

DESCRIPTION

The ArcLine 1' x 4' Series features a deep para-contoured fixture housing, high reflectivity and optimum lamp to lens spacing. The series produces total uniformity of light in the luminous area and is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The specification luminaire is designed to offer maximum efficiency and performance for today's unique interior specifications. The ArcLine Series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

5-5/8" deep, para-contoured housing, die formed code gauge, prime cold rolled steel. Die embossed housing has full length die formed stiffeners for added strength. Ballast/ wireway cover easily removed without tools. Die formed captive lampholder bracket fully encloses lamp-holder wiring permitting easy lampholder replacement. Heavy endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. KO's for continuous row wiring. Endplates have integral Grid-Lock feature for safety and convenience.

Controls

The ArcLine LED is equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Controls (www.coopercontrol.com) to maximize energy savings.

Electrical*

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000k, 3500k or 4000k with a CRI ≥ 85. Projected life is 50,000 hours at 70% lumen output. cULus listed.

Electronic drivers are available for 120-277V applications.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white enamel finish.

Hinging/Latching

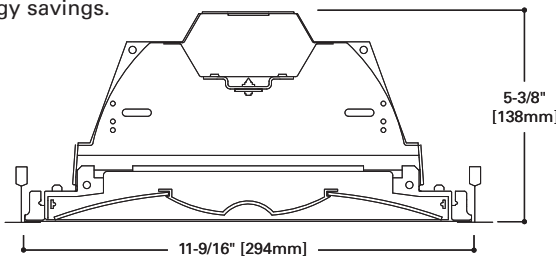
Positive cam action steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side. Door assembly hinges down for easy access from below without tools.

Frame/Shielding

Die formed heavy gauge, flat steel door with reinforced mitered corners and baked white enamel finish. Quadrisealed to prevent light spillage. Frosted acrylic profile lenses provide a soft but effective distribution of light.

Compliance

Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights™ Consortium Qualified (both lumen versions). Refer to www.designlights.org Qualified Products List under Family Models for details.



**ALN
LED**

**1' X 4' TROFFER
LED LAMP**

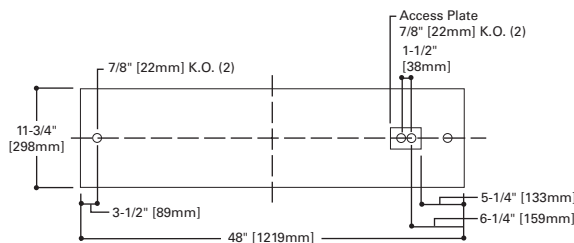
Specification Troffer

For Use In Insulated
Ceilings

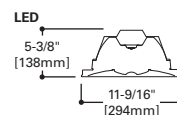
ArcLine

DESIGNLIGHTS
CONSORTIUM

MOUNTING DATA





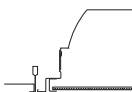
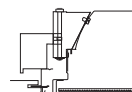
LAMP CONFIGURATIONS



DOOR FRAMES



CEILING COMPATIBILITY

G	G	G	F	Ceiling Type	Trim Type
Grid/Lay-in Standard	Concealed T	Slot Grid	Aluminum Flange Trim With Supporting Swing Gates	Exposed Grid	G
				Concealed T	G
				Slot Grid	G
				Flange	F

(Verify compatibility/ consult Pre Sales Technical Support.)

COOPER LIGHTING

ENERGY DATA

Input Watts:
22=27W
34=48W

*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

**Consult Pre Sales Technical Support.

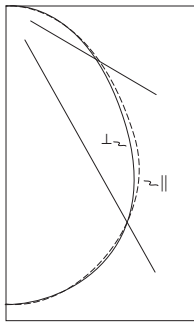
LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



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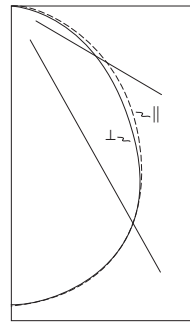
PHOTOMETRICS



ALNG-LD1-34-UNV-L835-CD1-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (II) 1.2 x mounting
 height, (L) 1.2 x
 mounting height
 Efficiency: 100%
 Lumens: 3412
 Input Watts: 48.3W
 Efficacy: 70.6 LPW
 Test Report:
 ALNG-LD1-34-UNV-
 L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	1356	1356	1356
5	1359	1351	1349
10	1336	1330	1328
15	1296	1295	1298
20	1244	1248	1251
25	1176	1185	1187
30	1098	1109	1103
35	1007	1019	1001
40	908	917	884
45	802	803	760
50	695	687	640
55	587	573	530
60	482	467	428
65	380	368	340
70	284	277	254
75	196	197	179
80	119	126	111
85	56	58	53
90	0	0	0



ALNG-LD1-22-UNV-L835-CD1-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (II) 1.2 x mounting
 height, (L) 1.2 x
 mounting height
 Efficiency: 100%
 Lumens: 2212
 Input Watts: 28.6W
 Efficacy: 77.3 LPW
 Test Report:
 ALNG-LD1-22-UNV-
 L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	879	879	879
5	881	876	874
10	866	862	861
15	840	840	841
20	806	808	811
25	763	768	770
30	711	719	716
35	652	660	650
40	588	594	574
45	520	522	494
50	450	446	416
55	382	372	345
60	313	303	279
65	247	239	220
70	185	180	165
75	128	128	116
80	79	82	72
85	38	38	34
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance																				
	80%				70%				50%				20%								
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0%
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
	1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85
	2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71	71	71
	3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61
	4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52	52	52
	5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46	46	46
	6	71	58	50	43	70	58	49	43	56	48	43	54	47	42	52	47	42	40	40	40
	7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36	36	36
	8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32	32	32
	9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29	29	29
	10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26

Coefficients of Utilization

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rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0%
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
	1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85	85	85
	2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71	71	71
	3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61
	4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52	52	52
	5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46	46	46
	6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40	40	40
	7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36	36	36
	8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32	32	32
	9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29	29	29
	10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1036	30.4
0-40	1666	48.8
0-60	2782	81.5
0-90	3412	100.0
0-180	3412	100.0

Luminaire Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	4066	4071	3853
55	3668	3581	3312
65	3223	3121	2884
75	2715	2728	2479
85	2303	2385	2180

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	671	30.3
0-40	1079	48.8
0-60	1803	81.5
0-90	2212	100.0
0-180	2212	100.0

Luminaire Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2651	2661	2518
55	2401	2338	2168
65	2107	2038	1876
75	1783	1783	1615
85	1572	1572	1406

ORDERING INFORMATION

SAMPLE NUMBER: ALNG-LD1-34-UNV-L835-CD1-U

<p>Rating Blank= Standard ATW-SW4= Chicago Rated</p>	<p>Lamp Type LD1=LED 1.0</p>	<p>Voltage⁽²⁾ UNV=Universal Voltage 120-277⁽⁴⁾</p>	<p>Driver Type CD=0-10V Dimming Driver</p>	<p>Packaging U=Unit Pack PALC=Job Pack, in carton</p>
<p>Width Blank=1' Width</p>	<p>LED Lumens Output 22=2200 Lumens 34=3400 Lumens</p>	<p>Options Flex=Flex Installed (Reference Flex ordering information) EL=Emergency Installed⁽⁵⁾</p>	<p>Number of Drivers 1=1 Driver</p>	<p>ACCESSORIES EQ-CLIP-U=T-BAR Safety Earthquake Clips⁽¹⁾ F2M-14S-W-U=Field Installed Flange Kit DF-14-W=1' x 4' Drywall Frame Kit</p>
<p>Series⁽⁶⁾ ALN=ArcLine Series</p>	<p>Shielding Blank=Smooth Frosted Acrylic (standard)</p>	<p>Lamps Installed L830=3000K L835=3500K L840=4000K</p>		
<p>Trim Type G=Grid/Lay-in - Standard⁽¹⁾ G=Concealed T G=Slot Grid F=Aluminum Flange Trim⁽⁴⁾</p>	<p>Option - Aluminum Flange Trim⁽⁴⁾ Blank=SW (Single White) Type Color 'S' Single 'N' Natural 'R' In Row 'W' White 'E' End of Row</p>			

NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. ⁽²⁾Products also available in non-US voltages and frequencies for international markets. ⁽³⁾Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾Specify row configuration, type in catalog number when ordering complete fixture. ⁽⁵⁾Must specify voltage (120-277V) when selecting EL option. ⁽⁶⁾DesignLights™ Consortium Qualified (both lumen versions). Refer to www.designlights.org Qualified Products List under Family Models for details.

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

SHIPPING INFORMATION

Catalog No.	Wt.
ALNG-LD1-22	19 lbs.
ALNG-LD1-34	19 lbs.