## COOPER LIGHTING - METALUX ${ }^{\circ}$

## 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.

## 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.

| Catalog \# | 2GR8332A120VELEBP700FOSOHE3X32 <br> T8UNVISNSCU | Type |
| :--- | :---: | :---: |
| Project |  |  |
| Comments |  | Date |
| Prepared by |  |  |

## 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.


## ENERGY DATA

Input Watts:
EB Ballast \& STD Lamps
$328 T 8$ (67)
332 (91)
Luminaire Efficacy Rating
LER = FL-68
Catalog Number: 2GR8-332A

Yearly Cost of 1000 lumens,
3000 hrs at $.08 \mathrm{KWH}=\$ 3.53$
*Standard G (Grid) Type Fixtures can be
DOOR FRAMES


CEILING COMPATIBILITY

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

LINEAR DISCONNECT Safe and convenient means of disconnecting power.


2GR8-332A
Electronic Ballast
F32T8/35K lamps 2800 lumens
Spacing criterion:
(II) $1.2 \times$ mounting
height, ( $\perp$ ) $1.4 \times$ mounting height
Efficiency 76.0\%
Test Report:
2GR8332A.IES

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 | 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 |
| :--- | :---: | :---: | :---: |
| $\mathbf{0 - 3 0}$ | 1965 | 23.4 | 30.8 |
| $\mathbf{0 - 4 0}$ | 3239 | 38.6 | 50.7 |
| $\mathbf{0 - 6 0}$ | 5421 | 64.5 | 84.9 |
| $\mathbf{0 - 9 0}$ | 6386 | 76.0 | 100.0 |
| $\mathbf{0 - 1 8 0}$ | 6386 | 76.0 | 100.0 |


| Room Size (Ft.) | Height Along |  | Height Across |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8.5' | 10.0' | 8.5' | 10.0' |
| $20 \times 20$ | 67 | 71 | 64 | 68 |
| $30 \times 30$ | 60 | 64 | 57 | 61 |
| $30 \times 60$ | 52 | 55 | 47 | 50 |
| $60 \times 30$ | 62 | 66 | 60 | 64 |
| $60 \times 60$ | 52 | 55 | 48 | 51 |

## Candela

| Angle | Along II | $45^{\circ}$ | Across $\perp$ |
| :--- | ---: | ---: | ---: |
| 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 |

LER = FL-68
Yearly Cost of 1000 lumens, 3000 hrs at $.08 \mathrm{KWH}=\$ 3.53$

## ORDERING INFORMATION

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

NOTES: ${ }^{(1)}$ An EQ Grid Clip is recommended for all $9 / 16^{\prime \prime}$ 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.

SHIPPING INFORMATION

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

