

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

**FEATURES**

- Independently aimed LEAR™ modules
- 355° rotation and 70° tilt module 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

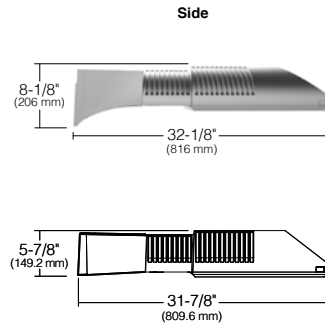
**Certifications**



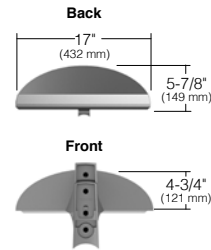
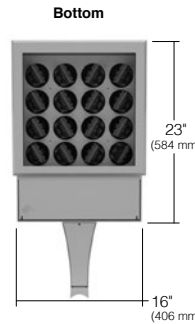
**SPECIFICATIONS**



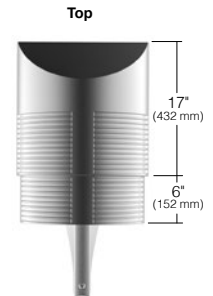
Max Weight = 39lbs.



Side - EPA 1.126



Front - EPA 0.592



EPA 2.856

**ORDERING CODE**

	ARX16								
Configuration	EPA	Fixture	Distribution	Electrical Module			Fixture Finish	Arm Support	Photocell Options
1SA	0.8	1 Arm Side Mt.	1 Type I	<u>Color Temperature</u>	<u>Drive Current</u>	<u>Voltages</u>	LG Light Gray	US Upswept	A25-7 7-pin Photocell Receptacle
2SB	1.7	2 Arm Side Mt.	2 Type II	3K 3000K	35 350mA	UV 120-277V	BL Black	ST Straight	A30 120V Button Photocell
2SL	1.6	2 Arm Side Mt.	3 Type III	4K 4000K	40 400mA	347 347V	DB Dark Bronze		A31 208V Button Photocell
3ST	2.4	3 Arm Side Mt.	4 Type IV	5K 5000K	45 450mA	480 480V	GT Graphite		A32 240V Button Photocell
3SY*	1.8	3 Arm Side Mt.	5 Type V		50 500mA		PS Platinum Silver		A33 277V Button Photocell
4SC	2.4	4 Arm Side Mt.	L Left		55 550mA		TT Titanium		A34 480V Button Photocell
1W	0.8	Single Wall Mt.	R Right		60 600mA		WH White		A35 347V Button Photocell
HSF	0.3	Horizontal Slip Fitter	X Type X <sup>1</sup>	Type X IES File Name			CC Custom Color <sup>2</sup>		

\*Available round poles only. EPA is for Fixture only

	FGL						
Fuse Options	Lens Option	NFO Option	Control Options			Mounting Options	
SF 120, 277, 347 Line Volts	FGL Flat Glass Lens	NFO Neighbor Friendly Optic	<u>Wireless</u>	<u>Control Accessories</u>		<u>Mounting</u>	
DF 208, 240, 480 Line Volts			WIR-RMI-IO 120 - 347V 1000 Foot Range WiScape RF mesh control system with off/on/dim, motion, photo, GPS location, alert, monitoring and metering capabilities.	SW7PR <sup>4,5</sup> Site Sync with 7-pin PCR	SCL Fixture Mounted Occupancy Sensor up to 16'	VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.)	
			SWP <sup>3,4,5</sup> SiteSync Wireless Pre-Commission	SWUSB <sup>1</sup> SiteSync loaded on USB flash drive (Windows® operating system only)	SCH Fixture Mounted Occupancy Sensor 16' to 30'	SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.)	
			SWPM <sup>3,4,5,6</sup> SiteSync Wireless Pre-Commission w/ Occupancy Sensor	SWTAB <sup>1</sup> SiteSync Windows® based Tablet	SCL-R Round Pole Mounted Occupancy Sensor up to 16'	Side Arm Mount	
				SWBRG <sup>1</sup> SiteSync Wireless Bridge Node	SCL-S Square Pole Mounted Occupancy Sensor up to 16'	3-4RD 3.3" to 4.2" O.D. round pole	
				WIR-RME-L wiSCAPE 7-pin Module	SCH-R Round Pole Mounted Occupancy Sensor 16' to 30'	4-6RD 4.5" to 6" O.D. round pole	
				NXOFM-1R1D-UNV NX 7-pin Module	SCH-S Square Pole Mounted Occupancy Sensor 16' to 30'	SQ Square Pole	

† 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.

For Pole Spec Select:  
[http://www.kimlighting.com/products/arms\\_and\\_poles/](http://www.kimlighting.com/products/arms_and_poles/)  
For Control Spec Select:  
<http://trpsl.com/index.html>

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Kim Lighting reserves the right to change specifications without notice.

<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> SiteSync is not compatible with products using 480V option.

<sup>4</sup> Not available with other sensor or wireless control options.  
<sup>5</sup> Specify group and zone at time of order. See [www.hubbellighting.com/sitesync](http://www.hubbellighting.com/sitesync) for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.

**ARX LEAR™ 4X4 Site/Area**

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	9719	B3 U0 G3	10860	B3 U0 G3	11990	B3 U0 G3	13082	B4 U0 G4	14071	B4 U0 G4	15054	B4 U0 G4	15964	B4 U0 G4	16910	B4 U0 G4
Type 2	9787	B2 U0 G2	10936	B3 U0 G3	12074	B3 U0 G3	13174	B3 U0 G3	14170	B3 U0 G3	15159	B3 U0 G3	16075	B3 U0 G3	17028	B3 U0 G3
Type 3	9463	B2 U0 G2	10604	B2 U0 G2	11731	B2 U0 G2	12803	B2 U0 G2	13778	B2 U0 G2	14811	B2 U0 G2	15576	B2 U0 G3	16492	B2 U0 G3
Type 4	9031	B1 U0 G2	10092	B1 U0 G2	11141	B1 U0 G2	12156	B1 U0 G2	12156	B1 U0 G2	13988	B1 U0 G3	14834	B1 U0 G3	15713	B1 U0 G3
Type 5	10301	B4 U0 G2	11512	B4 U0 G2	12709	B4 U0 G2	13867	B4 U0 G3	14915	B4 U0 G3	16921	B4 U0 G3	16921	B4 U0 G3	17924	B4 U0 G3

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	10574	B3 U0 G3	11817	B3 U0 G3	13045	B3 U0 G3	14068	B4 U0 G4	15132	B4 U0 G4	16188	B4 U0 G4	17167	B4 U0 G4	18162	B4 U0 G4
Type 2	10648	B3 U0 G3	11899	B3 U0 G3	13136	B3 U0 G3	14167	B3 U0 G3	15238	B3 U0 G3	16301	B3 U0 G3	17287	B3 U0 G3	18289	B3 U0 G3
Type 3	10296	B2 U0 G2	11537	B2 U0 G2	12764	B2 U0 G2	13768	B2 U0 G2	14816	B2 U0 G2	15927	B2 U0 G3	16750	B2 U0 G3	17713	B3 U0 G3
Type 4	9826	B1 U0 G2	10980	B1 U0 G2	12122	B1 U0 G2	13073	B1 U0 G2	14061	B1 U0 G2	15042	B1 U0 G3	15952	B1 U0 G3	16876	B1 U0 G3
Type 5	11208	B4 U0 G2	12525	B4 U0 G2	13827	B4 U0 G2	14912	B4 U0 G3	16039	B4 U0 G3	17159	B4 U0 G3	18196	B4 U0 G3	19251	B4 U0 G3

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	10724	B3 U0 G3	11984	B3 U0 G3	13230	B3 U0 G3	14426	B4 U0 G4	15517	B4 U0 G4	16600	B4 U0 G4	17603	B4 U0 G4	18617	B4 U0 G4
Type 2	10799	B3 U0 G3	12068	B3 U0 G3	13323	B3 U0 G3	14527	B3 U0 G3	15625	B3 U0 G3	16716	B3 U0 G3	17727	B3 U0 G3	18747	B3 U0 G3
Type 3	10442	B2 U0 G2	11701	B2 U0 G2	12945	B2 U0 G2	14118	B2 U0 G2	15193	B2 U0 G3	16332	B2 U0 G3	17176	B2 U0 G3	18157	B3 U0 G3
Type 4	9965	B1 U0 G2	11136	B1 U0 G2	12294	B1 U0 G2	13405	B1 U0 G2	14418	B1 U0 G3	15425	B1 U0 G3	16358	B1 U0 G3	17299	B1 U0 G3
Type 5	11367	B4 U0 G2	12703	B4 U0 G2	14023	B4 U0 G2	15291	B4 U0 G3	16447	B4 U0 G3	17595	B4 U0 G3	18659	B4 U0 G3	19733	B4 U0 G3

Electrical Characteristics										Dimming						
Current	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	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
350 mA	110	120-480	50/60	0.91	0.53	0.46	0.40	0.32	0.23	>0.9	20	10% to 100%	0mA	1mA	0V	10V
400 mA	124			1.03	0.59	0.52	0.45	0.36	0.26							
450 mA	138			1.15	0.66	0.57	0.50	0.40	0.29							
500 mA	152			1.27	0.73	0.63	0.55	0.44	0.32							
550 mA	167			1.39	0.80	0.70	0.60	0.49	0.35							
600 mA	182			1.52	0.87	0.76	0.66	0.52	0.38							
650 mA	196			1.64	0.94	0.82	0.71	0.57	0.41							
700 mA	211			1.76	1.02	0.88	0.76	0.61	0.44							

**TM-21 LIFETIME CALCULATION**

Ambient Environment °C	Projected Lumen Maintenance				Reported L70
	16	26	60	TM-21 100	
25	98.21%	97.89%	94.53%	90.71%	>60,000 hrs

**LED COLOR**

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

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Consult factory for Amber, Turtle Friendly, Gulf Coast and Observatory applications.

## SPECIFICATIONS

### Housing:

- Low copper aluminum alloy die-casting is designed as one-piece and has external cooling ribs.
- Solid, cast aluminum, wall creates a thermal barrier between the optical and electrical compartments.
- A molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED module "turrets" utilized for both thermal transfer and for securing the location of each LEAR™ Optical Module. The turrets are spaced in rows of 4 X 4 and are designed to optimize photometric performance for standard and Type X user-defined distributions.
- IP66 certified to protect the optical chamber from dust and water ingress.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

### Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with two toolless latches.

### Neighbor Friendly Optic

- Optional integrated Neighbor Friendly Optic on each LED module to completely control unwanted backlight. Most effective with Type III and IV distributions.

### Lens

- One-piece flat glass lens slips into reveal. Extra silicone gasketing is provided to retain a clear optical compartment. CAUTION: Use only when vandalism is anticipated to be high.

### Type X LEAR™ Optical Module:

- Turret alignment and thermal transfer design allows for freedom of adjustability and precise aiming 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 tamper resistant fastener.
- Type X LEAR modules are IP66 rated and utilize six high output LEDs positioned beneath a precise, high purity molded acrylic prism

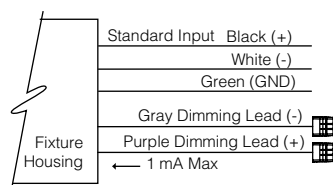
- Targeted optics minimize pixilation concerns and provide outstanding performance, uniformity and glare control.

### Electrical Components:

- Standard programmable driver allows for programmable drive current settings ranging from 350mA to 700mA.
- Electrical components are strategically located in the driver gear compartment with a molded silicon grommet seal to provide separation 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 in order to protect the sensitive electronics and acts as a signal for maintenance.
- Programmable Driver is rated for -40°C starting.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of LEAR modules and electronic components.

### Dimming:

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



### Support Arm:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adaptor and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.

### Optional Slip-Fitter:

- Internally accessible slip-fitter attaches to a 1-1/4" to 2-3/8" tenon and allows hands-free wiring and maintenance.

### Optional Wall Mount:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.

### Fusing:

**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 housing. Fuse is included.

### 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#).

### 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 4G 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>

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**Controls**

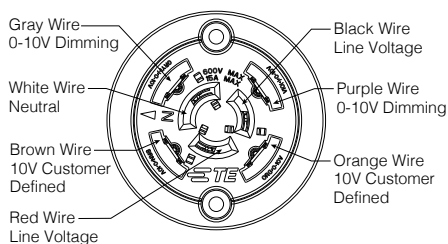
**Photocell Receptacle**

**A25-7**

Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

1. Traditional 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,

Photocell is factory installed inside the 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**

**Fixture-Mounted Occupancy Sensor up to 16'**

**SCL**

Fixture-Mounted Occupancy Sensor up to 16' - 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.

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'- 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.

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

**Pole Mounted**

**Round Pole-Mounted Occupancy Sensor up to 16'**

**SCL-R**

Round Pole-Mounted Occupancy Sensor up to 16' - 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: SCL-R4<sup>4</sup>/277<sup>2</sup>/BL<sup>3</sup>

**Square Pole-Mounted Occupancy Sensor up to 16'**

**SCL-S**

Square Pole-Mounted Occupancy Sensor up to 16' - 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 square pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

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

**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>4</sup>/277<sup>2</sup>/BL<sup>3</sup>

**Square Pole-Mounted Occupancy Sensor 16' to 30'**

**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/277<sup>2</sup>/BL<sup>3</sup>

**SCP**

The SCP is a photo-control with motion sensing accessory that 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](http://www.aal.net/products/sensor_control_programmable)

<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.

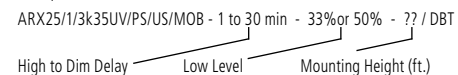
SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only : 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.



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