

JOB \_\_\_\_\_ TYPE \_\_\_\_\_  
 NOTES \_\_\_\_\_ APPROVALS \_\_\_\_\_

### FEATURES

- Independently aimed LEAR™ modules
- 355° rotation and 70° tilt module adjustment and -5° to +5° housing adjustment
- Wide range of drive currents available
- Design software interface for user-defined Type X distribution creation
- Traditional NEMA distributions available
- IP66 sealed optical chamber

### Certifications

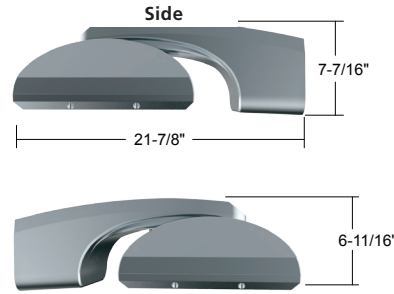
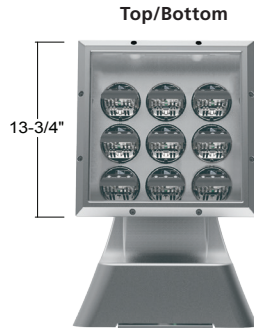


3000K and warmer CCTs only

### SPECIFICATIONS



Max Weight = 45 lbs.



Side - EPA 1.00



Front - EPA 0.81

### ORDERING CODE

ARWX09							
Fixture	Mount Direction	Distribution	Electrical Module			Fixture Finish	Photocell Options
	D Down U Up	1 Type 1 2 Type 2 3 Type 3 4 Type 4 G Grazer W Wall Wash X <sup>1</sup> Type X	<u>Color Temperature</u> 3K 3000K 4K 4000K 5K 5000K	<u>Drive Current</u> 35 350mA 40 400mA 45 450mA 50 500mA 55 550mA 60 600mA 65 650mA 70 700mA	<u>Voltages</u> UV 120-277V 347 347V 480 480V	LG Light Gray BL Black DB Dark Bronze GT Graphite PS Platinum Silver TT Titanium WH White CC <sup>2</sup> Custom Color	A25-7 7-pin Photocell Receptacle A30 120V Button Photocell A31 208V Button Photocell A32 240V Button Photocell A33 277V Button Photocell A34 347V Button Photocell A35 480V Button Photocell
			Type X IES File Name				

Fuse Options	NFO Option	Controls Options		Battery Backup
SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts	NFO Neighbor Friendly Optic	<u>Wireless</u> WIR-RMI-IO 120-480V, 1000' range, wiSCAPE RF control system with on/off/dim, alerts, monitoring and metering capabilities  <u>SiteSync Lighting Control</u> SWP <sup>3,4</sup> SiteSync Wireless Pre-Commission SWPM <sup>3,4,5</sup> SiteSync Wireless Pre-Commission w/ Occupancy Sensor	<u>Control Accessories</u> SWUSB <sup>†</sup> SiteSync loaded on USB flash drive (Windows® operating system only) SWTAB <sup>†</sup> SiteSync Windows® based Tablet SWBRG <sup>†</sup> SiteSync Wireless Bridge Node WIR-RME-L wiSCAPE External Fixture Module	<u>Motion/Occupancy Sensor</u> SCL <sup>6</sup> Fixture Mounted Occupancy Sensor up to 16' SCH <sup>6</sup> Fixture Mounted Occupancy Sensor from 16' to 30'  For Pole Spec Select: <a href="http://www.kimlighting.com/products/arms_and_poles/">http://www.kimlighting.com/products/arms_and_poles/</a> For Control Spec Select: <a href="http://trpssl.com/index.html">http://trpssl.com/index.html</a>
				EM <sup>7</sup> Integral Emergency Battery Backup

† When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

<sup>1</sup> User-defined distributions must include IES# file where indicated  
<sup>2</sup> Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative.  
<sup>3</sup> Not available with other control or sensor options.  
<sup>4</sup> Specify group and zone. See SiteSync product page [www.hubbellighting.com/controls/sitesync](http://www.hubbellighting.com/controls/sitesync) for more details.  
<sup>5</sup> Specify time delay; dimming level and mounting height.  
<sup>6</sup> Only applies when mounted in down position.  
<sup>7</sup> Battery backup is rated at -40 to 85°C.

Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Kim Lighting reserves the right to change specifications without notice.

**ARWX09**

Distribution Type	Photometrics (3000K)															
Field Angle - 10% max	Drive Current															
	350 mA		400 mA		450 mA		500 mA		550 mA		600 mA		650 mA		700 mA	
	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G
Type 1	5645	B2 U0 G2	6309	B2 U0 G2	6965	B3 U0 G3	7619	B3 U0 G3	8195	B3 U0 G3	8767	B3 U0 G3	9297	B3 U0 G3	9850	B3 U0 G3
Type 2	5344	B1 U0 G1	5971	B2 U0 G2	6592	B2 U0 G2	7211	B2 U0 G2	7757	B2 U0 G2	8298	B2 U0 G2	8800	B2 U0 G2	9323	B2 U0 G2
Type 3	5381	B1 U0 G2	6013	B1 U0 G2	6639	B1 U0 G2	7262	B1 U0 G2	7811	B1 U0 G2	8356	B2 U0 G2	8861	B2 U0 G2	9389	B2 U0 G2
Type 4	5147	B1 U0 G1	5974	B1 U0 G2	6596	B1 U0 G2	7215	B1 U0 G2	7760	B1 U0 G2	8302	B1 U0 G2	8804	B1 U0 G2	9328	B1 U0 G2

Distribution Type	Photometrics (4000K)															
Field Angle - 10% max	Drive Current															
	350 mA		400 mA		450 mA		500 mA		550 mA		600 mA		650 mA		700 mA	
	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G
Type 1	6249	B2 U0 G2	6983	B3 U0 G3	7709	B3 U0 G3	8414	B3 U0 G3	9050	B3 U0 G3	9682	B3 U0 G3	10267	B3 U0 G3	10902	B3 U0 G3
Type 2	5915	B2 U0 G2	6610	B2 U0 G2	7297	B2 U0 G2	7964	B2 U0 G2	8566	B2 U0 G2	9164	B2 U0 G2	9718	B2 U0 G2	10319	B2 U0 G2
Type 3	5956	B1 U0 G2	6656	B1 U0 G2	7348	B1 U0 G2	8020	B1 U0 G2	8626	B2 U0 G2	9228	B2 U0 G2	9786	B2 U0 G2	10392	B2 U0 G2
Type 4	5917	B1 U0 G2	6613	B1 U0 G2	7300	B1 U0 G2	7968	B1 U0 G2	8570	B1 U0 G2	9169	B1 U0 G2	9723	B1 U0 G2	10324	B1 U0 G2

Distribution Type	Photometrics (5000K)															
Field Angle - 10% max	Drive Current															
	350 mA		400 mA		450 mA		500 mA		550 mA		600 mA		650 mA		700 mA	
	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G	Lumens	B-U-G
Type 1	6491	B2 U0 G2	7254	B3 U0 G3	8008	B3 U0 G3	8732	B3 U0 G3	9392	B3 U0 G3	10047	B3 U0 G3	10655	B3 U0 G3	11268	B3 U0 G3
Type 2	6144	B2 U0 G2	6866	B2 U0 G2	7580	B2 U0 G2	8265	B2 U0 G2	8890	B2 U0 G2	9510	B2 U0 G2	10085	B2 U0 G2	10666	B2 U0 G2
Type 3	6187	B1 U0 G2	6914	B1 U0 G2	7633	B1 U0 G2	8323	B1 U0 G2	8952	B2 U0 G2	9577	B2 U0 G2	10156	B2 U0 G2	10741	B2 U0 G2
Type 4	6147	B1 U0 G2	6869	B1 U0 G2	7584	B1 U0 G2	8269	B1 U0 G2	8894	B1 U0 G2	9515	B1 U0 G2	10090	B1 U0 G2	10671	B1 U0 G2

**ELECTRICAL CHARACTERISTICS**

Optical System	Ordering Code	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Dimming				
					Source current out of 0-10V purple wire		Absolute voltage range on 0-10V (+) purple wire											
			VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max	
LEAR™	ARWX09	350 mA	62	120-480	50/60	0.51	0.30	0.26	0.22	0.18	0.13	>0.9	20	10% to 100%	0mA	1mA	0V	10V
		400 mA	70			0.58	0.33	0.29	0.25	0.20	0.15							
		450 mA	78			0.65	0.37	0.32	0.28	0.22	0.16							
		500 mA	86			0.71	0.41	0.36	0.31	0.25	0.18							
		550 mA	94			0.78	0.45	0.39	0.34	0.27	0.20							
		600 mA	101			0.84	0.49	0.42	0.37	0.29	0.21							
		650 mA	110			0.91	0.53	0.46	0.40	0.32	0.23							
		700 mA	118			0.99	0.57	0.49	0.43	0.34	0.25							

**TM-21 LIFETIME CALCULATION**

Optical System	Ordering Code	Ambient Environment °C	Projected Lumen Maintenance				Reported L70
			16	26	TM-21 60	100	
LEAR™	ARWX09	15°	98	97	95	93	>60Khrs
		25°	96	95	92	89	
		40°	96	95	92	89	

**LED COLOR**

Designation	Spectroradiometric		
	3K	4K	5K
CRI Minimum	≥72	≥72	≥72
S/P Ratio	1.33	1.66	1.78

Kim Lighting reserves the right to change specifications without notice. Consult factory for Amber, Turtle Friendly, Gulf Coast and Observatory applications.

### 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 user-defined 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 user-defined 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.

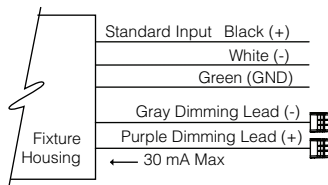
- Targeted optics minimize pixilation concerns to provide outstanding performance, uniformity and glare control.

#### Electrical Components:

- Standard programmable driver for variable drive current settings from 350mA to 700mA.
- 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.
- Main power quick-disconnect provided between the die-cast speed mount bracket and the fixture housing. Quick-disconnect plugs are glass-filled thermoplastic assemblies

attached to the die-castings, self-aligning, and rated for 10,000 matings. Male portion of the plug is mounted to die-cast speed mount with wires supplied for incoming power connection. Female portion is mounted to the fixture with wires terminating in a quick-disconnect plug for attachment to the driver assembly. Power to the electrical components is immediately disconnected when fixture is removed from speed mount.

- Luminaire housing adjustable -5° to +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.
- IDA approved, 3000K and warmer CCTs only.

#### 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.hubbellighting.com/resources/warranty>

Kim Lighting reserves the right to change specifications without notice.

## CONTROLS

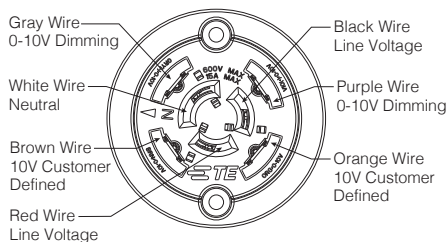
### Photocell Receptacle

#### A25-7

Fully gasketed and wired 7-pin receptacle. 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.

Standard customer operation modes:

1. (Black and Red leads) Traditional on/off photoelectric control.
2. (Gray and Purple leads) 0-10V dimming, 5-pin wireless photoelectric control for added dimming feature.
3. (Brown and Orange leads) 10V 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 be 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™<sup>1</sup>

SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit [www.hubbellighting.com/products/sitesync](http://www.hubbellighting.com/products/sitesync) for more details.

### Fixture Mounted Occupancy Sensor up to 16'

#### SCL

Fixture Mounted Occupancy Sensor up to 16' - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to fixture. Wide 360° pattern. Module colors available Black, Gray, and White.

Ordering Example: SCL/277<sup>2</sup>/BL<sup>3</sup>

### Fixture Mounted Occupancy

#### Sensor 16' to 30'

#### SCH

Fixture Mounted Occupancy Sensor 16' to 30' - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to fixture. Wide 360° pattern. Module colors available Black, Gray, and White.

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

Kim Lighting reserves the right to change specifications without notice.

<sup>1</sup>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](http://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 : ARWX25/1/3K35UV/PS/US/SWP

SiteSync with Motion Control: ARWX25/1/3K35UV/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