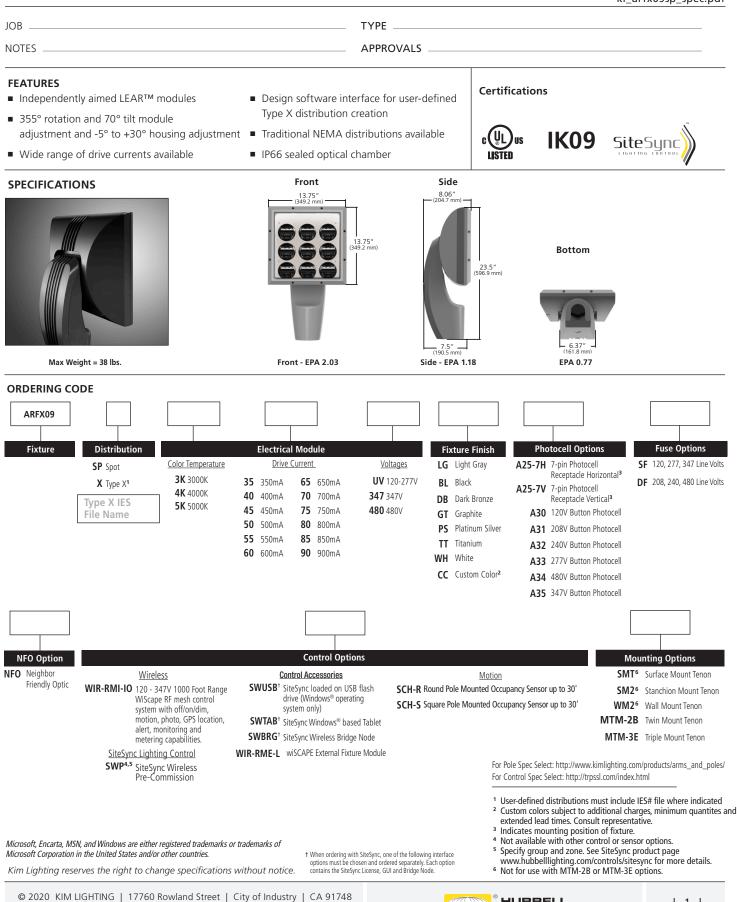
## **KIM**LIGHTING®

ARFX09SP ArcheType® X Flood Luminaire - Spot

kl\_arfx09sp\_spec.pdf



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## **KIM**LIGHTING<sup>®</sup>

## ARFX09SP ArcheType® X Flood Luminaire - Spot

kl\_arfx09sp\_spec.pdf

Color Temp Field Angle - 10%	max		Photometrics (3000K)														
Drive Current		350 m	nA 40	00 mA	450	mA	500 mA	550 mA	6	00 mA	650 mA	700 mA	750 m	A 800	0 mA	850 mA	900 mA
Lumens		1809	9	1896	196	56	2072	2187		2302	2416	2531	2646	2	761	2875	2990
Maximum Candel	a	3125	8 3	2761	339	73	35802	37789		39776	41746	43733	45720	) 47	707	49677	51664
Maximum Candel	a Angle H	0		0	0		0	0	0		0	0	0		0	0	0
Maximum Candela Angle V		47.5	;	47.5 47.5		.5	47.5	.5 47.5		47.5	47.5	47.5 47.5		4	7.5	47.5	47.5
Horizontal Beam Angle (50%)		9.9		9.9	9.9	9.9 9.9		9.9	9.9 9.9		9.9	9.9	9.9	9	9.9	9.9	9.9
Vertical Beam Angle (50%)		12.1	12.1		12.1		12.1	12.1		12.1	12.1	12.1 12.1		1	2.1	12.1	12.1
Color Temp Field Angle - 10%	max								-	Photom (400							
Drive Current		350 m	350 mA 4		00 mA 450 mA		500 mA	550 mA	550 mA 600 mA		650 mA	650 mA 700 mA		A 800	0 mA	850 mA	900 mA
Lumens		2258	3	2399 2540		40	2681	2830	2830 2980		3129	3278	3427	3	577	3726	3875
Maximum Candel	a	3341	2 3	5524	24 37584		40312 41865		4	44096	46299	48506	50710	) 52	52930 5513		57340
Maximum Candela Angle H		0		0	0		0	0		0	0	0	0		0	0	0
Maximum Candel	a Angle V	47.5	;	47.5	47.5		47.5	47.5		47.5	47.5	47.5	47.5	4	7.5	47.5	47.5
Horizontal Beam Angle (50%)		9.4		9.4	9.4		9	9.4		9.9	9.9	9.9	9.9	9	9.9	9.9	9.9
Vertical Beam Angle (50%)		12.4	ļ	12.4		12.4 12		12.4		13	13	13	13		13	13	13
Color Temp Field Angle - 10%	max		I					1		Photom (500		<u> </u>			1		1
Drive Current		350 m	50 mA 400 mA		450 mA 500 mA		500 mA	550 mA	50 mA 600 mA		650 mA	700 mA	750 m	A 800	0 mA	850 mA	900 mA
Lumens		2484	1	2639		2794 2		3113	3113 3277		3442	3606	3770	3	934	4098	4263
Maximum Candela		4375	3 4	6484	6484 49214		51944	944 54833		57721	60628	63516	66405	5 69	9293	72182	75088
Maximum Candela Angle H		0		0	0		0	0		0	0	0	0		0	0	0
Maximum Candela Angle V		47.5	;	47.5	47.5		47.5	47.5		47.5	47.5	47.5 47.5		4	7.5	47.5	47.5
Horizontal Beam Angle (50%)		9.3		9.3 9.3		3	9.3		9.3 9.3		9.3	9.3 9.3		9	9.3	9.3	9.3
Vertical Beam Angle (50%)		12.1		12.1		.1	12.1	12.1		12.1	12.1	12.1	12.1	1	2.1	12.1	12.1
						E	lectrical							Dimr			
Optical System	Current	System Watts	Line Vo	ltage			Amj			Min. Power	Max THD (%)	Dimming Range -	Source current out of 0-10V purple wire		t Absolute voltag range on 0-10V (- purple wire		
			VAC	Hz	120	208	240	277	347	480	Factor	(,,,)	lange	Min	Max	Min	Max
LEAR™	350 mA	34			0.28	0.16	0.14	0.12	0.10	0.07							
	400 mA	38			0.32	0.18	0.16	0.14	0.11	0.08	4	20					
	450 mA	43			0.36	6 0.21	0.18	0.16	0.12	0.09							
	500 mA	48			0.40	0.23		0.17	0.14	0.10	_						10V
	550 mA	53			0.44	0.25		0.19	0.15	0.11						A 0V	
	600 mA	58	120-480	50/60	0.48	0.28		0.21	0.17	0.12	>0.9		10% to	0mA	1mA		
	650 mA	62			0.52	0.30		0.23	0.18	0.13	_		100%				
	700 mA	67			0.56	0.32		0.24	0.19	0.14	_						
	750 mA	72			0.60	0.35		0.26	0.21	0.15	_						
	800 mA	77			0.64	0.37		0.28	0.22	0.16	-						
	850 mA 900 mA	82 86	-		0.68	0.39		0.29	0.24		-						
M_21 LIEFT					0.72	0.42	0.36	0.31	0.25	0.18	1.51						
TM-21 LIFETIME CALCULATION* Optical System Ambient Environment °C				Pi	Projected Lumen Maintenance Benevited L					d 170		LED COLOR Spectroradiomet				adiometric	
Optical System Ambie		ient Enviro	25				TM-21							3K	4	К	5K

Optical System	Ambient Environment °C	Projecte	d Lumen Mai	ntenance	Reported L70	Γ		2	Spectroradiometric		
Optical System	Ampient Environment C	16	26	TM-21 48	Reported L70			3K	4K	5K	
LEAR™	25	91.20%	85.70%	74.87%	> 48,000 hrs	Γ	Designation	3000K	4000K	5000K	
Ducto stand lifetture		CRI Minimum	≥72	≥72	≥72						
Projected lifetime from 700mA LM-80 data.							S/P Ratio	1.33	1.66	1.78	

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# **KIM**LIGHTING<sup>®</sup>

## SPECIFICATIONS

#### Housing:

- Low copper aluminum alloy die-casting designed as one-piece with external cooling ribs.
- Solid cast aluminum walls between the housing and arm create a thermal barrier between the optical and electrical compartments.
- Molded silicone gaskets throughout to insure sealing between the two compartments and ingress protection.
- Housing designed with integral Type X thermal transfer "turrets" utilized for both thermal transfer and to secure location of the LEAR™ Optical Module. The turrets are spaced in rows of 3 X 3, designed to optimize photometric performance for standard and Type X userdefined distributions.
- Tempered UV coated flat lens for low glare.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

#### Lens Frame:

- One-piece, die-cast, low copper aluminum alloy secured to housing with eight captive, tamper-resistant stainless steel fasteners.
- Molded silicone gasket assembles into a cast channel in the doorframe sealing the 3/16" thick low iron-content, tempered glass lens against the housing upon closure.
- IP66 certified to protect the interior components from dust and water ingress.

## Type X LEAR™ Optical Module:

- Turret alignment and thermal transfer design allow for freedom of adjustability and precision of the LEAR LED array.
- Optimized standard distribution or userdefined beam patterns.
- 3000K, 4000K, 5000K standard CCT. Amber and other custom color temperatures available.
- Factory adjusted distributions created from user-defined IES files.
- Toolless 355° rotation adjustment and 70° tilt adjustment with a tamper resistant fastener.

- Type X LEAR modules are IP66 rated and utilize six high output LEDs, positioned beneath a precision, high purity molded acrylic prism.
- Targeted optics minimize pixilation concerns to provide outstanding performance, uniformity and glare control.

#### **Electrical Components:**

- Standard programmable driver for variable drive current settings from 350mA to 900mA.
- Electrical components are located in the arm. Molded silicon gasket seal to isolate arm from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing total fixture failure.
- Open circuit fault will turn off the luminaire protecting the sensitive electronics and acting as a signal for maintenance.
- Programmable Driver is rated for -40°F starting.
- "Thermal Shield" Primary Side thermister Protection for sustainable life of LEAR modules and electronic components.

## Dimming:

- Dimming range from 10% to 100% by the use of its standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provided for user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V user-defined control devices.
- Optional factory programmed dimming profile.



#### Arm:

 Low copper aluminum alloy, two piece die-casting designed and gasketed to function as one-piece.

- External cooling ribs create continuous aesthetic and thermal path.
- Molded silicone gasket seals the wiring channel separating the arm from the housing thermally insulating the electronic components.
- Internally accessible slip-fitter provided. Attaches to a 1-1/4" to 2-3/8" tenon.
- Luminaire housing adjustable +30° and -5 via locking fastener under the arm cover.

## Finish:

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

## **Fuse Options:**

**SF** for 120, 277 and 347 Line Volts **DF** for 208, 240 and 480 Line Volts.

• High temperature fuse holders factory installed inside the fixture arm. Fuse is included.

## **Certifications and Listings:**

- UL 1598 Standard for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- RoHS compliant.
- IP66 certified.
- IEC 66262 Mechanical Impact Code IK09.

## CAUTION:

 Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

## WARRANTY:

• For full warranty see: http://www. hubbelllighting.com/resources/warranty

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## **KIM**LIGHTING®

## CONTROLS

## Photocell Receptacle

## A25-7H or A25-7V

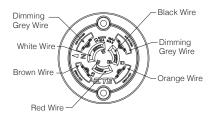
Fully gasketed and wired 7-pin receptacle standard. Easy access location above the electrical compartment. 7-pin construction allows user-defined interface and control definition of operational performance. ANSI twist-lock control module by-others. H (Horizontal) or V (Vertical) indicates mounting position of fixture.

Standard customer operation modes:

1. Tradional on/off photoelectric control.

**2.** 5-pin wireless photoelectric control for added dimming feature.

**3.** 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use.



#### **Button Photocell**

**A30** for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V,

Factory installed photocell inside housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

## Wireless Controls wiSCAPE™

Hubbell Control Solution's wiSCAPE™ wireless control modules allow an individual fixture to managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The wiSCAPE modules provide on/off/dim control, external device input, alerts and metering.

## WIR-RMI-IO

wiSCAPE Internal Module, 120-480V, 1000ft range (LOS), 3 Digital Inputs/1 Analog Input, 2 Outputs.

## WIR-RME-L

wiSCAPE External Module,120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

#### SiteSync™

SiteSync<sup>™</sup> wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit www.hubbelllighting.com/products/sitesync for more details.

## Pole Mounted

## Round Pole-Mounted Occupancy Sensor 16' to 30'

## SCH-R

Round Pole-Mounted Occupancy Sensor: 16' to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-R4<sup>2</sup>/277<sup>3</sup>/BL<sup>4</sup>

#### Square Pole-Mounted Occupancy Sensor 16' to 30' SCH-S

#### SCH-S

Square Pole-Mounted Occupancy Sensor: 16 to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/2773/BL4

## SCP

The SCP is a photo-control with motion sensing accessory thats mounts to the side of any new or existing 3"-5" round or square straight pole. The SCP enables any pole mounted luminaire in excess of 75 watts, to meet California Title 24 requirements with integral 20KV/10KA surge protection for added reliability and serviceability.

For more detail:

http://www.aal.net/products/sensor\_control\_ programmable PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/ sitesync or contact Hubbell Lighting tech support at (800) 345-4928. SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only : ARX25/1/3K35UV/PS/US/SWP

SiteSync with Motion Control: ARX25/1/3K35UV/PS/US/SWPM-20F

MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

ARX25/1/3k35UV/PS/US/MOB - 1 to 30 min - 33%or 50% - ?? / DBT

High to Dim Delay Low Level Mounting Height (ft.)

<sup>2</sup>Voltage, <sup>3</sup>Color, <sup>4</sup>Pole Diameter,

meter.

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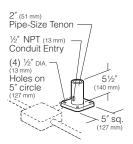
## **KIM**LIGHTING®

## ARFX09SP ArcheType<sup>®</sup> X Flood Luminaire - Spot kl\_arfx09sp\_spec.pdf

## MOUNTING OPTIONS

## Surface Mount Tenon SMT/BL

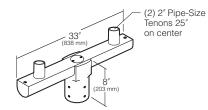
2" pipe-size tenon (2-3/8" O.D., 2" I.D.). Welded to a cast aluminum plate. Plate has four 1/2" mounting holes, and tenon has one 1/2" NPT for side conduit entry. Black finish.



## Twin Mount Tenon MTM-2B/BL, MTM-2B/DB, MTM-2B/LG, MTM-2B/SG, MTM-2B/PS, MTM-2B/WH

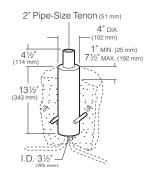
Extruded aluminum support continuously welded to a heavy cast aluminum slipfitter hub which cradles the arm for strength. The slipfitter hub contains four recessed 3/8" stainless steel allen head set point screws for mounting to steel pole with steel 2" pipe size tenon (2-3/8" O.D. x 4-1/4"). Cast aluminum end caps and center cap provide access to field splice connections.

**CAUTION:** Approved for mounting to poles with steel tenons only.



## Stanchion Mount Tenon SM2/BL

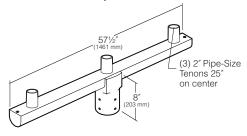
2" tenon. 4" O.D. cast low copper (<0.6% Cu) aluminum stanchion with 2" pipe-size tenon (2-3/8" O.D., 1-3/8" I.D.) for mounting a single fixture or multiple top-mounts. Black finish.



#### Triple Mount Tenon MTM-3E/BL, MTM-3E/DB, MTM-3E/LG, MTM-3E/SG, MTM-3E/PS, MTM-3E/WH

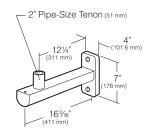
Extruded aluminum support continuously welded to a heavy cast aluminum slipfitter hub which cradles the arm for strength. The slipfitter hub contains four recessed 3/8" stainless steel allen head set point screws for mounting to steel pole with steel 2" pipe size tenon (2-3/8" O.D. x 4-1/4"). Cast aluminum end caps and center cap provide access to field splice connections.

**CAUTION:** Approved for mounting to poles with steel tenons only.



## Wall Mount Tenon WM2/BL, WM2/DB, WM2/LG, WM2/SG, WM2/PS, WM2/WH

2" pipe-size tenon (2-3/8" O.D., 2" I.D.). Welded to an extruded aluminum arm with a removable end cap for wiring access. Arm is welded to a cast aluminum plate with two 1/2" mounting holes.



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