Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	



Metalux

ArcLine 24ALN LED

2' x 4' Specification Grade LED Troffer
Curved Shielding

Typical Applications
Office • Education • Healthcare • Retail

Interactive Menu

- Order Information page 2
- Photometric Data page 3
- Control Solutions page 4
- Connected Systems page 4
- Product Warranty

Product Certification

c UL us LISTED · DLC PREMIUM · DLC · RoHS COMPLIANT · IC RATED · ISTM CERTIFIED

Product Features

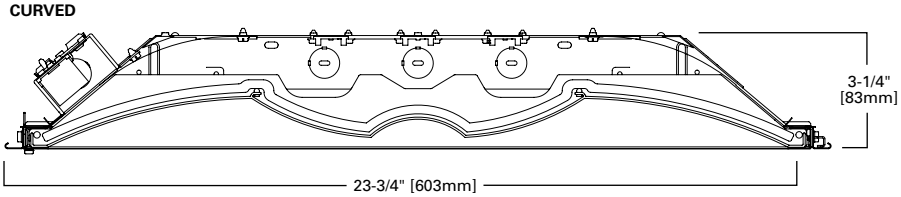
Connected Systems · damp location · LINEAR DISCONNECT Safe and convenient means of disconnecting power · MWS MODULAR WIRING SYSTEM CLICK HERE

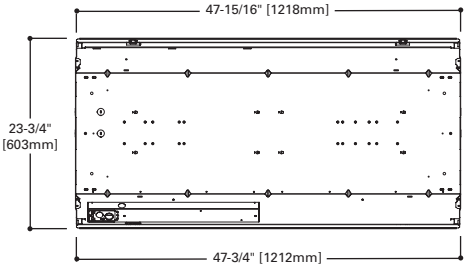
Top Product Features

- Available in 1' x 4', 2' x 2' and 2' x 4' recessed & surface versions
- Advanced optical control
- High performance efficacy up to 125 lumens per watt
- Over 60% energy savings when compared to fluorescent troffers
- Three CCT options: 3000K, 3500K and 4000K at Typical 85 CRI

Dimensional and Mounting Details

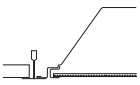
CURVED



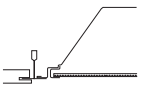


Ceiling Compatibility

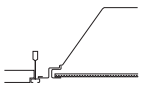
G
Grid/Lay-in
Standard



G
Concealed T



G
Slot Grid

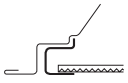


Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G
Slot Grid	G

(Verify compatibility/ consult factory.)

Door Frames

ALN
Flat, White Steel



Order Information

SAMPLE ORDER NUMBER: **24ALNG-LD5-45-UNV-L835-CD1-U**

Rating | Series | Trim Type | Door Frame | Lamp Type | Lumen Output | Shielding | Voltage

Rating	Series [6]	Trim Type	Door Frame	Lamp Type	Lumen Output		Shielding	Voltage [2]
[Blank]=Standard **ATW-SW4**=Chicago Rated	**24ALN**=2x4 ArcLine Series	**G**=Grid/Lay-in (Standard) [1] **G**=Concealed T **G**=Slot Grid	**[Blank]**=Flat White Steel Door (Standard)	**LD5**=LED 5.0	**Stock Lumen Output** **45**=4500 Lumens **55**=5500 Lumens	**MTO Lumen Output** **31**=3100 Lumens **36**=3600 Lumens **42**=4200 Lumens **50**=5000 Lumens **60**=6000 Lumens **67**=6700 Lumens **74**=7400 Lumens **80**=8000 Lumens	**[Blank]**=Smooth Frosted Acrylic, Curved (Standard)	**347V**=347 Volt [4] **UNV**=Universal Voltage 120-277 **48V**=48 Volt Low-voltage (Class 2)
	Notes (6) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.	**Notes** (1) An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture.						**Notes** (2) Products also available in non-US voltages and frequencies for international markets. (4) 347V versions are not available with emergency options

Emergency Options | CCT | Flex | Driver Type

Emergency Options	CCT	Flex	Driver Type
EL7W=7-watt, 120V-277V emergency battery pack installed [3] **EL14W**=14-watt 120V-277V emergency battery pack installed [3] **ELV7W**=7-watt, DLVP-compatible low voltage emergency battery pack installed [C] **ELV14W**=14-watt DLVP-compatible low voltage emergency battery pack installed [C] **GTR2**=Generator Transfer Relay [7] **ETRD**=Emergency Transfer Relay with dimming control [7]	**L830**=3000K **L835**=3500K **L840**=4000K	**A3/8-4/18GDIM**=3/8" Flex with 0-10V Dimming Leads See below for details. **A3/8-5/18GDIM**=Flex with 0-10V Dimming leads and Blue for alternate wiring. See below for details.	**CD**=0-10V Dimming Driver (1%-100% Dimming) **SR**=Sensor-ready Dimming Driver for LWIPD1 option (1%-100% Dimming) [B] **5LTD**=Fifth Light DALI Driver (10%-100% Dimming) [5], [E] **5LTHD**=Fifth Light Dimming Driver (1%-100% Dimming) [E] **LV1**=DLVP Dimming Driver (0%-100% Dimming) [C] **SD**=Step Dimming Driver (50%-100% Dimming) [5] **LH**=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming [F] **L5**=Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver [F]
Notes (3) With integral 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. Battery option increases total height by 1 inch. (7) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. (C) Consult DLVP system pages for additional details and compatibility.		**Flexible Metal Conduit Options** 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. **A3/8-4/18GDIM 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-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).	**Notes** (5) 3100, 3600, 4200 lumen packages not available with Step-dim (SD) and Fifth Light (5LTD) driver option. 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: (B) Consult Enlighted system pages for additional details and compatibility. (C) Consult DLVP system pages for additional details and compatibility. (E) Consult Fifth Light 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.

Number of Drivers | Integrated Sensing Systems | Packaging | Accessories

Number of Drivers	Integrated Sensing Systems	Packaging	Accessories (order separately)
1=1 Driver **2**=2 Drivers	**[Blank]**=No Sensor **SWPD1**=WaveLinx Wireless Integrated Sensor [A] **LWIPD1**=Enlighted Wireless Integrated Sensor [B] **LWTPD1**=Enlighted Wireless Tile-mount Sensor [B] **SLVPD1**=DLVP Low-voltage Integrated Sensor [C] **SVPD1**=0-10V Stand-alone Integrated Sensor [D]	**U**=Unit Pack **PAL**=Job Pack, out of carton **PALC**=Job Pack, in carton	**EQ-CLIP-U**=T-BAR Safety Earthquake Clips [1] **DF-24-W**=2' x 4' Drywall Frame Kit **SK-24-WS**=2' x 4' Shallow Surface Mount Kit **SK-24-WT**=2' x 4' Tall Surface Mount Kit **ISHH-01**=Programming Remote for Integrated Sensor [D] **ISHH-02**=Personal Control Remote for Integrated Sensor [D]
	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: (A) Consult WaveLinx system pages for additional details and compatibility. (B) Consult Enlighted system pages for additional details and compatibility. (C) Consult DLVP system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.		**Notes** (1) An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. 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: (D) Consult SVPD series system pages for additional details and compatibility.

Product Specifications

Construction
- Die-formed, code gauge cold rolled steel housing
- Full length die-formed stiffeners and unibody endplate for added strength
- Hemmed side flanges
- Unibody endplates are securely attached with interlocking tabs and screws
- Endplates have integral Grid-lock feature for safety and convenience
- Four auxiliary fixture end suspension points provided
- Ample KOs are provided for continuous row wiring

Integrated Controls
- 0-10V dimming to 1% standard
- WaveLinx wireless fixture for sensor-less wireless control
- WaveLinx sensor compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- SVPD sensor compatible for out of the box functionality
- DLVP sensor and driver compatible for low voltage applications
- DALI 2.0, Lutron, and step-dimming available

Electrical
- Long-life LED system with electrical driver for optimal performance
- LED's available in 3000K, 3500K or 4000K with a minimum CRI of 80
- Projected life is 60,000 hours at 95% lumen output
- Electronic drivers available for 120-277V applications

Emergency Battery Options
- Optional 120-277V emergency battery available in 7W or 14W
- 90-minute backup period for code compliance
- Test switch with laser pointer and testing from floor feature for ease of use
- EZ Key feature prevents accidental discharge during construction
- Generator transfer options available

Finish
- Multistage, iron phosphate pretreatment ensure maximum bonding and rust inhibition
- Housing and ballast cover finished with new 90% reflective white enamel for superior performance

Hinging/Latching
- Positive cam action steel latches with baked white enamel finish
- Safety-lock T-hinges allow hinging and latching either side
- Door assembly hinges down for easy access from below without tools

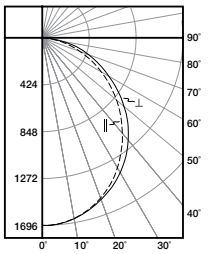
Frame/Shielding
- Die formed, heavy gauge flat steel door
- Mitered corners and painted after fabrication
- Baked matte white enamel finish
- Positive light seals
- Acrylic frosted lens

Compliance
- Modules are UL recognized components
- Indoor luminaires are cULus listed for 25ºC ambient environments
- Complies with IESNA LM-79
- LEDs compliant with LM-80 standards
- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

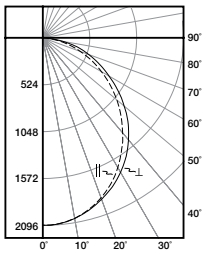
Warranty
- Five-year warranty standard. Optional ten year warranty available.

Photometric Data

View IES files



24ALNG-LD5-45-UNV-L835-CD1-U
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.19 x mounting height, (⊥) 1.23 x mounting height
Lumens: 4506
Input Watts: 32.4W
Efficacy: 139.1 LPW
Test Report: 24ALNG-LD5-45-UNV-L835-CD1-U.IES



24ALNG-LD5-55-UNV-L835-CD1-U
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.19 x mounting height, (⊥) 1.23 x mounting height
Lumens: 5566
Input Watts: 41.1W
Efficacy: 135.4 LPW
Test Report: 24ALNG-LD5-55-UNV-L835-CD1-U.IES

Energy and Performance Data

Stock or MTO	Catalog Logic (Curved Shielding)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	24ALNG-LD5-31-UNV-L830-CD1-U	2994	22.1	135
MTO	24ALNG-LD5-31-UNV-L835-CD1-U	3119	22.1	141
MTO	24ALNG-LD5-31-UNV-L840-CD1-U	3119	22.1	141
MTO	24ALNG-LD5-36-UNV-L830-CD1-U	3463	25.7	135
MTO	24ALNG-LD5-36-UNV-L835-CD1-U	3607	25.7	140
MTO	24ALNG-LD5-36-UNV-L840-CD1-U	3607	25.7	140
MTO	24ALNG-LD5-42-UNV-L830-CD1-U	4093	30.6	134
MTO	24ALNG-LD5-42-UNV-L835-CD1-U	4264	30.6	139
MTO	24ALNG-LD5-42-UNV-L840-CD1-U	4264	30.6	139
MTO	24ALNG-LD5-45-UNV-L830-CD1-U	4325	32.4	133
MTO	24ALNG-LD5-45-UNV-L835-CD1-U	4505	32.4	139
MTO	24ALNG-LD5-45-UNV-L840-CD1-U	4505	32.4	139
MTO	24ALNG-LD5-50-UNV-L830-CD1-U	4894	37.2	132
MTO	24ALNG-LD5-50-UNV-L835-CD1-U	5098	37.2	137
MTO	24ALNG-LD5-50-UNV-L840-CD1-U	5098	37.2	137
MTO	24ALNG-LD5-55-UNV-L830-CD1-U	5342	41.1	130
STOCK	24ALNG-LD5-55-UNV-L835-CD1-U	5565	41.1	135
STOCK	24ALNG-LD5-55-UNV-L840-CD1-U	5565	41.1	135
MTO	24ALNG-LD5-60-UNV-L830-CD1-U	5786	45.1	128
MTO	24ALNG-LD5-60-UNV-L835-CD1-U	6027	45.1	134
MTO	24ALNG-LD5-60-UNV-L840-CD1-U	6027	45.1	134
MTO	24ALNG-LD5-67-UNV-L830-CD1-U	6441	51.3	126
MTO	24ALNG-LD5-67-UNV-L835-CD1-U	6709	51.3	131
MTO	24ALNG-LD5-67-UNV-L840-CD1-U	6709	51.3	131
MTO	24ALNG-LD5-74-UNV-L830-CD1-U	7223	60.9	119
MTO	24ALNG-LD5-74-UNV-L835-CD1-U	7524	60.9	123
MTO	24ALNG-LD5-74-UNV-L840-CD1-U	7524	60.9	124
MTO	24ALNG-LD5-80-UNV-L830-CD1-U	7672	65.2	118
MTO	24ALNG-LD5-80-UNV-L835-CD1-U	7992	65.2	123
MTO	24ALNG-LD5-80-UNV-L840-CD1-U	7992	65.2	123

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) (1)	Theoretical L70 (Hours) (2)
25ºC	> 95%	> 390,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

Shipping Data

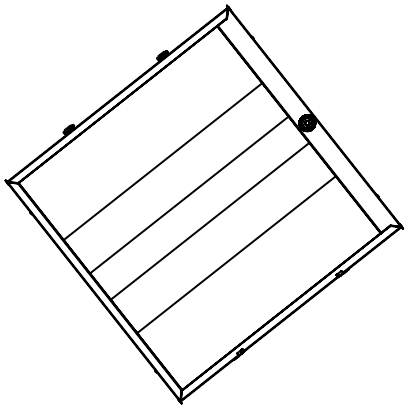
Catalog No.	Wt.
24ALNG-LD5-45-R	10 lbs.
24ALNG-LD5-55-R	10 lbs.

Control Systems

- WaveLinx
- DLVP
- Enlighted
- iLumin Plus

Connected Systems
CLICK HERE

Integrated Sensor



The ArcLine with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The ArcLine delivers superior lighting with integrated occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the ArcLine delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

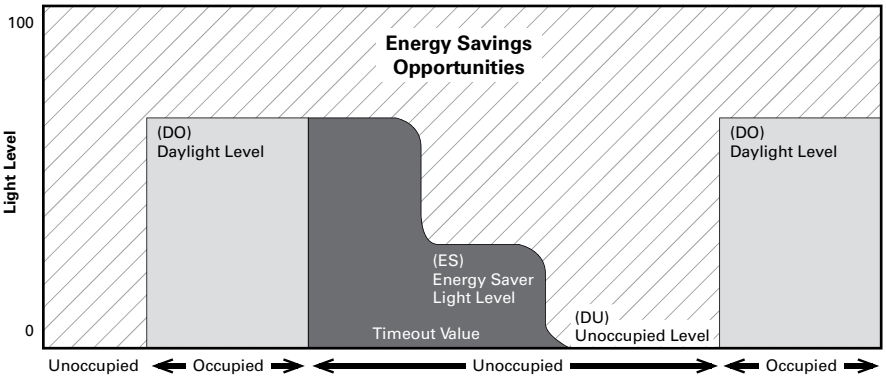
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The ArcLine with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

How it works:

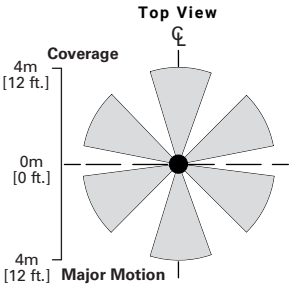
- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.

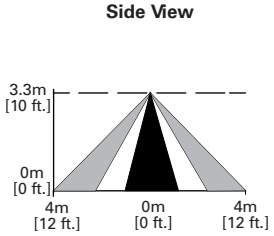


Target light level default: 500 lux at 8 ft.

Optional Remote Control







Recommended Mounting Height 8–12 ft.

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Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

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Specifications and dimensions subject to change without notice.