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The Cooper Lighting Family
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COOPER Lighting

XS

Indoor & Outdoor

Arrowlinear™
Asymmetric Linear Fluorescent

COOPER Lighting

Ametrix™

ARCHITECTURAL ASYMMETRIC SOLUTIONS

Cooper Lighting is your one source for innovative, architectural lighting solutions. Ametrix™ is Cooper Lighting's architectural asymmetric brand. Its patent pending, segmented optics utilize 95% specular aluminum which provides excellent peak candle power, uniform distribution, and wide lateral spacings. Only Ametrix offers the unique PointGrab™ aiming system to put light precisely where it's needed, and keep it there. Quality materials, construction, and innovative product features complete the package. As with all Cooper Lighting products, Ametrix is backed by Cooper's world-wide network of sales and service professionals.

Arrowlinear™

PRECISION ASYMMETRIC LINEAR

The new Arrowlinear series from Ametrix provides performance, versatility and energy efficiency in a sleek, extra small product profile. Linear fluorescent lamp sources, combined with a sophisticated asymmetric optical design, provide efficient, uniform illumination to the target surface with no stray light or wasted energy. Dimming options offer additional energy savings. Fixtures can be mounted individually or in continuous fixture rows, indoors or outdoors, in any horizontal mounting orientation. Mounting options include base, wall or ceiling mounting – including 1-way, 2-way and 4-way pendants. An extensive range of standard, value-added installation and service features insure that your project will look great and function properly for years to come.

SINGLE FIXTURES
Interior & Exterior

CONTINUOUS ROWS
Interior & Exterior

Models

Single fixtures or continuous rows – combined with standard output, high output (HO) or very high output (VHO) linear fluorescent lamp sources – provide performance, versatility and energy efficiency in a sleek, low-profile package.

MODEL	SOURCE / WATTS (lumens)				
A02	T5	T5HO	T5VHO	T8	T8VHO
	14W (1350)	24W (2000)	N/A	17W (1325)	N/A
A03	T5	T5HO	T5VHO	T8	T8VHO
	21W (2100)	39W (3500)	N/A	25W (2080)	N/A
A04	T5	T5HO	T5VHO	T8	T8VHO
	28W (2900)	54W (5000)	95W (7200)	32W (2850)	84W (7200)
A06	T5	T5HO	T5VHO	T8	T8VHO
	21W x 2 (4200)	39W x 2 (7000)	N/A	25W x 2 (4160)	N/A
A08	T5	T5HO	T5VHO	T8	T8VHO
	28W x 2 (5800)	54W x 2 (10,000)	95W x 2 (14,400)	32W x 2 (5700)	84W x 2 (14,400)
A12	T5	T5HO	T5VHO	T8	T8VHO
	28W x 3 (8700)	54W x 3 (15,000)	95W x 3 (21,600)	32W x 3 (8550)	84W x 3 (21,600)
AC	T5	T5HO	T5VHO	T8	T8VHO

VHO lamp sources available in nominal 4', 8' and 12' combinations only.

Mounting Options

A wide variety of Arrowlinear™ mounting options allows you to put light precisely where it's needed. Single fixtures or continuous rows can be mounted in any horizontal orientation for ceiling, base or wall mounting. See page 7 for pendant mounting options.

CEILING

AK6
Adjustable Knuckle, 6"

BASE

AK6
Adjustable Knuckle, 6"

WALL

AK6
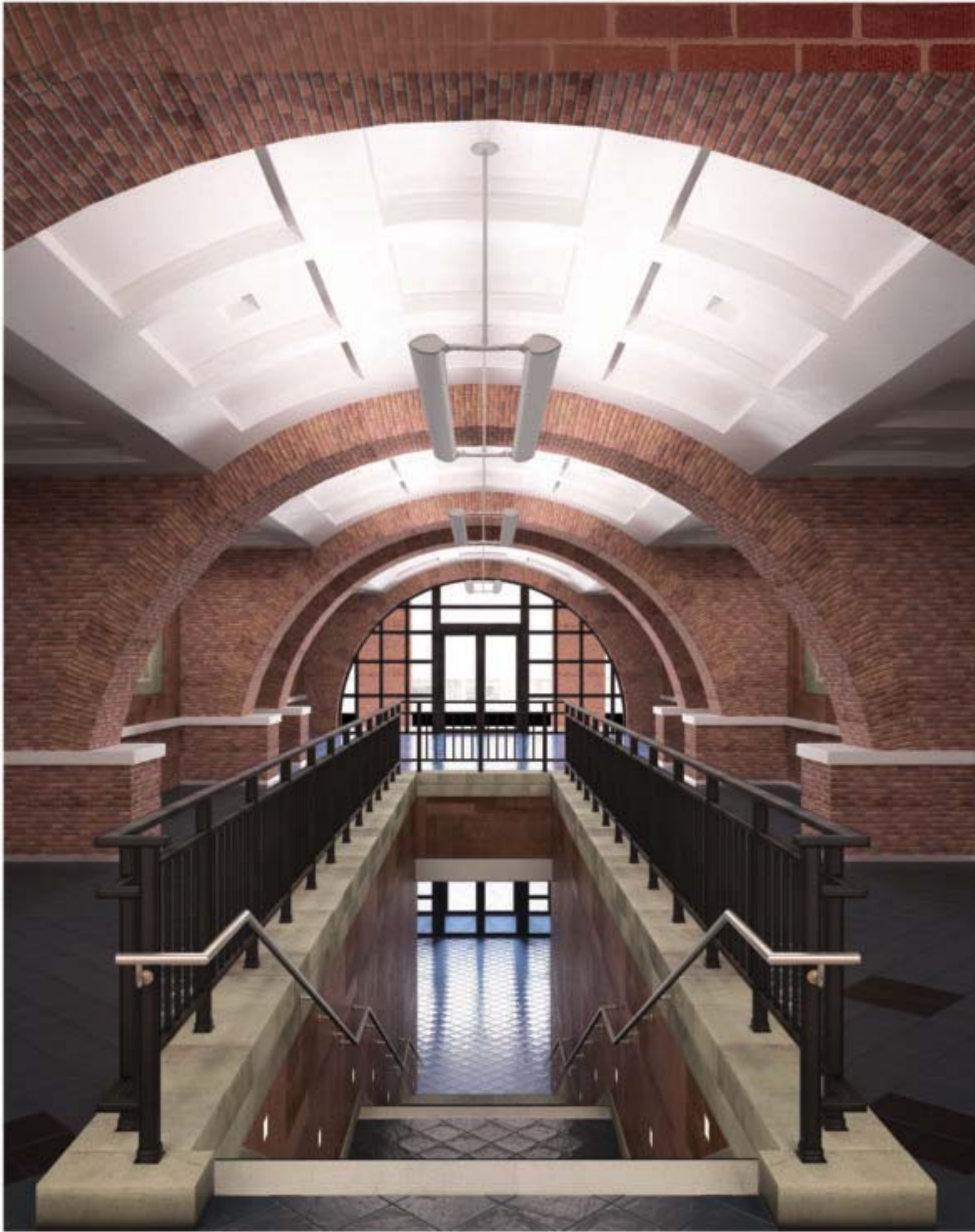Adjustable Knuckle, 6"

AK12
Adjustable Knuckle, 12"

AK18
Adjustable Knuckle, 18"

AK24
Adjustable Knuckle, 24"

Mounting Options

Mixing and matching various fixture lengths in 1-way, 2-way or 4-way configurations provides a multitude of pendant mounted lighting solutions. Use for direct, indirect or combination direct/indirect lighting applications.

1-WAY PENDANT

NOTE: 2', 3' and 4' units provided with single pendant stem. 6', 8' and 12' units provided with dual pendant stems.

P1I24, P1I30, P1I36, P1I42, P1I48
Pendant, 1-way, Integral ballast – 24", 30", 36", 42", 48" stem(s)

2-WAY PENDANT
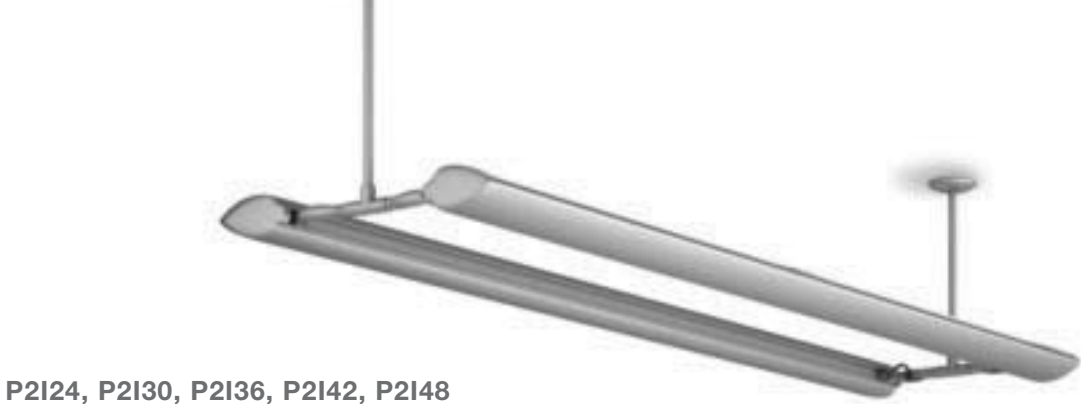
NOTE: All 2-way pendants, regardless of length, are provided with dual pendant stems.

P2I24, P2I30, P2I36, P2I42, P2I48
Pendant, 2-way, Integral ballast – 24", 30", 36", 42", 48" stems

4-WAY PENDANT

NOTE: Contact factory for rectangular configurations.

P4I24, P4I30, P4I36, P4I42, P4I48
Pendant, 4-way, Integral ballast – 24", 30", 36", 42", 48" stems

Design Features

1 INTEGRAL BALLAST

Eliminates remote ballast location issues and the need for unsightly auxiliary ballast enclosures. Integral ballast includes quick-disconnect to meet NEC and CEC code requirements by providing a safe, reliable means of disconnecting power to the fixture during service and maintenance.

2 OPTI-LOCK™ REFLECTOR

Precision asymmetric reflector is constructed from Alanod 2000GS annodized aluminum. Tool-less removal provides easy access to the ballast and wire connections.

3 ACRYLIC LENS (optional)

Impact-resistant, virgin acrylic lens will not discolor over time due to heat or UV exposure. Acrylic lens option includes continuous closed cell silicone gasket. Fixtures equipped with acrylic lens and outdoor option are U.L. wet label listed. For indoor applications the lens, if specified, seals out dust, insects and other contaminants that can diminish optical performance.

4 DECORATIVE END CAPS

Concealed fasteners secure standard, decorative end caps. They provide a finished look and watertight end seal for single fixtures and continuous fixture rows.

5 PointGrab2™ AIMING SYSTEM

All fixtures include the PointGrab2™ aiming system, which provides 180° vertical adjustment in 5° increments. A stainless steel locking mechanism securely locks fixture aiming in place.

6 SLIDE-N-MOUNT™ ARMS

Each adjustable knuckle assembly mounts to an integral, continuous track along the back of the fixture. If wall studs or J-Box are out of position, the Slide-N-Mount arms can be positioned and locked to the precise location needed to insure proper alignment and secure mounting.

7 WIRE INSPECTION COVERS

Power canopy includes removable access covers. This allows wire connections to be made or inspected with fixture secured to the mounting surface.

pointGrab2™ • AIMING SYSTEM

5 PointGrab2™ provides 180° adjustment in any horizontal mounting orientation

ENERGY EFFICIENCY

Fluorescent lamp sources provide energy efficient illumination. Precision asymmetric optics provide efficient, uniform illumination to the target surface with no stray light or wasted energy. Dimming options offer additional energy savings.

EXTRA SMALL PROFILE

Sleek, extra small profile measures just 3-3/8" x 6-1/2" allowing Arrowlinear to adapt to almost any space.

RUGGED & SUSTAINABLE MATERIALS

Constructed from renewable materials such as extruded and die-cast aluminum components with stainless steel hardware. An eco-friendly pre-treatment regimen and powder coat paint process provides lasting beauty and protection without releasing hazardous chemicals into the atmosphere.

UL / CUL WET LABEL LISTED

When specified and ordered for outdoor use with acrylic lens option, fixtures are U.L. wet label listed. Fixtures specified and ordered for indoor use without acrylic lens are UL dry location listed.

WHITE BOARDS

ENTRANCES

SLIDE-N-MOUNT™ ARMS

Each adjustable knuckle assembly mounts to an integral, continuous track along the back of the fixture. If wall studs or J-Box are out of position, the Slide-N-Mount arms can be positioned and locked to the precise location needed to insure proper alignment and secure mounting.
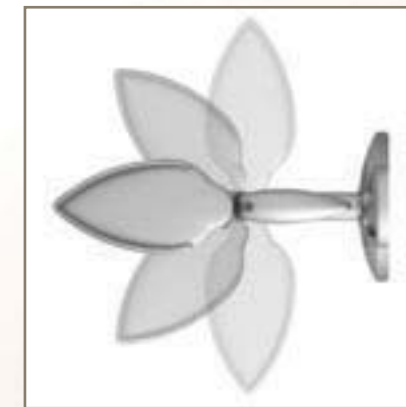

1 Insert end of adjustable mounting arm into track. 2 Rotate arm 90°.

3 Slide arm to desired location, tighten stainless steel locking mechanism until arm is secure.

PointGrab2™ AIMING

All fixtures include the Point-Grab2™ aiming system, which provides 180° vertical adjustment in 5° increments. A stainless steel locking mechanism securely locks fixture aiming in place.

1 Loosen stainless steel locking mechanism. 2 Rotate fixture to desired position (indicator marks represent +/-5°). 3 Tighten locking mechanism until fixture is secure.

CONTINUOUS ROWS

Arrowlinear's modular, universal design provides for easy-to-configure continuous fixture rows. Continuous rows bolt together from the outside of the fixture and include thru-wire quick-connects for ease of installation. Gasketed, waterproof joint connectors, in conjunction with the optional acrylic lens, provide a watertight seal that will withstand the rigors of the outdoor environment. Must be specified and ordered as continuous rows (see page 18).
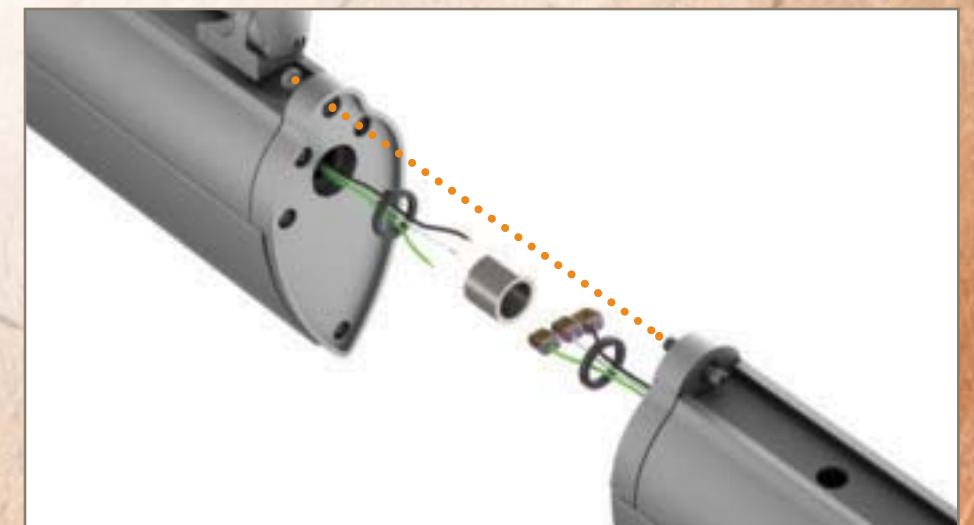
ASYMMETRIC OPTICS

Arrowlinear's asymmetric reflector is constructed from Alanod 2000GS anodized aluminum. The unique material, form and finish combination provides high fixture efficiencies with low brightness, precision control, excellent peak candlepower and uniform distribution.

PATHWAY

VHO (Very High Output) LAMP SOURCES

New T8VHO and T5VHO lamp technology provides 1-lamp cross sections with significantly higher lumen packages. Single lamp cross sections not only allow for a smaller fixture profile, but also provide reduced maintenance costs and insure that the asymmetric distribution remains intact. VHO sources provide lower minimum starting temperatures (– 20° F / – 29° C) and improved lumen maintenance compared to standard T8, T5 or T5HO sources.

35° INTERNAL LOUVER

An optional internal louver is available for additional glare control. The louver snaps to the housing extrusion, providing a firm grip in any mounting orientation, including the downlight position. The internal louver can be used with or without the acrylic lens, and is available in black (IL35) or painted to match the fixture (IL35M).

WALL WASH

SIGN LIGHTING

All values are initial footcandles. IES files are available at www.ametrixlighting.com.

MODEL NUMBER   A02-SI-N-1-LF-024-120-W-AK6
TEST NUMBER   175P275_PR
SOURCE   One (1) 24W T5HO
LAMP   F24T5HO
LUMENS   2000
EFFICIENCY   72.8%
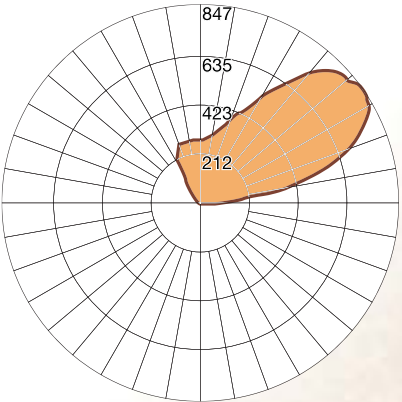
MODEL NUMBER   A03-SI-N-1-LF-039-120-W-AK6
TEST NUMBER   175P276_PR
SOURCE   One (1) 39W T5HO
LAMP   F39T5HO
LUMENS   3500
EFFICIENCY   74.6%
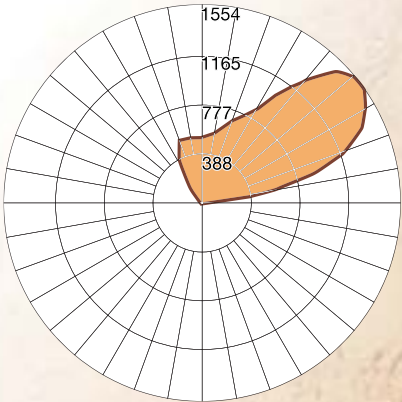
MODEL NUMBER   A04-SI-N-1-LF-054-120-W-AK6
TEST NUMBER   175P272_PR
SOURCE   One (1) 54W T5HO
LAMP   F54T5HO
LUMENS   5000
EFFICIENCY   73.5%
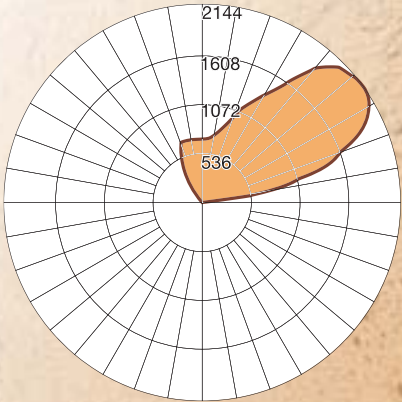
MODEL NUMBER   A04-SI-N-1-LF-095-120-W-AK6
TEST NUMBER   175P280
SOURCE   One (1) 95W T5VHO
LAMP   F95T5VHO
LUMENS   7200
EFFICIENCY   73.2%

Arrowlinear™ Single Fixtures & Pendants

Construction

Housing is corrosion-resistant Type 6063-T6 aluminum extrusion with die-cast aluminum end caps. End caps are secured by concealed stainless steel fasteners. Housing, end caps and lens are sealed with single, closed cell silicone gaskets. Stainless steel fasteners are standard.
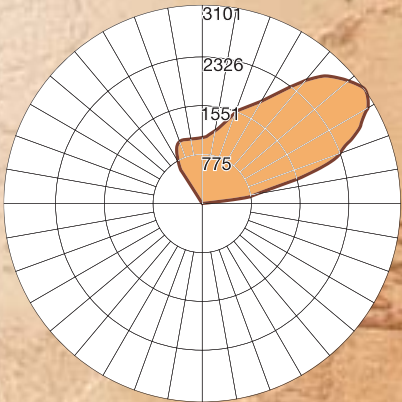
Optical System

Fixture includes the Opti-Lock™ asymmetric optical system, constructed of Alanod 2000GS annodized aluminum. Reflector provides for tool-less removal for easy access to ballast and wire connections.

Aiming System

Fixture includes the PointGrab2™ lockable aiming system, providing 180° vertical adjustment of the fixture housing in 5° increments. Aiming is locked securely in place by means of a stainless steel locking mechanism.

Lens

Fixture is available with optional clear acrylic lens, constructed of impact-resistant, U.V. stabilized virgin acrylic to prevent discoloration. The lens, in conjunction with a single closed cell silicone gasket, provides a watertight seal. Lens is required for outdoor wet locations.

Electrical

Use 90° C. supply wire (provided by others). Linear Fluorescent – Medium Bi-Pin or Mini Bi-Pin lamp socket. Ballast is integral to the fixture and includes quick-disconnect to meet NEC and CEC code requirements. Lamps available at additional cost.

Mounting

Fixture includes Slide-N-Mount™ adjustable, lockable mounting arms, constructed from Type 383 die-cast aluminum. Support structure by others.

Finish

Fixture and mounting arms are finished using electrostatically applied polyester powder coat paint. Consult factory for custom colors.

Labels

When equipped with acrylic lens fixture is UL / CUL listed for use in outdoor wet locations. When equipped with no lens fixture is UL / CUL listed for indoor locations.

Sample Number:
A04 – SO – A – 1 – LF - 054 – 120 – W - AK6 – IL35

MODEL

A02	2' Arrowlinear
A03	3' Arrowlinear
A04	4' Arrowlinear
A06	6' Arrowlinear
A08	8' Arrowlinear
A12	12' Arrowlinear *(indoor only)*

SIZE - INDOOR/OUTDOOR

SI   Extra Small, Indoor
SO   Extra Small, Outdoor

LENS

A   Acrylic *(required for outdoor)*
N   None

NUMBER OF LAMPS

1   1 lamp *(2', 3' & 4' units only)*
2   2 lamp *(6' & 8' units only)*
3   3 lamp *(12' units only)*

LAMP TYPE

LF   Linear Fluorescent

LAMP SOURCE

014	14W T5 *(2')*
021	21W T5 *(3')*
028	28W T5 *(4')*
024	24W T5HO *(2')*
039	39W T5HO *(3')*
054	54W T5HO *(4')*
095	95W T5VHO *(4')*
017	17W T8 *(2')*
025	25W T8 *(3')*
032	32W T8 *(4')*
084	84W T8VHO *(4')*

WATTAGE

120	120V *(not available for VHO sources)*
277	277V
347	347V
480	480V *(available for VHO sources only)*
UNV	Universal 120/277V *(not available for VHO sources)*

FINISH

B   Bronze
K   Black
S   Silver
W   White

MOUNTING

Select from *'Mounting Options'* on facing page

OPTIONS & ACCESSORIES

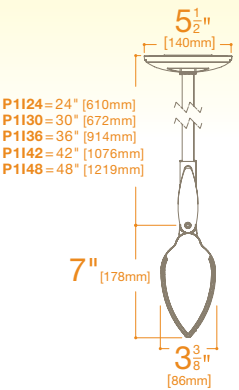|	
B	Battery Pack
D	Dimming
E	Emergency
F	Fusing
IL35	35° Internal Louver *(black)*
IL35M	35° Internal Louver *(match fixture color)*
NAT	Natatorium Environment *(not available for 12' units)*

Note: Not all options are available for all models. See product specification sheets at www.ametrixlighting.com for complete details.

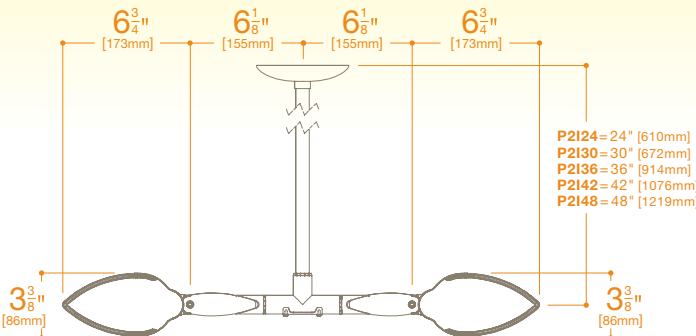### Adjustable Knuckle   Wall, Ceiling or Base Mount

AK6   = 5"   [127mm]
AK12 = 12" [305mm]
AK18 = 18" [457mm]
AK24 = 24" [610mm]

5½" [140mm]
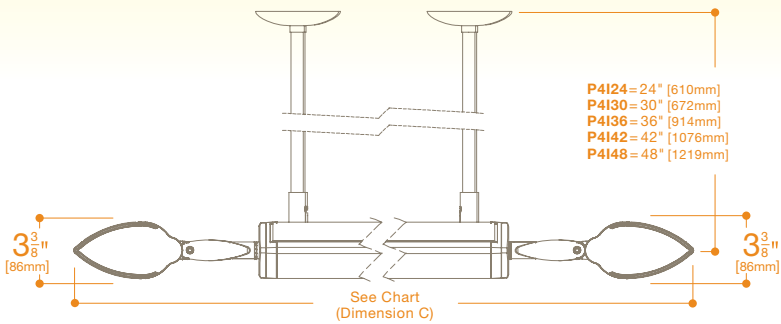7" [178mm]
3⅜" [86mm]
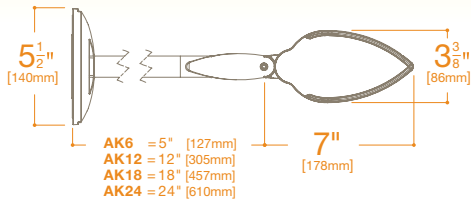
AK6, AK12, AK18, AK24

Pendant   1-Way Pendant

NOTE: 2', 3' and 4' units provided with single pendant stem. 6', 8' and 12' units provided with dual pendant stems.

5½" [140mm]
7" [178mm]
3⅜" [86mm]
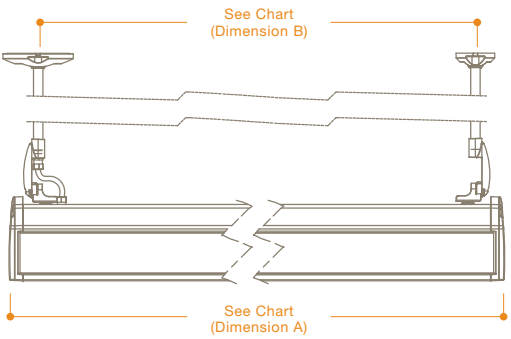
P1I24 = 24" [610mm]
P1I30 = 30" [672mm]
P1I36 = 36" [914mm]
P1I42 = 42" [1076mm]
P1I48 = 48" [1219mm]

P1I24, P1I30, P1I36, P1I42, P1I48

Pendant   2-Way Pendant

6¾" [173mm]   6⅛" [155mm]   6⅛" [155mm]   6¾" [173mm]
3⅜" [86mm]   3⅜" [86mm]

P2I24 = 24" [610mm]
P2I30 = 30" [672mm]
P2I36 = 36" [914mm]
P2I42 = 42" [1076mm]
P2I48 = 48" [1219mm]

P2I24, P2I30, P2I36, P2I42, P2I48

Pendant   4-Way Pendant

3⅜" [86mm]   3⅜" [86mm]

See Chart (Dimension C)

P4I24 = 24" [610mm]
P4I30 = 30" [672mm]
P4I36 = 36" [914mm]
P4I42 = 42" [1076mm]
P4I48 = 48" [1219mm]

P4I24, P4I30, P4I36, P4I42, P4I48

See Chart (Dimension B)
See Chart (Dimension A)

Nominal Length	Actual Length (Dimension A)	Mounting Centers (Dimension B)	Outer Dimensions (Dimension C)
2'	27-³⁄₈" [695mm]	22-¹³⁄₁₆" [580mm]	38-²¹⁄₃₂" [982mm]
3'	39-³⁄₁₆" [995mm]	34-⁵⁄₈" [880mm]	50-¹⁵⁄₃₂" [1282mm]
4'	51" [1295mm]	46-⁷⁄₁₆" [1180mm]	62-¹⁄₄" [1582mm]
6'	77-⁷⁄₁₆" [1967mm]	72-²⁹⁄₃₂" [1852mm]	88-³⁄₄" [2254mm]
8'	101-¹⁄₁₆" [2567mm]	96-¹⁷⁄₃₂" [2452mm]	112-³⁄₈" [2854mm]
12'	151-³⁄₁₆" [3839mm]	146-⁷⁄₁₆" [3719mm]	162-⁷⁄₁₆" [4126mm]

NOTE: 12' units not available for use outdoors or for natatoriums.

Standard Finishes

K
Black

B
Bronze

S
Silver

W
White

Arrowlinear™ Continuous Rows

Sample Number:
AC – SI – A – 1 – LF – T5 – 1 – C – 120 – W – AK12 – 44 – IL35

Construction

Housing is corrosion-resistant Type 6063-T6 aluminum extrusion with die-cast aluminum end caps. End caps are secured by concealed stainless steel fasteners. Housing, end caps and lens are sealed with single, closed cell silicone gaskets. Stainless steel fasteners are standard.

Optical System

Fixture includes the Opti-Lock™ asymmetric optical system, constructed of Alanod 2000GS annodized aluminum. Reflector provides for tool-less removal for easy access to ballast and wire connections.

Aiming System

Fixture includes the PointGrab2™ lockable aiming system, providing 180° vertical adjustment of the fixture housing in 5° increments. Aiming is locked securely in place by means of a stainless steel locking mechanism.

Lens

Fixture is available with optional clear acrylic lens, constructed of impact-resistant, U.V. stabilized virgin acrylic to prevent discoloration. The lens, in conjunction with a single closed cell silicone gasket, provides a watertight seal. Lens is required for outdoor wet locations.

Electrical

Use 90° C. supply wire (provided by others). Linear Fluorescent – Medium Bi-Pin or Mini Bi-Pin lamp socket. Ballast is integral to the fixture and includes quick-disconnect to meet NEC and CEC code requirements. Lamps available at additional cost.

Mounting

Fixture includes Slide-N-Mount™ adjustable, lockable mounting arms, constructed from Type 383 die-cast aluminum. Support structure by others.

Finish

Fixture and mounting arms are finished using electrostatically applied polyester powder coat paint. Consult factory for custom colors.

Labels

When equipped with acrylic lens fixture is UL / CUL listed for use in outdoor wet locations. When equipped with no lens fixture is UL / CUL listed for indoor locations.

MODEL

AC   Arrowlinear Continuous Row

SIZE - INDOOR/OUTDOOR

SI   Extra Small, Indoor
SO   Extra Small, Outdoor

LENS

A   Acrylic *(required for Outdoor)*
N   None

NUMBER OF LAMPS

1   1 lamp *(single lamp cross section)*

LAMP TYPE

LF   Linear Fluorescent

LAMP SOURCE

N5   T5 Normal Output
T5   T5 HO
V5   T5 VHO *(available in 4', 8' & 12' sections only)*
T8   T8 Normal Output
V8   T8 VHO *(available in 4', 8' & 12' sections only)*

NUMBER OF CIRCUITS

1   1 Circuit

WIRING

C   Standard Circuit
B   Battery
D   Dimming
E   Emergency

VOLTAGE

120   120V *(not available for VHO sources)*
277   277V
347   347V
480   480V *(available for VHO sources only)*
UNV   Universal 120/277V
   (not available for VHO sources)

FINISH

B   Bronze
K   Black
S   Silver
W   White

MOUNTING

Select from 'Adjustable Knuckle' *Mounting Options* on page 17

ROW LENGTH *(specify in feet)*

OPTIONS & ACCESSORIES

F   Fusing
IL35   35° Internal Louver *(black)*
IL35M   35° Internal Louver *(match fixture color)*
NAT   Natatorium Environment *(not available for 12' units)*

Note: Not all options are available for all models. See product specification sheets at www.ametrixlighting.com for complete details, including mounting options and continuous row configurations.

Ametrix offers a complete family of asymmetric point source luminaires, available in three distinct styles. Lamp sources include metal halide (20W – 1000W), halogen (100W – 1000W) and compact fluorescent (26W – 57W). Products are available for use indoors or outdoors, with integral or remote ballast, and with or without integrated cutoff visor. Our unique PointGrab™ aiming system is standard on all models.

WALL - SURFACE

CEILING - SURFACE

WALL - CANTILEVER

CEILING - SUSPENDED

WALL/CEILING - SEMI-RECESSED

BASE