

JOB _____ TYPE _____
 NOTES _____ APPROVALS _____

FEATURES

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

Certifications

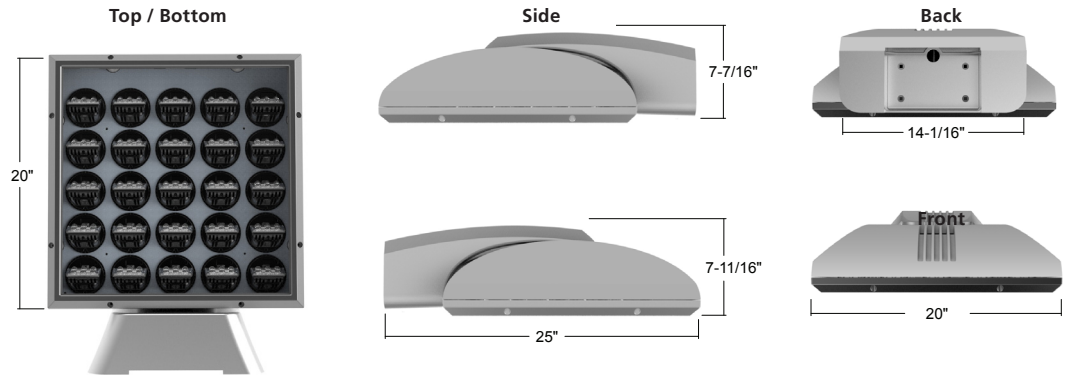


3000K and warmer CCTs only

SPECIFICATIONS



Max Weight = 68 lbs.



Side - EPA 1.32

Front - EPA 1.05

ORDERING CODE

ARWX25							
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 Custom ¹	Color Temperature 3K 3000K 4K 4000K 5K 5000K	Drive Current 35 350mA 40 400mA 45 450mA 50 500mA 55 550mA 60 600mA	Voltages 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 Custom Color ²	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

Fuse Options	NFO Option	Controls Options			Battery Backup
SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts	NFO Neighbor Friendly Optic	Wireless WIR-RMI-IO 120-480V, 1000' range, wiSCAPE RF control system with on/off/dim, alerts, monitoring and metering capabilities SiteSync Lighting Control SWP ^{3,4} SiteSync Wireless Pre-Commission SWPM ^{3,4,5} SiteSync Wireless Pre-Commission w/ Occupancy Sensor	Control Accessories SWUSB [†] SiteSync loaded on USB flash drive (Windows® operating system only) SWTAB [†] SiteSync Windows® based Tablet SWBRG [†] SiteSync Wireless Bridge Node WIR-RME-L wiSCAPE External Fixture Module	Motion/Occupancy Sensor SCL ⁶ Fixture Mounted Occupancy Sensor up to 16' SCH ⁶ Fixture Mounted Occupancy Sensor from 16' to 30'	EM ⁷ 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.

For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/
 For Control Spec Select: <http://trpssl.com/index.html>

- User-defined distributions must include IES# file where indicated
- Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative.
- Not available with other control or sensor options.
- Specify group and zone. See SiteSync product page www.hubbelling.com/controls/sitesync for more details.
- Specify time delay; dimming level and mounting height.
- Only applies when mounted in down position.
- 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.

Distribution Type	Photometrics (3000K)											
Field Angle - 10% max	Drive Current											
	350 mA		400 mA		450 mA		500 mA		550 mA		600 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
Type 1	16277	B4 U0 G4	18190	B4 U0 G4	20081	B4 U0 G4	21816	B4 U0 G4	23466	B4 U0 G4	25104	B4 U0 G4
Type 2	15043	B3 U0 G3	16811	B3 U0 G3	18559	B3 U0 G3	20162	B3 U0 G3	21686	B3 U0 G3	23200	B3 U0 G3
Type 3	14936	B2 U0 G3	16837	B3 U0 G3	18421	B3 U0 G3	20017	B3 U0 G3	20453	B3 U0 G3	21470	B3 U0 G4
Type 4	15079	B1 U0 G2	16850	B2 U0 G3	18603	B2 U0 G3	20210	B2 U0 G3	21738	B2 U0 G3	23255	B2 U0 G4

Distribution Type	Photometrics (4000K)											
Field Angle - 10% max	Drive Current											
	350 mA		400 mA		450 mA		500 mA		550 mA		600 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
Type 1	17090	B4 U0 G4	19099	B4 U0 G4	21084	B4 U0 G4	22853	B4 U0 G4	24581	B4 U0 G4	26297	B4 U0 G4
Type 2	15794	B3 U0 G3	17650	B3 U0 G3	19486	B3 U0 G3	21120	B3 U0 G3	22717	B3 U0 G3	24302	B3 U0 G3
Type 3	15682	B3 U0 G3	17677	B3 U0 G3	19341	B3 U0 G3	20968	B3 U0 G3	21424	B3 U0 G3	22907	B3 U0 G4
Type 4	15832	B1 U0 G3	17692	B2 U0 G3	19532	B2 U0 G3	21170	B2 U0 G3	22771	B2 U0 G4	24360	B2 U0 G4

Distribution Type	Photometrics (5000K)											
Field Angle - 10% max	Drive Current											
	350 mA		400 mA		450 mA		500 mA		550 mA		600 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
Type 1	17789	B4 U0 G4	19879	B4 U0 G4	21946	B4 U0 G4	23930	B4 U0 G4	25739	B4 U0 G4	27536	B4 U0 G4
Type 2	16440	B3 U0 G3	18372	B3 U0 G3	20282	B3 U0 G3	22115	B3 U0 G3	23787	B3 U0 G3	25447	B3 U0 G4
Type 3	16323	B3 U0 G3	18400	B3 U0 G3	20132	B3 U0 G3	21956	B3 U0 G3	22434	B3 U0 G4	23612	B3 U0 G4
Type 4	16479	B1 U0 G3	18415	B2 U0 G3	20330	B2 U0 G3	22168	B2 U0 G3	23843	B2 U0 G4	25508	B2 U0 G2

ELECTRICAL CHARACTERISTICS

Optical System	Electrical										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
LEAR™	350 mA	167	120-480	50/60	1.39	0.80	0.70	0.60	0.48	0.35	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	400 mA	190			1.58	0.91	0.79	0.69	0.55	0.40							
	450 mA	213			1.78	1.03	0.89	0.77	0.61	0.44							
	500 mA	236			1.97	1.13	0.98	0.85	0.68	0.49							
	550 mA	260			2.16	1.25	1.08	0.94	0.75	0.54							
	600 mA	283			2.36	1.36	1.18	1.02	0.81	0.59							

TM-21 LIFETIME CALCULATION

Optical System	Ambient Environment °C	Projected Lumen Maintenance				Reported L70
		16	26	TM-21 60	100	
LEAR™	25	97.99%	97.08%	94.03%	90.58%	> 36,000 hrs

LED COLOR

Designation	Spectroradiometric		
	3K	4K	5K
3000K	3000K	4000K	5000K
CRI Minimum	≥72	≥72	≥72
S/P Ratio	1.33	1.66	1.78

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

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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 5 X 5, designed to optimize photometric performance for standard and Type X custom distributions.
- Tempered UV coated flat lens for low glare.

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 custom beam patterns.
- 3000K, 4000K, 5000K standard CCT. Amber and other custom color temperatures available.
- Customer factory adjusted distributions using IES files created using design software.
- Toolless 355° horizontal adjustment and 70° vertical 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.

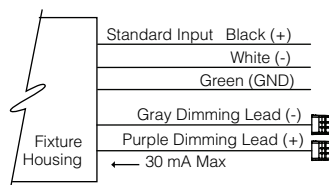
- Targeted optics minimize pixilation concerns to provide outstanding performance, uniformity and glare control.

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.

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

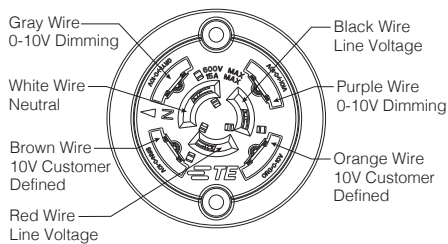
Photocell Receptacle

A25-7

Fully gasketed and wired 7-pin receptacle. 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™¹

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 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/277²/BL³

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/277²/BL³

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¹PRECOMMISSIONED 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 : 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.)

²Voltage, ³Color