COOPER LIGHTING - METALUX®

DESCRIPTION

The GR8-IC is a T8-dedicated lensed troffer designed to offer premium performance in a low profile housing. T8 dedication and optimized lamp to lens spacing provides the best in energy efficiency and optical control. The GR8-IC's shallow, low profile housing is compatible with even highly restrictive plenums. Luminaires are compatible with today's popular ceiling systems.

The GR8-IC offers great performance and great quality. The series is an excellent choice for commercial offices, schools, hospitals, retail merchandising and many other applications.

SPECIFICATION FEATURES

Construction

Unitized low profile recessed housing is die formed of code gauge prime cold rolled steel with full length stiffeners and unibody endplate for added strength. Ballast cover is easily removed without tools. Die formed captive lampholder bracket fully encloses lampholder wiring for easy lampholder replacement. Ample KOs are provided for continuous row wiring. Built-in 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. IC recessed luminaire for direct contact with insulation. Suitable for damp locations.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Lighting grade baked white enamel finish with premium reflectance for high efficiency.

Hinging/Latching

Positive spring loaded steel latches and safety lock T-hinges provide secure, high quality door fit and allow hinging and latching from either side.

Catalog #	Туре
Project	
Comments	Date

Frame/Shielding

Heavy gauge flat steel door is die formed with reinforced mitered corners. Housing and door frame assemblies incorporate full width mechanical light traps. Light stabilized, acrylic prismatic lens.

Controls

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



2GR8-IC 228T8, 232 428T8, 432

2' X 4' TROFFER 2 OR 4 LAMP

General Purpose **T8** Commercial Troffer For Use in Insulated Ceiliings



ENERGY DATA

Input Watts: EB Ballast & STD Lamps 228T8 (49), 232 (61) 428T8 (98), 432 (122)

Luminaire Efficacy Rating LER = FL-82 Catalog Number: 2GB8-232A Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$2.93

Catalog Number: 2GR8-432A I FR = FI -76 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.16

*Standard G (Grid) Type Fixtures can be field converted by adding trim kits. See Compatibility Section or Consult Factory

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

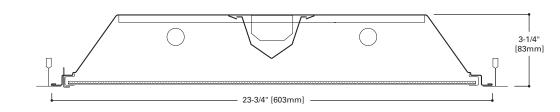
***When ordering Flange Kit for installation in drywall ceilings, see options and accessories compatibility section and ordering logic.

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

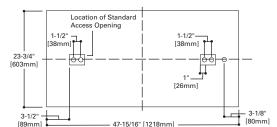
LINEAR DISCONNECT
Safe and convenient means of

disconnecting powe

ADF122070



MOUNTING DATA



G

Slot Grid

DOOR FRAMES



CEILING COMPATIBILITY

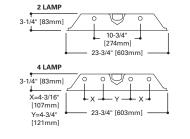


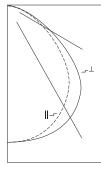
COOPER LIGHTING

Flange Trim With Supporting Swing Gates

Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G
Slot Grid	G
Flange	G***

LAMP CONFIGURATIONS





2GR8IC-232A Electronic Ballast F32T8/35K lamps 2800 lumens Spacing criterion: (II) 1.2 x mounting height, (\perp) 1.4 x mounting height Efficiency 79.8% Test Report: 2GR8IC232A.IES LER = FL-67Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.58

С	а	n	d	е	I	а

Angle	Along II	45°	Across 1
0	1697	1697	1697
5	1689	1696	1705
10	1669	1685	1703
15	1636	1665	1694
20	1586	1632	1673
25	1518	1582	1634
30	1430	1512	1582
35	1320	1427	1517
40	1188	1318	1422
45	1031	1162	1271
50	843	964	1046
55	657	740	796
60	501	528	581
65	378	353	405
70	277	232	294
75	196	172	231
80	143	144	176
85	77	85	97
90	0	0	0

Coefficients of Utilization

rc		80	%			70	1%			50%			30%			10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
CR																		
0	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80
1	88	85	82	79	86	83	80	78	79	77	75	76	74	73	73	72	71	69
2	81	75	70	66	79	74	69	66	71	67	64	68	65	63	66	64	61	60
3	75	67	62	57	73	66	61	56	64	59	55	62	58	55	60	56	54	52
4	69	60	54	49	67	59	53	49	57	52	48	56	51	47	54	50	47	45
5	63	54	47	42	62	53	47	42	51	46	42	50	45	41	48	44	41	39
6	58	48	42	37	57	48	41	37	46	41	36	45	40	36	44	39	36	34
7	54	44	37	32	53	43	37	32	42	36	32	41	35	32	40	35	31	30
8	50	39	32	28	48	39	32	28	38	32	28	37	31	28	36	31	27	26
9	46	35	29	24	45	35	28	24	34	28	24	33	28	24	32	27	24	22
10	42	32	26	21	41	31	25	21	31	25	21	30	25	21	29	24	21	20

Zonal Lumen Summary Typical VCP Percentages

					Height	Along	Height	Across
Zone	Lumens	%Lamp	%Fixture	Room Size (Ft.)	8.5'	10.0'	8.5′	10.0'
0-30	1360	24.3	30.4	20 x 20	73	77	71	75
0-40	2249	40.2	50.3	30 x 30	68	72	65	69
0-60	3788	67.6	84.7	30 x 60	60	63	56	59
0-90	4471	79.8	100.0	60 x 30	69	73	68	71
0-180	4471	79.8	100.0	60 x 60	60	63	57	60

ORDERING INFORMATION

SAMPLE NUMBER: 2GR8-IC-232A-UNV-EB81-U

Notes: (1) An EQ Grid Clip is recommendate in specifying emerging the specifying emerging	Number of Lamps 2=2 Lamps 4=4 Lamps (Not included) Wattage 2878=28W T8 (48") 32=32W T8 (48") 4 Figure 7 Suble Element Fuse Figure 7 Suble Figure	Ballast Type Added Ballast OSQHE2X32T8UN VISNC 	Packaging U=Unit Pack EQ-CLIP-U=T-BAR Safety Earthquake Clips ⁽¹⁾ FCTKA-24W-U=Field Installed Flange Kit FCTK A - 24 R W - U Trim Kit Field Convertible Aluminum E=End Row E=End Row
4 lamp 32W T8 fixtures. ⁽⁶⁾ For a complete from Cooper Controls, visit www.cooperr Please select DALI ballast for use with Fif are NEMA premium and CEE listed. They ⁽⁶⁾ Specification Grade 0-10V ballast not o	gencies, voltage must be specific. ⁵⁷⁹ Ballast Factor is 0.88 for leising of Firthight Technology products and other solutions control.com. ⁶⁰ 0-10V ballast do not include DALI feature. ⁶⁰ Specification grade 0-10V dimming ballast <i>are</i> compatible with low mercury and energy saving lamps. Iffered in 3 or 4-lamp versions. ⁶⁰ Standard 0-10V ballast not nust be specified for Standard 0-10V 32W 3 and 4-lamp ballast.	Step Dimming. Ballast Factor .88 HR8_L=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Low Ballast Factor .7179 HR8_H=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. High Ballast Factor 1.15 - 1.20	

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.

HR8_H=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. High Ballast Factor 1.15 – 1.20 0-10V Dimming Ballasts (6) 0-10V Dimming Ballasts⁽⁹⁾ 5LTV8_=T8 0-10V Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 0.87^{(9), (10)} 5LTVS8_=T8 0-10V Spec Grade Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 0.87^{(7), (9)} Fifth Light DALI Ballasts (5) 5LT8_=T8 DALI Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0

Number of Ballasts

1=1 Ballast

2=2 Ballasts 3=3 Ballasts

SHIPPING INFORMATION

Catalog No.	Wt.
2GR8-IC-228T8A	20 lbs.
2GR8-IC-232A	20 lbs.
2GR8-IC-428T8A	20 lbs.
2GR8-IC-432A	20 lbs.



Visit our web site at www.cooperlighting.com Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770.486.4801 4/13 ADF122070