# **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.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

### SPECIFICATION FEATURES

#### Construction

Unitized low profile recessed housing is die formed of code gauge prime cold rolled steel with full length stiffeners and unibody endplate 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 gridlock feature for safety and convenience.

#### Electrical\*\*

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Rotor-lock lampholders. Biaxial models use 2G11 base lampholders with doubleedge wiping action pressure-lock contacts and horizontally oriented lamp support clips. 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 spring loaded steel latches and safety lock T-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 width mechanical light traps. Light stabilized, acrylic prismatic lens.

### Controls

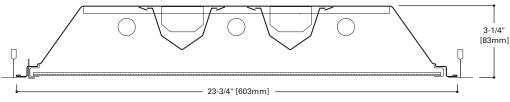
Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Lighting Solutions (www.cooperlighting.com) to maximize energy savings.



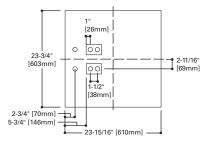
**2GR8** 317 3U1-5/8

2' X 2' TROFFER 3 LAMP

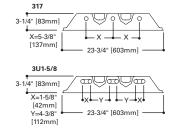
General Purpose T8 Commercial Troffer



# **MOUNTING DATA**



# LAMP CONFIGURATIONS



# **DOOR FRAMES**

2GR8 Flat, White Steel (White Latches)

Grid/Lay-in

# CEILING COMPATIBILITY

Standard	

Slot Grid

Concealed T

# Flange Trim With Supporting Swing Gates



Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G
Slot Grid	G
Flange	G***

# **ENERGY DATA**

Input Watts:

EB Ballast & STD Lamps 317 (52), 3U1-5/8 (88)

ES Ballast & STD Lamps

317 (69), 3U1-5/8 (105)

Luminaire Efficacy Rating

LER = FL-61

Catalog Number: 2GR8-317A

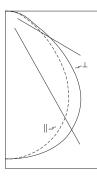
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.93

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





# **PHOTOMETRICS**



# 2GR8-317A Electronic Ballast (3) F17T8 lamps

1350 lumens Spacing criterion: (II) 1.2 x mounting height, ( $\perp$ ) 1.3 x mounting height Efficiency 73% Test Report: 2GR8317A.IES

LER = FL-61 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.93

# Candela

Angle	Along II	45°	Across ⊥
0	1171	1171	1171
5	1167	1167	1172
10	1150	1157	1169
15	1121	1139	1161
20	1079	1111	1145
25	1025	1074	1118
30	961	1021	1069
35	877	948	1009
40	772	855	932
45	658	729	826
50	530	599	687
55	419	474	538
60	323	335	395
65	238	223	273
70	180	150	207
75	140	118	165
80	103	99	120
85	54	58	62
90	0	0	0

# Coefficients of Utilization

	Eff	fectiv	ve fl	oor o	avity r	eflec	tanc	e	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	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73
1	80	77	74	71	78	75	72	70	72	70	68	69	67	66	67	65	64	62
2	73	68	63	59	71	66	62	58	64	60	57	61	58	56	59	57	55	53
3	67	60	54	50	66	59	54	50	57	52	49	55	51	48	53	50	47	45
4	62	54	48	43	60	53	47	43	51	46	42	49	45	41	48	44	41	39
5	57	48	42	37	56	47	42	37	46	41	37	44	40	36	43	39	36	34
- 6	53	44	37	33	52	43	37	33	42	36	32	40	36	32	39	35	32	30
7	49	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	28	27
- 8	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26	24
9	43	33	28	24	42	33	27	24	32	27	23	31	27	23	31	26	23	22
10	40	31	25	21	39	30	25	21	30	25	21	29	24	21	28	24	21	20

# Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	927	22.9	31.3
0-40	1516	37.4	51.3
0-60	2507	61.9	84.8
0-90	2957	73.0	100.0
0.400	2057	72.0	100.0

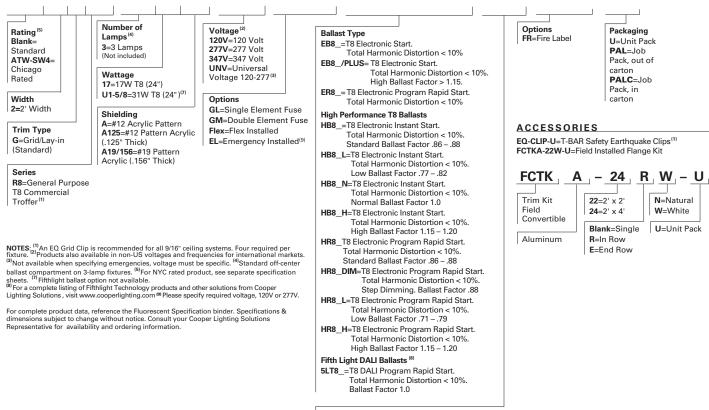
Lu	min	ance	Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	3269	3622	4104
55	2567	2904	3296
65	1979	1854	2270
75	1901	1602	2240
85	2177	2338	2499



#### ORDERING INFORMATION

# SAMPLE NUMBER: 2GR8-317A-UNV-EB81-U



# Number of Ballasts

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

# SHIPPING INFORMATION

Catalog No.	Wt.
2GR8-317A	10 lbs.
2GR8-3U1-5/8	10 lbs.

