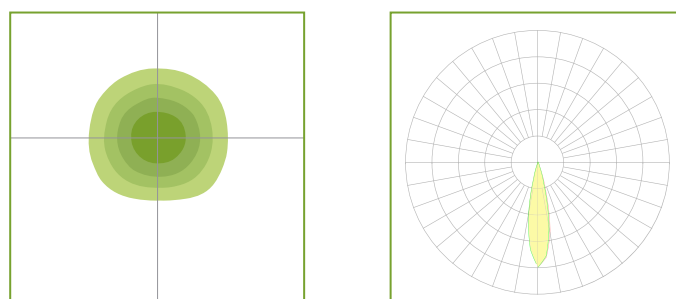
IESNA Type 4 Medium ▶▶



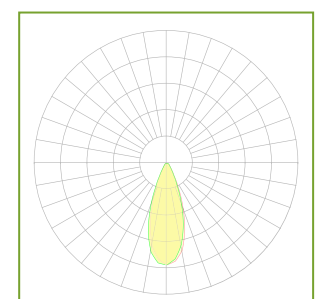
◀◀ 10° Optic



20° Optic ▶▶



◀◀ 40° Optic

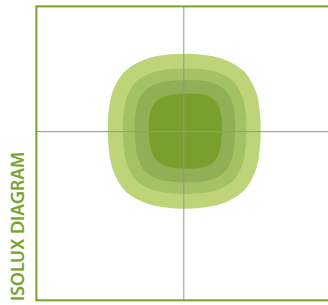


Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

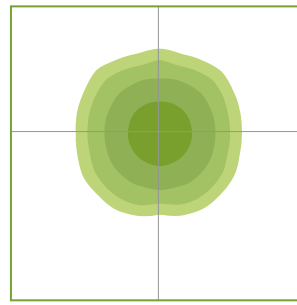
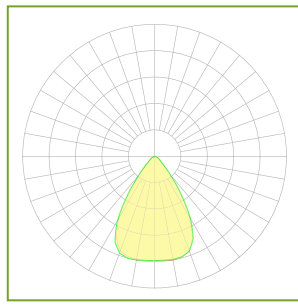
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

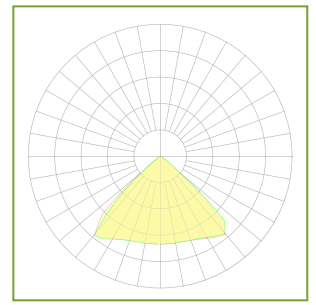
60° Optic



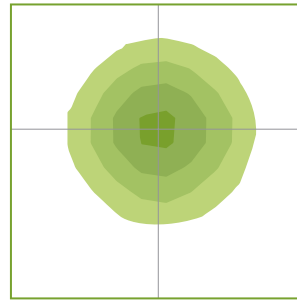
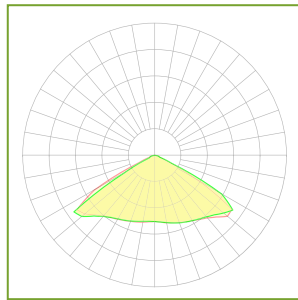
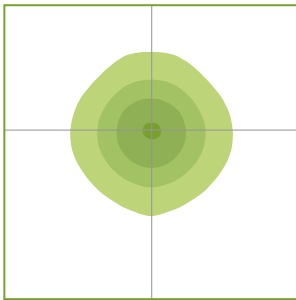
POLAR DIAGRAM



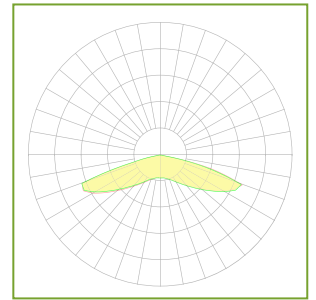
90° Optic



120° Optic



150° Optic





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
MCF5A 40W MODULES	40 40W	730 CRI >70, 3000K	1S IESNA TYPE I SHORT	D1 NON-DIM	UB UNIVERSAL BRACKET	GR GREY	BG BACKSPILL GUARD
	80 80W	740 CRI >70, 4000K	2S IESNA TYPE II SHORT	D2 1-10V	SM SURFACE MOUNT BRACKET	BL BLACK	E3R1 INTEGRATED 3 HOUR MAINTAINED EMERGENCY (REMOTE TEST)
	115 115W	750 CRI >70, 5000K	3S IESNA TYPE III SHORT	D3 DALI2 D4I	WM WALL MOUNT BRACKET	WH WHITE	Z1 ² ZHAGA BUCK 18 SOCKET
	150 150W	757 CRI >70, 5700K	3M IESNA TYPE III MEDIUM			GR2 ¹ GREY - MARINE GRADE	
	190 190W	830 CRI >80, 3000K	4S IESNA TYPE IV SHORT			BL2 ¹ BLACK - MARINE GRADE	
	230 230W	840 CRI >80, 4000K	4M IESNA TYPE IV MEDIUM			WH2 ¹ WHITE - MARINE GRADE	
	300 300W	850 CRI >80, 5000K	4VS IESNA TYPE IV VERY SHORT				
MCF5B 60W MODULES	60 60W	857 CRI >80, 5700K	10 10° CIRCULAR				
	120 120W	930 CRI >90, 3000K	20 20° CIRCULAR				
	175 175W	940 CRI >90, 4000K	40 40° CIRCULAR				
	230 230W	950 CRI >90, 5000K	60 60° CIRCULAR				
	290 290W	957 CRI >90, 5700K	90 90° CIRCULAR				
	350 350W		120 120° CIRCULAR				
	460 460W		150 150° 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
MCF5A-40 40W	Inventronics	Inventronics	Inventronics
MCF5A-80 80W	Inventronics	Inventronics	Inventronics
MCF5A-115 115W	Inventronics	Inventronics	Inventronics
MCF5A-150 150W	Inventronics	Inventronics	Inventronics
MCF5A-190 190W	Inventronics	Inventronics	Inventronics
MCF5A-230 230W	Inventronics	Inventronics	Inventronics
MCF5A-300 300W	Inventronics	Inventronics	Inventronics
MCF5B-60 60W	Inventronics	Inventronics	Inventronics
MCF5B-120 120W	Inventronics	Inventronics	Inventronics
MCF5B-175 175W	Inventronics	Inventronics	Inventronics
MCF5B-230 230W	Inventronics	Inventronics	Inventronics
MCF5B-290 290W	Inventronics	Inventronics	Inventronics
MCF5B-350 350W	Inventronics	Inventronics	Inventronics
MCF5B-450 450W	Inventronics	Inventronics	Inventronics

¹ Upgraded AkzoNobel polyester powder coat for increased salt corrosion resistance.

² Supplied as standard with DALI connections only.

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

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