



Advanced industrial lighting hardware, developed for application in marine, municipal, transport, logistics zones, or largescale internal projects

460W-920W series range - Impact, ingress, optional marine-grade corrosion, & vibration resistance as standard - >136lm/W family efficacy, - 15+ general purpose & task-specific optics - Advanced colour rendering capabilities - Integrated, standalone, & wireless network intelligent control options

CE, RoHS, DLC, UL, CB, international product marks



Ayrton 5 Series *Mast, Tower, & High Bay Light*

CDN:SPEC246REV0

Technical Specifications Summary



Performance Summary:

Code (Series-Wattage/Size)	AYR5B-680	AYR5B-915	AYR5C-915	AYR5C-1360	AYR5C-1860
Nominal Power	720W	960W	960W	1440W	1920W
System Operating Power	680W	915W	915W	1360W	1860W
Luminaire Efficacy @ CRI>70, 5000K CCT	136lm/W	135lm/W	120lm/W	121lm/W	118lm/W
Lumen Output @ CRI>70, 5000K CCT	92,480lm	123,525lm	109,800lm	164,560lm	219,480lm
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 optional)
CRI	≥70, ≥80
SDCM	≤5
Diffusers	Clear, (Frosted optional)
Symmetric Light Distribution	10°, 20°, 40°, 60°, 90°, 120°, 150°
Asymmetric Light Distribution	IESNA Type 1S, 1M, 2S, 3S, 3M, 4S, 4VS, 4M
Optical Accessories	Backspill Guard

Electrical Parameters¹:

System Operating Power	680W	915W	915W	1360W	1860W
Driver Brand	Inventronics				
Driver Model	SUM1K0		SUM1K5		2 x SUM1K0
Input Voltage	100-277VAC				
Input Frequency	50-60Hz				
Qty of Drivers per Light	1				
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)	700 x 608 x 114	825 x 608 x 114	700 x 608 x 114	888 x 608 x 114	1200 x 608 x 114
Qty of Modules	6	8	6	9	12
Electrical Connection	800mm cable				
Fixture Weight ²	16.80kg	19.90kg	17.40kg	21.60kg	29.60kg
Fixture Primary Material(s)	Aluminium Alloy and Stainless Steel Fasteners				
Fixture Finish	AzkoNobel Powder Coat (Marine-Grade Available)				
Lens(es) Materials	UV Stabilised Polycarbonate				

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Dimming/Controls Parameters:					
Dimming Options	1-10V, DALI, 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				
Available Product Colours	Grey (RAL 7004), Black (RAL 9011), White (RAL 9010), 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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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
AYR5B 120W MODULES	680 680W	730 CRI >70, 3000K	1S IESNA TYPE I SHORT	D1 NON-DIM	UB UNIVERSAL BRACKET	GR GREY	PH1 PHOTOCELL
	915 915W	740 CRI >70, 4000K	2S IESNA TYPE II SHORT	D2 1-10V	SM SURFACE MOUNT BRACKET	BL BLACK	BG BACKSPILL GUARD
AYR5C 160W MODULES	915 915W	750 CRI >70, 5000K	3S IESNA TYPE III SHORT	D3 DALI2 D4I	WM WALL MOUNT BRACKET	WH WHITE	E3R1 INTEGRATED 3 HOUR MAINTAINED EMERGENCY (REMOTE TEST)
	1360 1360W	757 CRI >70, 5700K	3M IESNA TYPE III MEDIUM			GR2¹ GREY - MARINE GRADE	
	1860 1860W	830 CRI >80, 3000K	4S IESNA TYPE IV SHORT	BL2¹ BLACK - MARINE GRADE			
		840 CRI >80, 4000K	4M IESNA TYPE IV MEDIUM	WH2¹ WHITE - MARINE GRADE			
		850 CRI >80, 5000K	4VS IESNA TYPE IV VERY SHORT				
	857 CRI >80, 5700K	10 10° CIRCULAR					
	930 CRI >90, 3000K	20 20° CIRCULAR					
	940 CRI >90, 4000K	40 40° CIRCULAR					
	950 CRI >90, 5000K	60 60° CIRCULAR					
	957 CRI >90, 5700K	90 90° CIRCULAR					
		120 120° CIRCULAR					
	150 150° CIRCULAR						

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

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

Product Ordering Code Examples:
AYR5B-680-757-120-D1-UB-GR
AYR5C-1360-850-4M-D3-UB-BL2-BG

DRIVER MANUFACTURER			
POWER	D1	D2	D3
AYR5B-680 680W	Inventronics	Inventronics	Inventronics
AYR5B-915 915W	Inventronics	Inventronics	Inventronics
AYR5C-915 915W	Inventronics	Inventronics	Inventronics
AYR5C-1360 1360W	Inventronics	Inventronics	Inventronics
AYR5C-1860 1860W	Inventronics	Inventronics	Inventronics

ACCESSORIES
JB1 IP68 13A IN-LINE CONNECTOR
JB1-(LENGTH IN METRES) IP68 13A IN-LINE CONNECTOR WITH CABLE TO REQUESTED LENGTH
AYR-BS BIRD SPIKES
AYR-SF SAFETY CABLE

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS