Metalux

GC8IC 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 GC8IC is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The GC8IC series features efficiency, quality and performance. The series is designed for installation when the housing will be in direct contact with insulation.

Type Catalog # **Project** Date Comments Prepared by

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. Type IC Rated for direct contact with insualtion. 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 spring loaded steel latches with baked white enamel finish. Safety-lock Thinges 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) to maximize energy savings.



2GC8IC 228T8 232

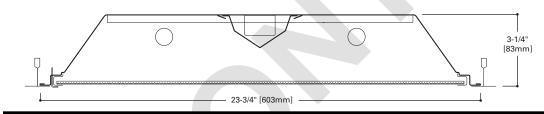
428T8

2' X 4' TROFFER 2 OR 4 LAMP

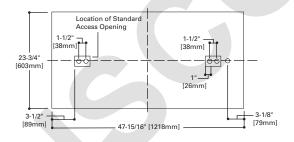
Specification T8 Troffer

FOR USE IN INSULATED CEILINGS

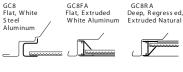




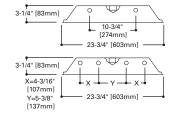
MOUNTING DATA



DOOR FRAMES



LAMP CONFIGURATIONS



CEILING COMPATIBILITY

Grid/Lav. in

| Standard | conscaled i |
|----------|-------------|
| | |

Concooled T

Slot Grid



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

(Verify compatibility/ consult factory.)

ENERGY DATA Input Watts:

428T8 (96)

HB Ballast & STD Lamps 228T8 (48) 232 (53)

Luminaire Efficacy Rating LER = FL-79 Catalog Number: 2GC8IC-232A Yearly Cost of 1000 lumens,

3000 hrs at .08 KWH = \$3.03 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.

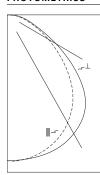
****When ordering Flange Kit for installation in drywall ceilings, see options and accessories compatibility section and ordering logic.



esigned to provide safe and conver







2GC8IC-232A

Electronic Ballast (2) F032/35K T8 lamps 3100 lumens Spacing criterion: (II) 1.2 x mounting height, (\perp) 1.4 x mounting height Efficiency 84.7% Test Report: 2GC8IC-232A.IES LER = FL-80

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

| Angle | Along II | 45° | Across ⊥ | | | |
|-------|----------|------|----------|--|--|--|
| 0 | 1963 | 1963 | 1963 | | | |
| 5 | 1966 | 1957 | 1962 | | | |
| 10 | 1940 | 1941 | 1956 | | | |
| 15 | 1895 | 1914 | 1944 | | | |
| 20 | 1834 | 1876 | 1924 | | | |
| 25 | 1753 | 1820 | 1883 | | | |
| 30 | 1646 | 1741 | 1822 | | | |
| 35 | 1525 | 1640 | 1745 | | | |
| 40 | 1373 | 1502 | 1635 | | | |
| 45 | 1186 | 1323 | 1463 | | | |
| 50 | 986 | 1131 | 1235 | | | |
| 55 | 795 | 917 | 974 | | | |
| 60 | 623 | 677 | 734 | | | |
| 65 | 471 | 460 | 528 | | | |
| 70 | 347 | 295 | 383 | | | |
| 75 | 247 | 198 | 288 | | | |
| 80 | 175 | 151 | 212 | | | |
| 85 | 93 | 92 | 118 | | | |
| 90 | 7 | 16 | 23 | | | |

Coefficients of Utilization

| | Eff | ectiv | e flo | or ca | vity re | flec | tanc | е | 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 | 101 | 101 | 101 | 101 | 99 | 99 | 99 | 99 | 94 | 94 | 94 | 90 | 90 | 90 | 86 | 86 | 86 | 85 |
| 1 | 93 | 89 | 85 | 82 | 90 | 87 | 84 | 81 | 83 | 81 | 78 | 80 | 78 | 76 | 77 | 75 | 74 | 72 |
| 2 | 85 | 78 | 73 | 68 | 83 | 77 | 71 | 67 | 74 | 69 | 66 | 71 | 67 | 64 | 68 | 65 | 63 | 61 |
| 3 | 78 | 69 | 63 | 57 | 76 | 68 | 62 | 57 | 65 | 60 | 56 | 63 | 59 | 55 | 61 | 57 | 54 | 52 |
| 4 | 71 | 62 | 54 | 49 | 69 | 60 | 54 | 49 | 58 | 53 | 48 | 56 | 51 | 47 | 55 | 50 | 47 | 45 |
| 5 | 66 | 55 | 48 | 42 | 64 | 54 | 47 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 49 | 45 | 41 | 39 |
| 6 | 61 | 50 | 42 | 37 | 59 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 36 | 45 | 40 | 36 | 34 |
| 7 | 56 | 45 | 38 | 33 | 55 | 45 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 32 | 41 | 36 | 32 | 30 |
| 8 | 53 | 41 | 34 | 29 | 51 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 38 | 33 | 29 | 27 |
| 9 | 49 | 38 | 31 | 27 | 48 | 37 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 35 | 30 | 26 | 25 |
| 10 | 46 | 35 | 28 | 24 | 45 | 35 | 28 | 24 | 34 | 28 | 24 | 33 | 28 | 24 | 32 | 27 | 24 | 22 |

Zonal Lumen Summary

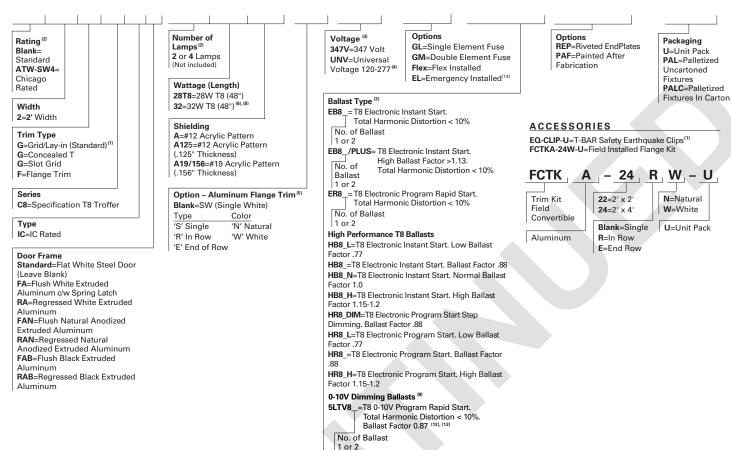
| Zone | Lumens | %Lamp | %Fixture |
|-------|--------|-------|----------|
| 0-30 | 1565 | 25.2 | 29.8 |
| 0-40 | 2585 | 41.7 | 49.2 |
| 0-60 | 4403 | 71.0 | 83.8 |
| 0-90 | 5254 | 84.7 | 100.0 |
| 0-180 | 5254 | 84.7 | 100.0 |

Luminance Data

| Angle in Deg | Average 0-Deg cd/sm | Average 45-Deg cd/sm | Average 90-Deg cd/sm |
|-----------------|---------------------------|----------------------------|----------------------------|
| 45 | 2690 | 3001 | 3319 |
| 55 | 2223 | 2564 | 2724 |
| 65 | 1788 | 1746 | 2004 |
| 75 | 1531 | 1227 | 1785 |
| 85 | 1712 | 1693 | 2172 |



SAMPLE NUMBER: 2GC8IC-232A-UNV-HB81-U



NOTES: (1) An EQ Grid Clip is recommended for all 9/16" ceiling systems. (2) For NYC rated product, see separate specification sheets. (3) Products also available in non-US voltages and frequencies for international markets. (4) Not available when specifying emergencies, voltage must be specific. (6) Specify row configuration, type in catalog number when ordering complete fixture. (6) 4-lamp 32W T8 fixture is not available in a IC rated version. (7) For a complete listing of Fifthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. (6) Ballast Factor is 0.88 for 4 lamp 32W T8 fixtures. (6) 0-10V ballast do not include DALI feature. (7) Poses select DALI ballast for use with Fifth Light system. (10) Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps. (11) Specification Grade 0-10V ballast not offered in 3 or 4-lamp versions. (12) Standard 0-10V ballast not available for 28W T8 lamps. (13) Voltage must be specified for Standard 0-10V 32W 3 and 4-lamp ballast. 4-lamp ballast versions must be 277V. (14) Please specify required voltage, 120V or 277V.

No. of Ballast 1 or 2

Fifth Light DALI Ballasts (7) 5LT8_=T8 DALI Program Rapid Start. Total Harmonic Distortion < 10%.

Ballast Factor 1.0 No. of Ballast

5LTVS8 =T8 0-10V Spec Grade Program Rapid Start.
Total Harmonic Distortion < 10%.
Ballast Factor 0.87 (10), (11)

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



Catalog No. Wt. 2GC8IC-228T8A 20 lbs. 2GC8IC-232A 20 lbs. 2GC8IC-428T8A 20 lbs.

