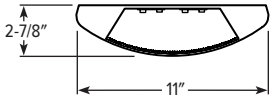
AVX LED Vandal-Resistant Wrap

Williams



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | ADA Compliant | IK10 Rated | WET/CC | UL 924 | TW

FEATURES

- Ideal for schools, hallways, stairwells, dormitories, locker rooms, or vandal areas
- IK10 rated for demanding environments
- Heavy-duty marine grade aluminum housing, die-cast end caps, and extremely durable impact-resistant polycarbonate lens add strength and durability
- Tamper-resistant #8 snake eye screws provided to protect against vandals
- Optional occupancy sensor available for use in stairwells and low traffic areas
- Designed for surface, wall, pendant, or vandal-resistant corner mount
- ADA compliant in wall mount applications
- Features easy row mount capability with integral alignment pieces
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Marine grade aluminum. Extruded housing with die-cast end caps.
- SHIELDING – UV stabilized polycarbonate lens, .150″ thick with .040″matte white acrylic underlay to minimize pixelation.
- REFLECTIVE SURFACES – 92% minimum average reflective white powder coat on interior components.
- FINISH – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED board. L70 > 50,000 hours per IES TM-21. Listed for 25°C ambient operating temperature. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shades of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - Suitable for wet location under covered ceiling when specified with WET/CC option.
  - ADA compliant in wall mount applications.
  - IK10 rated
  - UL 924 available, see Options.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: AVX - 4 - L100/835 - CPC - OPTIONS - CONTROL/DIM - UNV

SERIES
AVX

LENGTH
2 2′
4 4′
8 8′ [3]

LUMENS [1]

2′
Single CCT or TW
L25 2,500lm
Single CCT only
L42 4,200lm

4′
Single CCT or TW
L36 3,600lm
L62 6,200lm
Single CCT only
L82 8,200lm
L100 10,000lm

8′
Single CCT or TW
L72 7,200lm
L124 12,400lm
Single CCT only
L164 16,400lm
L200 20,000lm

CRI
8 80
9 90

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K
TW Tunable white (3000K–5000K)
TW2 Tunable white (2700K-6500K)

SHIELDING [2]
CPC Clear, UV stabilized polycarbonate, .150″ thick
WPC White, UV stabilized polycarbonate, .150″ thick

OPTIONS [4]

*See page 4 for **FINISH OPTIONS**.*

EM/10WLP	Low profile 10-watt emergency battery [5]
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch
(L__)	Additional lower lumen packages available [6] **Example:** 9,000 nominal lumens = AVX-4-L100/835-**(L90)**
WET/CC	Wet location under covered ceiling [7]
QC__	Quick-connect wiring harness [8]
GEN	Approved for UL 924 emergency generator circuit through-feed wiring [9]
AVX-4 CMB	4′, vandal-resistant corner mount [10]

MOUNTING (EXAMPLE: AC(Y12)/D48) [11]

ADJUSTABLE AIRCRAFT CABLE [12]

Prefix	Type	Length
AC(Y12)/	**D** 1″ grid & hardpan	**24** 24″
	N 9/16″ grid	**48** 48″
	S Slot grid	**96** 96″

PENDANT MOUNT [13]
SWS(AVX)12 Pendant swivel stem mount with 12″ stem
SS(AVX)12 Pendant stem mount with 12″ stem

CONTROL [14]

*Click **HERE** for control and sensor options.*

– None

DRIVER

*See page 4 for **ADDITIONAL DRIVER OPTIONS**.*

DIM Driver with external 0-10V dimming wires
DIM1 1 % Driver with external 0-10V dimming wires
DRV Driver without external dimming wires [15]

VOLTAGE

120 120V
277 277V
UNV 120-277V
347 347V [16]

ACCESSORIES

TPSN-8 TOOL #8, tamper-resistant snake eyes tool. [17]

NOTES

1. Lumens based on CPC shielding, 80 CRI/3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
2. See page 3 for SHIELDING DETAILS.
3. Two 4′ units end-to-end.
4. Remote EM batteries: max remote distance 50′, including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for REMOTE MOUNT BATTERY DETAILS.
5. 4′ and 8′ only.
6. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
7. Not available with AVX-4 CMB corner mount, occupancy sensors, or suspended mounting hardware.
8. See page 3 for QUICK-CONNECT OPTIONS.
9. Maximum mounting height is 26.2′ (8.0 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.
10. See page 3 for MOUNTING DETAILS.
11. Required with suspended mount fixtures.
12. Units specified with ACF(Y12)__ require cord. See page 3 for MOUNTING DETAILS.
13. Two stem sets required for 2′ and 4′ fixtures; three stem sets required for 8′. One additional stem set required for each 4′ length when row mounted.
14. See page 4 for SENSOR & NODE PLACEMENT DETAILS.
15. Not available with tunable white.
16. Not available with EM batteries.
17. Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

AVX LED
Vandal-Resistant Wrap

FIXTURE PERFORMANCE DATA

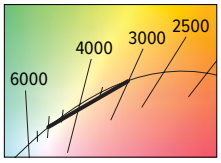
	LED PACKAGE	DELIVERED LUMENS		WATTAGE	EFFICACY (lm/W)	
		CLEAR (CPC)	WHITE (WPC)		CLEAR (CPC)	WHITE (WPC)
2'	L25	2420	1670	21	115	80
	L42	4279	2953	37	116	80
4'	L36	3677	2537	31	119	82
	L62	6253	4315	57	110	76
	L82	8302	5728	71	117	81
	L100	9893	6750	88	112	77
8'	L72	7221	4982	61	118	82
	L124	12507	8630	115	109	75
	L164	16603	11456	141	118	81
	L200	20153	13906	177	114	79

- Photometrics tested in accordance with IESNA LM-79. Results based on CPC shielding, 80 CRI/3500K for static white and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.
- POE PR fixture efficacy is typically 10-12% higher than shown at same lumen level. Consult factory during project design phase for details.

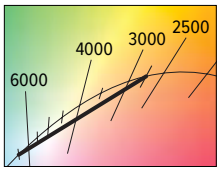
MULTIPLIER TABLE

		COLOR TEMPERATURE		
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

TW

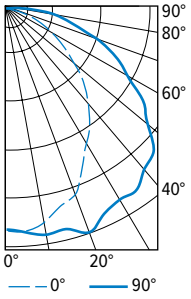


TW2



PHOTOMETRY

AVX-4-L62/835-CPC Total Luminaire Output: 6253 lumens; 57 Watts | Efficacy: 110 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2043	2043	2043	
	5	2055	2067	2083	196
	15	1887	2003	2110	569
	25	1616	1862	2105	861
	35	1326	1721	2053	1048
	45	985	1516	1882	1104
	55	663	1185	1508	987
	65	395	855	1110	765
	75	149	480	662	464
	85	24	199	337	205
	90	6	94	189	

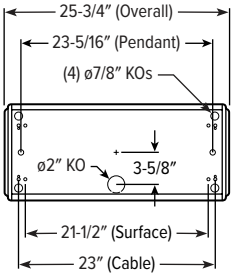
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1627	26
	0 - 40	2676	43
	0 - 60	4766	76
	0 - 90	6201	99
	0 - 180	6253	100

FIXTURE DETAILS

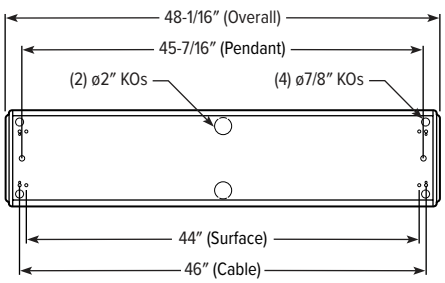
See hew.com/power-entry for power entry details.

BACKVIEW

2'

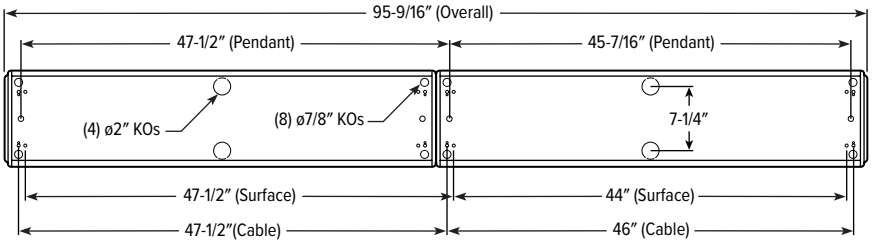


4'



- For continuous row applications, subtract 9/16" from overall dimension for every additional fixture per row.
- 2" KOs not available with 2' fixture when specified with EM battery.
- 4' fixture may only have (1) 2" KO when specified with occupancy sensor.

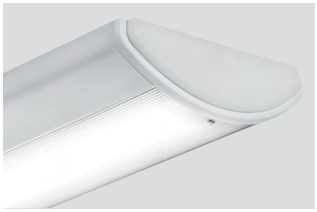
8'



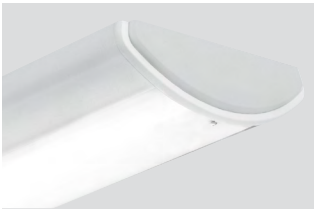
AVX LED Vandal-Resistant Wrap

SHIELDING DETAILS

CPC

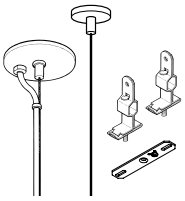


WPC

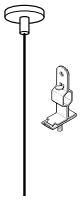


MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Feeder/Stand-Alone



Joiner

Notes:

- Fixtures specified with suspended mounting type are provided with adjustable length aircraft cables with two-point "Y" connectors and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. 8' fixtures are provided with an additional 2" canopy. No J-box is required at non-feed points.

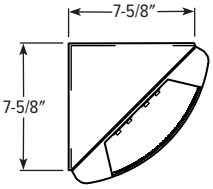
CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

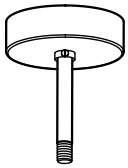
EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND.	WIRE SIZE	COLOR
S	**24** 24" **48** 48" **96** 96"	**3** **4** **5** [1] **6** [1]	**8D** 18ga	**/W** White **/B** Black

[1] Includes (2) 22ga purple & pink dimming conductors

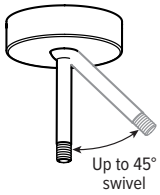
CORNER MOUNT



SS(AVX)12

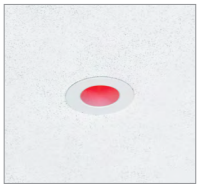


SWS(AVX)12



REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS

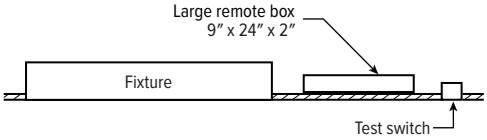


Regressed test switch
ø1-3/4"

EM/10WRM

Standard test switch
2-3/4" x 4-1/2"

Max remote distance is 50', connection by others.



QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

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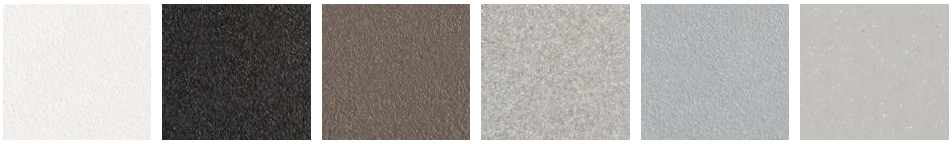
FINISH OPTIONS

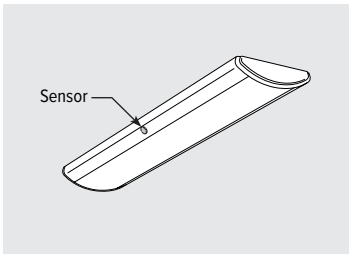
WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM | RAL#____



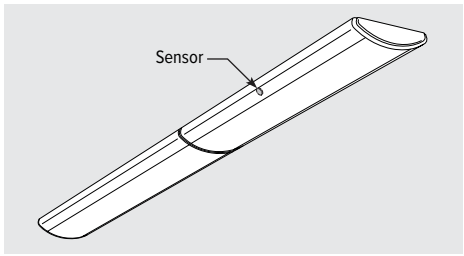
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS

2′ | 4′



8′



ADDITIONAL DRIVER OPTIONS

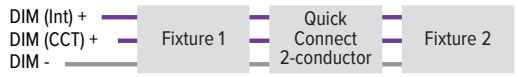
Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls dimming and (1) 0-10V signal controls CCT)
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
PoE PR	Power over Ethernet-ready, fixture powered and controlled by remote UL- or CSA-listed PoE driver

[1] Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM



DMX

DALI

LD2