

Maximum versatility highly efficient and simple to use.

AA248 AA TROFFER



1' X 4' RECESSED FLUORESCENT
FULL SIZE LENS FRAME
STATIC ONLY, 2 LAMP T8 OR T12

The high performance AA series of lens troffers offer unique features that outperform any other comparable fluorescent troffer and provide more value for your money. The 2' x 4' and 1' x 4' models offer rolled over edges, integrated light leak stops, and mitered corners on door frames to make this the toughest and highest performance troffer in its class. Side mount ballast on 1' x 4' is ideal for 1 lamp applications.

Project: _____
Location: _____
Catalog No: _____
Fixture Type: _____
Mfg: _____ Lamps: _____ Qty: _____
Notes: _____

Ordering Guide

Explanation of Catalog Number Example: AA248-120SOVA

Family	Lamp Quantity	Nominal Lamp Size	Voltage	Ballast Type	Shielding Designation	Door Frame	Options
AA	2	48					
AA Troffer	2 = 2 Lamps	48 = 48"	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	LE = T12 Magnetic SO = T8 Electronic	VA = 0.095" Pattern 12 Acrylic Lens VB = 0.125" Pattern 12 Acrylic Lens	Blank = Flush Steel RA = Regressed Aluminum	See Next Page

AA248

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Features

- Efficiency 70.7%.
- Shallow 4" depth.
- One-piece housing.
- Flat steel full-size lens frame.
- Regressed extruded aluminum lens frame (optional).
- Cam-action latches.
- Twin knock-out access plate for easy closed lens frame wiring.
- Hold-down clips ordered separately.
- Luminaire side rails with rolled-over edges for maximum safety.

Specifications

Performance: In an installation of 2 lamp 32W luminaires in a room cavity ratio of 1, with reflectance of 80% ceiling, 50% walls, 20% floor, the C.U. shall not be less than .76. To reduce glare the average luminance at 65 shall not exceed 2449 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall be not less than 64%.

Materials: Chassis parts are die-formed code gauge cold rolled steel. Lens frames—flat full-size steel frame, (RA) regressed full-sized aluminum frame.

Chassis Exterior: Chassis exterior—white baked polyester enamel. Cavity—white baked polyester enamel minimum 84% reflectance. Phosphate undercoating.

Lens: Standard VA. Extruded virgin acrylic 3/16" square based female cones, running 45° to the panel edge, 0.095" nominal thickness (similar to pattern 12).

Electrical: Rapid start HPF, thermally protected class "P" ballast C.B.M. certified by E.T.L. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

Labels: Listed by CSA.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Options/Accessories

Lens/shielding:

VB: Prismatic acrylic lens, pattern 12, .125" nominal thickness.

VY: Prismatic acrylic lens, pattern 12, .130" nominal thickness.

KA: Prismatic acrylic lens, pattern 19, .156" nominal thickness.

AP: Parabolic louver, acrylic silver, 1/2" x 1/2" x 1/2".

SA: Parabolic louver, acrylic silver, 1 1/2" x 1 1/2" x 7/8".

Drywall Kit: For plaster frames, order Catalog Number: **FK91X4**.

Internal Interference Filter: Consult your Philips Lighting representative.

Emergency Lighting System: SUFFIX: **O**.

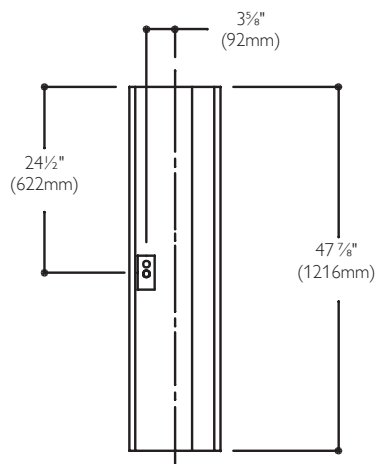
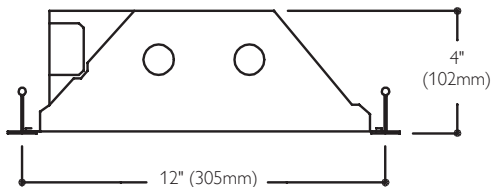
Emergency battery pack with charger. (90 minutes at 20% of lumens for 1 lamp).

Radio Interference Filter: 120, 277 or 347 volt, 50 or 60 Hz. SUFFIX: **R**.

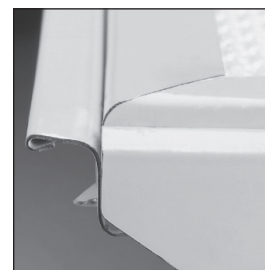
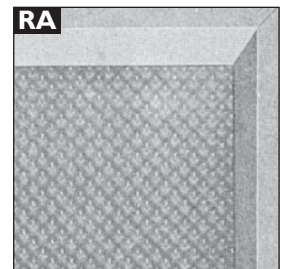
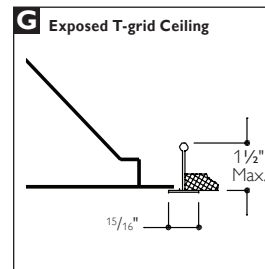
Ballast Options: For other ballast options, consult your Philips Lighting representative.

Hold-Down Clip Kit: Catalog number **AA14-HD** (Clip kit required for AA 1x4 models only).

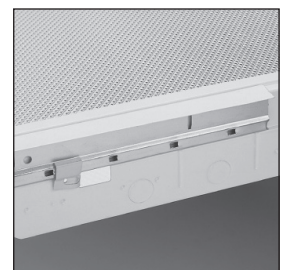
Dimensions



Mounting Methods



Hemmed edge for safe handling.



End cap hold-down clip. Ordered separately—catalog number **AA14-HD**.

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Performance

Model No. AA248-120S0VA

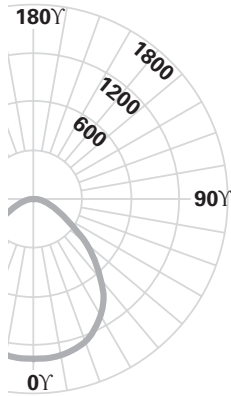
Report Number: LSCA327

Catalog Number: AA248-120S0VA

Lamp: (2) F32T8/TL841 Report is based on 2950 lumens per lamp.

Luminaire: 1' x 4' indoor recessed troffer.

Efficiency: 64.0%



Candela Distribution

Angle	0.0	22.5	45.0	67.5	Across
0	1613	1613	1613	1613	1613
5	1622	1607	1618	1614	1609
10	1595	1602	1599	1604	1600
15	1560	1565	1574	1586	1574
20	1523	1514	1530	1535	1527
25	1445	1447	1468	1470	1458
30	1365	1366	1376	1373	1369
35	1249	1261	1261	1250	1252
40	1114	1129	1136	1108	1081
45	953	968	956	919	895
50	773	777	761	714	703
55	599	588	572	536	508
60	436	424	397	374	358
65	317	294	268	271	250
70	210	209	185	205	192
75	138	155	125	157	161
80	99	107	108	112	119
85	53	55	54	61	52
90	0	0	0	0	0

Coefficients of Utilization

Ceiling	80%			50%			30%		
Wall	70	50	30	50	30	10	50	30	10
RCR	Zonal Cavity Method— Effective Floor Cavity Reflectance = 0.20								
Room Cavity Ratio	1	71	68	66	67	65	63	64	62
	2	65	61	57	60	56	54	58	55
	3	61	55	50	54	50	46	52	49
	4	56	49	44	49	44	40	47	43
	5	52	44	39	44	39	35	42	38
	6	48	40	35	39	34	31	38	34
	7	44	36	31	36	31	27	35	30
	8	41	33	28	32	27	24	31	27
	9	38	30	24	29	24	21	28	24
	10	35	27	22	26	22	18	26	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1268	21.50	33.60
0-40	2049	34.74	54.29
0-60	3275	55.51	86.75
0-90	3775	63.99	100.00
40-90	1725	29.25	45.71
60-90	500	8.48	13.25
90-180	0	0.00	0.00
0-180	3775	63.99	100.00



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www.philips.com/luminaires

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