

## DESCRIPTION

The GR5 is a T5-dedicated lensed troffer designed to offer premium performance in a low profile housing. The GR5's shallow, low profile housing is compatible with even highly restrictive plenums. Luminaires are compatible with today's popular ceiling systems.

The GR5 offers great performance and great quality. The series is an excellent choice for commercial offices, schools, hospitals, retail merchandising and many other applications.

<b>Catalog #</b>		<b>Type</b>	
<b>Project</b>			
<b>Comments</b>		<b>Date</b>	
<b>Prepared by</b>			

## SPECIFICATION FEATURES

### 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. Ballast covers are 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 by mounting bolts. Rotor-lock lampholders. UL/CUL listed. Suitable for damp

### 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

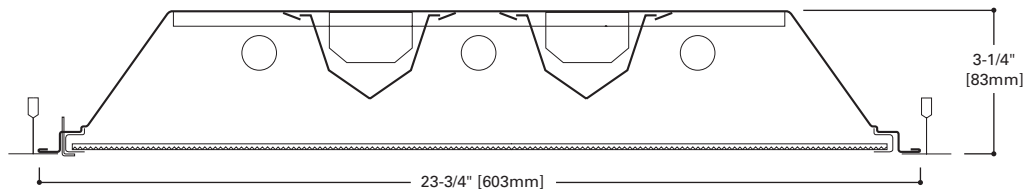
Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Lighting Solutions ([www.cooperlighting.com](http://www.cooperlighting.com)) to maximize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



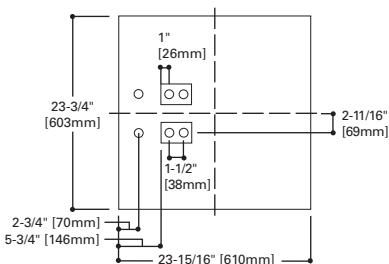
**2GR5**  
**314T5**  
**324T5**

**2' X 2' TROFFER**  
**3 LAMP T5**

General Purpose  
T5 Commercial Troffer

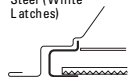


## MOUNTING DATA

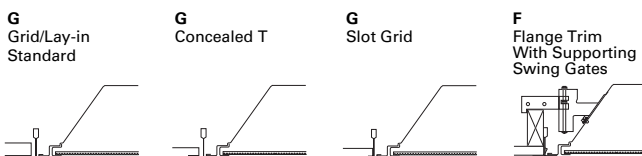


## DOOR FRAMES

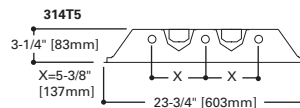
2GR5  
Flat, White  
Steel (White  
Latches)



## CEILING COMPATIBILITY



## LAMP CONFIGURATIONS



## ENERGY DATA

Input Watts:  
**EB Ballast & STD Lamps**  
314T5 (49)  
324T5 (80)

**Luminaire Efficacy Rating**  
LER = FL-62

**Catalog Number:** 2GR5-314T5A  
**Yearly Cost of 1000 lumens,**  
**3000 hrs at .08 KWH = \$3.87**

\*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.

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

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

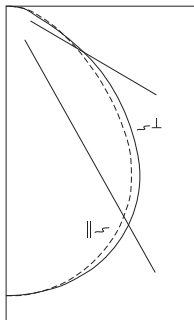
**LINEAR DISCONNECT**

Safe and convenient means of disconnecting power.



ADF110891  
October 16, 2019 8:25 AM

PHOTOMETRICS



**2GR5-314T5A**  
 Electronic Ballast  
 (3) 14W T5 lamps  
 1300 lumens  
 Spacing criterion:  
 (II) 1.2 x mounting  
 height, (⊥) 1.3 x  
 mounting height  
 Efficiency 77.3%  
 Test Report:  
 2GR5-314T5A.IES  
 LER = FL-62  
 Yearly Cost of 1000  
 lumens, 3000 hrs at  
 .08 KWH = \$3.87

**Coefficients of Utilization**

rc	Effective floor cavity reflectance								20%														
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
<b>RCR</b>																							
<b>0</b>	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77	77	77	77		
<b>1</b>	85	81	78	75	83	79	77	74	76	74	72	73	71	70	70	69	67	66	66	66	66		
<b>2</b>	78	72	67	63	76	70	66	62	67	64	60	65	62	59	63	60	58	56	56	56	56		
<b>3</b>	71	63	58	53	69	62	57	52	60	55	51	58	54	51	56	53	50	48	48	48	48		
<b>4</b>	65	57	50	45	64	56	50	45	54	49	44	52	48	44	50	46	43	42	42	42	42		
<b>5</b>	60	51	44	39	59	50	44	39	49	43	39	47	42	38	46	41	38	36	36	36	36		
<b>6</b>	56	46	39	35	55	45	39	35	44	38	34	43	38	34	42	37	34	32	32	32	32		
<b>7</b>	52	42	35	31	51	41	35	31	40	35	31	39	34	30	38	34	30	29	29	29	29		
<b>8</b>	48	38	32	28	47	38	32	28	37	31	27	36	31	27	35	30	27	26	26	26	26		
<b>9</b>	45	35	29	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23	23	23	23		
<b>10</b>	43	33	27	23	42	32	27	23	31	26	23	31	26	22	30	26	22	21	21	21	21		

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
<b>0-30</b>	945	24.2	31.4
<b>0-40</b>	1542	39.5	51.2
<b>0-60</b>	2551	65.4	84.7
<b>0-90</b>	3013	77.3	100.0
<b>0-180</b>	3013	77.3	100.0

**Luminance Data**

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
<b>45</b>	3266	3601	4028
<b>55</b>	2531	2967	3302
<b>65</b>	2014	1957	2330
<b>75</b>	1763	1485	2161
<b>85</b>	2008	2047	2677

**Candela**

Angle	Along II	45°	Across ⊥
<b>0</b>	1202	1202	1202
<b>5</b>	1199	1198	1202
<b>10</b>	1182	1187	1196
<b>15</b>	1153	1165	1182
<b>20</b>	1111	1135	1156
<b>25</b>	1058	1091	1119
<b>30</b>	990	1031	1071
<b>35</b>	907	958	1006
<b>40</b>	804	862	933
<b>45</b>	673	742	830
<b>50</b>	542	618	704
<b>55</b>	423	496	552
<b>60</b>	327	359	402
<b>65</b>	248	241	287
<b>70</b>	184	155	210
<b>75</b>	133	112	163
<b>80</b>	97	89	123
<b>85</b>	51	52	68
<b>90</b>	0	0	0

ORDER INFORMATION

SAMPLE NUMBER: 2GR5-314T5A-UNV-EBT1-U

<p><b>Rating<sup>(5)</sup></b>                  Blank= Standard                  ATW-SW4= Chicago Rated</p>	<p><b>Number of Lamps<sup>(2)</sup></b>                  3=3 Lamps (Not included)</p>	<p><b>Voltage<sup>(3)</sup></b>                  347V=347 Volt                  UNV=Universal                  Voltage 120-277<sup>(4)</sup></p>	<p><b>Ballast Type</b>                  EBT_ =T5 or T5HO Electronic Program Rapid Start.                  Total Harmonic Distortion &lt; 10%.                  Standard Ballast Factor=1.0</p>	<p><b>Number of Ballasts</b>                  1=1 Ballast                  2=2 Ballasts                  3=3 Ballasts</p>	<p><b>Options</b>                  FR=Fire Label</p>
<p><b>Width</b>                  2=2' Width</p>	<p><b>Wattage</b>                  14T5=14W T5 (24")                  24T5=24W T5HO (24")</p>	<p><b>Options</b>                  GL=Single Element Fuse                  GM=Double Element Fuse                  Lamps=Lamps Installed                  Flex=Flex Installed                  EL=Emergency Installed<sup>(10)</sup></p>	<p><b>Ballast/FactorType</b>                  EBT_N=T5 Electronic Program Rapid Start.                  Total Harmonic Distortion &lt; 10%.                  Normal Ballast Factor=.90<sup>(6)</sup></p>	<p><b>Options</b>                  FR=Fire Label</p>	<p><b>Options</b>                  FR=Fire Label</p>
<p><b>Trim Type</b>                  G=Grid/Lay-in (Standard)</p>	<p><b>Shielding</b>                  A=#12 Acrylic Pattern                  A125=#12 Pattern Acrylic (.125" Thick)                  A19/156=#19 Pattern Acrylic (.156" Thick)</p>		<p><b>EBT_H</b>=T5 Electronic Program Rapid Start.                  Total Harmonic Distortion &lt; 10%.                  High Ballast Factor=1.15<sup>(7)</sup></p>	<p><b>Options</b>                  U=Unit Pack</p>	
<p><b>Series</b>                  R5=General Purpose T5 Commercial Troffer<sup>(1)</sup></p>			<p><b>EBT_NDIM</b>=T5 Electronic Program Rapid Start.                  Total Harmonic Distortion &lt; 10%.                  Step Dimming, Normal Ballast Factor=.95-1.0<sup>(8)</sup></p>		
			<p><b>EBT_HDIM</b>=T5 Electronic Program Rapid Start.                  Total Harmonic Distortion &lt; 10%.                  Step Dimming, High Ballast Factor=1.15</p>		
			<p><b>Fifth Light DALI Ballasts<sup>(9)</sup></b>                  5LT5_ =T5 DALI Program Rapid Start.                  Total Harmonic Distortion &lt; 10%.                  Ballast Factor 1.0</p>		
			<p><b>5LT5H_</b>=T5HO DALI Program Rapid Start.                  Total Harmonic Distortion &lt; 10%.                  Ballast Factor 1.0</p>		

NOTES: <sup>(1)</sup>An EQ Grid Clip is recommended for all 9/16" ceiling systems. <sup>(2)</sup>Standard off-center ballast compartment on 3-lamp fixtures. <sup>(3)</sup>Products also available in non-US voltages and frequencies for international markets. <sup>(4)</sup>Not available when specifying emergencies, voltage must be specific. <sup>(5)</sup>For NYC rated product, see separate specification sheets. <sup>(6)</sup>.90 ballast factor available for 2 or 3 14W T5 or 28W T5 lamps only. <sup>(7)</sup>1-Lamp ballast in a High Ballast factor not available. <sup>(8)</sup>1-Lamp step dimming ballast in a Normal Ballast factor not available. 2-Lamp ballast will not operate 1-Lamp. <sup>(9)</sup>For a complete listing of Fifthlight Technology products and other solutions from Cooper Lighting Solutions, visit www.cooperlighting.com <sup>(10)</sup>Please specify required voltage, 120V or 277V.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips<sup>(1)</sup>  
 FCTKA-22W-U=Field Installed Flange Kit

**FCTK A - 24 R W - U**

Trim Kit Field Convertible	22=2' x 2' 24=2' x 4'	N=Natural W=White
Aluminum	Blank=Single R=In Row E=End Row	U=Unit Pack

SHIPPING DATA

Catalog No.	Wt.
2GR5-314T5A	12 lbs.
2GR5-324T5A	12 lbs.