

DESCRIPTION

The GC Series features a 4-3/4" deep para-contoured White Optics fixture housing and optimum lamp to lens spacing. The series produces total uniformity of light in the luminous area and is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The specification luminaire is designed to offer maximum efficiency and performance for today's unique interior specifications. The GC Series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

4-3/4" deep, para-contoured housing, die formed, prime cold rolled steel. Die embossed housing has full length die formed stiffeners for added strength. Deep "V" ballast/wireway cover easily removed without tools. Die formed captive lampholder bracket fully encloses lampholder wiring permitting easy lampholder replacement. Heavy endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. KO's 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. Pressure lock lampholders. UL/CUL listed.** Suitable for damp locations.

White Optics

97% reflective White Optics material with matching PAF ballast cover to help maximize retrofit kit efficiency, distribution, energy savings and payback.

Hinging/Latching

Positive Cam latch with baked 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. Positive light seals. Light stabilized 100% virgin acrylic prismatic shielding. Standard #12 pattern. Optional shielding 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) to maximize energy savings.



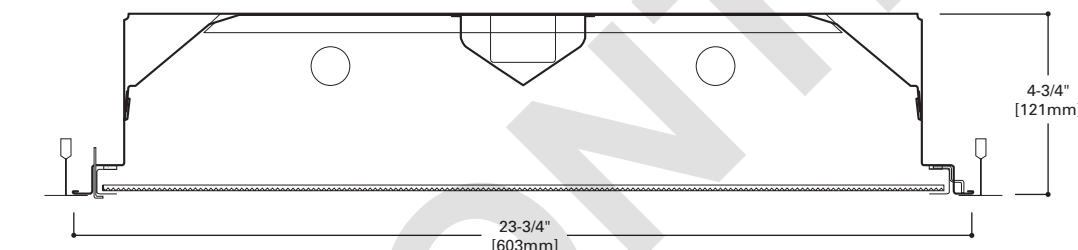
2GC
228T5
254T5
428T5
454T5

2' X 4' TROFFER
2 OR 4 T5 LAMPS

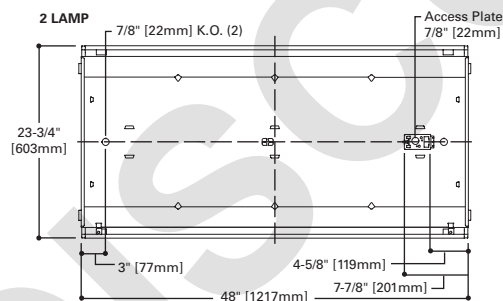
Specification Deep Troffer



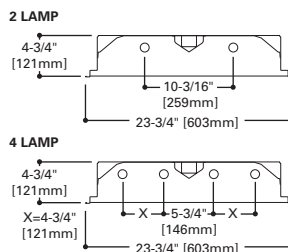
IMPROVING LIGHTING EFFICIENCY AND DESIGN



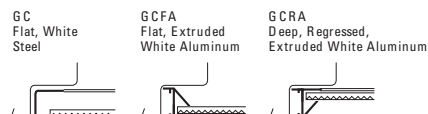
MOUNTING DATA



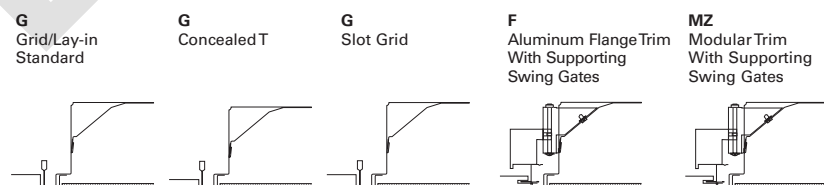
LAMP CONFIGURATIONS



DOOR FRAMES



CEILING COMPATIBILITY



Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G
Slot Grid	G
Flange	F
Concealed "T" or "Z"	MZ
Metal Pan	MZ

(Verify compatibility/ consult Pre Sales Technical Support.)

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

228T5 (59), 254T5 (114)

428T5 (118), 454T5 (226)

*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.
**Consult Pre Sales Technical Support.

LINEAR DISCONNECT
Designed to provide safe and convenient means of disconnecting power

ORDERING INFORMATION

SAMPLE NUMBER: 2GC-228T5A-UNV-EBT1-U

Rating Blank =Standard NY =New York City Rated ATW-SW4 =Chicago Rated Width 2 =2' Width Trim Type G =Grid/Lay-in (Standard) ⁽¹⁾ G =Concealed T ⁽⁶⁾ G =Slot Grid ⁽⁶⁾ F =Aluminum Flange Trim ⁽⁶⁾ MZ =Modular Trim EMZ =Modular Trim (Extended Swing Arm) Series C =Specification Deep Troffer Door Frame Standard =Flat White Steel Door (Leave Blank) FA =Flush White Extruded Aluminum c/w Spring Latch RA =Regressed White Extruded Aluminum (3/8") FAN =Flush Natural Anodized Extruded Aluminum RAN =Regressed Natural Anodized Extruded Aluminum (3/8") FAB =Flush Black Extruded Aluminum RAB =Regressed Black Extruded Aluminum (3/8")	White Optics WO =97% Reflective White Optics Finish Number of Lamps 2 =2 Lamps 4 =4 Lamps Wattage 28T5 =28W T5 (48") 54T5 =54W T5HO (48") Shielding A =#12 Acrylic Pattern A125 =#12 Pattern Acrylic (.125" Thickness) A19/156 =#19 Pattern Acrylic (.156" Thickness) DA =Dropped Dish Matte White Acrylic IMA48 =Injection Molded Acrylic (.150" Thickness) Option - Aluminum Flange Trim ⁽⁵⁾ Blank =SW (Single White) <table border="1"> <thead> <tr> <th>Type</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>'S' Single</td> <td>'N' Natural</td> </tr> <tr> <td>'R' In Row</td> <td>'W' White</td> </tr> <tr> <td>'E' End of Row</td> <td></td> </tr> </tbody> </table> Voltage ⁽²⁾ 120V =120 Volt 277V =277 Volt 347V =347 Volt UNV =Universal Voltage 120-277 ⁽³⁾ Options GL =Single Element Fuse GM =Double Element Fuse Flex =Flex Installed (Reference Flex ordering information) EL =Emergency Installed ^{(4), (15)}	Type	Color	'S' Single	'N' Natural	'R' In Row	'W' White	'E' End of Row		Ballast Type EBT __=T5 or T5HO Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Standard Ballast Factor=1.0 Ballast/Factor Type EBT_N =T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Normal Ballast Factor=.90 ⁽⁷⁾ EBT_H =T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. High Ballast Factor=1.15 ⁽⁸⁾ EBT_NDIM =T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Step Dimming, Normal Ballast Factor=.95-1.0 ⁽¹⁰⁾ EBT_HDIM =T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Step Dimming, High Ballast Factor=1.15 0-10V Dimming Ballasts ⁽¹¹⁾ 5LTV5 __=T5 0-10V Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0 ⁽¹⁴⁾ 5LTVS5 __=T5 0-10V Spec Grade Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0 ^{(12), (13)} 5LTV5H __=T5HO 0-10V Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0 ⁽¹⁴⁾ 5LTVS5H __=T5HO 0-10V Spec Grade Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0 ^{(12), (13)} 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 2 =2 Ballasts 3 =3 Ballasts	Options 20GA/REP =20 Gauge Housing w/Riveted End Plate PAF =Painted After Fabrication Packaging U =Unit Pack PAL =Palletized Uncartoned Fixtures PALC =Palletized Fixtures in Carton ACCESSORIES EQ-CLIP-U =T-BAR Safety Earthquake Clips ⁽¹⁾
Type	Color										
'S' Single	'N' Natural										
'R' In Row	'W' White										
'E' End of Row											

NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. ⁽²⁾Products also available in non-US voltages and frequencies for international markets. ⁽³⁾Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾Fixtures equipped with "EL" option may require a 5-1/2" housing depth. If installing in field, must use low profile battery pack. ⁽⁵⁾Specify row configuration, type in catalog number when ordering complete fixture. ⁽⁶⁾Louver is recessed by 5/16" in Concealed T or Slot Grid. ⁽⁷⁾.90 ballast factor available for 2 or 3 14W T5 or 28W T5 lamps only. ⁽⁸⁾1-Lamp ballast in a High Ballast factor not available. ⁽⁹⁾For a complete listing of Fifthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. ⁽¹⁰⁾1-Lamp step dimming ballast in a Normal Ballast factor not available. 2-Lamp ballast will not operate 1-Lamp. ⁽¹¹⁾0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ⁽¹²⁾Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps. ⁽¹³⁾Specification Grade 0-10V ballast not offered in 3 or 4-lamp versions. ⁽¹⁴⁾Standard 0-10V ballast not offered in 3 or 4-lamp versions. ⁽¹⁵⁾Please specify required voltage, 120V or 277V.

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

SHIPPING DATA

Catalog No.	Wt.
2GC-WO-228T5A	29 lbs.
2GC-WO-254T5A	29 lbs.
2GC-WO-428T5A	32 lbs.
2GC-WO-454T5A	32 lbs.