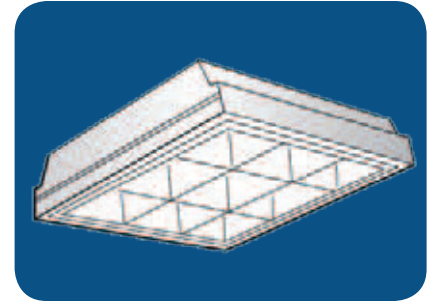


## PARA 2' x 2'

Parabolic Lens Troffer,  
Grid mount



### FEATURES & SPECIFICATIONS

#### INTENDED USE

Specification grade, parabolic lens troffer provides low glare, light cut-off, and visual comfort for all commercial and industrial buildings requiring general illumination with recessed configurations. Black perimeter (reveal) provides “floating” louver façade. Available in static and air return configurations.

#### SIZE W x L x H in inches (mm)

23.75W x 24.0L x 5.5Dp (600 x 610 x 140)

#### MATERIALS & FEATURES

Housing is die-formed and embossed code 22 gage steel. Finish is high reflectance baked white enamel, with black reveal support rails. Wiring knockouts are provided on back and end of housing. Ballast cover or reflector snaps into place; no tools required for ballast access. Louvers are formed from aluminum, are available in a variety of finishes and cell counts, and are held closed by two positive cam latches. Premium, full specular reflectors are available as an option to increase efficiency or modify lighting distribution.

- POST PAINTED POWDER COAT LUMINAIRE FINISH
- Aluminum louver - standard is low iridescent semi-specular (satin), also available in full specular (bright), and white finish.
- Louvers hinge from either side; field reversible.
- Access plate to simplify installation

#### LAMP

2, 3, or 4 lamp positions.

#### MOUNTING

Recessed inverted T-Bar ceilings. Grid mount.

#### LISTING

Fixture & Ballast: UL Listed

Ballast: Thermally protected, class P, HPF, Non PCB

#### TYPICAL OPTIONS AND ACCESSORIES

Emergency ballasts, whips, and frame kits. See options page at the end of the T02Grid section, or contact factory for more details.

### ORDERING INFORMATION

Example: **PARA9C232UE120**

PARA	9C	2	32U	E120
<b>Series</b>	<b>Function</b>	<b>Lamp Count</b>	<b>Lamp Type [1]</b>	<b>Ballast &amp; Voltage [1]</b>
<b>PARA</b> Parabolic Louver, Grid Mount	(blank) Static R Air Return	2, 3, or 4 Lamps Not included	20 24 in. T12 17 24 in. T8 14 23 in. T5 24 23 in. T5HO 32U T8 Ubend 6 in. leg 31U T8 Ubend 1.62 in. leg 40BX Biaxial (TT5) 2G11 4-Pin 40W	<b>E120</b> Electronic, 120V <b>E277</b> Electronic, 277V <b>MV</b> Electronic, Multivolt (120-277) <b>H120 [4]</b> Electronic, 120V, Hi-Lume <b>H277 [4]</b> Electronic, 277V, Hi-Lume <b>HMV [4]</b> Electronic, Multivolt, Hi-Lume <b>L120 [4]</b> Electronic, 120V, Lo-Lume <b>L277 [4]</b> Electronic, 277V, Lo-Lume <b>LMV [4]</b> Electronic, Multivolt, Lo-Lume <b>G120 [5]</b> Line Dimming, 120 Volt <b>G277 [5]</b> Line Dimming, 277 Volt <b>GMV [5]</b> Line or 0-10V dimming, Multivolt
<b>SHPARA</b> Parabolic Louver, Surface Mount				
	<b>Louver Cell Count &amp; Material [2]</b>		<b>Reflector [3]</b>	<b>Options [1]</b>
	9C 9 cell (3x3 pattern) semi-specular, 3in nominal 12C 12 cell (3x4 pattern) semi-specular, 3in nominal 16C 16 cell (4x4 pattern) semi-specular, 3in nominal 9F 9 cell (3x3 pattern) Full specular, 3in nominal 16F 16 cell (4x4 pattern) Full specular, 3in nominal 9W 9 cell (3x3 pattern) White, 3in nominal 16W 16 cell (4x4 pattern) White, 3in nominal		(blank) no reflector [3] M20 Mirrored reflector	<b>WP</b> 6ft whip, 3/18ga <b>WP10</b> 6ft whip, 4/18ga <b>EM</b> Emergency ballast <b>EM14</b> Emergency ballast, 1400Lumen

#### Notes

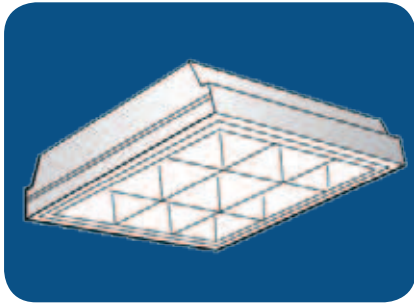
- [1] See end of T02Grid for many additional lamps, ballasts, finishes, and options.
- [2] Custom louvers available in any cell configuration. Contact factory for additional information.
- [3] Custom reflectors available to create any light distribution.
- [4] HiLume and LoLume ballasts available for T8 lamps only.
- [5] Line dimming ballasts available for T8 lamps only.
- [6] Magnetic ballasts available for T8 & T12 only.

EM14 ballast required for T5 & T5HO lamps

Catalog Number:
Notes:

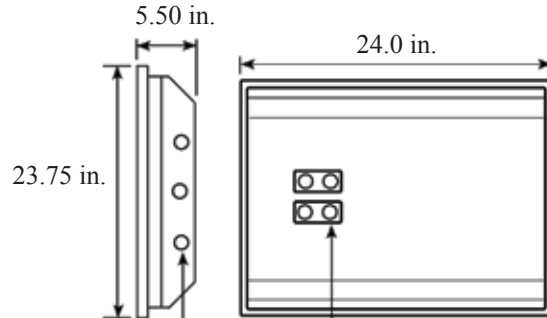
# PARA 2' x 2'

## Parabolic Lens Troffer, Grid mount



### DIMENSIONS

All dimensions are inches. Specifications subject to change without notice.



1/2' Nom. (0.88 in. Actual)  
EKO In Both Ends and Back

Access Plate  
On Center For 2 & 4 Lamp Models  
Off Center For 3 Lamp Models

### PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Lamp configurations shown are typical. Photometric data on these and other configurations available upon request.

Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA9C232U		Spacing ratio. Along 1.2 Across 1.4			
0	0.75	0.75	0.74	0.73	0.73	0.72	0.70	0.70	0.69
1	0.69	0.67	0.64	0.65	0.63	0.61	0.63	0.61	0.60
2	0.64	0.60	0.56	0.58	0.55	0.52	0.56	0.53	0.51
3	0.59	0.53	0.48	0.52	0.48	0.44	0.50	0.47	0.44
4	0.55	0.48	0.42	0.47	0.42	0.38	0.45	0.41	0.38
5	0.50	0.43	0.37	0.42	0.37	0.33	0.41	0.36	0.33
6	0.47	0.38	0.33	0.38	0.33	0.29	0.37	0.32	0.29
7	0.43	0.35	0.30	0.34	0.30	0.26	0.34	0.29	0.26
8	0.40	0.32	0.27	0.32	0.27	0.23	0.31	0.26	0.23
9	0.38	0.29	0.24	0.29	0.24	0.21	0.28	0.24	0.21
10	0.35	0.27	0.22	0.27	0.22	0.19	0.26	0.22	0.19

Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA9C317		Spacing ratio. Along 1.2 Across 1.6			
0	0.79	0.78	0.78	0.77	0.76	0.76	0.73	0.73	0.73
1	0.73	0.7	0.68	0.71	0.69	0.67	0.66	0.64	0.63
2	0.68	0.63	0.59	0.66	0.62	0.58	0.59	0.56	0.54
3	0.62	0.56	0.51	0.61	0.55	0.51	0.53	0.5	0.46
4	0.58	0.5	0.45	0.56	0.5	0.45	0.48	0.44	0.41
5	0.53	0.45	0.4	0.52	0.45	0.4	0.43	0.39	0.36
6	0.49	0.41	0.35	0.48	0.4	0.35	0.39	0.35	0.31
7	0.46	0.37	0.32	0.45	0.37	0.32	0.36	0.31	0.28
8	0.43	0.34	0.29	0.42	0.34	0.29	0.33	0.28	0.25
9	0.4	0.31	0.26	0.39	0.31	0.26	0.3	0.26	0.23
10	0.38	0.29	0.24	0.37	0.29	0.24	0.28	0.24	0.21

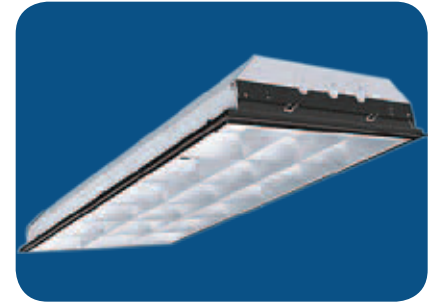
Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA16C417		Spacing ratio. Along 1.2 Across 1.4			
0	0.70	0.71	0.70	0.69	0.69	0.68	0.66	0.66	0.66
1	0.66	0.64	0.62	0.62	0.61	0.59	0.60	0.59	0.57
2	0.62	0.58	0.54	0.56	0.53	0.51	0.54	0.52	0.50
3	0.57	0.52	0.48	0.51	0.47	0.44	0.49	0.46	0.43
4	0.53	0.47	0.42	0.46	0.42	0.39	0.45	0.41	0.38
5	0.49	0.42	0.38	0.42	0.37	0.34	0.41	0.37	0.34
6	0.46	0.38	0.34	0.38	0.33	0.30	0.37	0.33	0.30
7	0.43	0.35	0.30	0.35	0.30	0.27	0.34	0.30	0.27
8	0.40	0.32	0.28	0.32	0.28	0.25	0.31	0.27	0.24
9	0.37	0.30	0.25	0.29	0.25	0.22	0.29	0.25	0.22
10	0.35	0.27	0.23	0.27	0.23	0.20	0.27	0.23	0.20

Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA9C331UM20		Spacing ratio. Along 1.2 Across 1.3			
0	0.72	0.73	0.72	0.70	0.71	0.71	0.68	0.68	0.67
1	0.68	0.65	0.63	0.66	0.64	0.62	0.61	0.60	0.58
2	0.63	0.58	0.55	0.61	0.57	0.54	0.55	0.52	0.50
3	0.58	0.52	0.48	0.57	0.51	0.47	0.50	0.46	0.43
4	0.54	0.47	0.42	0.52	0.46	0.42	0.45	0.41	0.38
5	0.50	0.42	0.37	0.48	0.42	0.37	0.40	0.36	0.33
6	0.46	0.38	0.33	0.45	0.38	0.33	0.37	0.32	0.29
7	0.43	0.35	0.30	0.42	0.34	0.30	0.33	0.29	0.26
8	0.40	0.32	0.27	0.39	0.32	0.27	0.31	0.27	0.24
9	0.37	0.29	0.25	0.36	0.29	0.24	0.28	0.24	0.21
10	0.35	0.27	0.22	0.34	0.27	0.22	0.26	0.22	0.19

Catalog Number:
Notes:

# PARA 2' x 4'

## Parabolic Lens Troffer, Grid Mount



### FEATURES & SPECIFICATIONS

#### INTENDED USE

Specification grade, parabolic lens troffer provides low glare, light cut-off, and visual comfort for all commercial and industrial buildings requiring general illumination with recessed configurations. Black perimeter (reveal) provides "floating" louver façade. Available in static and air return configurations.

#### SIZE W x L x H in inches (mm)

23.75W x 48.0L x 5.5Dp (300 x 1220 x 140)

#### MATERIALS & FEATURES

Housing is die-formed and embossed code 22 gage steel. Finish is high reflectance baked white enamel, with black reveal support rails. Wiring knockouts are provided on back and end of housing. Ballast cover or reflector snaps into place; no tools required for ballast access. Louvers are formed from aluminum, are available in a variety of finishes and cell counts, and are held closed by two positive cam latches. Premium, full specular reflectors are available as an option to increase efficiency or modify lighting distribution.

- POST PAINTED POWDER COAT LUMINAIRE FINISH
- Aluminum louver - standard is low iridescent semi-specular (satin), also available in full specular (bright), and white finish.
- Louvers hinge from either side; field reversible.
- Access plate to simplify installation

#### LAMP

2, 3, or 4 lamp positions

#### MOUNTING

Recessed inverted T-Bar ceilings. Grid mount.

#### LISTING

Fixture and Ballast: UL Listed.

Ballast: Thermally protected, class P, HPF, Non PCB.

#### TYPICAL OPTIONS AND ACCESSORIES

Emergency ballasts, whips, and frame kits. See options page at the end of the T02Grid section, or contact factory for more details.

### ORDERING INFORMATION

Example: PARA 18C 332 MV

PARA	18C	3	32	MV
<b>Series</b>	<b>Lamp Count</b>			<b>Ballast &amp; Voltage [1]</b>
<b>PARA</b> Parabolic Louver, Grid Mount	<b>2, 3, or 4</b> Lamps Not included	<b>40</b>	<b>48 in. T12 [7]</b>	<b>MV</b> Electronic, Multivolt (120-277)
<b>SHPARA</b> Parabolic Louver, Surface Mount		<b>32</b>	<b>48 in. T8</b>	<b>HMV [4]</b> Electronic, Multivolt, Hi-Lume
		<b>28</b>	<b>46 in. T5</b>	<b>LMV [5]</b> Electronic, Multivolt, Lo-Lume
		<b>54</b>	<b>46 in. T5HO</b>	<b>GMV [4]</b> Line or 0-10V dimming, Multivolt
				<b>X1</b> Wired for single ended LED T8 lamps
				<b>X2</b> Wired for double ended LED T8 lamps
				<b>XX</b> No sockets, ballasts or wiring
<b>Function</b>	<b>Louver Cell Count &amp; Material [2]</b>			<b>Options [1]</b>
<b>(blank)</b> Static	<b>12C</b> 12 cell (2x6 pattern) semi-specular, 3in nominal			<b>RA</b> Regressed aluminum door, white
<b>R</b> Air Return	<b>16C</b> 16 cell (2x8 pattern) semi-specular, 3in nominal			<b>RAB</b> Regressed aluminum door, black
	<b>18C</b> 18 cell (3x6 pattern) semi-specular, 3in nominal			<b>WP</b> 6 ft. 3 wire 18 gauge whip
	<b>32C</b> 32 cell (4x8 pattern) semi-specular, 3in nominal			<b>WP10</b> 6 ft. 4 wire 18 gauge whip
	<b>24C</b> 24 cell (4x6 pattern) semi-specular, 3in nominal			<b>EM</b> Emergency ballast, 500 lumens
	<b>18F</b> 18 cell (3x6 pattern) Full specular, 3in nominal			<b>EM14</b> Emergency ballast, 1400 lumens
	<b>32F</b> 32 cell (4x8 pattern) Full specular, 3in nominal			<b>GK1</b> Single Gasketed Door - Single (lens to door frame)
	<b>18W</b> 18 cell (3x6 pattern) White, 4in nominal			<b>GK2</b> Double Gasketed Door - (lens.frame + frame to troffer)
	<b>32W</b> 32 cell (4x8 pattern) White, 4in nominal			<b>GK3</b> Triple Gasketed (lens/frame + frame/troffer to T-bar grid)
				<b>LN15W35</b> Single ended 15W 1800 Lumen 3500K* Incl.
				<b>LN18W35</b> Single ended 18W 2100 Lumen 3500K* Incl.
				<b>Reflector [3]</b>
				<b>(blank)</b> no reflector [3]
				<b>M20</b> Mirrored reflector

For Multiple ballasts add the following code to the end of the ballast designation (11)(21)(22) or (31) based on how the fixture will be controlled.

#### Notes

- [1] See end of T02Grid for many additional lamps, ballasts, finishes, and options.
- [2] Custom louvers available in any cell configuration. Contact factory for additional information.
- [3] Custom reflectors available to create any light distribution.
- [4] HiLume and LoLume ballasts available for T8 lamps only.
- [5] Dimming ballasts available for T8 & T5HO lamps only.
- [6] Magnetic ballasts available for T8 & T12 only.
- [7] Magnetic & electronic T12 ballasts drive a 34W energy saver lamp.

\* Change 35 to 40 or 50 for 4000K or 5000K

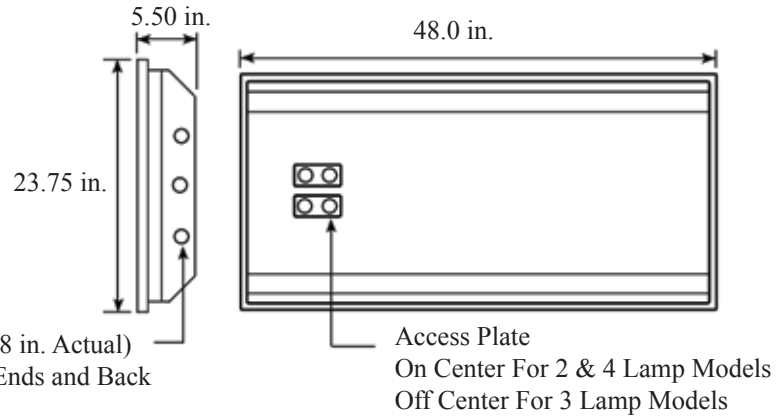
# PARA 2' x 4'

Parabolic Lens Troffer,  
Grid Mount



## DIMENSIONS

All dimensions are inches. Specifications subject to change without notice.



## PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Lamp configurations shown are typical. Photometric data on these and other configurations available upon request.

Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA18C332		Spacing ratio. Along 1.2 Across 1.6			
0	0.84	0.84	0.83	0.82	0.81	0.81	0.78	0.78	0.78
1	0.78	0.75	0.73	0.74	0.71	0.69	0.71	0.69	0.67
2	0.73	0.68	0.63	0.66	0.63	0.59	0.64	0.61	0.58
3	0.67	0.61	0.55	0.59	0.55	0.51	0.58	0.54	0.50
4	0.62	0.55	0.49	0.54	0.49	0.45	0.52	0.48	0.44
5	0.58	0.49	0.43	0.48	0.43	0.39	0.47	0.42	0.39
6	0.53	0.44	0.39	0.44	0.38	0.34	0.43	0.38	0.34
7	0.50	0.40	0.35	0.40	0.35	0.31	0.39	0.34	0.31
8	0.46	0.37	0.32	0.37	0.31	0.28	0.36	0.31	0.28
9	0.43	0.34	0.29	0.34	0.28	0.25	0.33	0.28	0.25
10	0.41	0.31	0.26	0.31	0.26	0.23	0.30	0.26	0.23

Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA32C432		Spacing ratio. Along 1.2 Across 1.3			
0	0.76	0.75	0.75	0.74	0.73	0.73	0.7	0.7	0.7
1	0.7	0.68	0.66	0.66	0.64	0.63	0.64	0.62	0.61
2	0.65	0.61	0.57	0.6	0.56	0.54	0.58	0.55	0.53
3	0.61	0.55	0.5	0.54	0.5	0.46	0.52	0.48	0.46
4	0.56	0.49	0.45	0.49	0.44	0.41	0.47	0.43	0.4
5	0.52	0.45	0.39	0.44	0.39	0.36	0.43	0.38	0.35
6	0.48	0.4	0.35	0.4	0.35	0.31	0.39	0.34	0.31
7	0.45	0.37	0.32	0.36	0.32	0.28	0.35	0.31	0.28
8	0.42	0.34	0.29	0.33	0.29	0.25	0.33	0.28	0.25
9	0.39	0.31	0.26	0.31	0.26	0.23	0.3	0.26	0.23
10	0.37	0.29	0.24	0.28	0.24	0.21	0.28	0.24	0.21

Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA18C232M20		Spacing ratio. Along 1.2 Across 1.3			
0	0.91	0.9	0.9	0.89	0.88	0.88	0.84	0.84	0.84
1	0.85	0.81	0.78	0.83	0.8	0.77	0.77	0.74	0.73
2	0.78	0.73	0.68	0.76	0.71	0.67	0.69	0.65	0.62
3	0.72	0.65	0.59	0.7	0.64	0.59	0.62	0.57	0.54
4	0.67	0.58	0.52	0.65	0.57	0.52	0.56	0.51	0.47
5	0.62	0.52	0.46	0.6	0.52	0.46	0.5	0.45	0.41
6	0.57	0.47	0.41	0.56	0.47	0.41	0.45	0.4	0.36
7	0.53	0.43	0.37	0.52	0.43	0.37	0.41	0.36	0.32
8	0.5	0.4	0.34	0.49	0.39	0.33	0.38	0.33	0.29
9	0.46	0.36	0.3	0.45	0.36	0.3	0.35	0.3	0.26
10	0.43	0.34	0.28	0.43	0.33	0.28	0.32	0.27	0.24

Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%
Ceiling	80%	80%	80%	70%	70%	70%	50%	50%	50%
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
RCR	Zonal cavity coefficients			PARA18C332M20		Spacing ratio. Along 1.2 Across 1.3			
0	0.92	0.93	0.93	0.9	0.91	0.91	0.87	0.87	0.86
1	0.88	0.85	0.82	0.86	0.83	0.81	0.8	0.78	0.76
2	0.82	0.77	0.73	0.81	0.76	0.72	0.73	0.7	0.68
3	0.77	0.7	0.65	0.75	0.69	0.65	0.67	0.63	0.6
4	0.72	0.64	0.59	0.71	0.64	0.58	0.62	0.57	0.54
5	0.67	0.59	0.53	0.66	0.58	0.53	0.57	0.52	0.48
6	0.63	0.54	0.48	0.62	0.53	0.48	0.52	0.47	0.44
7	0.59	0.5	0.44	0.58	0.49	0.44	0.48	0.43	0.4
8	0.56	0.46	0.41	0.55	0.46	0.4	0.45	0.4	0.37
9	0.52	0.43	0.37	0.51	0.43	0.37	0.42	0.37	0.34
10	0.49	0.4	0.35	0.48	0.4	0.34	0.39	0.34	0.31

Catalog Number:
Notes: