DESCRIPTION

The GC Series features a 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

Deep, para-contoured housing, die formed code gauge, 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. 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. 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

Catalog #

Project

Comments

Prepared by

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.

> 4-5/8" [117mm]

GC2048

228T8

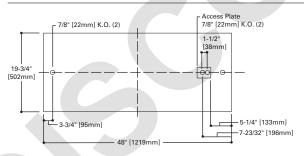
20" X 48" TROFFER 2 OR 4 LAMPS

Specification Deep Troffer



19-3/4" [502mm]

MOUNTING DATA



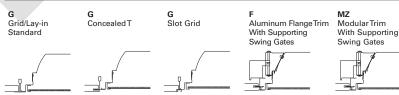
2 LAMP 4-5/8" [117mm] 8-1/2" [216mm 19-3/4" [502mm] 4 LAMP 4-5/8" [117mm] C 6" - X ↓_X X=3' [153mm] [76mm] 19-3/4" [502mm]

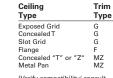
LAMP CONFIGURATIONS

DOOR FRAMES



CEILING COMPATIBILITY





(Verify compatibility/ consult Pre Sales Technical Support.)



Metalux

Туре

232 428T8 432



ENERGY DATA

Input Watts: EB Ballast & STD Lamps 228T8 (48) 232 (55) 428T8 (93) 432 (113) Luminaire Efficacy Rating LER = FL-65 Catalog Number: GC2048-232A Yearly Cost of 1000 lumens,

3000 hrs at .08 KWH = \$3.69

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

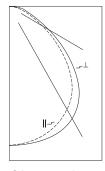




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PHOTOMETRICS



GC2048-232A Electronic Ballast F32T8/35K Lamps

2800 Lumens Spacing criterion:

(II) 1.2 x mounting height, (\perp) 1.3 x mounting height

Efficiency 76.6% Test Report: GC2048232A.IES

LER = FL-65Yearly Cost of 1000

lumens, 3000 hrs at .08 KWH = \$3.69

	Effe	ctive	e flo	or cav	ity ref	lecta	ance		20	%								
rc		80	%			7	0%			50%	D		30%	5		10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	77
1	84	81	78	76	82	79	77	75	76	74	72	73	72	70	71	69	68	66
2	78	72	68	64	76	71	67	63	68	65	62	66	63	60	64	61	59	58
3	72	65	59	55	70	64	59	54	61	57	54	59	56	53	58	54	52	50
4	66	58	52	48	65	57	52	47	55	50	47	54	49	46	52	48	45	44
5	61	52	46	41	60	51	45	41	50	44	40	48	44	40	47	43	40	38
6	56	47	41	36	55	46	40	36	45	40	35	44	39	35	42	38	35	33
7	52	42	36	32	51	42	36	31	41	35	31	39	35	31	38	34	31	29
8	48	38	32	27	47	38	32	27	37	31	27	36	31	27	35	30	27	25
9	44	34	28	24	43	34	28	24	33	27	24	32	27	24	31	27	23	22
10	41	31	25	21	40	31	25	21	30	25	21	29	24	21	29	24	21	19

Candela

Zonal Lumen Summary

Coefficients of Utilization

Zone	Lumens	%Lamp	%Fixture
0-30	1359	24.3	31.7
0-40	2223	39.7	51.9
0-60	3644	65.1	85.0
0-90	4287	76.6	100.0
0-180	4287	76.6	100.0

30 25 .	21	29 Z4 Z	I 23	9 Z4 Z	1 19				
Typical VCP Percentages									
		Heigh	nt Along	Height	Across				
Room Siz	ze (Ft.)	8.5′	10.0′	8.5′	10.0′				
20 x 20		71	75	69	73				
30 x 30		64	68	62	66				
30 x 60		55	59	52	55				
60 x 30		66	70	65	69				
60 x 60		56	59	53	56				

Angle	Along II	45°	Across⊥
0	1710	1710	1710
5	1701	1707	1716
10	1681	1694	1711
15	1647	1670	1695
20	1595	1630	1667
25	1522	1573	1622
30	1426	1497	1549
35	1306	1391	1448
40	1164	1247	1312
45	995	1073	1124
50	806	879	917
55	637	678	717
60	493	481	515
65	369	315	367
70	268	206	284
75	200	158	233
80	151	135	179
85	82	79	98
90	0	0	0



ORDERING INFORMATION

SAMPLE NUMBER: GC2048-232A-UNV-EB81-U

Rating	Width	Voltage ⁽³⁾	Ballast Type	Packaging
Blank=	2048=20" Width	120V=120 Volt	EB8 =T8 Electronic Start.	U=Unit Pack
Standard	x 48" Length	277V=277 Volt	Total Harmonic	PAL=Job Pack
NY=New York		347V=347 Volt	Distortion < 10%	Options out of carton
City Rated	Number of	UNV=Universal	EB8 /PLUS=T8 Electronic Start. Total	PAF=Painted After PALC=Job
ATW-SW4=		Voltage 120-277 (4)	Harmonic Distortion <	Fabrication Pack, in carton
Chicago			10%. High Ballast Factor >	
Rated	2 or 4 lamps	Options	1.15.	20GA/REP=20 Gauge Riveted
	Matter and (I are oth)	GL=Single Element Fuse	ER8 =T8 Electronic Program Rapid	Endplates. For use in New York City.
Trim Type	Wattage (Length)	GM=Double Element	Start. Total Harmonic Distortion	RLS=Rotor-Lock Socket
G=Grid/Lay-in – Standard ⁽¹⁾	28T8=28WT8 (48") (2)	Fuse	< 10%	(T8 Lamps Only)
G=Concealed T	32=32WT8 (48") ⁽⁷⁾	Flex=Flex Installed		(See options & accessories)
G=Slot Grid		(Reference Flex ordering	High Performance T8 Ballasts	
F =Aluminum Flange Trim ⁽⁵⁾	Shielding	information)	HB8_=T8 Electronic Instant Start.	
0	A=#12 Pattern Acrylic	EL=Emergency Installed ⁽¹³⁾	Total Harmonic Distortion < 10%.	
MZ=Modular Trim	A125=#12 Pattern Acrylic		Standard Ballast Factor .86 – .88	
EMZ=ModularTrim	(.125" Thickness)		HB8_L=T8 Electronic Instant Start.	ACCESSORIES
(Extended Swing Arm)	A19/156=#19 Pattern		Total Harmonic Distortion <	
	Acrylic (.156" Thickness)		10%. Low Ballast Factor	EQ-CLIP-U=T-BAR Safety
Series	DA=Dropped Dish Matte		.77 – .82	Earthquake Clips ⁽¹⁾
C=Specification DeepTroffer	White Acrylic		HB8_N=T8 Electronic Instant Start.	
	IMA48=Injection Molded		Total Harmonic Distortion <	
Doorframes	Acrylic (.150" Thickness)		10%. Normal Ballast Factor 1.0	
Standard=Flat White Steel Door			HB8_H=T8 Electronic Instant Start.	
(Leave Blank)	Option – Aluminum Flange T	rim ⁽⁵⁾	Total Harmonic Distortion <	
FA=Flush White Extruded	Blank=SW (Single White)		10%. High Ballast Factor	
Aluminum c/w Spring Latch	Type Color		1.15 – 1.20	
RA=Regressed White Extruded	'S' Single 'N' Natural		HR8_T8 Electronic Program Rapid	
Aluminum (3/8")	'R' In Row 'W' White		Start. Total Harmonic Distortion <	
FAN=Flush Natural Anodized	'E' End of Row		10%. Standard Ballast Factor	
Extruded Aluminum			.86 – .88	
RAN=Regressed Natural Anodized			HR8 DIM=T8 Electronic Program	
Extruded Aluminum (3/8")			Rapid Start. Total Harmonic	
FAB=Flush Black Extruded			Distortion < 10%. Step	
Aluminum			Dimming. Ballast Factor .88	
RAB=Regressed Black Extruded			HR8 L=T8 Electronic Program Rapid	
Aluminum (3/8")			Start. Total Harmonic Distortion	
			< 10%. Low Ballast Factor	
			.71 – .79	
NOTES:			HR8 H=T8 Electronic Program	
¹⁾ An EQ Grid Clip is recommended for all 9	/16" ceiling systems. Four required per	fixture.	Rapid Start, Total Harmonic	
²⁾ When utilizing 28W T8 lamps, HPT8 Ballas	st must be speficied. 32W lamps are 90	CRI only.	Distortion < 10%.	
³⁾ Products also available in non-US voltage		kets.	High Ballast Factor 1.15 – 1.20	
⁴⁾ Not available when specifying emergencing	es, voltage must be specific.		0-10V Dimming Ballasts ⁽⁸⁾	
⁵⁾ Specify row configuration, type in catalog	number when ordering complete fixtu	re.		
⁵⁾ For a complete listing of Fifthlight Technolog	y products and other solutions from Coo	per Controls, visit www.coopercontrol.com	5LTV8_=T8 0-10V Program Rapid Start. Total Harmonic	
⁷⁾ Ballast Factor is 0.88 for 4 lamp 32WT8 fixtu	ires.		Distortion < 10%.	
⁸⁾ 0-10V ballast do not include DALI feature. Pl	ease select DALI ballast for use with Fifth	Light system.	Ballast Factor 0.87 ^{(11), (12)}	
⁹⁾ Specification grade 0-10V dimming ballast a	re NEMA premium and CEE listed. They	are compatible with low mercury and		
energy saving lamps. ⁽⁰⁾ Specification Grade 0-10V ballast not offere	d in 2 or 4 lown versions		5LTVS8_=T8 0-10V Spec Grade Program Rapid Start.	
⁽¹⁾ Standard 0-10V ballast not offere	um s or 4-tamp versions.			
		ast versions must be 277)/	Total Harmonic Distortion < 10%. Ballast Factor 0.87 ^{(9), (10)}	
	1/ 22/A/ 2 and 4 Jamp ballact 4 Jamp balls			
²⁾ Voltage must be specified for Standard 0-10		ist versions must be 277v.		
 ²⁾ Voltage must be specified for Standard 0-10 ³⁾ Please specify required voltage, 120V or 2 	77V.		Fifth Light DALI Ballasts (6)	
⁽²⁾ Voltage must be specified for Standard 0-10 ⁽³⁾ Please specify required voltage, 120V or 2 Specifications & dimensions subject to chan	77V.		Fifth Light DALI Ballasts ⁽⁶⁾ 5LT8_=T8 DALI Program Rapid Start.	
 ⁽²⁾ Voltage must be specified for Standard 0-10 ⁽³⁾ Please specify required voltage, 120V or 2 	77V.		Fifth Light DALI Ballasts (6)	

SHIPPING DATA Catalog No.

Catalog No.	Wt.
GC2048-228T8A	29 lbs.
GC2048-232A	29 lbs.
GC2048-428T8A	32 lbs.
GC2048-432A	32 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.

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

Specifications and dimensions subject to change without notice.

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