

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe



ArcMed Sealed InDepth 14AID

1x4 ArcMed Sealed InDepth
Clear Bottom Lens

Typical Applications

Healthcare • Behavioral Health • Cleanroom • Education • Laboratory • Wet Location

Product Certification



Systems | Features & Awards



Interactive Menu

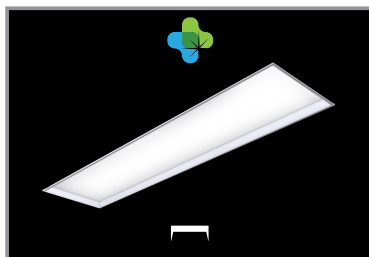
- Order Information [page 2](#)
- Connected Systems [page 6](#)
- Product Warranty

Top Product Features

- Choice of 5 lens options to add visual interest to the space - designer delight!
- Clear bottom lens provides a tight seal, to protect against dust, debris, and water ingress. IP66 rated.
- Clear polycarbonate bottom lens offers IK10 impact resistance rating; ideal for use in **behavioral health applications**. **Ligature resistant**
- Clear bottom lens enables an NSF compliance for easy wipedown/cleaning - also for use in food service, food prep, and food processing applications
- Options to meet Trade Agreements Act requirements

Lens Options

1x4 Regressed Cubes

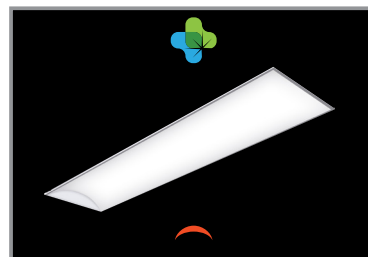


CFR1
1" Cube Regress



CFR2
2" Cube Regress

1x4 Regressed Curves



CNC
2" Curve Regress



[additional product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: **14AID-45-CNC-CA125-L840-U**

Domestic Preferences	Rating	Series	Lumen Output	Shielding	Bottom Lens	Voltage	Options
Domestic Preferences ⁽¹⁾	Rating	Series	Lumen Output ⁽²⁾	Shielding ⁽⁵⁾	Bottom Lens	Voltage	Options
[Blank]=Standard TAA=Trade Agreements Act	[Blank]=Standard ATW-SW4=Chicago Rated	14AID=1x4 ArcMed InDepth	Standard Efficacy 20=2000 Lumens 25=2500 Lumens 30=3000 Lumens 35=3500 Lumens 40=4000 Lumens 45=4500 Lumens 50=5000 Lumens 55=5500 Lumens 60=6000 Lumens 70=7000 Lumens ⁽³⁾ 80=8000 Lumens ⁽³⁾	CFR1=1" Cube Regressed CFR2=2" Cube Regressed CNC=2" Curve Regressed	CA08=0.080" Clear Acrylic CA125=0.125" Clear Acrylic CP125=0.125" Clear Polycarbonate CP187=0.187" Clear Polycarbonate CP250=0.250" Clear Polycarbonate	[Blank]=Universal Voltage 120-277 347V=347 Volt ⁽⁶⁾ 48V=48 Volt Low-voltage (Class 2) ^(C)	GL=Single Element Fuse GM=Double Element Fuse
Notes (1) Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.			Notes (2) Lumens are approximate. Use IES files for actual performance. (3) 5LTHD Driver not available on 70 and 80.	Notes (5) 1" and 2" options may be ordered as regressed or drop or they can be converted on site. 3" option must be factory ordered.		Notes (6) 347 with emergency not available with SD driver. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.	

Emergency Options	CRI/CCT	Flex
Emergency Options	CRI/CCT	Flex ⁽¹⁰⁾
[Blank]=No emergency EL7W=7-watt, 120V-277V emergency battery pack installed ⁽⁷⁾ EL14W=14-watt 120V-277V emergency battery pack installed ⁽⁷⁾ ELV7W=Low-voltage system, 7-watt emergency battery pack ^{(7), (C)} ELV14W=Low-voltage system, 14-watt emergency battery pack ^{(7), (C)} EL10WSD=Bodine 10W emergency battery pack with self diagnostic installed ^{(7), (9)} ETRD=Emergency Transfer Relay with dimming control ⁽⁸⁾	L830=80CRI, 3000K L835=80CRI, 3500K L840=80CRI, 4000K L850=80CRI, 5000K	[Blank]=No Flex A3/8-4/18GDM=3/8" Flex with 0-10V Dimming Leads A3/8-2/18G=3/8" Flex with line and common A3/8-5/18GDM=Flex with 0-10V Dimming leads and Blue for alternate wiring. See below for details.
Notes (7) With remote test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. (8) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). ETRD option only requires one relay when used on a dimming fixture. Must specify voltage as 120V or 277V when ordering these devices. (9) EL10WSD not available with 347V. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.		Flexible Metal Conduit Options (10) Multiple options available in online configurator. See additional notes on Flex below. Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type. A3/8-***** series notes: Factory installed dimming option 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556. NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-308); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).

Driver Type	Number of Drivers	Integrated Sensing Systems	Options	Accessories
Driver Type	Number of Drivers	Integrated Sensing Systems	Options	Accessories (order separately) ⁽¹²⁾
[Blank]=0-10V Driver (1%-100% Dimming) SLTD=DALI Driver (5%-100% Dimming) SLTHD=DALI Driver (1%-100% Dimming) LVI=Low-voltage System Driver (0%-100% Dimming) ^(C) SD=Step Dimming Driver (50%-100% Dimming) LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming ^(F)	[Blank]=1 Driver	[Blank]=No Sensor WTA=Factory installed WaveLinX Pro Tile-mounted Sensor Kit ^{(A), (11)} WTK=Factory installed WaveLinX Lite Tile-mounted Sensor Kit ^{(B), (11)}	[Blank]=None AM=Anti Microbial Finish	T3A END E.Q. BRACKET PARTS BAG (Standard with fixture) DFCL-1248W-U=1' x 4' Wet Location Drywall Frame Kit ^{(13), (14)} SK-14-WT=1' x 4' Tall Surface Mount Kit ⁽¹⁵⁾ DFVR/AID-1248W-U=1' x 4' vandal resistant gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 12.25" x 48.25" ⁽¹⁶⁾
Notes Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility. (F) Consult Marketplace Options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com		Notes (11) WTA and WTK sensor options to be used with default driver. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinX Pro system pages for additional details and compatibility. (B) WaveLinX Lite devices are not currently compatible with the WaveLinX Wireless Area Controller. Consult WaveLinX Lite system pages for additional details and compatibility.		Notes (12) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. (13) Cutout Dimensions 12.25" x 48.25". (14) Replace W with AMW for antimicrobial matte white drywall kit. (15) Surface Kit damp location only, not designed for vandal resistant applications. (16) IP66 standard with DFVR/AID drywall kit.



Product Specifications

Construction

- Extruded aluminum rails form rigid housing for robust life and aesthetic appeal
- EQ/grid clips are included to ensure code compliance for all regions
- Four auxiliary fixture corner suspension points for use when suspending fixture
- Driver enclosures use access plate to speed wiring and conduit installation with additional KO on sides. Six KOs.

Integrated Controls

- 0-10V dimming to 1% standard
- Tile mount WaveLinX sensor compatible for standalone, controlled, connected, and IoT capability
- Tile mount Enlighted sensor compatible for IoT capability
- Low-voltage driver compatible for WaveLinX Low-Voltage and DLVP applications
- DALI 2.0, Lutron, and step-dimming available

LED and Light Engine

- LED's available in 3000K, 3500K, 4000K, or 5000K at 80 CRI minimum
- TM21 life at 60,000 hours up to L86 and calculated L70 exceeds 131,000 hrs.
- Drivers available in 120-277V and 347V

Emergency Battery Options

- Optional 120-277V emergency battery available in 7W, 10W or 14W
- 90-minute backup period for code compliance
- Test switch ships with the battery versions and is installed remote from fixture to ensure aesthetics.
- Generator transfer options available

Finish

- 90% reflective, matte white enamel finish
- Full fixture housing painted after fabrication
- Back plate and J-box are constructed of code gauge steel

Shielding

- Multiple acrylic diffuser options enable regression options
- Formed frosted acrylic diffuser provides visual interest and obscures the LEDs
- Diffuser texture is specifically designed to limit glare
- 3 lens options enables versatility in many spaces
- Clear acrylic or polycarbonate flat bottom lens

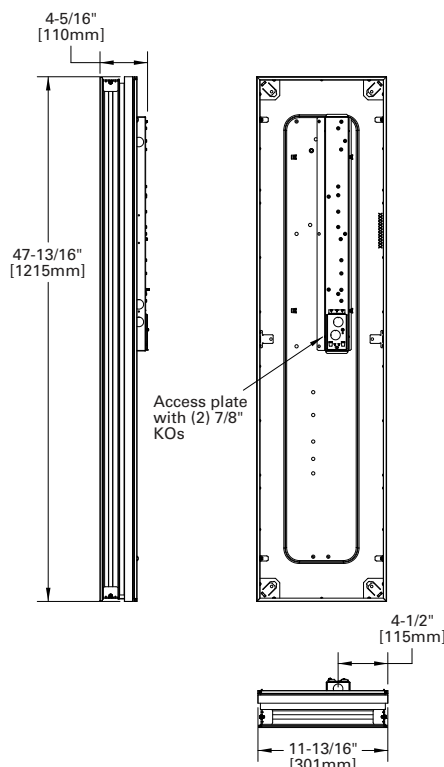
Compliance

- IC rated for insulation contact
- cULus listed for wet location
- IP66 from below the luminaire/ceiling
- NSF
- IK10 Impact Rating for all polycarbonate lens options
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- Stated life tested to TM21 standards
- Tested for ISO 5 compliance. ISO3 and ISO4 environments typically employ uni-directional vertical air-flow and a ventilated raised floor to remove airborne particles. Not uncommon for the entire ceiling to be either HEPA or ULPA filters. Filtered air is continually directed downward, passing through the ventilated raised floor, and recirculated – to remove more of the airborne particles than are created. Often, laminar-flow surface mount luminaires are used to illuminate the space. With proper air flow and air exchanges, proper installation, this non-shedding luminaire is acceptable for use in ISO3-9 environments.
- IP65/IP66 optional
- Qualifies as State of California Title 24 high efficacy luminaire

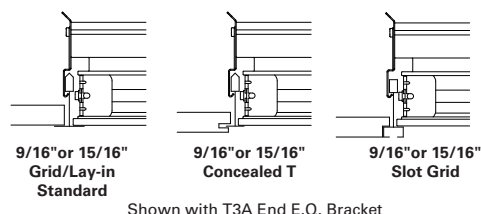
Warranty

- Five year warranty standard. Extended ten year warranty available.

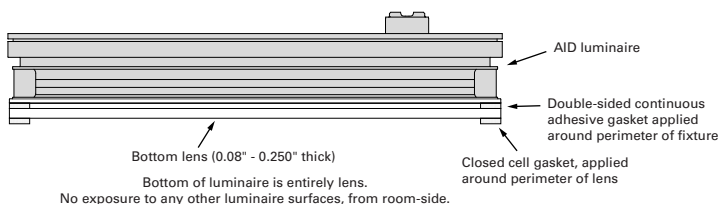
Dimensional Details



Ceiling Compatibility



Bottom Lens Cross Section



Energy and Performance Data

Electrical Performance - 1x4 (4000K, CA08 bottom lens)

Lumen Pkg	Delivered Nominal Lumens			Power Watts	Efficacy (LPW)		
	CFR1	CFR2	CNC		CFR1	CFR2	CNC
2000	1991	1991	1985	16.5	121	121	120
2500	2525	2525	2517	20.5	123	123	123
3000	3053	3053	3044	24.9	123	123	122
3500	3468	3468	3457	28.5	122	122	121
4000	4091	4091	4078	33.4	122	122	122
4500	4470	4470	4457	38.5	116	116	116
5000	5119	5119	5104	43.1	119	119	118
5500	5621	5621	5604	48.2	117	117	116
6000	6162	6162	6143	53.3	116	116	115
6500	6702	6702	6682	58.4	115	115	114
7000	7198	7198	7177	65.6	110	110	109
7500	7679	7679	7656	70.9	108	108	108
8000	7956	7956	7932	77.1	103	103	103

Lumen Calculator

CCT	80 CRI Multiplier
3000K	0.95
3500K	0.97
4000K	1
5000K	1.03

Lens	Lumen Multiplier	Lens Description
CA08	1	Clear Acrylic, 0.080" thick
CA125	0.98	Clear Acrylic, 0.125" thick
CP125	0.95	Clear Polycarbonate, 0.125" thick
CP187	0.93	Clear Polycarbonate, 0.187" thick
CP250	0.92	Clear Polycarbonate, 0.250" thick

Optical Performance - 1x4 (4000K, CA08 Bottom Lens)

Lumen Pkg	UGR [CIE 190:2010] ⁽¹⁾ (4H, 8H; Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane)			Max. Luminance [45-90 Deg. from NADIR] ⁽²⁾ (CD/M ²)		
	CFR1	CFR2	CNC	CFR1	CFR2	CNC
2000	17.7	17.7	17.7	1923	1923	1917
2500	18.6	18.6	18.6	2439	2439	2431
3000	19.2	19.2	19.2	2948	2948	2940
3500	19.7	19.7	19.7	3349	3349	3339
4000	20.2	20.2	20.2	3951	3951	3938
4500	20.5	20.5	20.5	4317	4317	4304
5000	21	21	21	4944	4944	4929
5500	21.3	21.3	21.3	5429	5429	5412
6000	21.7	21.7	21.7	5951	5951	5933
6500	22	22	21.9	6473	6473	6453
7000	22.2	22.2	22.2	6952	6952	6931
7500	22.4	22.4	22.4	7416	7416	7394
8000	22.6	22.6	22.5	7684	7684	7660

Notes: (1) For other UGR data for room or reflective ceiling plans please see technical data on website. (2) For other CCT please see technical data on website.

Nominal Lumen Maintenance

TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (hours) ⁽³⁾
> 86%	> 131,000

Notes: (3) Theoretical values represent estimations. Refer to LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

Typical Load Data

THD	6%
Power Factor	0.99
Low Temp. Start	-20°C

Shipping Data

Bottom Lens	Weight (lbs)	Units per Pallet 49" L x 52" W x 55" H	Lens Description
CA08	20	21	Clear Acrylic, 0.080" thick
CA125	21	21	Clear Acrylic, 0.125" thick
CP125	20.9	21	Clear Polycarbonate, 0.125" thick
CP187	22.3	21	Clear Polycarbonate, 0.187" thick
CP250	23.9	21	Clear Polycarbonate, 0.250" thick



Control Systems

- WaveLinx Pro Wireless
- WaveLinx Lite Wireless
- WaveLinx Wired
- DLVP



Connected Systems
CLICK HERE

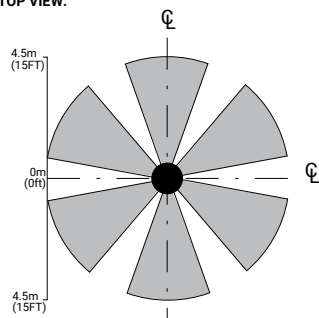
The InDepth with factory-installed tile mount sensor provides automatic energy savings without sacrificing performance. The InDepth delivers superior lighting with luminaire occupancy and daylighting control.

For standalone and controlled applications, the WaveLinx Lite sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed.

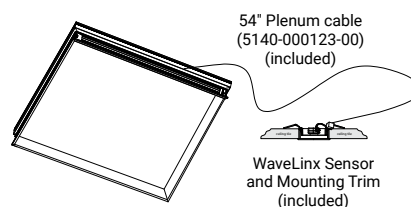
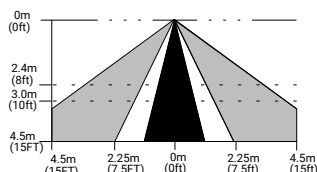
When more connectivity is required, the WaveLinx Pro Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings.

The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.

TOP VIEW:



SIDE VIEW:



For more information on tilemount sensor specifications and installation, see WaveLinx Pro and WaveLinx Lite Tilemount Sensor Kit at cooperlighting.com.

Note: Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



Luminaire with
standalone
sensor



Standalone
Spaces
WaveLinx LITE



Standalone
Spaces
WaveLinx CAT



Networked
Spaces
WaveLinx PRO



Enterprise
WaveLinx
CORE

	Luminaire with standalone sensor	Standalone Spaces WaveLinx LITE	Standalone Spaces WaveLinx CAT	Networked Spaces WaveLinx PRO	Enterprise WaveLinx CORE
Occupancy	Yes	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes	Yes
Wallstations	–	Yes	Yes	Yes	Yes
Gateways	–	–	–	1 WAC	300 WACs
Devices (MAX)	–	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise
Software	–	WaveLinx LITE Mobile App	WaveLinx CAT Mobile App	WaveLinx Mobile App	CORE
Areas	–	28 per Space	Unlimited	50 per WAC2	up to 3,000
Zones	–	16 per Area	16 per Area	16 per Area	up to 9,000
Scheduling	–	–	–	Local	Global
VividTune™	–	–	–	Yes	Yes
Plug-Load Control	–	Yes	Yes	Yes	Yes
Low-Voltage Power	–	–	Yes	Yes	Yes
Integration	–	–	–	–	BACnet, API
Dashboards	–	–	–	–	Energy, Occupancy
Configuration	–	Installer	Installer	Technician	Technician / IT

SCALABILITY

