



## ArcLine LED Series

Specification Recessed

**Innovation** you can rely on™

 **COOPER** Lighting

# Metalux ArcLine™ LED Series

The Metalux's ArcLine™ LED Series blends modern architectural styling with innovative optical design to deliver leading-edge performance and energy savings while providing a soft natural illumination across its fluid profile for greater light uniformity. And, it simplifies installation and maintenance with a tool-less hinged door assembly.

## Design Performance Features

- Available in 1' x 1', 1' x 4', 2' x 2' and 2' x 4'
- Three CCT options: 3000K, 3500K and 4000K
- Each fixture offers two popular lumen packages at 85 CRI
- High performance efficacy in excess of 102 lumens per watt
- Energy savings in excess of 45% compared to a fluorescent troffer
- Standard 0-10V continuous dimming driver; combine with products from Cooper Controls for additional energy savings
- L70 at 50,000 hours
- 5-year warranty
- cULus – damp location listed, IC rated and ROHS.



ArcLine™

Visual Comfort	Versatile Design	Precision Optics	Energy Savings	Ease of Use	Control Flexibility
Streamlined design with architectural sleek, clean profile creates a fluid center panel appearance with soft natural illumination, while inhibiting the collection of dust and debris.	Multiple lumen packages, color temperatures, fixture sizes and specification options provide a complete solutions package for any application need.	Advanced optical design generates even light distribution with optimal uniformity, providing glare-free illumination while enhancing the architectural space.	High luminaire efficacy coupled with a variety of control options and a sustainable design provides reduced operating and maintenance costs.	One-piece shallow enclosure with cam-latched hinged door assembly offers tool-less access for installation and maintenance.	Equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V dimmer. Combine with occupancy sensors, daylighting controls and lighting relay panels from Cooper Controls to maximize energy savings.

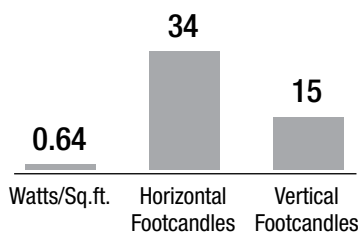


### 47% Energy Savings ArcLine LED

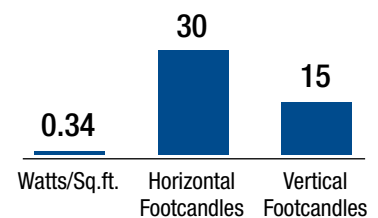
#### Troffer 2 Lamp, T8

(2) 32W U6 T8 Lamps, 120 Fixtures  
Electronic Ballast  
53 Watts per Fixture

LED Panels, 120 Fixtures  
Dimming Driver  
28 Watts per Fixture



BASED ON:  
ROOM SIZE - 100' X 100'  
CEILING HEIGHT - 9'  
WORKPLACE - 2.5'  
REFLECTANCE - 80/50/20  
LAYOUT - 8 X 10 CENTERS



# Ordering Information 1' x 1', 1' x 4', 2' x 2' and 2' x 4'

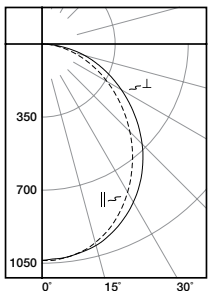
Sample Number: 2ALNG-LD1-45-UNV-L835-CD1-U

Rating	Width	Series	Trim Type	Door Frame Standard	Lamp Type	
[Blank]=Standard ATW-SW4=Chicago Rated <sup>1</sup>	2=2' Width [Blank]=1' Width	ALN=ArcLine Series	G=Grid/Lay-in - Standard <sup>2</sup> G=Concealed-T/Slot Grid	[Blank]=Flat White Steel Door	LD1=LED 1.0	
LED Lumens Output		Shielding	Voltage <sup>3</sup>	Options	Lamps Installed	Driver Type
13=1300 Lumens (1' x 1') 22=2200 Lumens (1' x 4') 34=3400 Lumens (1' x 4') 27=2700 Lumens (2' x 2')	36=3600 Lumens (2' x 2') 45=4500 Lumens (2' x 4') 55=5500 Lumens (2' x 4')	[Blank]=Smooth Frosted Acrylic (Standard)	347=347 Volt UNV=Universal Voltage 120-277 <sup>4</sup>	EL=Emergency Battery Installed <sup>5,6</sup> EL14=Emergency Installed, 1400 <sup>5,6</sup> Flex=Flex Installed (Reference Flex Ordering Information)	L830=3000K, LED L835=3500K, LED L840=4000K, LED	CD=0-10V Dimming Driver
Number of Drivers	Options	Packaging	Accessories			
1=1 Driver	PAF=Painted After Fabrication G1=Gasket, Door Frame and Housing G2=G1 plus Gasket between Lens and Door G3=G1 and G2 plus Gasketing on Mounting Surface of Fixture Trims	PALC=Job Pack, in Carton U=Unit Pack	EQ-CLIP-U=T-BAR Safety Earthquake Clips <sup>2</sup>			

**NOTES:** 1. Only required in ordering information for 2' x 2' and 2' x 4'. 2. An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. 3. Products also available in non-US voltage and frequencies for international markets. 4. Not available when specifying emergencies, voltage must be specific. 5. EL options are non-integral. 6. Both EL options are not available with the 5500 lumen or 1300 lumen fixture. 7. 5500 lumen option is only UL listed for the U.S. 8. Specifications and dimensions subject to change without notice.

## Photometrics

### 2ALNG-LD1-27-UNV-L835-CD1-U



#### Coefficients of Utilization

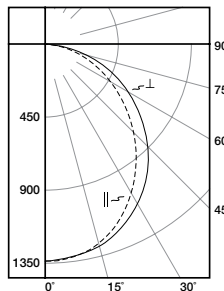
rc rw	Effective floor cavity reflectance									
	80%		50%		20%					
RCR	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	109	104	100	96	97	94	91	94	91	88
2	99	91	84	78	85	80	75	82	78	74
3	90	80	72	65	75	69	63	73	67	62
4	83	71	62	55	67	60	54	65	59	54
5	76	63	54	48	60	53	47	58	52	47
6	70	57	48	42	54	47	41	53	46	41
7	65	52	43	37	50	42	37	48	41	36
8	61	47	39	33	45	38	33	44	37	33
9	57	44	35	30	42	35	30	41	34	29
10	53	40	32	27	39	32	27	38	31	27

#### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	778	28.6
0-40	1258	46.2
0-60	2160	79.4
0-90	2720	100.0
0-180	2720	100.0

Dimming Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height  
Efficiency = 100%  
Lumens = 2720  
Input Watts = 27.9W  
Efficacy = 98 LPW  
Test: 2ALNG-LD1-27-UNV-L835-CD1-UIES

### 2ALNG-LD1-36-UNV-L835-CD1-U



#### Coefficients of Utilization

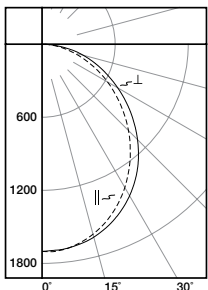
rc rw	Effective floor cavity reflectance									
	80%		50%		20%					
RCR	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	109	104	99	96	97	94	91	93	91	88
2	99	91	84	78	85	80	75	82	77	73
3	90	80	71	65	75	68	63	72	67	62
4	83	71	62	55	67	60	54	64	58	53
5	76	63	54	47	60	52	47	58	51	46
6	70	57	48	42	54	47	41	52	46	41
7	65	52	43	37	49	42	36	48	41	36
8	61	47	39	33	45	38	32	44	37	32
9	57	43	35	30	42	34	29	40	34	29
10	53	40	32	27	38	31	27	38	31	27

#### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1022	28.2
0-40	1656	45.7
0-60	2860	78.9
0-90	3626	100.0
0-180	3626	100.0

Dimming Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height  
Efficiency = 100%  
Lumens = 3626  
Input Watts = 36.8W  
Efficacy = 99 LPW  
Test: 2ALNG-LD1-36-UNV-L835-CD1-UIES

### 2ALNG-LD1-45-UNV-L835-CD1-U



#### Coefficients of Utilization

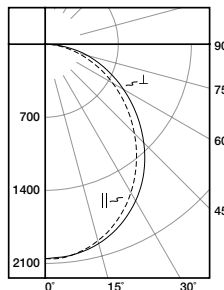
rc rw	Effective floor cavity reflectance									
	80%		50%		20%					
RCR	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	109	104	99	96	97	94	91	93	91	88
2	99	91	84	78	85	80	75	82	77	73
3	90	80	71	65	75	68	63	72	67	62
4	83	71	62	55	67	60	54	64	58	53
5	76	63	54	48	60	52	47	58	51	46
6	70	57	48	42	54	47	41	52	46	41
7	65	52	43	37	49	42	36	48	41	36
8	61	47	39	33	45	38	33	44	37	32
9	57	43	35	30	42	34	29	41	34	29
10	53	40	32	27	39	32	27	38	31	27

#### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1282	28.2
0-40	2078	45.8
0-60	3584	78.9
0-90	4541	100.0
0-180	4541	100.0

Dimming Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.2 x mounting height, (L) 1.2 x mounting height  
Efficiency = 100%  
Lumens = 4541  
Input Watts = 46.3W  
Efficacy = 98 LPW  
Test: 2ALNG-LD1-45-UNV-L835-CD1-UIES

### 2ALNG-LD1-55-UNV-L835-CD1-U



#### Coefficients of Utilization

rc rw	Effective floor cavity reflectance									
	80%		50%		20%					
RCR	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	109	104	99	96	97	94	91	93	91	88
2	99	91	84	78	85	80	75	82	77	73
3	90	80	71	65	75	68	63	72	67	62
4	83	71	62	55	67	60	54	64	58	53
5	76	63	54	48	60	52	47	58	51	46
6	70	57	48	42	54	47	41	52	46	41
7	65	52	43	37	49	42	36	48	41	36
8	61	47	39	33	45	38	33	44	37	32
9	57	43	35	30	42	34	29	41	34	29
10	53	40	32	27	39	32	27	38	31	27

#### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1573	28.2
0-40	2549	45.8
0-60	4396	78.9
0-90	5569	100.0
0-180	5569	100.0

Dimming Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height  
Efficiency = 100%  
Lumens = 5569  
Input Watts = 54.2W  
Efficacy = 103 LPW  
Test: 2ALNG-LD1-55-UNV-L835-CD1-UIES

**Cooper Lighting**

Headquarters  
1121 Highway 74 South  
Peachtree City, GA 30269

P: 770-486-4800  
www.cooperlighting.com

**International Sales**

Cooper Lighting  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
F: 770-486-4801

**Canada Sales**

Cooper Lighting  
5925 McLaughlin Road  
Mississauga, Ontario L5R 1B8  
P: 905-501-3000  
F: 905-501-3172

**The Cooper Lighting Family**

Halo  
Halo Commercial  
Portfolio  
IRiS  
RSA  
Metalux  
Corelite  
Neo-Ray  
Fail-Safe  
MWS  
Ametrix  
Shaper  
io  
Lumark  
McGraw-Edison  
Invue  
Lumière  
Streetworks  
AtLite  
Sure-Lites

**Domestic Distribution Facilities**

Cranbury, New Jersey  
Elk Grove Village, Illinois  
Irving, Texas  
Bloomington, California  
Peachtree City, Georgia

**Canadian Distribution Facilities**

Calgary, Alberta T2E 7V9  
Mississauga, Ontario L5R 1B8

**The Cooper Controls Family**

Greengate  
iLumin  
Zero 88  
Fifth Light Technology  
iLight (International Only)

Cooper Lighting, Innovation you can rely on, Metalux and Arcline are valuable trademarks of Cooper Industries in the United States and other countries. You are not permitted to use the Cooper Trademarks without the prior written consent of Cooper Industries.

Cooper Industries plc  
600 Travis, Ste. 5600  
Houston, TX 77002-1001  
P: 713-209-8400  
www.cooperindustries.com