

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.

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length dieformed stiffeners 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. 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. Biaxial models use 2G11 base lampholders with double-edge wiping action pressure-lock contacts and horizontally oriented lamp support clips. 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 matte white enamel for superior performance. "PAF" Painted After Fabrication option also available.

Hinging/Latching

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

Catalog #		Type
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 100% virgin 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 Lighting Solutions (www.cooperlighting.com) to maximize energy savings.

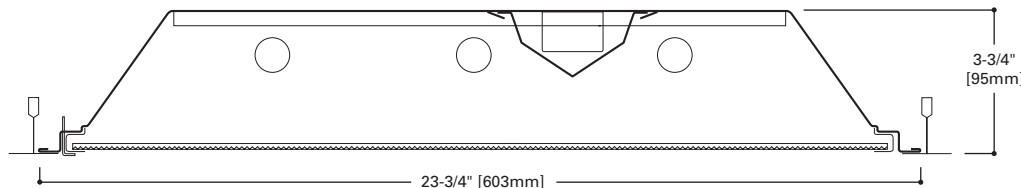


2GC8
317
3U1-5/8

2' X 2' TROFFER
3 LAMPS

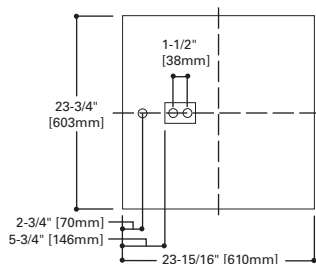
Specification T8 Troffer

New York City Rated

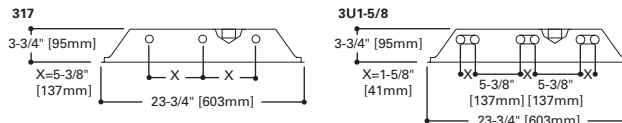


*maximum overall nominal depth

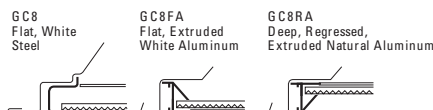
MOUNTING DATA



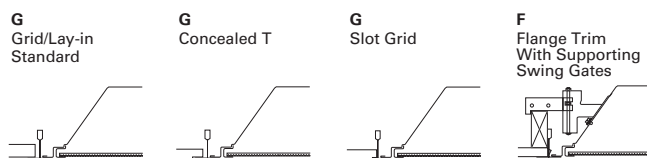
LAMP CONFIGURATIONS



DOOR FRAMES



CEILING COMPATIBILITY



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

(Verify compatibility/ consult factory.)

ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
 317 (56), 3U1-5/8 (88)
ES Ballast & STD Lamps
 317 (68), 3U1-5/8 (105)

Luminaire Efficacy Rating
LER = FL-47

Catalog Number: 2GC8-317
Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$5.08

*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.

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

LINEAR DISCONNECT

Safe and convenient means of disconnecting power.

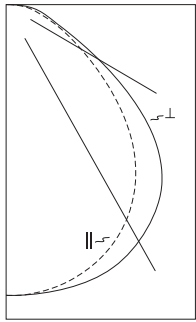


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Specifications and dimensions subject to change without notice.
 Consult your representative for additional options and finishes.

PHOTOMETRICS



2GC8-317A
 Electronic Ballast
 (3) F17T8/TL841/6
 lamps
 1300 lumens
 Spacing criterion:
 (II) 1.2 x mounting
 height, (⊥) 1.4 x
 mounting height
 Efficiency 77.1%
 Test Report:
 2GC8317A.IES
 LER = FL-47
 Yearly Cost of 1000
 lumens, 3000 hrs at
 .08 KWH = \$5.08

Candela			
Angle	Along II	45°	Across ⊥
0	1143	1143	1143
5	1141	1140	1144
10	1127	1133	1142
15	1102	1119	1137
20	1067	1096	1125
25	1020	1063	1100
30	959	1014	1061
35	882	949	1012
40	788	867	949
45	675	761	856
50	550	638	725
55	430	502	562
60	330	365	405
65	251	244	285
70	187	156	207
75	135	109	164
80	100	90	129
85	59	58	79
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance																						
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	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	77	77	77		
1	84	81	78	75	82	79	76	74	76	73	71	73	71	69	70	69	67	66	66	66	66		
2	77	71	66	62	75	70	65	61	67	63	60	65	61	59	62	60	57	56	56	56	56		
3	71	63	57	52	69	62	56	52	60	55	51	58	53	50	56	52	49	48	48	48	48		
4	65	56	50	45	63	55	49	45	53	48	44	52	47	43	50	46	43	41	41	41	41		
5	60	51	44	39	58	50	43	39	48	43	38	47	42	38	45	41	38	36	36	36	36		
6	56	46	39	34	54	45	39	34	44	38	34	42	37	33	41	37	33	32	32	32	32		
7	52	41	35	30	50	41	35	30	40	34	30	39	34	30	38	33	30	28	28	28	28		
8	48	38	32	27	47	37	31	27	36	31	27	35	30	27	35	30	27	25	25	25	25		
9	45	35	29	24	44	34	28	24	34	28	24	33	28	24	32	27	24	23	23	23	23		
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	30	25	22	21	21	21	21		

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	914	23.4	30.4
0-40	1506	38.6	50.1
0-60	2536	65.0	84.3
0-90	3007	77.1	100.0
0-180	3007	77.1	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	67	71	63	67
30 x 30	61	64	57	61
30 x 60	51	55	44	49
60 x 30	62	66	60	64
60 x 60	52	55	47	50

ORDERING INFORMATION

SAMPLE NUMBER: 2GC8-317A-120V-EB81-U

<p>Rating NY=New York City Rated (20 Gauge Riveted End Plates)</p>	<p>Number of Lamps⁽²⁾ 3 Lamps (Not included)</p>		<p>Options PAF=Painted After Fabrication FR=Fire Rated Label MEP=Modified End Plates REP=Riveted End Plates LAO=Less Access Opening⁽⁴⁾ RLS=Rotor-Lock Socket (T8 Lamps Only)</p>
<p>Width 2=2' Width</p>	<p>Wattage 17=17W T8 (24") U1-5/8=31W T8 (24")⁽⁶⁾</p>	<p>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%</p>	<p>Packaging U=Unit Pack PAL=Job Pack, out of carton PALC=Job Pack, in carton</p>
<p>Trim Type G=Grid/Lay-in⁽¹⁾ (Standard) G=Concealed T G=Slot Grid F=Flange Trim</p>	<p>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)</p>	<p>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</p>	<p>ACCESSORIES EQ-CLIP-U=T-BAR Safety Earthquake Clips⁽¹⁾</p>
<p>Series C8=Specification T8 Troffer</p>	<p>Voltage⁽²⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt UNV=Universal Voltage 120-277⁽³⁾</p>	<p>Fifth Light DALI Ballasts⁽⁵⁾ 5LT8_ =T8 DALI Program Rapid Start. Total Harmonic Distortion < 0%. Ballast Factor 1.0</p>	
<p>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</p>	<p>Options GL=Single Element Fuse GM=Double Element Fuse Lamps=Lamps Installed Flex=Flex Installed EL=Emergency Installed⁽⁷⁾</p>	<p>Number of Ballasts 1=1 Ballast 2=2 Ballasts 3=3 Ballasts</p>	

NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16" ceiling systems. ⁽²⁾Standard off-center ballast compartment on 3-lamp fixtures. ⁽³⁾Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾Consult Pre Sales Technical Support. ⁽⁵⁾For a complete listing of Fifthlight Technology products and other solutions from Cooper Lighting Solutions, visit www.cooperlighting.com. ⁽⁶⁾Fifthlight ballast option not available. ⁽⁷⁾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.
NY2GC8-3U1-5/8A	19 lbs.
NY2GC8-317A	19 lbs.

