

DESCRIPTION

ArcLine is a premium grade specification lensed troffer series. This innovative, high quality luminaire is dedicated to the latest solid state lighting and driver technology for optimal performance and energy efficiency. The ArcLine is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The ArcLine series features efficiency, quality and performance. The 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

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Ample KOs are provided 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 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 with reinforced mitered corners and baked white enamel finish. Positive light seals. Acrylic frosted lens.

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.



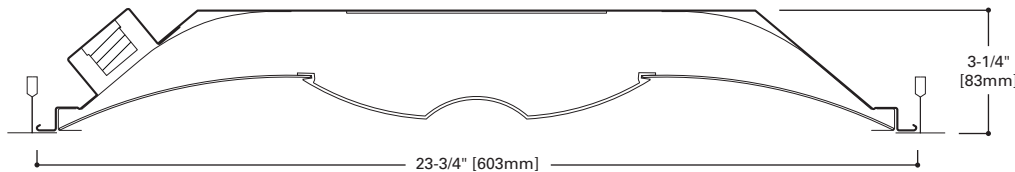
**2ALN
LED**

**2' X 4' TROFFER
LED LAMPS**

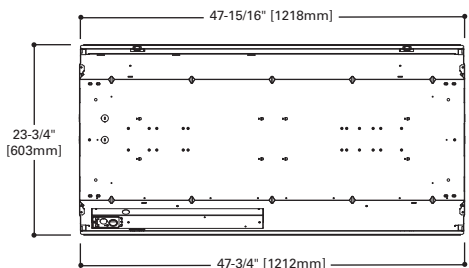
Specification Troffer
For Use in Insulated
Ceilings

ArcLine

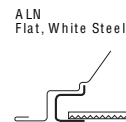
DESIGNLIGHTS
CONSORTIUM



MOUNTING DATA



DOOR FRAMES



ENERGY DATA

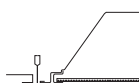
Input Watts:
45=46W
55=54W

CEILING COMPATIBILITY

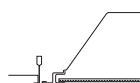
G
Grid/Lay-in
Standard



G
Concealed T



G
Slot Grid



Ceiling Type **Trim Type**

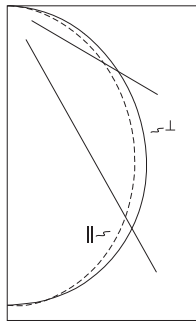
Exposed Grid G
Concealed T G
Slot Grid G

(Verify compatibility/ consult factory.)

LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.

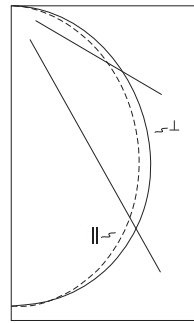
PHOTOMETRICS



2ALNG-LD1-45-UNV-L835-CD1-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (II) 1.2 x mounting
 height, (L) 1.3 x
 mounting height
 Efficiency: 100%
 Lumens: 4541
 Input Watts: 46.3W
 Efficacy: 98 LPW
 Test Report:
 2ALNG-LD1-45-UNV-
 L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across L
0	1672	1672	1672
5	1670	1666	1665
10	1638	1642	1645
15	1587	1599	1612
20	1519	1541	1560
25	1434	1465	1493
30	1335	1377	1412
35	1224	1276	1317
40	1106	1165	1209
45	986	1046	1089
50	859	919	963
55	733	791	835
60	610	664	705
65	488	540	578
70	369	422	459
75	259	310	343
80	160	206	219
85	74	95	96
90	0	0	0



2ALNG-LD1-55-UNV-L835-CD1-U
 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 Report:
 2ALNG-LD1-55-UNV-
 L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across L
0	2053	2053	2053
5	2050	2045	2043
10	2009	2015	2018
15	1947	1962	1976
20	1865	1890	1913
25	1761	1799	1830
30	1640	1690	1731
35	1504	1566	1615
40	1359	1429	1481
45	1207	1283	1334
50	1053	1128	1180
55	899	971	1023
60	746	817	864
65	599	663	711
70	452	519	562
75	317	381	420
80	195	254	266
85	90	116	115
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance																			
	80%			70%			50%			30%			10%			0%				
rw	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30		
RCR	0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25	27	25

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

Luminaire Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2209	2343	2439
55	2024	2184	2306
65	1829	2024	2166
75	1585	1897	2099
85	1345	1726	1745

Coefficients of Utilization

rc	Effective floor cavity reflectance																			
	80%			70%			50%			30%			10%			0%				
rw	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30		
RCR	0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25	27	25

Zonal Lumen Summary

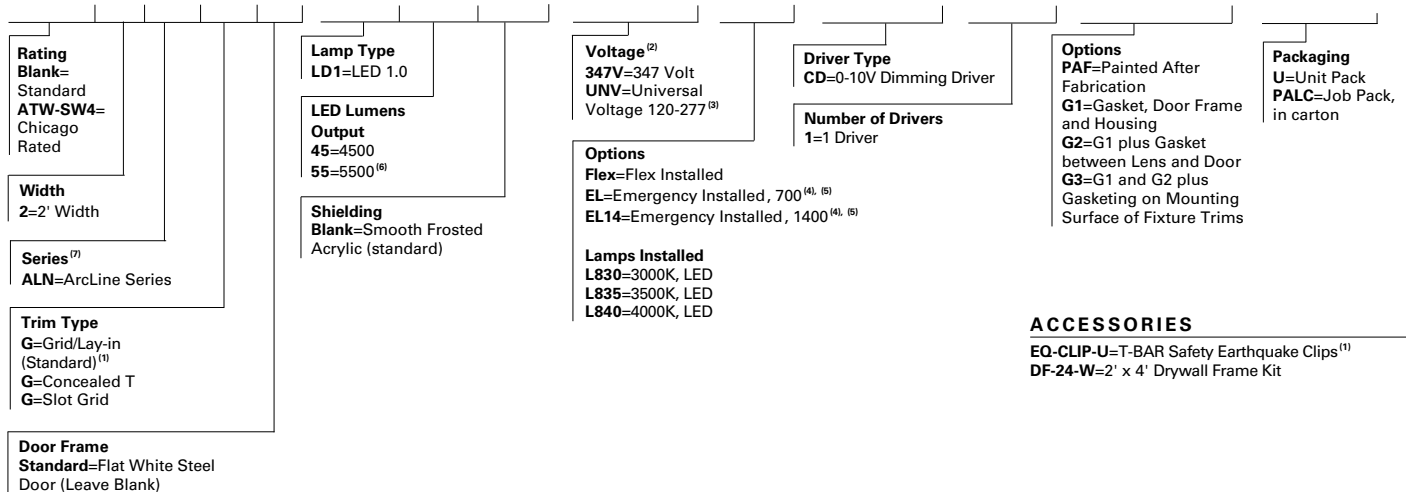
Zone	Lumens	%Fixture
0-30	1573	28.2
0-40	2549	45.8
0-60	4396	78.9
0-90	5569	100.0
0-180	5569	100.0

Luminaire Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2704	2874	2988
55	2483	2681	2825
65	2245	2485	2665
75	1940	2332	2570
85	1636	2108	2090

ORDERING INFORMATION

SAMPLE NUMBER: 2ALNG-LD1-45-UNV-L835-CD1-U



ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips⁽¹⁾
 DF-24-W=2' x 4' Drywall Frame Kit

SHIPPING INFORMATION

Catalog No.	Wt.
2ALNG-LD1-45	10 lbs.
2ALNG-LD1-55	10 lbs.

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⁾EL options are non-integral. ⁽⁵⁾Both EL options are not available with the 5500 lumen fixture. ⁽⁶⁾5500 lumen option is only UL listed for the U.S. ⁽⁷⁾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.