

ARRO 4 SHAPE

PENDANT

STATIC WHITE, FULL SPECTRUM

LUMENWERX

Project: _____

Type: _____



DESCRIPTION

Arro 4 comes in a variety of pre-assembled forms - squares, triangles, rectangles, and X and Y spokes - and can also be continuously run, mounted, and mitered into patterns. When it comes to versatility, visual interest, and overall performance, Arro hits the target.



SENSORS
For latest information on sensors, click [here](#).



Order Guide

LUMINAIRE ID	DISTRIBUTION	SHAPE ^{1,2}				
ARR4SHP						
ARR4SHP - Arro 4" Shape Pendant	DI - Direct/Indirect D - Direct	SQUARE SQ3 - Square 3FT x 3FT SQ4 - Square 4FT x 4FT SQ5 - Square 5FT x 5FT SQ# - Square #FT x #FT	RECTANGLE RC24 - Rectangle 2FT x 4FT RC26 - Rectangle 2FT x 6FT RC## - Rectangle #FT x #FT	TRIANGLE (EQUAL SIDES) TR3 - Triangle 3FT TR4 - Triangle 4FT TR5 - Triangle 5FT TR# - Triangle #FT	Y-SPOKE YS2 - Y Spoke 2FT YS3 - Y Spoke 3FT YS# - Y Spoke #FT	X-SPOKE XS2 - X Spoke 2FT XS3 - X Spoke 3FT XS# - X Spoke #FT
		¹ Shapes and dimensions on page 2. ² Specify in 1" increments.				
DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE ³	CRI	DIRECT LUMEN PACKAGE	INDIRECT LUMEN PACK. Specify NA for Direct fixture	COLOR TEMP.
HLO						
HLO - High-Efficiency Lambertian Optic	SIO - Soft Indirect Optic NA - Not applicable	SW - Static white FS - Full spectrum ³ Chromawerx SOLA and DUO also available. Consult factory for details.	80CRI ⁴ - 80 CRI 90CRI ⁴ - 90 CRI 95CRI - 95 CR ⁴ Not available with full spectrum	350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF - High output 1000 lm/ft 1200LMF ⁵ - Ultra high output 1200 lm/ft ⁵ Not available with full spectrum.	350LMF - Low output 350lm/ft 500LMF - Medium output 500lm/ft NA - Not applicable	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K
VOLTAGE	DRIVER ⁷	ELECTRICAL			ELECTRICAL SECTIONS (optional) ^{14, 15}	
120V - 120V 277V - 277V UNV - 120V-277V 347V ⁶ - 347V ⁶ Available with DI only.	D1 - 1% 0-10V DA ⁸ - DALI LTEA2W ⁹ - Lutron 1% - 2 wire FP 120V LDE1 ⁸ - Lutron Hi-Lume 1% Eco ELDI - eldoLED 1% ECOdrive 0-10V ELDO - eldoLED 0.1% SOLOdrive 0-10V ⁷ PoE (Power-over-Ethernet) compatible. Consult factory for details. ⁸ On-site commissioning is required. ⁹ Available with 120V only.	1C - 1 circuit 2C ¹⁰ - 2 circuits #MC ¹¹ - Multi circuit EC - Emergency fixture NL - Night light fixture DL - Daylight fixture GTD ^{12, 13} - Generator transfer device fixture ¹⁰ Available for Direct/Indirect only. Separate direct and indirect circuits. ¹¹ Specify total number of circuits (#), including any circuits required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. ¹² Minimum 4' fixture. ¹³ Not available with 347V.	#EC## ¹⁶ - Emergency-powered section #NL## ¹⁶ - Night light section #DL## ¹⁶ - Daylight section #GTD## ^{16, 17, 18, 19, 20} - Generator transfer device section #EMB ^{18, 20} - Emergency battery NA - None ¹⁴ Specify with multi circuit (#MC) electrical option only. ¹⁵ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ¹⁶ Specify quantity (#), and section length in inches (##). ¹⁷ Minimum 4' section. ¹⁸ Not available with 347V. ¹⁹ Not available with TR3, YS2 and XS2. ²⁰ Specify quantity (#). Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.			
MOUNTING ²¹	FINISH		OPTIONS			
ACS - Aircraft cable, standard ACC() - Aircraft cable, custom ²¹ See page 3 for ordering details.	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	FUI20 - Fuse 120V FU277 - Fuse 277V CTB9 - T-bar caddy clip, 9/16" CTB15 - T-bar caddy clip, 15/16"	CTG9 - Tegular caddy clip, 9/16" CTG15 - Tegular caddy clip, 15/16" CST - Screw slot caddy clip NA - None			

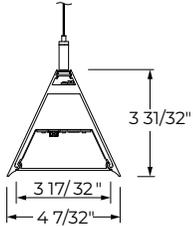
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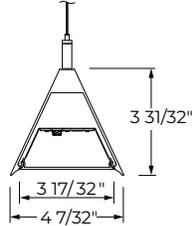
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Dimensions



Direct/Indirect



Direct

Shapes

SQUARE	RECTANGLE	TRIANGLE	Y-SPOKE	X-SPOKE
<p>SQ3 - Square 3'x3'</p>	<p>RC24 - Rectangle 2'x4'</p>	<p>TR3 - Triangle 3'</p>	<p>YS2 - Y Spoke 2'</p>	<p>XS2 - X Spoke 2'</p>
<p>SQ4 - Square 4'x4'</p>	<p>RC26 - Rectangle 2'x6'</p>	<p>TR4 - Triangle 4'</p>	<p>YS3 - Y Spoke 3'</p>	<p>XS3 - X Spoke 3'</p>
<p>SQ5 - Square 5'x5'</p>		<p>TR5 - Triangle 5'</p>		

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Pendant Mounting Code

Aircraft Cable

Standard

ACS - Aircraft cable, standard

Ø5" for power canopy
 Ø3" for non-power
 Canopies are white
 Power cord is white for all fixture finishes
 (except black fixture is black power cord)
 Aircraft cable length is 36"

Custom

For a custom mounting, specify the options in the parantheses.

Example: ACC(3NPC-72IN-W-PCB-SLC)

ACC()				
NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTIONS
3NPC - Ø3" non-power canopy 5NPC - Ø5" non-power canopy	36IN - 36" 72IN - 72" 120IN - 120" #IN ¹ - Other lengths, specify in inches <small>¹Maximum length is 288". For longer lengths, please consult factory.</small>	W - White AL - Aluminum B - Black CF# - Custom finish, specify RAL#	PCW - White PCB - Black	SEM - Seismic mounting SLC - Sloped ceiling for aircraft cable NA - None

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Technical Specifications

DIRECT OPTIC

High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration is combined with matte white side reflectors to create an efficient optical chamber with uniform luminosity. Luminaire brightness is controlled by the flux-to-shielding area ratio.

INDIRECT OPTIC

Soft Indirect Optic (SIO)

The Soft Indirect Optic (SIO) is a soft acrylic diffuser with good source obscuration. It creates a subtle optical distribution with lower energy densities and increased visual comfort.

LIGHT SOURCE

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K, and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated. Optional full spectrum LEDs can be incorporated in the fixture to increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms.



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when Full Spectrum is selected
- Feature 58 or L07 when 90CRI or above is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Mind -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

SHAPES

Arro Shape is available in 5 shapes: square, rectangle, triangle with equal sides, X spoke, and Y spoke. See order code for standard sizes. Custom sizes can also be ordered in 1 foot increments.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED ECoDriver 0-10V, eldoLED SOLOdriver 0-10V, DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required. Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

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MOUNTING OPTIONS

Fixtures can be pendant-mounted, using aircraft cables. Unless otherwise specified, Lumenwerx provides the following hardware:

Standard aircraft cable option (ACS) - Canopies are white, Ø5" for power canopy, Ø3" for non-power. Power cord is black for black fixtures, and white for all other fixture finishes.

Aircraft cable length is 36".

Caddy clips, if required specify under **OPTIONS**.

For all other options, see the mounting code on page 3

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

CONSTRUCTION

Housing - Extruded aluminum (0.080" nominal) up to 90% recycled content

Joiner - Galvanized steel

Reflector - Cold rolled steel 24 gauge thick

HLO lens - PMMA

SIO lens - PMMA

End caps - Die cast aluminum

Hanger - Chromed griplock securely attached in end caps and/or joiners with stainless steel hardware

Aircraft cable suspension - 7x7 braids stainless steel aircraft cable 0.05" thick

WEIGHT

Square

	SQ3	SQ4	SQ5
DI	25.11 lbs - 11.39 kg	33.06 lbs - 14.99 kg	41.16 lbs - 18.67 kg
D	24.97 lbs - 11.33 kg	32.88 lbs - 14.91kg	40.94 lbs - 18.57 kg

Rectangle

	RC24	RC26
DI	25.01 lbs - 11.34 kg	33.11 bs - 15.02 kg
D	24.87 lbs - 11.28 kg	32.93 bs - 14.93 kg

Triangle

	TR3	TR4	TR5
DI	15.87 lbs - 7.20 kg	21.94 lbs - 9.95 kg	27.89 lbs - 12.65 kg
D	15.78 lbs - 7.16 kg	21.81 lbs - 9.89 kg	27.74 lbs - 12.58 kg

Y-Spoke

	YS2	YS3
DI	13.51 lbs - 6.13 kg	19.47 lbs - 8.83 kg
D	13.44 lbs - 6.09 kg	19.36 lbs - 8.78 kg

X-Spoke

	XS2	XS3
DI	17.22 lbs - 7.81 kg	25.38 lbs - 11.51 kg
D	17.13 lbs - 7.77 kg	25.24 lbs - 11.45 kg

CERTIFICATION

ETL - Rated for indoor, Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.