





- 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 4A Series Premium Street Lights

CDN:SPEC142REV6





Technical Specifications Summary











Performance Summary:	5 AR4A-280 280W				
Nominal Power 30W 60W 90W 110W 140W 170W 200W 230W 255W 125W 133Im/W 13					
Luminaire Efficacy ⊕ CRi>70, 5000K CCT Lumen Output ⊕ CRi>70, 5000K CCT Jay Sollm Ja					
Lumen Output e CRb>70, 5000K CCT Lumen Maintenance (TM21 Reported) Lumen Maintenance (TM21 Reported) Lumen Maintenance (TM21 Calculated) Certification CE, Bohs, CB, UL, DLC, ENEC, TUV Todouct Warranty SYBARS Light Source and Photometric Parameters: Chip Brand, Model, & Size Chip Efficacy e CRb>70, 5000K CCT Light Emmission CCT CST CM300K 4000K, 4000K, 5700K) CCT CRI SDCM Symmetric Light Distribution Asymmetric Light Distribution Asymmetric Light Distribution Asymmetric Light Distribution Coptical Accessories Backspille Backsories System Operating Power 30W 60W 90W 110W 140W 170W 200W 230W 260W Driver Brand Driver Model Xitanium 929001402280 Xitanium 929001401680 Xitanium 9	/ 135lm/W				
Lumen Maintenance (TM21 Reported) Lumen Maintenance (TM21 Calculated) Lumen Maintenance (TM21 Calculated) L80810 ≥100,000 hours @TJ 80°C, 25°C Ambient L80810 ≥100,000 hours @TJ 80°C, 25°C Ambient Certification CE, RoHS, CB, UL, DLC, ENEC, TUV Product Warranty S Years Light Source and Photometric Parameters: Chip Brand, Model, & Size Nichia 3535 NVSL219C Light Emmission Direct CCT 5000K, (3000K, 4000K, 5700K) CRI 270, (≥80 optional) SDCM 55 Diffusers Clear, (Frosted optional) Symmetric Light Distribution 10°, 25°, 40°, 60°, 90°, 120°, 150° Asymmetric Light Distribution IESNA Type 1M, 2M, 3M, 3L, 4S, 4M Optical Accessories Backspill Guard Electrical Parameters: System Operating Power 30W 60W 90W 110W 140W 170W 200W 230W 260W Driver Brand Philips Driver Model Xitanium 929001402280 Xitanium 929001401680 Xitanium 929001401680 (x1) Xitanium 92900					
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Certification CE, RoHS, CB, UL, DLC, ENEC, TUV Product Warranty 5 Years Light Source and Photometric Parameters: Chip Brand, Model, & Size Nichia 3535 NVSL219C Chip Efficacy @ CRI>70, 5000K CCT 174lm/W @ 350mA @25°C Light Emmission Direct CCT 5000K, (3000K, 4000K, 5700K) CRI \$70, (280 optional) SDCM \$5\$ Diffusers Clear, (Frosted optional) Symmetric Light Distribution 10°, 25°, 40°, 60°, 90°, 120°, 150° Asymmetric Light Distribution [ESNA Type 1M, 2M, 3M, 3L, 4S, 4M] Optical Accessories Backspill Guard Electrical Parameters: System Operating Power 30W 60W 90W 110W 140W 170W 200W 230W 260W Driver Brand Philips Driver Model Xitanium 929001402280 Xitanium 929001401680 Xitanium 929001401680 (x1) Typical Driver Lifetime 100,000 hours @TCase 70°C Input Voltage 120-277VAC Input Frequency 50-60Hz Qty of Drivers per Light 1 2 Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration) Recommended Lights per Circuit (16 Type B MCB) Note: MCB may allow for an increased number of lights per circuit for the lower powered versions Note: MCB may allow for an increased number of circuit for the lower powered versions					
Product Warranty					
Light Source and Photometric Parameters: Chip Brand, Model, & Size Chip Efficacy ⊕ CRI>-70,5000K CCT Light Emmission Direct CCT 5000K, (3000K, 4000K, 5700K) CRI \$ 270, (≥80 optional) SDCM SDCM Symmetric Light Distribution Clear (Frosted optional) Symmetric Light Distribution IESNA Type 1M, 2M, 3M, 3L, 4S, 4M Optical Accessories Backspill Guard Electrical Parameters: System Operating Power 30W 60W 90W 110W 140W 170W 200W 230W 260W Driver Brand Phillips Driver Model Xitanium 929001402280 Xitanium 929001401680 Xitanium 9					
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Diffusers Clear, (Frosted optional) Symmetric Light Distribution 10°, 25°, 40°, 60°, 90°, 120°, 150° Asymmetric Light Distribution IESNA Type 1M, 2M, 3M, 3L, 4S, 4M Optical Accessories Backspill Guard Electrical Parameters: System Operating Power 30W 60W 90W 110W 140W 170W 200W 230W 260W Driver Brand Philips Driver Model Xitanium 929001402280 Xitanium 929001401680 Xitanium 929001401680 Xitanium 929001401680 Xitanium 929001401680 (x1) Xitanium 929001401680 (x1) Typical Driver Lifetime 100,000 hours @TCase 70°C Input Voltage 120-277VAC Input Frequency Qty of Drivers per Light 1 2 Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration) Recommended Lights per Circuit (16A Type B MCB) Note: MCB may allow for an increased number of lights per circuit for the lower powered versions					
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Asymmetric Light Distribution Deficial Accessories Backspill Guard					
Optical Accessories Backspill Guard Electrical Parameters: System Operating Power 30W 60W 90W 110W 140W 170W 200W 230W 260W Driver Brand Phillips Driver Model Xitanium 929001402280 (x1) Xitanium 929001401680 (x1) Xitanium 929001401680 (x1) Xitanium 929001401680 (x1) Xitanium 929001401680 (x1)					
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System Operating Power 30W 60W 90W 110W 140W 170W 200W 230W 260W 270W 270W 270W 270W 270W 270W 270W 27	Backspill Guard				
Driver Brand Philips Driver Model Xitanium 929001402280 Xitanium 929001401680 Xitanium 929001402280 (x1) Xitanium 929001401680 (x1) Xitanium					
Driver ModelXitanium 929001402280Xitanium 929001401680Xitanium 929001402280 (x1) Xitanium 929001401680 (x1)Xitanium 929001402280 (x1) Xitanium 929001401680 (x1)Xitanium 929001401680 (x1)Typical Driver Lifetime100,000 hours @TCase 70°CInput Voltage120-277VACInput Frequency50-60HzQty of Drivers per Light12Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration)46A/440μsRecommended Lights per Circuit (16A Type B MCB)≤11pcs at Maximum Product Power Note: MCB may allow for an increased number of lights per circuit for the lower powered versionsNote: MCB may allow for an increased number circuit for the lower powered versions	280W				
Typical Driver Lifetime 100,000 hours @TCase 70°C Input Voltage 120-277VAC Input Frequency Qty of Drivers per Light 1 2 Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration) Recommended Lights per Circuit (16A Type B MCB) Xitanium 929001401680 (x1) 100,000 hours @TCase 70°C 120-277VAC 120-277VAC 46A/440μs 46A/440μs ≤ 11pcs at Maximum Product Power Note: MCB may allow for an increased number of lights per circuit for the lower powered versions					
Input Voltage 120-277VAC Input Frequency 50-60Hz Qty of Drivers per Light 1 2 Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration) 46A/440μs Recommended Lights per Circuit (16A Type B MCB) ≤11pcs at Maximum Product Power Note: MCB may allow for an increased number of lights per circuit for the lower powered versions Note: MCB may allow for an increased number of lights per circuit for the lower powered versions	92900140168 (x2)				
Input Frequency 50-60Hz Qty of Drivers per Light 1 2 Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration) 46A/440μs Recommended Lights per Circuit (16A Type B MCB) ≤11pcs at Maximum Product Power Note: MCB may allow for an increased number of lights per circuit for the lower powered versions Note: MCB may allow for an increased number of lights per circuit for the lower powered versions					
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(16A Type B MCB) Note: MCB may allow for an increased number of lights per circuit for the lower powered versions Note: MCB may allow for an increased number of lights per circuit for the lower powered versions					
Power Factor >0.95					
	of lights per				
THD <15%	of lights per				
Insulation Class Class I	of lights per				
Surge Protection/Fusing 10kA (optional), 20kA (optional) TVS (Transient Voltage Suppressors on individual LED Module	of lights per				
Environmental Parameters:	of lights per				
IP Rating IP67	of lights per				
IK Rating IK10	of lights per				
Ambient Usage Tolerance -40°C to 50°C	of lights per				
Ambient Storage Tolerance -40°C to 50°C	of lights per				
Driver automatic turn-off temperature TCase 85°C - Power to LEDs is reduced	of lights per				
Ambient Humidity Tolerance 15% to 90% RH	of lights per				



Technical Specifications Summary

Code (Series-Wattage/Size)	AR4A-30	AR4A-60	AR4A-90	AR4A-110	AR4A-140	AR4A-170	AR4A-200	AR4A-230	AR4A-255	AR4A-280
Physical/Mechanical Parameter	rs:									
Product Dimensions: LxWxH (mm)	463 x 345 x 116	523 x 345 x 116	583 x 345 x 116	643 x 345 x116	703 x 345 x 116	763 x 345 x 116	823 x 345 x 116	883 x 345 x 116	943 x 345 x 116	1003 x 345 x 116
Qty of LED Chips	18	36	54	72	90	108	126	144	162	180
Qty of Modules	1	2	3	4	5	6	7	8	9	10
Windage	0.0427m ²	0.0464m ²	0.0501m ²	0.0548m ²	0.0585m ²	0.0622m ²	0.0668m ²	0.0706m ²	0.0743m ²	0.0780m ²
Electrical Connection	Terminal Block or 800mm Cable									
Fixture Weight ²	6.5kg	7.1kg	8.2kg	8.9kg	9.5kg	10.8kg	11.5kg	12.5kg	13.1kg	13.9kg
Fixture Primary Material(s)	Aluminium Alloy and Stainless Steel Fasteners									
Fixture Finish	AzkoNobel Powder Coated (Marine-Grade Optional)									
Lens(es) Materials	UV Stabilised Polycarbonate									
Dimming/Controls Parameters:										
Dimming Options	1-10V, DALI									
Built-in Controls	Photocell, NEMA Socket and Cap									
Compatible intelligent lighting systems	Wireless Controls and Monitoring									
Options/Accessories:										
Mounting Styles	Slip Fit									
Miscellaneous Accessories	3m Cable Extension c/w IP68 Barrel Connector, Bird Spikes, Safety Cable									
Available Product Colours	Grey (RAL 7004), Black (RAL 9011), White (RAL 9010)									
1										

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

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. WEEE compliance reference code: WEE/ MP3838PR/SCH. 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. ©2020 Kellwood Engineering Ltd. All rights reserved.



² Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights



Features Summary



Rotatable Spigot Mount

Allows for post-top & side-entry mounting. \pm 20° range to provide easily levelling



Separate Driver Compartment

Easy access for rapid maintainance



NEMA Socket

Ensures compatibility with standardised street lighting controls



Fitting Colouration

<u>Grey RAL:7004</u>, Black RAL:9011, 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 tresspass for maximum optical control



Stainless Steel Components

Exposed metal fixtures are made from 304 stainless steel



Spirit Level

Integrated within fitting for increased ease-of-install



Corrosion Resistance

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



Surge Protection Device

<u>10KA</u>, 20KA integrated surge protection device



Bird Spikes

Helps reduce avian nuisance



DALI / 1-10V Dimming

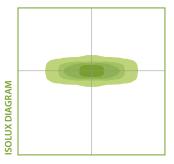
Intelligent control systems are available subject to MOQ

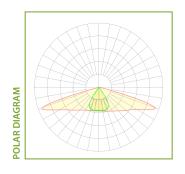


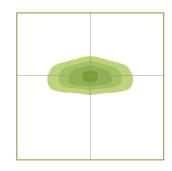
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

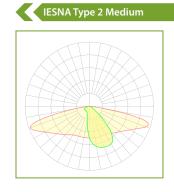
Indicative Product Photometry

IESNA Type 1 Medium

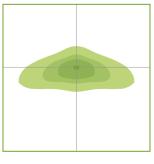


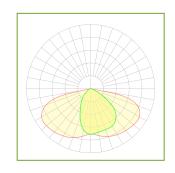


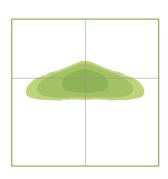


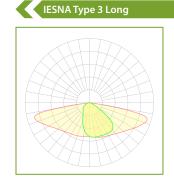


IESNA Type 3 Medium

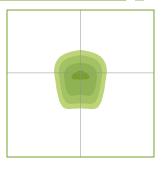


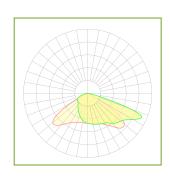


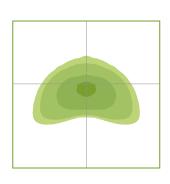


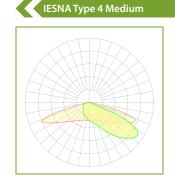


IESNA Type 4 Short

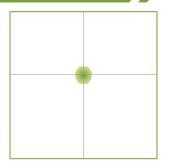


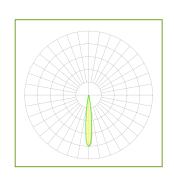


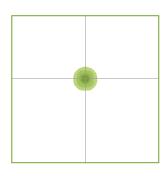


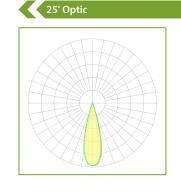


10° Optic

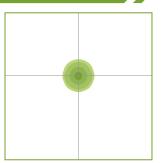


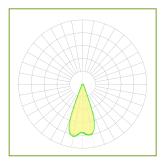


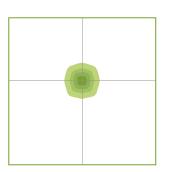


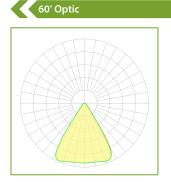


40° Optic









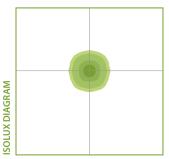
Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

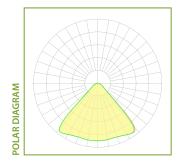


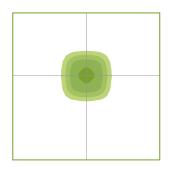
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

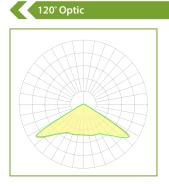
Indicative Product Photometry

90° Optic

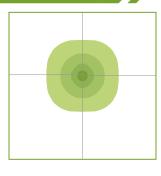


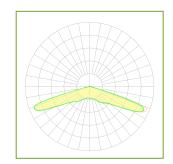






150° Optic





Diffusers

This series is available with the following diffusers. Each diffuser will have a varying effect on photometric distribution and intensity. Please refer to downloadable photometrics for exact data.





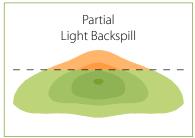
Clear Optic (Various Beam Angles)

Frosted Diffuser (117°)

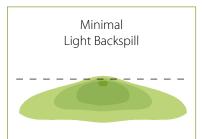
Backspill Guards

Optional backspill guards are available for the above Type 3 and Type 4 optics.

These modify the light distribution to reduce/eliminate backward light trespass. An illustrative example is shown below:









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





PRODUCT +	POWER	CRI & CCT	OPTIC +	DRIVER •	COLOUR	+ MODIFICATION
AR4A	30 30W	730 CRI >70, 3000K	2M IESNA TYPE II MEDIUM	D1 NON-DIM	GR GREY	PH1 PHOTOCELL
	60 60W	740 CRI >70, 4000K	3M IESNA TYPE III MEDIUM	D2 1-10V	BL BLACK	BG BACKSPILL GUARD
	90 90W	750 CRI >70, 5000K	3L IESNA TYPE III LONG	D3 DALI	WH WHITE	SP2 SURGE PROTECTION DEVICE (2)
	110 110W	757 CRI >70,5700K	4S IESNA TYPE IV SHORT	D4 12-24V	GR2 ¹ GREY - MARINE GRADE	
	140 140W	830 CRI >80, 3000K	4M IESNA TYPE IV MEDIUM		BL2 ¹ BLACK - MARINE GRADE	
	170 170W	840 CRI >80, 4000K	10 10° CIRCULAR		WH2 ¹ WHITE - MARINE GRADE	
	200 200W	850 CRI >80,5000K	25 25° CIRCULAR			
	230 230W	857 CRI >80,5700K	40 40° CIRCULAR			
	255 255W		60 60° CIRCULAR			
	280 280w		90 90° CIRCULAR	¹ Upgraded AkzoNobe	el polyester powder coat for incre	ased salt corrosion resistance.
			120 120° CIRCULAR 150° 150° CIRCULAR		TES: I ONE MODIFICATION IS REQ WITH A HYPHEN AT THE END	
			130 CIRCOLAN	I	RE SELECTION OF COMPATIBLE DIMMING FUNCTIONALITY	LE DRIVER FOR OCCUPANC
					THAT MODIFICATIONS WHIC PHOTOMETRIC FILES IDENTII	
duct Ordering A-60-740-2M	g Code Examples:			4. ALTERNATIVE [OFFICE FOR FUR	DRIVERS MAY BE AVAILABLE - THER DETAILS	PLEASE CONTACT OUR
	L-D1-BL-BG-SP2			5. IF PRODUCT IS	CUSTOMISED, CODES WILL	BE ALTERED AS NECESSAR

	DRIVER MANUFACTURER					
POWER	D1	D2	D3	D4		
30 30W	Philips	Philips	Philips	Meanwell		
60 60W	Philips	Philips	Philips	Meanwell		
90 90W	Philips	Philips	Philips	N/A		
110 110W	Philips	Philips	Philips	N/A		
140 140W	Philips	Philips	Philips	N/A		
170 170W	Philips	Philips	Philips	N/A		
200 200W	Philips	Philips	Philips	N/A		
230 230W	Philips	Philips	Philips	N/A		
255 255W	Philips	Philips	Philips	N/A		
280 280w	Philips	Philips	Philips	N/A		

ACCESSORIES
AR-BS BIRD SPIKES

 ${\tt CONTACT\,OUR\,OFFICE\,FOR\,FURTHER\,INFORMATION\,ON\,DRIVER\,PARAMETERS}$