

DESCRIPTION

The GC Series features a 4-3/4" deep para-contoured fixture housing, high reflectivity 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.

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.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white enamel finish.

Hinging/Latching

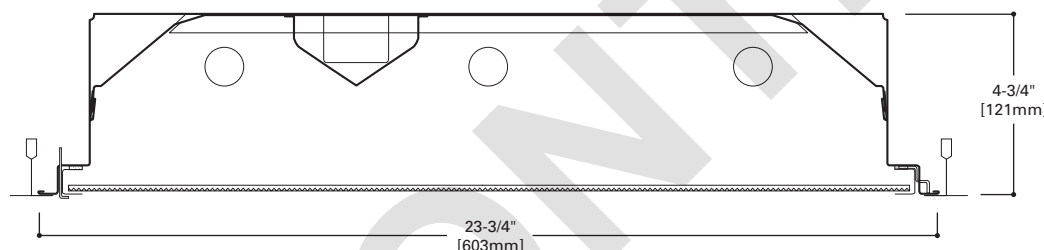
Positive Cam latch with baked enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Shielding

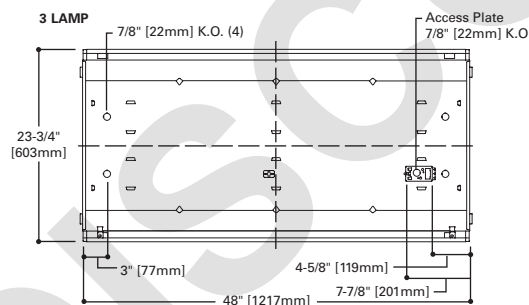
Die formed, heavy gauge, flat steel door with reinforced mitered corners and baked white enamel finish. Positive light seals. Light stabilized 100% virgin acrylic prismatic shielding. Standard #12 pattern. Optional shielding available.

Controls

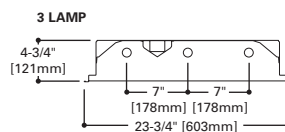
Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energysaving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Controls (www.coopercontrol.com) to maximize energy savings.



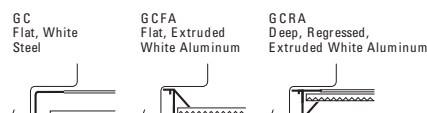
MOUNTING DATA



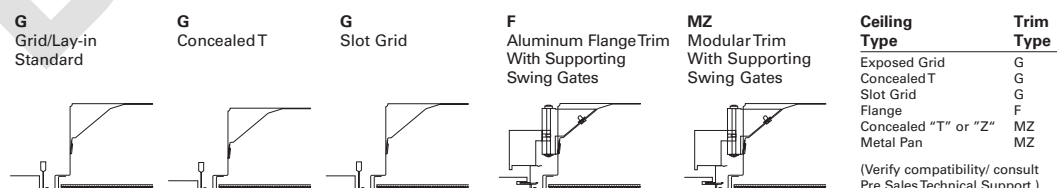
LAMP CONFIGURATIONS



DOOR FRAMES



CEILING COMPATIBILITY



2GC
328T8
332

2' X 4' TROFFER
3 T8 LAMPS

Specification Deep Troffer



ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

328T8 (67)

332 (81)

ES Ballast & STD Lamps

328T8 (73)

332 (86)

Luminaire Efficacy Rating

LER = FL-67

Catalog Number: 2GC-332A

Yearly Cost of 1000 lumens,

3000 hrs at .08 KWH = \$3.58

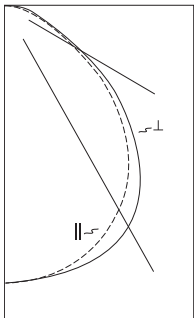
*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

**Consult Pre Sales Technical Support.

LINEAR DISCONNECT

Designed to provide safe and convenient means of disconnecting power

PHOTOMETRICS

**2GC-332A**

Electronic Ballast

F32T8/35K Lamps

2800 Lumens

Spacing criterion:
(II) 1.2 x mounting
height, (L) 1.3 x
mounting height

Efficiency 77.2%

Test Report:
2GC332A.IES

LER = FL-67

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$3.58

Coefficients of Utilization

Effective floor cavity reflectance										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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77					
1	85	82	79	76	83	80	77	75	77	75	73	74	72	70	71	70	68	67					
2	78	73	68	64	76	71	67	63	69	65	62	66	63	61	64	61	59	58					
3	72	65	59	55	70	64	59	55	62	57	54	60	56	53	58	55	52	50					
4	67	58	52	47	65	57	51	47	55	50	46	54	49	46	52	48	45	44					
5	61	52	45	41	60	51	45	40	49	44	40	48	43	40	47	42	39	38					
6	56	47	40	36	55	46	40	35	45	39	35	43	38	35	42	38	34	33					
7	56	42	36	31	51	41	35	31	40	35	31	39	34	30	38	34	30	29					
8	48	38	31	27	47	37	31	27	36	31	27	35	30	27	34	30	26	25					
9	44	34	28	23	43	33	27	23	33	27	23	32	27	23	31	26	23	21					
10	41	31	25	21	40	30	25	21	30	24	20	29	24	20	28	24	20	19					

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1978	23.5	30.5
0-40	3258	38.8	50.3
0-60	5465	65.1	84.3
0-90	6482	77.2	100.0
0-180	6482	77.2	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	64	68	62	66
30 x 30	60	62	57	60
30 x 60	53	55	48	51
60 x 30	62	65	61	64
60 x 60	53	56	50	52

Candela

Angle	Along II	45°	Across L
0	2476	2476	2476
5	2459	2473	2481
10	2429	2456	2478
15	2379	2425	2463
20	2306	2374	2426
25	2209	2300	2363
30	2087	2197	2272
35	1935	2060	2145
40	1743	1874	1958
45	1504	1627	1717
50	1238	1352	1442
55	984	1081	1147
60	765	826	861
65	573	590	610
70	409	386	427
75	278	252	317
80	183	183	236
85	96	111	134
90	0	0	0

ORDERING INFORMATION

SAMPLE NUMBER: 2GC-332A-UNV-EB81-U

Rating Blank = Standard NY =New York Rated ATW-SW4 = Chicago Rated	Number of Lamps ⁽⁷⁾ 3=3 Lamps	Wattage 28T8 =28W T8 (48") ⁽⁴⁾ 32 =32W T8 (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 ⁽⁶⁾ Blank =SW (Single White) Type Color 'S' Single 'N' Natural 'R' In Row 'W' White 'E' End of Row	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 ⁽⁹⁾ 5LTV8 =T8 0-10V Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 0.87 ^{(10), (11)} Fifth Light DALI Ballasts ⁽⁸⁾ 5LT8 =T8 DALI Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0	Options RLS =Rotor Lock Socket (T8 Lamp only) 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⁾
Width 2=2' Width	Trim Type G =Grid/Lay-in (Standard) ⁽¹⁾ G =Concealed T G =Slot Grid F =Aluminum Flange Trim ⁽⁶⁾ MZ =Modular Trim EMZ =Modular Trim (Extended Swing Arm)	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 ^{(8), (12)}	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")	Number of Ballasts 1 =1 Ballast 2 =2 Ballasts 3 =3 Ballasts			

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⁾ When utilizing 28W T8 lamps, HPT8 Ballast must be specified. 32W lamps are 90 CRI only.⁽⁵⁾ Fixtures equipped with "EL" option may require a 5-1/2" housing depth. If installing in field, must use low profile battery pack.⁽⁶⁾ Specify row configuration, type in catalog number when ordering complete fixture.⁽⁷⁾ Standard off-center ballast on 3-lamp fixtures.⁽⁸⁾ For a complete listing of FifthlightTechnology products and other solutions from Cooper Controls, visit www.coopercontrol.com.⁽⁹⁾ 0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system.⁽¹⁰⁾ Standard 0-10V ballast not available for 28W T8 lamps⁽¹¹⁾ Voltage must be specified for Standard 0-10V 32W 3 and 4-lamp ballast. 4-lamp ballast versions must be 277V.⁽¹²⁾ 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-328T8A	31 lbs.
2GC-332A	31 lbs.