# **COOPER LIGHTING SOLUTIONS - 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.

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

#### Construction

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. 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.

#### Electrical\*\*

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

#### Finish

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

#### Hinging/Latching

Positive cam action steel latches and integral safety hinges provide secure, high quality door fit and allow hinging and latching from either side.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### 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.

#### 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.



GR8 232



**General Purpose** T8 Commercial Troffer



#### ENERGY DATA

Input Watts: EB Ballast & STD Lamps 232 (61)

ES Ballast & STD Lamps 232 (71)

Luminaire Efficacy Rating LER = FL-58 Catalog Number: GR8-232A

Yearly Cost of 1000 lumens. 3000 hrs at .08 KWH = \$4.14

\*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 requiremente

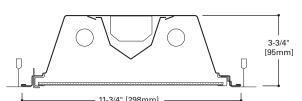
\*\*\*Order FCS-14W-U Flange Kit for installation in drywall ceiling. See options and accessories compatibility section.

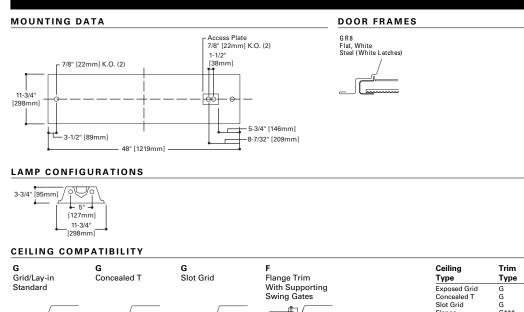
LAMPS CONTAIN MERCURY, DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

> LINEAR DISCONNECT Safe and convenient means of

disconnecting power

ADF031753





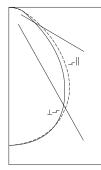
### COOPER LIGHTING SOLUTIONS

Ceiling Type	Tr Ty
Exposed Grid	G
Concealed T	G
Slot Grid	G
Flange	G*
(Verify compatib	ility/ c

ompatibility/ consult factory.)



#### PHOTOMETRICS



Zone

0-30

0-40

0-60

0-90

0-180

### GR8-232A

**Electronic Ballast** F32T8/35K lamps 2800 lumens

Spacing criterion: (II) 1.2 x mounting height, ( $\perp$ ) 1.2 x mounting height

Efficiency 68.2%

Test Report: GR8232A.IES

LER = FL-58

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$4.14

## **Coefficients of Utilization**

Zonal Lumen Summary

%Lamp

23.6

37.6

58.9

68.2

68.2

%Fixture

34.6

55.1

86.4

100.0

100.0

Lumens

1322

2104

3301

3821

3821

Effective floor cavity reflectance 20%																		
rc		80	%			7	0%			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	81	81	81	81	79	79	79	79	76	76	76	73	73	73	70	70	70	68
1	75	73	70	68	74	71	69	67	68	66	65	66	64	63	63	62	61	60
2	70	65	61	58	68	64	60	57	61	58	56	59	57	55	57	55	53	52
3	65	59	54	50	63	58	53	50	56	52	49	54	51	48	52	49	47	46
4	60	53	47	43	58	52	47	43	50	46	43	49	45	42	47	44	42	40
5	55	47	42	38	54	47	41	38	45	41	37	44	40	37	43	39	36	35
6	51	43	37	33	50	42	37	33	41	36	33	40	36	33	39	35	32	31
7	47	39	33	29	46	38	33	29	37	33	29	36	32	29	35	32	29	27
8	44	35	30	26	43	35	29	26	34	29	26	33	29	25	32	28	25	24
9	40	32	26	23	39	31	26	22	30	26	22	30	25	22	29	25	22	21
10	38	29	24	20	37	28	23	20	28	23	20	27	23	20	27	23	20	19

#### **Typical VCP Percentages**

Height Along Height Across

Room Size (Ft.)	8.5′	10.0′	8.5′	10.0′	
<u>20 x 20</u>	61	64	62	67	
<u>30 x 30</u>	54	58	54	59	
<u>30 x 60</u>	45	48	44	47	
<u>60 x 30</u>	56	60	57	61	
60 x 60	46	49	45	48	

#### Angle Along II 45° Across $\perp$ 1704 1704 1704 0 5 1695 1701 1699 1674 1685 10 1683 <u>15</u> 1637 1650 1652 20 1583 1597 1595 1511 1519 1496 25 30 1418 1405 1357 35 1300 1260 1199 40 1158 1089 1030 <u>45</u> 988 902 854 795 718 677 50 55 619 550 508 462 393 369 <u>60</u> <u>65</u> 332 264 272 <u>70</u> 235 175 211 172 <u>75</u> 167 129 80 123 107 132 60 72 <u>85</u> 65

0

90

0

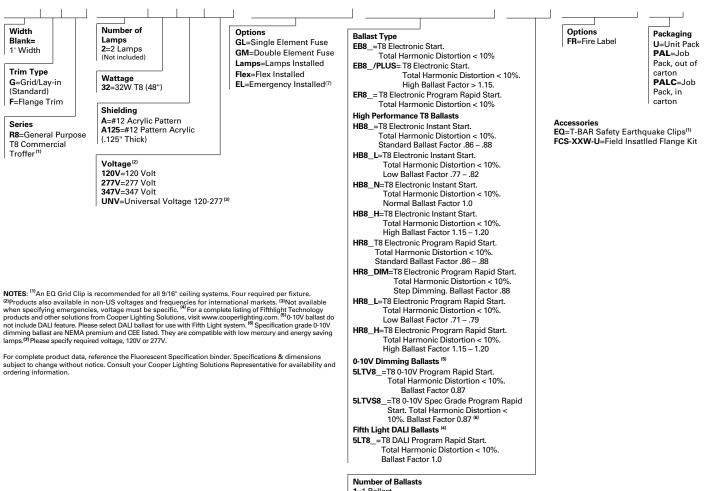
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Candlepower



#### ORDERING INFORMATION

#### SAMPLE NUMBER: GR8-232A-120V-EB81-U



1=1 Ballast 2=2 Ballasts 3=3 Ballasts

#### SHIPPING INFORMATION

Catalog No.	Wt.				
GR8-232A	19 lbs.				

