DESCRIPTION

ArcLine is a premium grade specification lensed troffer series. This innovative, high quality luminaire is dedicated to the latest lamp and micro electronic ballast 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 #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length dieformed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Micro ballast cover*** reduces ballast shadow for superior lens brightness uniformity and is easily removed without tools. Die formed captive lampholder brackets fully enclose lampholder wiring permitting easy lampholder replacement. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. KOs for continuous row wiring. Endplates have integral Grid-lock feature for safety and convenience.

Electrical

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Rotor lock lampholders. UL/CUL listed. Suitable for damp locations.**

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 paint after fabrication, baked matte white enamel finish. Positive light seals. Light stabilized, acrylic frosted lens.

Controls

Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energysaving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Controls (www.coopercontrol.com) to maximize energy savings.



2ALN 228T5 254T5

2' X 4' TROFFER 2 T5 LAMPS

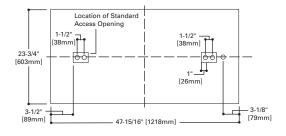
Specification Architectural Troffer

For Use In Insulated Ceilings



3-1/4" [83mm]

MOUNTING DATA



DOOR FRAMES



LAMP CONFIGURATIONS

3-1/4" [83mm]		<u></u>
X=4-3/4" [121mm]	X X X	

CEILING COMPATIBILITY

Standard

Grid/Lav-in

G Concealed T



G Slot Grid



F Flange Trim With Supporting Swing Gates



 Ceiling Type
 Trim Type

 Exposed Grid Concealed T Slot Grid Flange
 G

(Verify compatibility/ consult factory)

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps 228T5 (62), 254T5 (117)

- *Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.
- **Consult Pre Sales Technical Support.
- ***Low profile emergency unit option only.
 ****When ordering Flange Kit for
- installation in drywall ceilings, see options and accessories compatibility section and ordering logic.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL. STATE OR FEDERAL LAWS



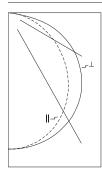




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PHOTOMETRICS



2ALNG-228T5-UNV-EB81-U

Electronic Ballast (2) F28W/T5/835/ECO Lamps, 2900 Lumens Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height Efficiency 81.4%
Test Report: 2ALNG-228T5-UNV-EB81-U.IES

LER = FL79 Yearly Cost of 1000 lumens, 3000 hrs at

.08 KWH = \$3.04

Candlepower

Angle	Along II	45°	Across ⊥
0	1581	1581	1581
5	1576	1575	1582
10	1552	1559	1571
15	1512	1531	1552
20	1457	1488	1524
25	1383	1435	1482
30	1295	1369	1434
35	1197	1289	1370
40	1087	1201	1296
45	968	1100	1205
50	844	988	1106
55	715	873	996
60	594	747	880
65	467	622	745
70	352	494	604
75	239	368	429
80	141	221	190
85	61	65	51
90	0	0	0

Coefficients of Utilization

	Eff	ectiv	/e fl	oor c	avity re	eflec	tanc	е	20%									
rc	80%		70%			50%				30%			10%					
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	97	97	97	97	95	95	95	95	90	90	90	87	87	87	83	83	83	81
1	88	84	81	78	86	83	79	76	79	76	74	76	74	72	73	71	70	68
2	80	73	68	63	78	72	66	62	69	64	61	66	62	59	64	61	58	56
3	73	64	57	52	71	63	57	51	60	55	51	58	54	50	56	52	49	47
4	67	57	49	44	65	56	49	44	54	48	43	52	46	42	50	45	42	40
- 5	61	51	43	38	59	50	43	37	48	42	37	46	41	37	45	40	36	34
6	56	45	38	33	55	45	38	33	43	37	32	42	36	32	40	36	32	30
7	52	41	34	29	51	40	34	29	39	33	28	38	32	28	37	32	28	26
- 8	49	37	30	26	47	37	30	26	36	30	25	35	29	25	34	29	25	24
9	45	34	28	23	44	34	27	23	33	27	23	32	27	23	31	26	23	21
10	43	32	25	21	42	31	25	21	30	25	21	30	24	21	29	24	21	19

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1244	21.4	26.4
0-40	2050	35.3	43.4
0-60	3666	63.2	77.7
0-90	4719	81.4	100.0
0-180	4719	81.4	-100.0

L	u	m	i	n	а	n	С	е	Data	a

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2196	2495	2733
55	1999	2441	2785
65	1772	2361	2828
75	1481	2281	2269
85	1123	1196	939

SAMPLE NUMBER: 2ALNG-228T5-UNV-EBT1-U

Number of

Lamps 2=2 Lamps

(Not included)

Wattage (Length)

28T5=28W T5 (48")

Acrylic (standard)

Type

'S' Single

'R' In Row

'E' End of Row

54T5=54W T5HO (48"

Shielding Blank=Smooth Frosted

Blank=SW (Single White)

Option – Aluminum Flange Trim (4

Color

'N' Natural

'W' White

Rating Blank= Standard ATW-SW4-Chicago Rated Width 2=2' Width Series ALN=ArcLine Series Trim Type G=Grid/Lay-in (Standard)(1) G=Concealed T

G=Slot Grid **F**=Flange Trim Door Frame

Standard=Flat White Steel Door (Leave Blank)

NOTES: ⁽¹⁾ An EQ Grid Clip is recommended for all 9/16" ceiling systems. ⁽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⁾ .90 and 1.15 ballast factor available for 2 28W T5 lamps only. ⁽⁶⁾ Step Dimming ballast available for 2 28W T5 lamps only. ⁽⁶⁾ T1-Lamp step dimming ballast in a Normal Ballast factor not available. ²-Lamp ballast will not operate 1-Lamp. ⁽⁶⁾ 1-Lamp ballast in a High Ballast factor not available. ⁽⁶⁾ Low profile emergency unit only, must specify voltage. ⁽⁶⁾ For a complete listing of Fifthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. ⁽⁷⁾ (7) ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ⁽¹²⁾ Specification grade 0-10V dimming ballast are NEMA premium and CFE listed. They are compatible with low mercury and energy earling largy services. are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

Voltage (2) **347V**=347 Volt UNV=Universal Voltage 120-277 (3)

Options GL=Single Element Fuse

GM=Double Element Fuse

Lamps=Lamps Installed (see options and accessories) Flex=Flex Installed (Reference Flex ordering information)

EL=Emergency Installed (9)

Ballast Type (2)

EBT_ =T5/T5HO Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Standard Ballast Factor=1.0

Ballast/FactorType

EBT_N=T5 Electronic Program Rapid Start.
Total Harmonic Distortion < 10%.
Normal Ballast Factor=.90 ⁽⁶⁾

EBT_H=T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%.

High Ballast Factor=1.15 ^{(5), (8)}

EBT_NDIM=T5 Electronic Program Rapid Start.

Total Harmonic Distortion < 10%. Step Dimming, Normal Ballast Factor=.95-1.0 (6), (7)

EBT_HDIM=T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Step Dimming, High Ballast Factor=1.15⁽⁶⁾

0-10V Dimming Ballasts (11)

5LTV5_=T5 0-10V Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0

5LTVS5_=T5 0-10V Spec Grade Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0 (12)

5LTV5H_=T5HO 0-10V Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0

5LTVS5H_=T5HO 0-10V Spec Grade Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0 (12)

Fifth Light DALI Ballasts (10)

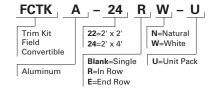
Number of Ballasts 1=1 Ballast 2=2 Ballasts

5LT5_=T5 DALI Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0

5LT5H_=T5HO DALI Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0

ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips(1) FCTKA-24W-U=Field Installed Flange Kit



Options

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

Packaging

U=Unit Pack PALC=Job Pack, in carton

SHIPPING DATA

Catalog No. Wt. 2ALNG-228T5 20 lbs. 2ALNG-254T5 20 lbs.

