

**DESCRIPTION**

GC8 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 GC8 is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The GC8 series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

**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. 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 Cam latch with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

**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**

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](http://www.coopercontrol.com)) to maximize energy savings.



**2GC8**  
**228T8**  
**232**  
**428T8**  
**432**

**2' X 4' TROFFER**  
**2 OR 4 LAMP**

Specification T8 Troffer



**ENERGY DATA**

Input Watts:  
**HB Ballast & STD Lamps**  
 228T8 (48), 232 (53)  
 428T8 (96), 432 (107)

Luminaire Efficacy Rating  
**LER = FL-80**  
**Catalog Number: 2GC8-232A**

**Yearly Cost of 1000 lumens,**  
**3000 hrs at .08 KWH = \$3.00**

\*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.

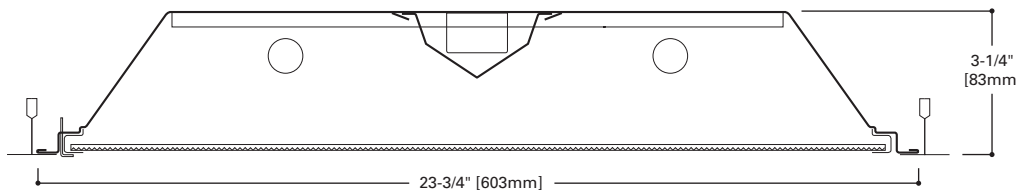
**LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS**

**LINEAR DISCONNECT**

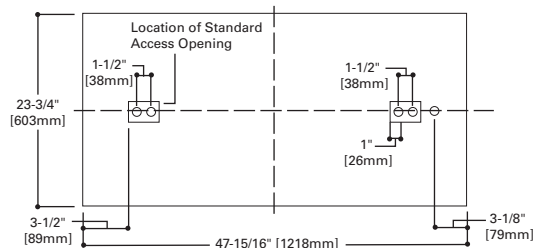
Safe and convenient means of disconnecting power.



ADF091407



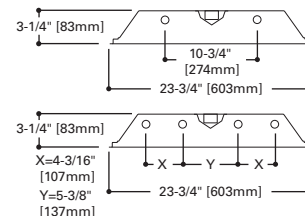
**MOUNTING DATA**



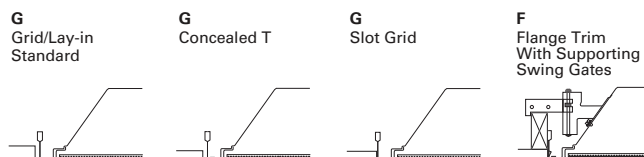
**DOOR FRAMES**



**LAMP CONFIGURATIONS**



**CEILING COMPATIBILITY**



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

(Verify compatibility/ consult factory.)

**COOPER LIGHTING**



**ORDERING INFORMATION**

SAMPLE NUMBER: 2GC8-232A-UNV-HB81-U

**Rating<sup>(6)</sup>**  
**Blank**= Standard  
**ATW-SW4**= Chicago Rated

**Width**  
**2=2' Width**

**Trim Type**  
**G**=Grid/Lay-in (Standard)<sup>(11)</sup>  
**G**=Concealed T  
**G**=Slot Grid  
**F**=Flange Trim

**Series**  
**C8**=Specification T8 Troffer

**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  
**RAN**=Regressed Natural Anodized Extruded Aluminum  
**FAB**=Flush Black Extruded Aluminum  
**RAB**=Regressed Black Extruded Aluminum

**Number of Lamps<sup>(2)</sup>**  
 2 or 4 Lamps **3 LAMPS**  
 (Not included)

**Wattage (Length)**  
**28T8**=28W T8 (48")  
**32**=32W T8 (48")<sup>(8)</sup>

**Shielding**  
**A**=#12 Acrylic Pattern  
**A125**=#12 Acrylic Pattern (.125" Thickness)  
**A19/156**=#19 Acrylic Pattern (.156" Thickness)  
**PB1S**=1/2" x 1/2" x 1/2" Silver Parabolic Louver (Styrene)

**Option – Aluminum Flange Trim<sup>(6)</sup>**  
**Blank**=SW (Single White)  
 Type Color  
 'S' Single 'N' Natural  
 'R' In Row 'W' White  
 'E' End of Row

**Voltage<sup>(3)</sup>**  
**347V**=347 Volt  
**UNV**=Universal Voltage 120-277<sup>(4)</sup>

**Options**  
**GL**=Single Element Fuse  
**GM**=Double Element Fuse  
**Lamps**=Lamps Installed  
**Flex**=Flex Installed  
**EL**=Emergency Installed

**Ballast Type**  
**EB8**\_ =T8 Electronic Start.  
 Total Harmonic Distortion < 10%  
**EB8\_/PLUS**= T8 Electronic Start.  
 Total Harmonic Distortion < 10%.  
 High Ballast Factor > 1.15.  
**ER8**\_ =T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%  
**High Performance T8 Ballasts**  
**HB8**\_ =T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 Standard Ballast Factor .86 – .88  
**HB8\_L**=T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 Low Ballast Factor .77 – .82  
**HB8\_N**=T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 Normal Ballast Factor 1.0  
**HB8\_H**=T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 High Ballast Factor 1.15 – 1.20  
**HR8**\_T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Standard Ballast Factor .86 – .88  
**HR8\_DIM**=T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Step Dimming. Ballast Factor .88  
**HR8\_L**=T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Low Ballast Factor .71 – .79  
**HR8\_H**=T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 High Ballast Factor 1.15 – 1.20  
**0-10V Dimming Ballasts<sup>(9)</sup>**  
**SLTV8**\_ =T8 0-10V Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Ballast Factor 0.87<sup>(12), (13)</sup>  
**SLTVS8**\_ =T8 0-10V Spec Grade Program Rapid Start. Total Harmonic Distortion < 10%.  
 Ballast Factor 0.87<sup>(10), (11)</sup>  
**Fifth Light DALI Ballasts<sup>(7)</sup>**  
**5LT8**\_ =T8 DALI Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Ballast Factor 1.0

**Options**  
**FR**=Fire Rated Label  
**REP**=Riveted End Plates  
**PAF**=Painted After Fabrication

**Packaging**  
**U**=Unit Pack  
**PAL**=Job Pack, out of carton  
**PALC**=Job Pack, in carton

**Number of Ballasts**  
**1**=1 Ballast  
**2**=2 Ballasts  
**3**=3 Ballasts

**NOTES:** <sup>(1)</sup>An EQ Grid Clip is recommended for all 9/16" ceiling systems. <sup>(2)</sup>Standard off-center ballast on 3-lamp fixtures. <sup>(3)</sup>Products also available in non-US voltages and frequencies for international markets. <sup>(4)</sup>Not available when specifying emergencies, voltage must be specific. <sup>(5)</sup>For NYC rated product, see separate specification sheets. <sup>(6)</sup>Specify row configuration, type in catalog number when ordering complete fixture. <sup>(7)</sup>For a complete listing of Fifthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. <sup>(8)</sup>Ballast Factor is 0.88 for 4 lamp 32W T8 fixtures. <sup>(9)</sup>0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. <sup>(10)</sup>Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps. <sup>(11)</sup>Specification Grade 0-10V ballast not offered in 3 or 4-lamp versions. <sup>(12)</sup>Standard 0-10V ballast not available for 28W T8 lamps. <sup>(13)</sup>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 Representative for availability and ordering information.

**SHIPPING INFORMATION**

Catalog No.	Wt.
2GC8-228T8A	20 lbs.
2GC8-232A	20 lbs.
2GC8-428T8A	20 lbs.
2GC8-432A	20 lbs.