DESCRIPTION

GC8IC is a premium grade specification lensed troffer series. This innovative, high quality luminaire is dedicated to the latest T8 lamp and micro electronic ballast technology for optimal performance and energy efficiency. The GC8IC is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The GC8IC series features efficiency, quality and performance. The series is designed for installation when the housing will be in direct contact with insulation.

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. 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. Type IC Rated for direct contact with insualtion. 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. "PAF" Painted After Fabrication option also available.

Hinging/Latching

Positive spring loaded steel latches with baked white enamel finish. Safety-lock Thinges allow hinging and latching either side.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

Frame/Shielding

Die formed, heavy gauge, flat steel door with reinforced mitered corners and baked white enamel finish. Flat and regressed aluminum doors also available. Positive light seals. Light stabilized, acrylic prismatic lens. Standard #12 pattern. Numerous additional shielding options available.

Controls

DOOR FRAMES

GC8 Flat, White

S te el Aluminum

3-1/4" [83mm]

3-1/4" [83mm]

X=4-3/16'

[107mm] /=5-3/8

[137mm]

GC8FA Flat, Extruded

LAMP CONFIGURATIONS

L_X.

White Aluminum

10-3/4

[274mm]

23-3/4" [603mm]

23-3/4" [603mm]

Ļх _ v -

GC8RA

Deep, Regressed Extruded Natural

Trim

Туре

G

G

G

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.



Metalux

2GC8IC 228T8

232 428T8

2' X 4' TROFFER 2 OR 4 LAMP

Specification T8 Troffer

FOR USE IN INSULATED CEILINGS



ENERGY DATA

Input Watts: HB Ballast & STD Lamps 228T8 (48) 232 (53) 428T8 (96)

Luminaire Efficacy Rating **LER** = FL-79 Catalog Number: 2GC8IC-232A Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.03

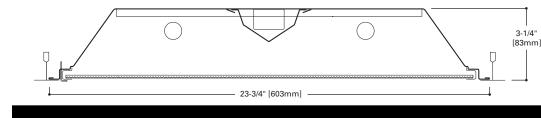
Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements. **Consult Pre Sales Technical Support. ***Full sized ballast cover for biaxial lamps and emergency option may apply. ****When ordering Flange Kit for installation

in drywall ceilings, see options and accessories compatibility section and ordering logic.

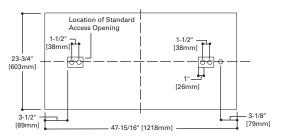




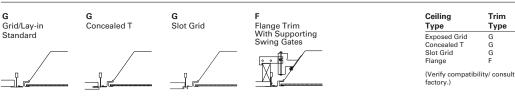
ADF111071 February 4, 2023 9:48 AM



MOUNTING DATA

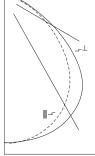


CEILING COMPATIBILITY





Specifications and dimensions subject to change without notice. Consult your representative for additional options and finishes.



4	Candela
allast	

Angle	Along II	45°	Across 1
0	1963	1963	1963
5	1966	1957	1962
10	1940	1941	1956
15	1895	1914	1944
20	1834	1876	1924
25	1753	1820	1883
30	1646	1741	1822
35	1525	1640	1745
40	1373	1502	1635
45	1186	1323	1463
50	986	1131	1235
55	795	917	974
60	623	677	734
65	471	460	528
70	347	295	383
75	247	198	288
80	175	151	212
85	93	92	118
90	7	16	23
	0 5 10 15 20 30 35 40 55 60 65 70 75 80 85	0 1963 5 1966 10 1940 15 1895 20 1834 25 1753 30 1646 35 1525 40 1373 45 1186 50 986 55 795 60 623 65 471 70 347 75 247 80 175 85 93	0 1963 1963 5 1966 1957 10 1940 1941 15 1895 1914 20 1834 1876 25 1753 1820 30 1646 1741 35 1525 1640 40 1373 1502 45 1186 1323 50 986 1131 55 795 917 60 623 677 65 471 460 70 347 295 75 247 198 80 175 151 85 93 92

Coefficients of Utilization

	Eff	ectiv	/e flo	oor ca	vity re	flec	tanc	е	20%									
rc		80	%			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	101	101	101	101	99	99	99	99	94	94	94	90	90	90	86	86	86	85
1	93	89	85	82	90	87	84	81	83	81	78	80	78	76	77	75	74	72
2	85	78	73	68	83	77	71	67	74	69	66	71	67	64	68	65	63	61
3	78	69	63	57	76	68	62	57	65	60	56	63	59	55	61	57	54	52
4	71	62	54	49	69	60	54	49	58	53	48	56	51	47	55	50	47	45
5	66	55	48	42	64	54	47	42	52	46	42	51	45	41	49	45	41	39
6	61	50	42	37	59	49	42	37	48	41	37	46	41	36	45	40	36	34
7	56	45	38	33	55	45	38	33	43	37	33	42	37	32	41	36	32	30
8	53	41	34	29	51	41	34	29	40	34	29	39	33	29	38	33	29	27
9	49	38	31	27	48	37	31	26	37	31	26	36	30	26	35	30	26	25
10	46	35	28	24	45	35	28	24	34	28	24	33	28	24	32	27	24	22

Zonal Lumen Summary Luminance Data

Zone	Lumens	%Lamp	%Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	1565	25.2	29.8	45	2690	3001	3319
0-40	2585	41.7	49.2	55	2223	2564	2724
0-60	4403	71.0	83.8	65	1788	1746	2004
0-90	5254	84.7	100.0	75	1531	1227	1785
0-180	5254	84.7	100.0	85	1712	1693	2172

2GC8IC-232A



2GC8IC8

ORDERING INFORMATION

SAMPLE NUMBER: 2GC8IC-232A-UNV-HB81-U

Rating ¹²⁾ Blank= Standard ATW-SW4= Chicago Rated	Number of Lamps ^[2] 2 or 4 Lamps (Not included) Wattage (Length)	Voltage ⁽³⁾ 347V=347 Volt UNV=Universal Voltage 120-277 ⁽⁴⁾ Options GL=Single Element Fuse GM=Double Element Fuse Flex=Flex Installed EL=Emergency Installed ⁽¹⁴⁾	Options REP=Riveted EndPlates PAF=Painted After Fabrication Packaging U=Unit Pack PAL=Palleti Uncartoned Fixtures PALC=Palle
Width 2=2' Width Trim Type G=Grid/Lay-in (Standard) ⁽¹⁾ G=Concealed T G=Slot Grid F=Flange Trim	28T8=28W T8 (48") 32=32W T8 (48") ^{(6),(8)} Shielding A=#12 Acrylic Pattern A125=#12 Acrylic Pattern (.125" Thickness) A19/156=#19 Acrylic Pattern (.156" Thickness)	Ballast Type ⁽³⁾ EB8 _= T8 Electronic Instant Start. Total Harmonic Distortion < 10%	Fixtures In (ACCESSORIES EQ-CLIP-U=T-BAR Safety Earthquake Clips ⁽¹⁾ FCTKA-24W-U=Field Installed Flange Kit FCTK _ A 24 _ R W - L
Series C8=Specification T8 Troffer Type IC=IC Rated Door Frame Standard=Flat White Steel Door (Leave Blank) FA=Flush White Extruded Aluminum c/w Spring Latch RA=Regressed White Extruded Aluminum FAN=Flush Natural Anodized Extruded Aluminum FAN=Flush Black Extruded Aluminum RAB=Regressed Black Extruded Aluminum	Option – Aluminum Flange Trim ⁽⁵⁾ Blank=SW (Single White) <u>Type Color</u> 'S' Single 'N' Natural 'R' In Row 'W' White 'E' End of Row	FR8_=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%	Trim Kit Field Convertible Aluminum Blank=Single R=In Row E=End Row

NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16° ceiling systems. ⁽²⁾For NYC rated product, see separate specification sheets. ⁽³⁾Products also available in non-US voltages and frequencies for international markets. ⁽⁴⁾Not available when specifying emergencies, voltage must be specific. ⁽⁶⁾Specify row configuration, type in catalog number when ordering complete fixture. ⁽⁶⁾A-lamp 32W T8 fixture is not available in a IC rated version. ⁽⁷⁾For a complete listing of Firthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. ⁽⁸⁾Ballast Factor is 0.88 for 4 lamp 32W T8 fixture. ⁽⁸⁾ 0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ⁽¹⁰⁾Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps. ⁽¹¹⁾Specification Grade 0-10V ballast not offered in 3 or 4-lamp versions. ⁽¹²⁾Standard 0-10V ballast not available for 28W T8 lamps. ⁽¹³⁾ Voltage must be specified for Standard 0-10V 32W 3 and 4-lamp ballast. 4-lamp ballast versions must be 277V.

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

SHIPPING DATA

Catalog No.	Wt.
2GC8IC-228T8A	20 lbs.
2GC8IC-232A	20 lbs.
2GC8IC-428T8A	20 lbs.



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

© 2023 Cooper Lighting Solutions All Rights Reserved.

Specifications and dimensions subject to change without notice.

ADF111071 February 4, 2023 9:48 AM