Metalux

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 ballst 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. Ample KOs are provided 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 ensure positive lamp retention. 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 214T5 224T5

2' X 2' TROFFER 2 T5 LAMPS

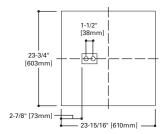
Specification Architectural

For Use In Insulated Ceilinas



3-1/4" [83mm] 23-3/4" [603mm]

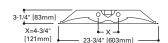
MOUNTING DATA



DOOR FRAMES



LAMP CONFIGURATIONS



Ceiling

CEILING COMPATIBILITY

Standard

Grid/Lav-in







ge Trim	Type		
Supporting ng Gates	Exposed Grid Concealed T Slot Grid Flange		
) <u>#</u> /	(Verify compatible		

ility/ consult

Trim

Type

G

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps 214T5 (33), 224T5 (52)

- *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



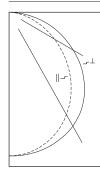


Safe and convenient means of disconnecting power





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2ALN-224T5-UNV-EB81-U

Electronic Ballast (2) F24W/T5/841 Lamps, 1750 Lumens Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height Efficiency 80.4% Test Report: 2ALN-224T5-UNV-EB81-U.IES

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$4.36

LER = FL55

Candlepower

Angle	Along II	45°	Across 1
0	968	968	968
5	963	965	968
10	947	954	962
15	920	935	950
20	884	908	931
25	838	874	907
30	782	832	875
35	721	782	833
40	651	723	781
45	578	659	721
50	502	586	652
55	422	509	576
60	347	430	494
65	272	351	411
70	202	274	328
75	139	202	245
80	83	131	154
85	34	56	64
90	0	0	0

Coefficients of Utilization

Effective floor cavity reflectance 20%																		
rc		80	1%			70	%			50%			30%			10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	96	96	96	96	93	93	93	93	89	89	89	86	86	86	82	82	82	80
1	87	83	80	77	85	81	78	75	78	75	73	75	73	71	72	70	69	67
2	79	72	67	62	77	71	66	61	68	64	60	65	62	59	63	60	57	56
3	72	64	57	52	70	62	56	51	60	55	50	58	53	49	56	52	48	47
4	66	56	49	44	64	55	48	43	53	47	43	51	46	42	49	45	42	40
5	61	50	43	38	59	49	42	37	48	42	37	46	41	36	44	40	36	34
6	56	45	38	33	54	44	38	33	43	37	32	42	36	32	40	35	32	30
7	52	41	34	29	51	40	34	29	39	33	29	38	32	28	37	32	28	26
8	48	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	42	32	25	21	41	31	25	21	30	25	21	30	24	21	29	24	21	19

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	758	21.7	26.9
0-40	1245	35.6	44.3
0-60	2200	62.9	78.2
0-90	2813	80.4	100.0
0-180	2813	80.4	-100.0

1				Doto
Lu	ımı	пa	псе	Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2805	3198	3499
55	2525	3045	3466
65	2208	2850	3337
75	1843	2678	3248
85	1339	2205	2520



SAMPLE NUMBER: 2ALNG-214T5-UNV-EBT1-U

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

Door Frame Standard=Flat White Steel Door (Leave Blank)

G=Slot Grid

F=Flange Trim

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. ⁽⁶⁾T-Lamp step dimming ballast in a Normal Ballast factor not available. ²⁻¹Low profile emergency unit only. Short T5 ballast only (GE). No access plate. Wire through end plate. Please specify voltage. ⁽⁶⁾Step dimming ballast available for 2 14W T5 lamp sonly. ⁽⁶⁾For omplete listing of Fifthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. ⁽¹⁰⁾0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ⁽¹¹⁾Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy savilgamps. ⁽¹³⁾Specification Grade 0-10V ballast not available for 24W T5HO lamps.

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

Number of

Lamps 2=2 Lamps

(Not included)

Shielding

Type

'S' Single

'R' In Row

'E' End of Row

Wattage (Length)

14T5=14W T5 (24")

Acrylic (standard)

24T5=24W T5HO (24"

Blank=Smooth Frosted

Blank=SW (Single White)

Option – Aluminum Flange Trim (4)

Color

'N' Natural

'W' White

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)

Step Dimming, High Ballast Factor=1.15 (5), (8) EL=Emergency Installed⁽⁷⁾ 0-10V Dimming Ballasts (10)

Ballast Type (2)

Ballast/FactorType

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 (11) 5LTV5H_=T5HO 0-10V Program Rapid Start.

EBT_ =T5/T5HO Electronic Program Rapid Start.

Total Harmonic Distortion < 10%.

Standard Ballast Factor=1.0

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

Normal Ballast Factor=.90

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

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

EBT_HDIM=T5 Electronic Program Rapid Start.

Step Dimming, Normal Ballast Factor=.95-1.0 (5), (8)

Total Harmonic Distortion < 10%.

Total Harmonic Distortion < 10%.
Ballast Factor 1.0 (13) 5LTVS5H_=T5HO 0-10V Spec Grade Program Rapid

Start. Total Harmonic Distortion < 10%.
Ballast Factor 1.0 (11), (12)

Fifth Light DALI Ballasts (9

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

Number of Ballasts 1=1 Ballast

Options

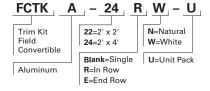
G1=Gasket, Door Frame and Housing G2=G1 plus Gasket between Lens and Door G3=G1 and G2 plus Gasketing on Mounting Surface of Fixture Trims

Packaging U=Unit Pack

PALC=Job Pack, in carton

ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips(1) FCTKA-22W-U=Field Installed Flange Kit



SHIPPING DATA

Catalog No. Wt. 2ALNG-214T5 10 lbs. 2ALNG-224T5 10 lbs.

