



- Premium-grade street lighting for general application in municipal & industrial zones
- Optional marine-standard material finishes & vibration resistance ensure suitability within harsh environments
- CE, RoHS, CB, UL, DLC, ENEC & TUV, international product marks
- The most competitive, quality-driven solution for projects worldwide



## *Arrol 5 Series*

# *Premium Street Lights*

CDN:SPEC245REV1



## Technical Specifications Summary



## Performance Summary:

Code (Series-Wattage/Size)	AR5A (40W Modules)							AR5B (60W Modules)							
Nominal Power	40W	80W	120W	160W	200W	240W	320W	60W	120W	180W	240W	300W	360W	480W	600W
System Operating Power	40W	80W	115W	150W	190W	230W	300W	60W	120W	175W	230W	290W	350W	460W	575W
Luminaire Efficacy @ CRI>70, 5000K CCT	147	150	153	154	155	154	153	134	135	137	138	137	137	138	139
Lumen Output @ CRI>70, 5000K CCT	5,880lm to 45,900lm							8,040lm to 79,925lm							
Lumen Maintenance (TM21 Calculated)	L70B10 ≥200,000 hours L90B10 ≥60,000 hours														
Certification	CE, RoHS, CB, UL, DLC, ENEC, TUV														
Product Warranty	10 Years														

## Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Nichia 3535 NVSW219F														
Light Emission	Direct														
CCT	5000K, (3000K, 4000K, 5700K)														
CRI	≥70, (≥80 optional)														
Diffusers	Clear, (Frosted optional)														
Symmetric Light Distribution	40°, 60°, 90°, 120°, 150°														
Asymmetric Light Distribution	IESNA Type 2S, 3S, 3M, 4S, 4VS, 4M														
Optical Accessories	Backspill Guard														

## Electrical Parameters:

System Operating Power	40W	80W	120W	160W	200W	240W	320W	60W	120W	180W	240W	300W	360W	480W	600W
Driver Brand	Inventronics														
Driver Model	EUM075		EUM150		EUM240		EUM 320	EUM 075	EUM 150	EUM240		EUM 320	EUM480		EUM 680
Input Voltage	120-277VAC														
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														





Technical Specifications Summary

Code (Series-Wattage/Size)	AR5A							AR5B							
	40W	80W	115W	150W	190W	230W	300W	60W	120W	175W	230W	290W	350W	460W	575W
Physical/Mechanical Parameters:															
Product Dimensions: LxWxH (mm)	456 x 335 x 99	519 x 335 x 99	581 x 335 x 99	644 x 335 x 99	706 x 335 x 99	769 x 335 x 99	894 x 335 x 99	456 x 335 x 99	519 x 335 x 99	581 x 335 x 99	644 x 335 x 99	706 x 335 x 99	769 x 335 x 99	894 x 335 x 99	1019 x 335 x 99
Qty of Modules	1	2	3	4	5	6	8	1	2	3	4	5	6	8	10
Luminaire EPA	0.049	0.054	0.059	0.064	0.069	0.074	0.084	0.049	0.054	0.059	0.064	0.069	0.074	0.084	0.095
Electrical Connection	800mm Cable														
Fixture Weight²	6.4kg	6.8kg	7.8kg	8.4kg	9.0kg	9.6kg	11.8kg	6.1kg	6.9kg	7.9kg	8.5kg	9.8kg	11.4kg	12.9kg	14.4kg
Fixture Primary Material(s)	Aluminium Alloy														
Fixture Finish	AzkoNobel Powder Coated (Marine-Grade Available)														
Lens(es) Materials	UV Stabilised Polycarbonate														
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	Slip Fit														
Miscellaneous Accessories	Bird Spikes, Safety Cable														
Available Product Colours	Grey (RAL 7004), Black (RAL 9001), White (RAL 9011)														

<sup>1</sup> Electrical Parameter data is for D1 drivers, unless otherwise stated  
<sup>2</sup> Excludes bracketry.

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. ©2024 Kellwood Lighting Ltd. All rights reserved.



## Features Summary



### **Rotatable Spigot Mount**

Allows for post-top & side-entry mounting,  $\pm 20^\circ$  range to provide easily levelling



### **Separate Driver Compartment**

Easy access for rapid maintenance



### **NEMA Socket**

Ensures compatibility with standardised street lighting controls



### **Fitting Colouration**

Grey RAL:7004, Black RAL:9001, Bronze RAL:8014, White RAL:9010, Custom availability subject to MOQ



### **Advanced Optics**

Over 15 available light distribution patterns ensure optimum light levels



### **Optional Backspill Guard**

Minimises rear light trespass for maximum optical control



### **Stainless Steel Components**

Exposed metal fixtures are made from 304 stainless steel



### **DALI / 1-10V Dimming**

Intelligent control systems are available subject to MOQ



### **Corrosion Resistance**

Minimum 100µm, salt-spray tested, corrosion-resistance Akzo Nobel surface finish



### **Surge Protection Device**

10KA, 20KA integrated surge protection device



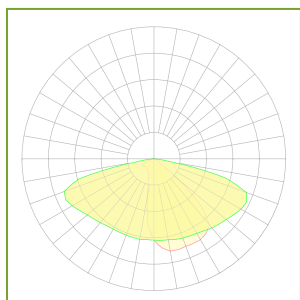
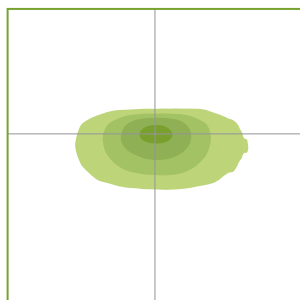
### **Bird Spikes**

Helps reduce avian nuisance

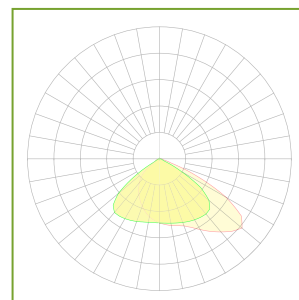
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

## Indicative Product Photometry

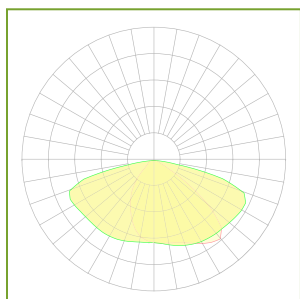
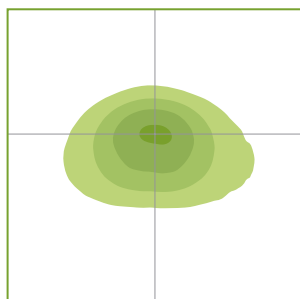
IESNA Type 2 Short ▶▶



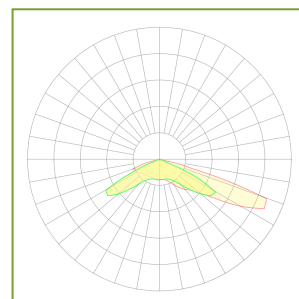
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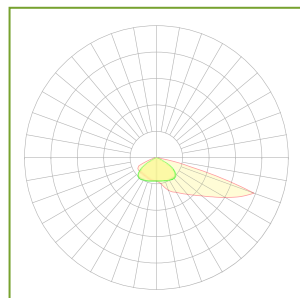
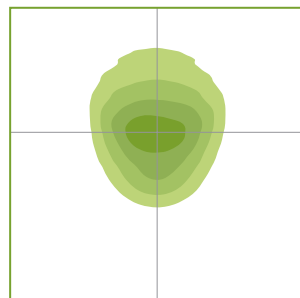
IESNA Type 3 Medium ▶▶



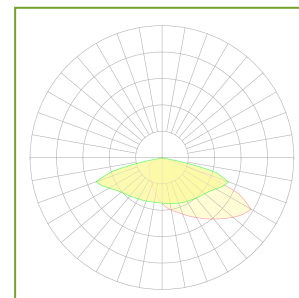
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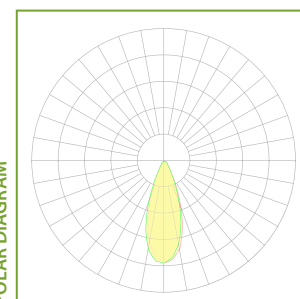
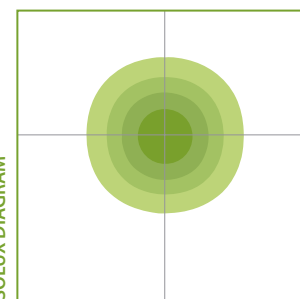
IESNA Type 4 Very Short ▶▶



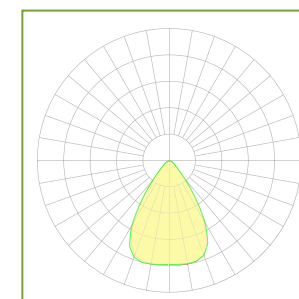
◀◀ IESNA Type 4 Medium



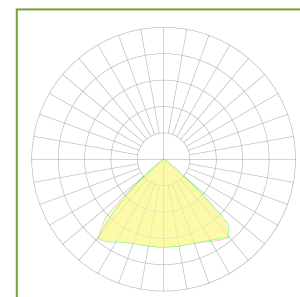
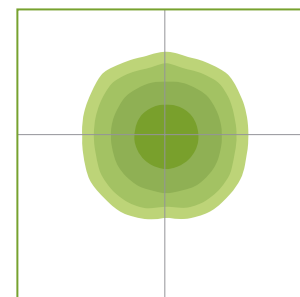
40° Optic ▶▶



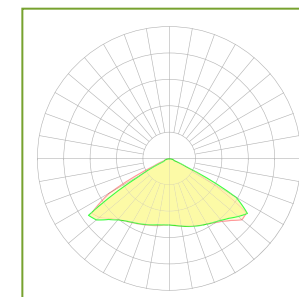
◀◀ 60° Optic



90° Optic ▶▶



◀◀ 120° Optic



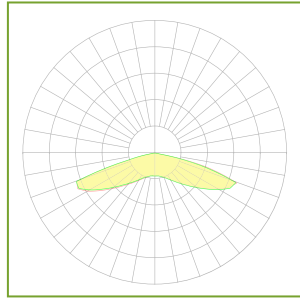
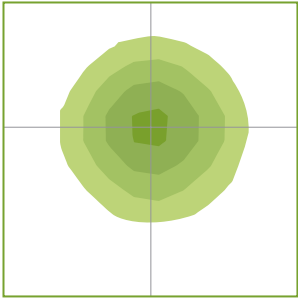
Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.



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

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	COLOUR	MODIFICATIONS
AR5A	40 40W	730 CRI >70, 3000K	2S IESNA TYPE II SHORT	D1 NON-DIM	GR GREY	PH1 PHOTOCELL
	80 80W	740 CRI >70, 4000K	3S IESNA TYPE III SHORT	D2 1-10V	BL BLACK	BG BACKSPILL GUARD
	115 115W	750 CRI >70, 5000K	3M IESNA TYPE III MEDIUM	D3 DALI2 D4I	WH WHITE	SP2 SURGE PROTECTION DEVICE (20KV)
	150 150W	757 CRI >70, 5700K	4S IESNA TYPE IV SHORT		GR2 <sup>1</sup> GREY - MARINE GRADE	Z1 <sup>2</sup> ZHAGA B00K 18 SOCKET
	190 190W	830 CRI >80, 3000K	4VS IESNA TYPE IV VERY SHORT		BL2 <sup>1</sup> BLACK - MARINE GRADE	
	230 230W	840 CRI >80, 4000K	4M IESNA TYPE IV MEDIUM		WH2 <sup>1</sup> WHITE - MARINE GRADE	
	300 300W	850 CRI >80, 5000K	40 40° CIRCULAR			
AR5B	60 60W	857 CRI >80, 5700K	60 60° CIRCULAR			
	120 120W	930 CRI >90, 3000K	90 90° CIRCULAR			
	175 175W	940 CRI >90, 4000K	120 120° CIRCULAR			
	230 230W	950 CRI >90, 5000K	150 150° CIRCULAR			
	290 290W	957 CRI >90, 5700K				
	350 350W					
	460 460W					
	575 575W					

<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

Product Ordering Code Examples:

AR4A-60-740-2M-D1-GR

AR4A-110-757-2L-D1-BL-BG-SP2

DRIVER MANUFACTURER			
POWER	D1	D2	D3
AR5A 40W to 300W	Inventronics	Inventronics	Inventronics
AR5B 60W to 575W	Inventronics	Inventronics	Inventronics

ACCESSORIES
AR5-BS BIRD SPIKES

