Project		Catalog #		Type	
Prepared by		Notes		Date	

CNC - 2" Curve Regress

Fail-Safe

ArcMed Sealed InDepth 24AID

2x4 ArcMed Sealed InDepth
Clear Bottom Lens

Typical Applications

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

Product Certification

UL CERTIFIED · NSF · IK10 · IP65 · RoHS COMPLIANT · ISO3 CLASS 1 · BSL 1-4 · TAA TRADE AGREEMENTS ACT AVAILABLE · ISO CERTIFIED SYSTEMS

Efficiency Standards **T24** Can be used to comply with California Title 24 Non-Residential · **IC** RATED · wet location · **LIGATURE RESISTANT**

Systems | Features & Awards

Connected Systems · IALDLIRC · LINEAR DISCONNECT Designed to provide safe and convenient means of disconnecting power · MWS® MODULAR WIRING SYSTEM CLICK HERE

Interactive Menu

• Product Warranty

Top Product Features

• Choice of 5 lens options to add visual interst to the space - designer delight!
• Clear bottom lens provides a tight seal, to protect against dust, debris, and water ingress. IP65 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
• ISO3-8 certified and BSL 1-4 rated for use in medical and cleanroom applications
• Options to meet Trade Agreements Act requirements

Lens Options

additional product diagrams

2x4 Regressed Cubes

CFR1
1" Cube Regress

CFR2
2" Cube Regress

2x4 Regressed Curves

CNC
2" Curve Regress

DBR
2" Double Barrel Regressed

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Order Information

SAMPLE ORDER NUMBER: **24AID-80-CFR2-CA08-L840-U**

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	**24AID**=2x4 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) **90**=9000 Lumens	**CFR1**=1" Cube Regressed **CFR2**=2" Cube Regressed **CNC**=2" Curve Regressed **DBR**=2" Double Barrel 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 availale 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 (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 **A3/8-4/18GDIM**=3/8" Flex with 0-10V Dimming Leads **A3/8-2/18G**=3/8" Flex with line and common **A3/8-5/18GDIM**=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 on 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, 530, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); 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 (order separately) (12)
[Blank]=0-10V Dimming Driver (1%-100% Dimming) **5LTD**=DALI Driver (5%-100% Dimming) **5LTHD**=DALI Driver (1%-100% Dimming) **LV1**=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 **MHC**=Mental Health Compliant with clear polycarbonate lens - hard ceiling only (15)	**T3A END E.Q. BRACKET PARTS BAG (Standard with fixture)** **DFCL-2448W-U**=2' x 4' Wet Location Drywall Frame Kit **SK-24-WS**=2' x 4' Shallow Surface Mount Kit (13) **DFVR/AID-2448W-U**=2' x 4' vandal resistant gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 48.25" (14)
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 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** (15) Factory installed DFVR. IP66 standard. Ordering the MHC option allots fixture to meet mental health compliance requirements. With brackets to limit pushing fixture above ceiling line from room side.	**Notes** (12) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. (13) Surface Kit damp location only, not designed for vandal resistant applications. (14) IP66 standard with DFVR/AID drywall kit

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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
- 4 lens options enables versatility in many spaces
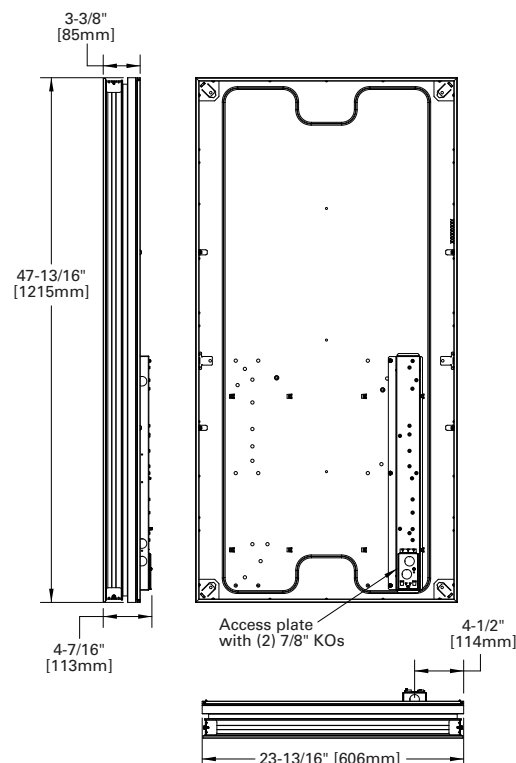- Clear acrylic or polycarbonate flat bottom lens

Compliance
- IC rated for insulation contact
- cULus listed for wet location
- IP65 from below the luminaire/ceiling
- NSF
- IK10 Impact Rating for all polycarbonate lens options
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- Tested for ISO 5 compliance. IS03 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.
- Stated life tested to TM21 standards
- Qualifies as State of California Title 24 high efficacy luminaire
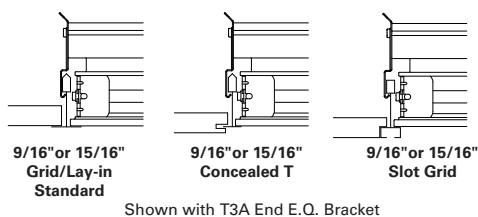- Meets BSL 1-4 when specified in catalog logic.

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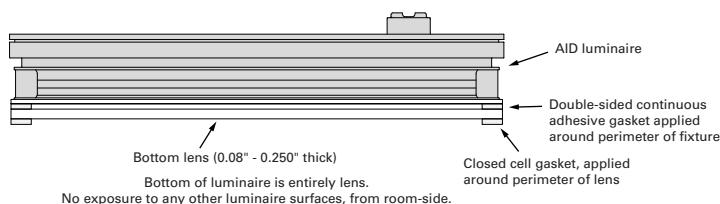- Five year warranty standard. Extended ten year warranty available.

Dimensional Details

3-3/8" [85mm]

47-13/16" [1215mm]

4-7/16" [113mm]

4-1/2" [114mm]

Access plate with (2) 7/8" KOs

23-13/16" [606mm]

Ceiling Compatibility

9/16"or 15/16" Grid/Lay-in Standard

9/16"or 15/16" Concealed T

9/16"or 15/16" Slot Grid

Shown with T3A End E.Q. Bracket

Bottom Lens Cross Section

AID luminaire

Double-sided continuous adhesive gasket applied around perimeter of fixture

Closed cell gasket, applied around perimeter of lens

Bottom lens (0.08" - 0.250" thick)

Bottom of luminaire is entirely lens. No exposure to any other luminaire surfaces, from room-side.

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Energy and Performance Data

Electrical Performance - 2x4 (4000K, CA08 bottom lens)

Lumen Pkg	Delivered Nominal Lumens				Power	Efficacy (LPW)			
	CFR1	CFR2	CNC	DBR	Watts	CFR1	CFR2	CNC	DBR
2000	1938	2045	1984	1982	16.8	115	122	118	118
2500	2447	2583	2506	2503	21.2	115	122	118	118
3000	2957	3122	3029	3025	25.6	116	122	118	118
3500	3456	3648	3539	3547	30.2	114	121	117	117
4000	3923	4141	4017	4029	35.2	111	118	114	114
4500	4397	4641	4503	4560	40	110	116	113	114
5000	4791	5057	4906	4972	44	109	115	112	113
5500	5358	5655	5487	5570	50.2	107	113	109	111
6000	5771	6092	5910	5979	54.5	106	112	108	110
6500	6516	6878	6673	6491	60.5	108	114	110	107
7000	6738	7112	6900	7004	65.6	103	108	105	107
7500	7219	7620	7393	7517	70.8	102	108	104	106
8000	7812	8246	8000	8043	77	101	107	104	104
8500	8313	8775	8514	8491	82	101	107	104	104
9000	8739	9224	8949	8992	87.3	100	106	103	103

Optical Performance - 2x4 (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	DBR	CFR1	CFR2	CNC	DBR
2000	15.2	15.4	15.3	15.3	936	987	958	957
2500	16	16.2	16.1	16.1	1181	1247	1210	1208
3000	16.7	16.9	16.8	16.8	1428	1507	1462	1460
3500	17.2	17.4	17.3	17.3	1669	1761	1709	1713
4000	17.7	17.9	17.8	17.8	1894	1999	1939	1945
4500	18.1	18.3	18.2	18.2	2123	2241	2174	2202
5000	18.4	18.6	18.5	18.5	2313	2442	2369	2401
5500	18.8	19	18.9	18.9	2587	2730	2649	2689
6000	19	19.2	19.1	19.2	2786	2941	2853	2887
6500	19.4	19.6	19.5	19.4	3146	3321	3222	3134
7000	19.6	19.8	19.6	19.7	3253	3434	3331	3382
7500	19.8	20	19.9	19.9	3485	3679	3569	3629
8000	20.1	20.3	20.2	20.2	3772	3981	3862	3883
8500	20.3	20.5	20.4	20.4	4014	4237	4111	4100
9000	20.5	20.7	20.6	20.6	4219	4453	4321	4341

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.

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

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	-20ºC

Shipping Data

Bottom Lens	Weight (lbs)	Units per Pallet 49"L x 52"W x 55"H	Lens Description
CA08	32	9	Clear Acrylic, 0.080" thick
CA125	34.2	9	Clear Acrylic, 0.125" thick
CP125	33.9	9	Clear Polycarbonate, 0.125" thick
CP187	36.8	9	Clear Polycarbonate, 0.187" thick
CP250	39.8	9	Clear Polycarbonate, 0.250" thick

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Control Systems

- WaveLinx Pro Wireless
- WaveLinx Lite Wireless
- WaveLinx Wired
- DLVP
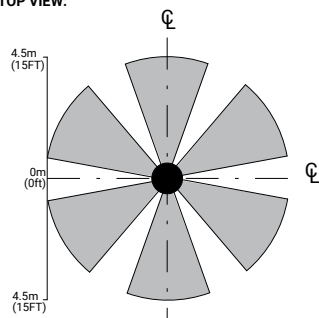
Connected Systems CLICK HERE

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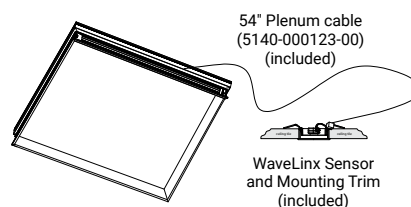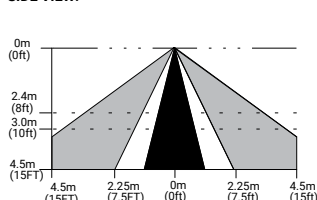
When more connectivity is required, the WaveLinx Pro Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings.

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:

54" Plenum cable (5140-000123-00) (included)

WaveLinx Sensor and Mounting Trim (included)

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
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

devices → areas → floors → buildings