Advanced industrial lighting hardware, developed for application in marine, high-corrosion, logistics zones, or largescale internal projects

C5 Coating, 200 µm marine-grade powder coat; 5,000h salt spray tested.

Wind-Optimised, Aerodynamic design and optics reduce wind load on tall masts.

Durable Housing, Corrosion-resistant aluminium alloy body.

Precision optics, 30+ beam types to limit glare and spill in sensitive areas.

CE, RoHS, UL, CB, international product marks

Ayrton 5 Series
Marine Grade High Mast

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, UL, CUL				
Product Warranty	10 Years				

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Nichia 3535 219F
Light Emmission	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 Parameters[1]:

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
Marine Resistance Rating	C5
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				

Code (Series-Wattage/Size)	AYR5B-680	AYR5B-915	AYR5C-915	AYR5C-1360	AYR5C-1860
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
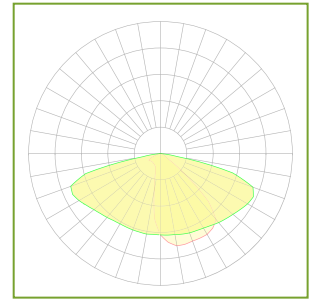
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.
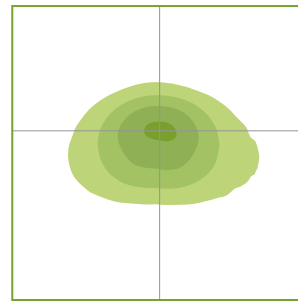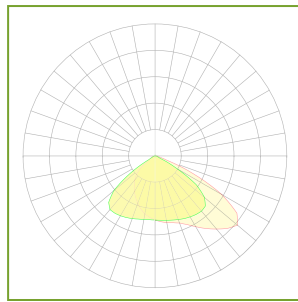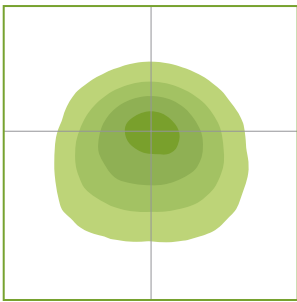
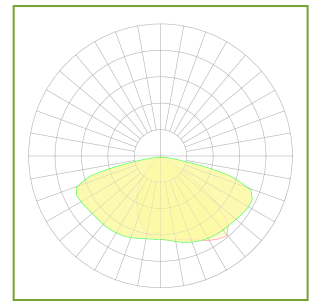## Indicative Product Photometry
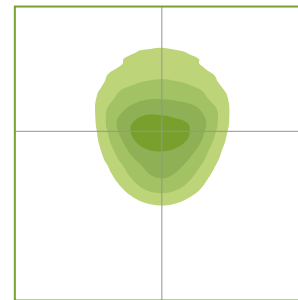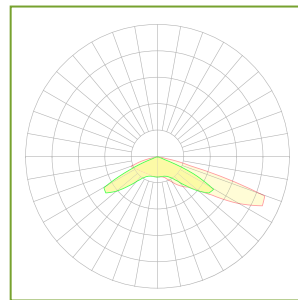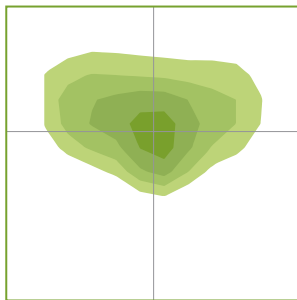
IESNA Type 1 Short

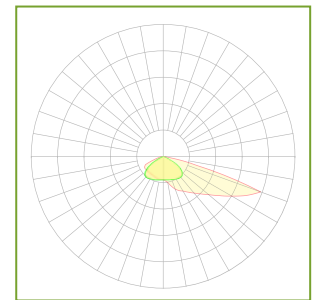ISOLUX DIAGRAM

POLAR DIAGRAM
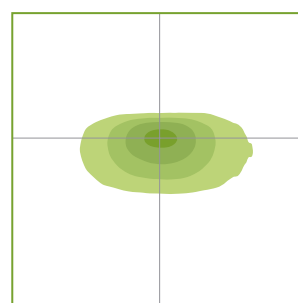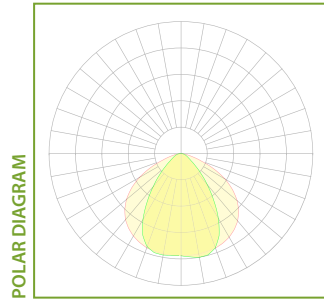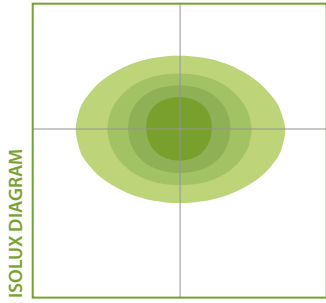
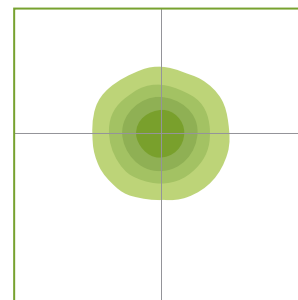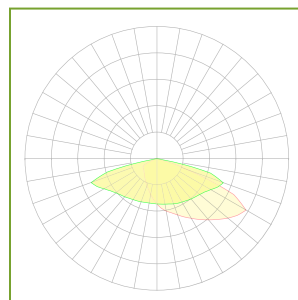### IESNA Type 2 Short

IESNA Type 3 Short

IESNA Type 3 Medium

IESNA Type 4 Short

IESNA Type 4 Very Short

IESNA Type 4 Medium
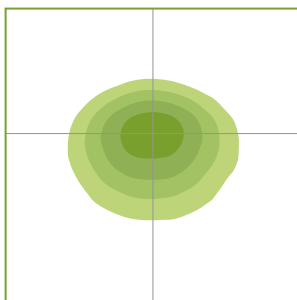
10° Optic
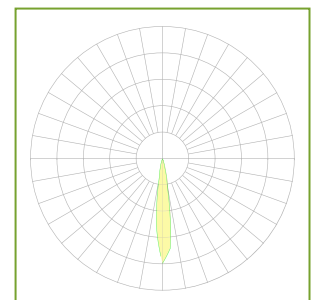
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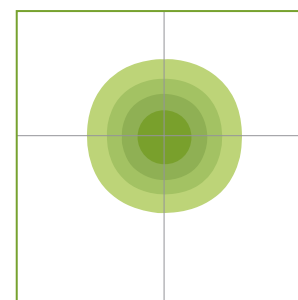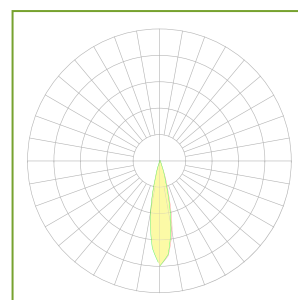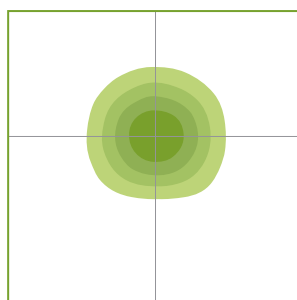
40° Optic
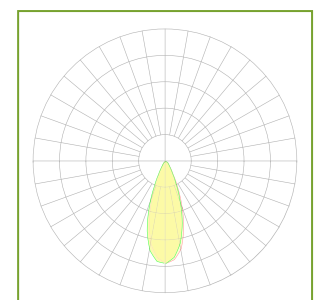
Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

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

ISOLUX DIAGRAM

POLAR DIAGRAM
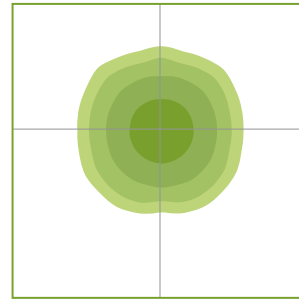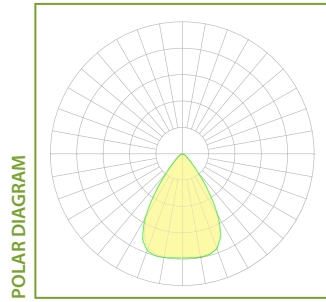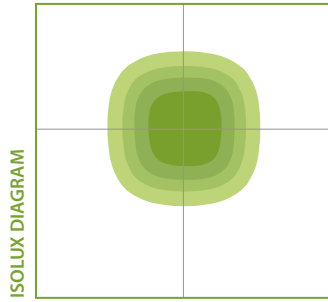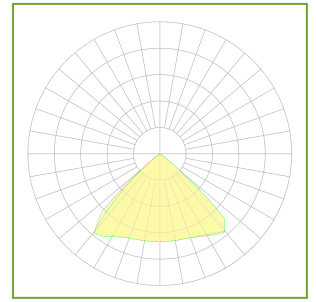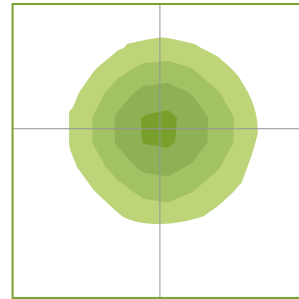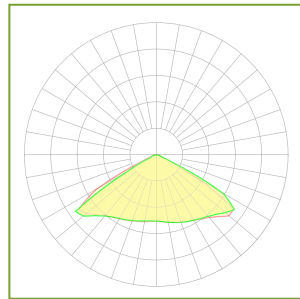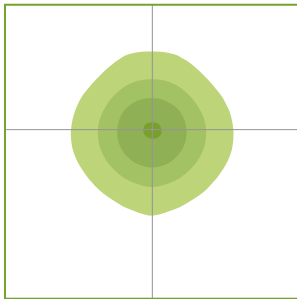
90° Optic

120° Optic

150° Optic
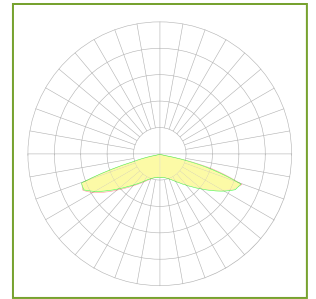
Technical Specifications Summary

Mounting Options

Universal bracket, surface mount bracket, wall mounted bracket available
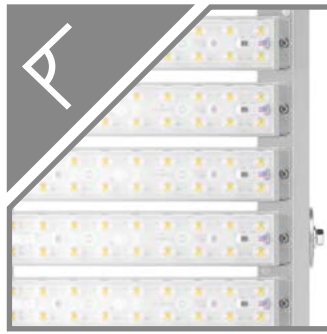
Distribution

8 varied symmetric & asymmetric optics available. Backspill guard optional
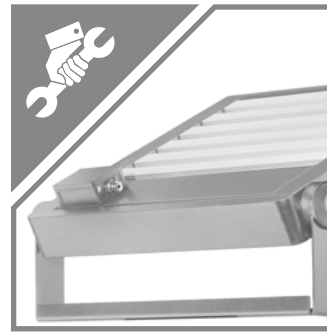
User Friendly

Terminal block enclosure covers are secured to the luminaire for easier installation & faster maintenance

Environmental Protection

IP66, corrosion resistant epoxy powder-coated finish suitable from -40ºC to 50ºC

Corrosion Protection

C5 corrosion-resistant finish, durable coating (200 μm thick) has been tested to 5,000 hours of salt spray
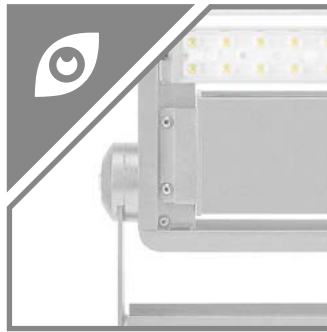
Surge Protection

Independent SPDs provides a surge protection of 20kV/10kA as per ANSI/IEEE C62.41.2-2002

Power

Wattage range of 680W to 1860W, with a lumen output of 92,000 to 226,000

Warranty

10 year product warranty provided as standard

10 Year Warranty

Unique Feature of the Ayrton 5 Series Marine Grade

Kellwood's **Ayrton 5** Marine Grade Series features advanced powder coating technology specifically engineered to meet **C5** corrosion resistance standards - the highest classification for atmospheric corrosion under **ISO 12944**. This advanced coating system ensures **long-lasting durability** and performance even in the most challenging environments, such as coastal, offshore, and industrial zones.

The series is ideally suited for continuous and direct exposure to saline and salt-laden atmospheres, providing robust protection against degradation caused by salt spray, high humidity, and harsh weather conditions. Whether used in marine infrastructure, seaside architecture, or exposed industrial installations, the Ayrton 5 Series delivers **exceptional reliability** and extended service life

Marine

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

CODE
Description

750
CRI>70, 5000K

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	**GR2**[1] GREY - MARINE GRADE - C5 RATED	**PH1** PHOTOCELL
	915 915W	**740** CRI >70, 4000K	**2S** IESNA TYPE II SHORT	**D2** 1-10V	**SM** SURFACE MOUNT BRACKET	**BL2**[1] BLACK - MARINE GRADE - C5 RATED	**BG** BACKSPILL GUARD
AYR5C 160W MODULES	**915** 915W	**750** CRI >70, 5000K	**3S** IESNA TYPE III SHORT	**D3** DALI2 D4I	**WM** WALL MOUNT BRACKET	**WH2**[1] WHITE - MARINE GRADE - C5 RATED	**E3R1** INTEGRATED 3 HOUR MAINTAINED EMERGENCY (REMOTE TEST)
	1360 1360W	**757** CRI >70, 5700K	**3M** IESNA TYPE III MEDIUM				
	1860 1860W	**830** CRI >80, 3000K	**4S** IESNA TYPE IV SHORT				
		840 CRI >80, 4000K	**4M** IESNA TYPE IV MEDIUM				
		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:
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:
AYR5B-680-757-120-D1-UB-GR2
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

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

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