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.

The GR8 offers great performance and great quality. The GR8IC is designed for insulations when the housing will be in direct contact with installation.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

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 Listed Type IC Recessed Luminaire (Rated for direct contact with insulation). 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.

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 Controls (www.coopercontrol.com) to maximize energy savings.



GR8IC 228T8 232

1' X 4' TROFFER 2 LAMP

General Purpose T8 Commercial Troffer For Use In Insulated Ceilings



ENERGY DATA

Input Watts:

EB Ballast & STD Lamps 232 (61)

HB Ballast & STD Lamps 228T8 (49)

Luminaire Efficacy Rating
LER = FL-58
Catalog Number: GR8IC-232A

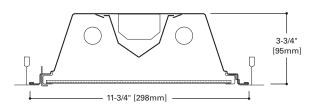
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$4.14

- *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 requirements
- ***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







LAMP CONFIGURATIONS



CEILING COMPATIBILITY

Grid/Lay-in Standard	Concealed T

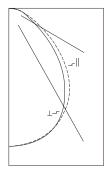






Ceiling	Trim		
Туре	Type		
Exposed Grid	G		
Concealed T	G		
Slot Grid	G		
Flange	G***		
(Verify compatib	ility/ consult		

factory.)



GR8IC-232A Electronic Ballast F32T8/35K lamps 2800 lumens

Spacing criterion: (II) 1.2 x mounting height, (⊥) 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

	Effective floor cavity reflectance 20%																	
rc		80	%			70	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

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1322	23.6	34.6
0-40	2104	37.6	55.1
0-60	3301	58.9	86.4
0-90	3821	68.2	100.0
0-180	3821	68.2	100.0

Typical VCP Percentages

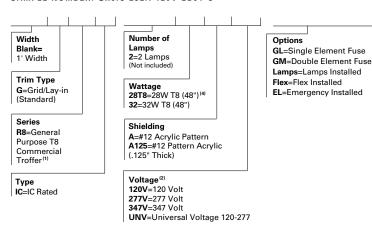
	Heigh	t Along	Height	Across	
Room Size (Ft.)	8.5'	10.0'	8.5'	10.0'	
20 x 20	61	64	62	67	
30 x 30	54	58	54	59	
30 x 60	45	48	44	47	
60 x 30	56	60	57	61	
60 x 60	46	49	45	48	

Candlepower

Angle	Along II	45°	Across ⊥
0	1704	1704	1704
5	1695	1701	1699
10	1674	1683	1685
15	1637	1650	1652
20	1583	1597	1595
25	1511	1519	1496
30	1418	1405	1357
35	1300	1260	1199
40	1158	1089	1030
45	988	902	854
50	795	718	677
55	619	550	508
60	462	393	369
65	332	264	272
70	235	175	211
75	167	129	172
80	123	107	132
85	65	60	72
90	0	0	0



SAMPLE NUMBER: GR8IC-232A-120V-EB81-U



NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16° ceiling systems. Four required per fixture. ⁽²⁾Products also available in non-US voltages and frequencies for international markets. ⁽³⁾Not available when specifying emergencies, voltage must be specified. ⁽⁶⁾For a complete listing of Firthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com ⁽⁶⁾ 0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ⁽⁷⁾ Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving largns.

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

EB8_=T8 Electronic Start.

Total Harmonic Distortion < 10% EB8_/PLUS= T8 Electronic Start.

EB8_/PLUS= 18 Electronic Start.

Total Harmonic Distr

Total Harmonic Distortion < 10%. High Ballast Factor > 1.15.

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

High Performance T8 Ballasts

HB8_=T8 Electronic Instant Start.

Total Harmonic Distortion < 10%. Standard Ballast Factor .86 – .88

HB8_L=T8 Electronic Instant Start.
Total Harmonic Distortion < 10%. Low

Ballast Factor .77 – .82

HB8_N=T8 Electronic Instant Start.

Total Harmonic Distortion < 10%.

Normal Ballast Factor 1.0

HB8_H=T8 Electronic Instant Start.
Total Harmonic Distortion < 10%.
High Ballast Factor 1.15 – 1.20

HR8_T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Standard Ballast Factor .86 – .88

HR8_DIM=T8 Electronic ProgramRapid Start.
Total Harmonic Distortion < 10%.
Step Dimming. Ballast Factor .88

HR8_L=T8 Electronic Program Rapid Start.
Total Harmonic Distortion < 10%.
Low Ballast Factor .71 – .79

HR8_H=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. High Ballast Factor 1.15 – 1.20

0-10V Dimming Ballasts (6)

5LTV8_=T8 0-10V Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 0.87

5LTVS8_=T8 0-10V Spec Grade Program
Rapid Start. Total Harmonic
Distortion < 10%. Ballast Factor 0.87 (7)

Fifth Light DALI Ballasts (5)

5LT8_=T8 DALI Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0

Number of Ballasts

1=1 Ballast

2=2 Ballasts

3=3 Ballasts

Packaging
U=Unit Pack

Accessories EQ-CLIP-U=T-BAR Safety Earthquake Clips⁽¹⁾ FCS-14W-U=Field Insatlled Flange Kit

SHIPPING INFORMATION

 Catalog No.
 Wt.

 GR8IC-232A
 19 lbs.

