COOPER LIGHTING - METALUX®

DESCRIPTION

The GR8 is a T8-dedicated lensed troffer designed to offer premium performance in a low profile housing. T8 dedication and optimized lamp to lens spacing provides the best in energy efficiency and optical control. The GR8's shallow, low profile housing is compatible with even highly restrictive plenums. Luminaires are compatible with today's popular ceiling systems.

APPLICATION

The GR8 offers great performance and great quality. The series is an excellent choice for commercial offices, schools, hospitals, retail merchandising and many other applications.

Catalog # Type Project Comments Prepared by

SPECIFICATION FEATURES

A...Construction

Unitized low profile recessed housing is die formed of code gauge prime cold rolled steel with full length stiffeners and mechanical endplate attachment for added strength. Off center, ballast cover is easily removed without tools. Die formed captive lampholder bracket fully encloses lampholder wiring for easy lampholder replacement. Ample KOs are provided for continuous row wiring. Built-in grid-lock feature for safety and convenience. Standard unit is NYC Approved. (No modifications necessary).

B...Electrical**

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

C...Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Lighting grade baked white enamel finish with premium reflectance for high efficiency.

D...Hinging/Latching

Positive spring loaded cam action steel latches and safety lock Thinges provide secure, high quality door fit and allow hinging and latching from either side.

E...Frame/Shielding

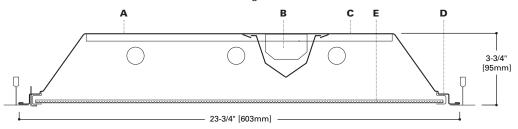
Heavy gauge flat steel door is die formed with reinforced mitered corners. Housing and door frame assemblies incorporate full length and width mechanical light traps. Light stabilized, acrylic prismatic lens.



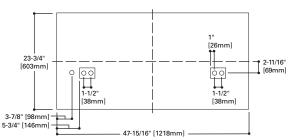
2GR8 328T8 332

2' X 4' TROFFER 3 T8 LAMPS

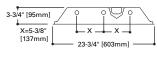
General Purpose T8 Commercial Troffer



MOUNTING DATA



LAMP CONFIGURATIONS



DOOR FRAMES



CEILING COMPATIBILITY

| Standard | Concealed | | | | | |
|----------|-----------|--|--|--|--|--|
| | | | | | | |

COOPER LIGHTING

G ed T Slot Grid



F Flange Trim With Supporting Swing Gates



 Ceiling
 Trim

 Type
 Type

 Exposed Grid
 G

 Concealed T
 G

 Slot Grid
 G

 Flange
 G****

ENERGY DATA

Input Watts: EB Ballast & STD Lamps 328T8 (67) 332 (91)

Luminaire Efficacy Rating
LER = FL-68

Catalog Number: 2GR8-332A
Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$3.53

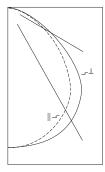
- *Standard G (Grid) Type Fixtures can be field converted by adding trim kits. See Compatibility Section or Consult Factory.
- **Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.
- ***Order FCS-24W-U Flange Kit for installation in drywall ceiling. See options and accessories compatibility section.

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





PHOTOMETRICS



2GR8-332A **Electronic Ballast** F32T8/35K lamps 2800 lumens

Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.4 x mounting height Efficiency 76.0%

Test Report: 2GR8332A.IES

LER = FL-68

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.53

Coefficients of Utilization

| Effective floor cavity reflectance 20 | | | | | | | | % | | | | | | | | | | | |
|---------------------------------------|----|----|----|------|----|----|----|----|----|-----|----|----|-----|--------|----|-----|----|----|--|
| rc | | 80 | % | | | 7 | 0% | | | 50% | , | | 30% | o o | | 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 | 88 | 88 | 88 | 88 | 84 | 84 | 84 | 81 | 81 | 81 | 78 | 78 | 78 | 76 | |
| 1 | 84 | 81 | 78 | 75 | 82 | 79 | 76 | 74 | 76 | 74 | 72 | 73 | 71 | 69 | 70 | 69 | 67 | 66 | |
| 2 | 77 | 72 | 67 | 63 | 75 | 70 | 66 | 63 | 68 | 64 | 61 | 65 | 62 | 60 | 63 | 61 | 59 | 57 | |
| 3 | 71 | 64 | 59 | 54 | 70 | 63 | 58 | 54 | 61 | 57 | 53 | 59 | 55 | 52 | 57 | 54 | 51 | 50 | |
| 4 | 66 | 58 | 52 | 47 | 64 | 57 | 51 | 47 | 55 | 50 | 46 | 53 | 49 | 45 | 51 | 48 | 45 | 43 | |
| 5 | 60 | 51 | 45 | 40 | 59 | 51 | 45 | 40 | 49 | 44 | 40 | 48 | 43 | 39 | 46 | 42 | 39 | 37 | |
| 6 | 56 | 46 | 40 | 35 | 54 | 46 | 40 | 35 | 44 | 39 | 35 | 43 | 38 | 35 | 42 | 38 | 34 | 33 | |
| 7 | 51 | 42 | 35 | 31 | 50 | 41 | 35 | 31 | 40 | 34 | 31 | 39 | 34 | 30 | 38 | 33 | 30 | 29 | |
| 8 | 47 | 37 | 31 | 27 | 46 | 37 | 31 | 27 | 36 | 30 | 27 | 35 | 30 | 26 | 34 | 30 | 26 | 25 | |
| 9 | 44 | 34 | 27 | 23 | 43 | 33 | 27 | 23 | 32 | 27 | 23 | 31 | 26 | 23 | 31 | 26 | 23 | 21 | |
| 10 | 41 | 30 | 24 | - 20 | 40 | 30 | 24 | 20 | 29 | 24 | 20 | 29 | 24 | 20 | 28 | 23 | 20 | 19 | |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixture |
|-------|--------|-------|----------|
| 0-30 | 1965 | 23.4 | 30.8 |
| 0-40 | 3239 | 38.6 | 50.7 |
| 0-60 | 5421 | 64.5 | 84.9 |
| 0-90 | 6386 | 76.0 | 100.0 |
| 0-180 | 6386 | 76.0 | 100.0 |

Typical VCP Percentages

| | Heigh | t Along | Height Across | | | |
|-----------------|-------|---------|----------------------|-------|--|--|
| Room Size (Ft.) | 8.5' | 10.0' | 8.5' | 10.0' | | |
| 20 x 20 | 67 | 71 | 64 | 68 | | |
| 30 x 30 | 60 | 64 | 57 | 61 | | |
| 30 x 60 | 52 | 55 | 47 | 50 | | |
| 60 x 30 | 62 | 66 | 60 | 64 | | |
| 60 x 60 | 52 | 55 | 48 | 51 | | |

Candela

| Angle | Along II | 45° | Across 1 | | |
|-------|----------|------|----------|--|--|
| 0 | 2460 | 2460 | 2460 | | |
| 5 | 2445 | 2456 | 2468 | | |
| 10 | 2416 | 2440 | 2464 | | |
| 15 | 2367 | 2409 | 2449 | | |
| 20 | 2295 | 2358 | 2413 | | |
| 25 | 2194 | 2281 | 2352 | | |
| 30 | 2063 | 2176 | 2266 | | |
| 35 | 1900 | 2045 | 2163 | | |
| 40 | 1705 | 1879 | 2015 | | |
| 45 | 1474 | 1650 | 1794 | | |
| 50 | 1200 | 1362 | 1474 | | |
| 55 | 932 | 1045 | 1122 | | |
| 60 | 710 | 745 | 811 | | |
| 65 | 533 | 497 | 566 | | |
| 70 | 389 | 326 | 416 | | |
| 75 | 275 | 243 | 327 | | |
| 80 | 201 | 204 | 251 | | |
| 85 | 110 | 122 | 143 | | |
| 90 | 0 | 0 | 0 | | |

ORDERING INFORMATION

SAMPLE NUMBER: 2GR8-332A-120V-EB81-U



Number of Lamps (2) 3=3 Lamps

Wattage (Length) 28T8=28W T8 (48") 32=32W T8 (48")

A=#12 Pattern Acrylic **A125**=#12 Pattern Acrylic (.125" Thick) **A19/156**=#19 Pattern Acrylic (.156"

IMA 48=Injection Moldeed Acrylic (.150" Thick)

PB1S=Silver Parabolic Louver (1/2" x 1/2" x 1/2")

(Additional shielding media available, see accessory section)

Voltage (3) 120V=120 Volt

277V=277 Volt 347V=347 Volt

UNV=Universal Voltage 120-277 (4)

Options

GL=Single Element Fuse **GM**=Double Element Fuse Lamps=Lamps Installed

Flex=Flex Installed

EBP 700F = EBP700F Fluorescent Battery Pack for

Sure-Lite

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⁾Products also available in non-US voltages and frequencies for international markets. ⁽⁴⁾Not available when specifying emergencies, voltage must be specific.

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information

Ballast Type (3) BALLIST ADDED FOR ITEM QHE3X32T8

EB8_/PLUS= T8 Electronic Instant Start.

High Ballast Factor >1.13. No. of Total Harmonic Distortion < 10% Ballast

1. 2 or 3

ER8_= T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%

No. of Ballast 1, 2 or 3

HPT8 Ballast

HB8_L=T8 Electronic Instant Start. Low Ballast Factor .77

HB8 =T8 Electronic Instant Start, Ballast Factor .88

HB8 N=T8 Electronic Instant Start, Normal Ballast Factor 1.0 HB8 H=T8 Electronic Instant Start. High Ballast Factor 1.15-1.2

HR8_DIM=T8 Electronic Program Start Step Dimming. Ballast Factor .88

HR8 L=T8 Electronic Program Start. Low Ballast Factor .77

HR8_=T8 Electronic Program Start. Ballast Factor .88 HR8_H=T8 Electronic Program Start. High Ballast Factor 1.15-1.2

Options Packaging FCS-24W-U=Field U=Unit Pack Installed Flange Kit (See options & accessories)

ACCESSORIES EQ-CLIP-U=T-BAR Safety Earthquake Clips(1)

SHIPPING INFORMATION

| Catalog No. | Wt. | | | | |
|-------------|---------|--|--|--|--|
| 2GR8-228T8A | 31 lbs. | | | | |
| 2GR8-332A | 31 lbs. | | | | |

