

FDS / LED Troffer

The LED troffer is designed to open up the room and distribute light spaciouly along both the vertical and horizontal work planes. This fixture is an excellent alternative to standard fluorescent designs and is ideally suited for commercial recessed grid troffers.



Project Name: _____ Type: _____

Catalog Number: _____ Date: _____

SPECIFICATIONS

Features

- Available in 2' and 4' lengths
- Many lumen packages are available to choose from
- Fits most standard t-grid ceilings
- Swing door allows for easy maintenance
- Consistent look with FWW, FNW, and RDS which promotes a consistent look throughout the building

Construction

- White gloss painted aluminum enclosure
- Rust free
- Light weight
- Installer friendly

Electrical

- 120-277 VAC 50/60 Hz universal voltage standard
- Power Factor > .9 & THD < 20% @277 VAC on DLC listed models
- 0-10V dimming standard
- Name brand drivers
- Ambient Operating Range: -20°C to 50°C (-4°F to 122°F)
- TM-21 Reported Lumen Maintenance (L70) of >60k hrs, and Projected Lumen Maintenance of 155k hrs

Optics

- Name brand LED arrays
- High efficiency LEDs
- CRI > 80 on DLC listed models; high color rendering
- Frosted lens hides LED pixelation
- Volumetric distribution for even illumination

Warranty

- 5-year limited warranty
- Project specific warranty terms available

Options

Consult with your sales representative for additional options

CERTIFICATIONS



ORDERING INFORMATION

TYPE	DIMENSIONS	LUMEN PACKAGE ^	CCT ^^
FDS	1 1 x 4	20 2,000L	30 3,000K
	2 2 x 2	25 2,500L	35 3,500K
	4 2 x 4	50 5,000L	40 4,000K
			50 5,000K
		* In 250 lumen increments see tables on pgs 4-6	* Not available in all configurations. See tables on pgs 4-6
FDS			

ADDITIONAL OPTIONS:

VOLTAGE	BACKUP	GEN
Blank 120/277v	E Backup Emergency Driver	02
	* Specify backup on pg 2	
		-02

Example Ordering Number: **FDS22540-E(PS01)-02**

^2x2 from 2,000 to 4,000 in 250 lumen increments

^^4,000L not available in 3000K

^2x4 from 3,000 to 5,000 in 250 lumen increments

^^5,000L not available in 3000K



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ADDITIONAL INFORMATION

Emergency Backup Options:

CODE	FEATURES
PS01	PowerSentry PS1060 120-277v

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PHOTOMETRIC DATA

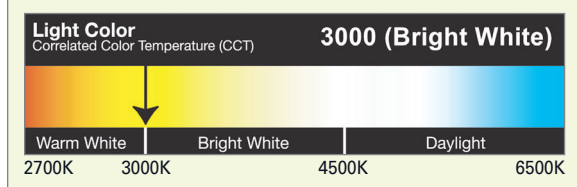
Below is the photometric data information for a 2 x 2 fixture.

Zonal lumen summary

ZONE	LUMENS	% OF FIXTURE
0-30	577	25.6
0-40	958	42.6
0-60	1732	77.0
0-90	2249	100.0
90-120	0	0.0
90-150	1	0.0
90-180	1	0.0
0-180	2250	100.0
TOTAL LUMINAIRE OPTICAL EFFICIENCY = NA		



Light Output (Lumens)	1928
Watts	20.3
Lumens per Watt (Efficacy)	94.98
Color Accuracy Color Rendering Index (CRI)	81



All results are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting*. The U.S. Department of Energy (DOE) verifies product test data and results.

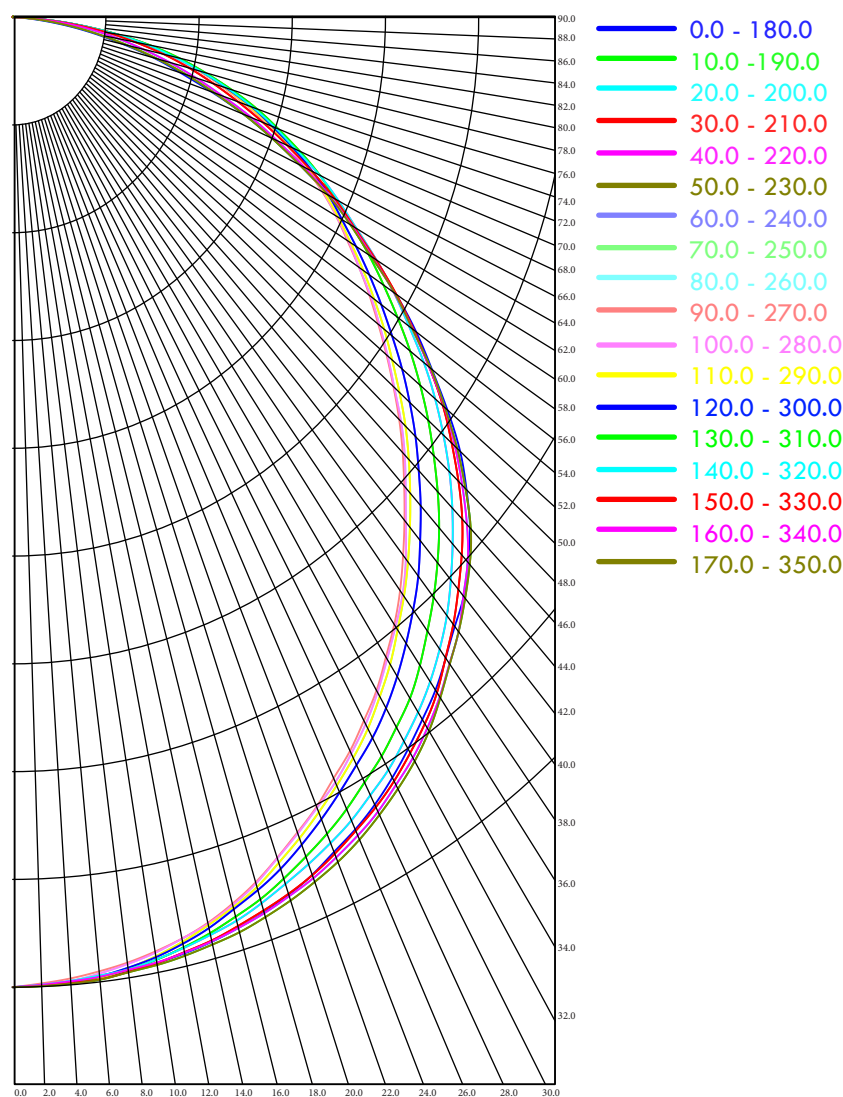
Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: 61VT-4181PO (11/2/2016)

Model Number: FDS22030-02

Type: Luminaire - Troffer/Grid Ceiling

Polar plot



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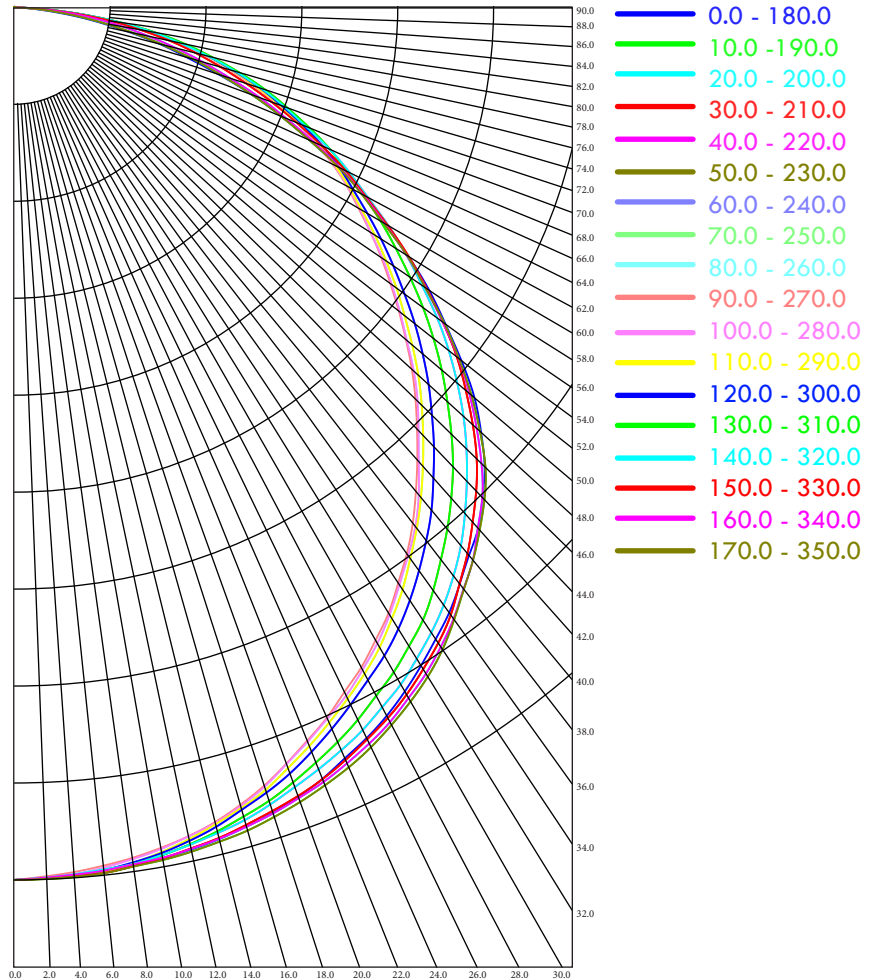
PHOTOMETRIC DATA

Below is the photometric data information for a 2 x 4 fixture.

Zonal lumen summary

ZONE	LUMENS	% OF FIXTURE
0-30	881	25.6
0-40	1462	42.6
0-60	2643	77.0
0-90	3432	100.0
90-120	0	0.0
90-150	1	0.0
90-180	1	0.0
0-180	3433	100.0
TOTAL LUMINAIRE OPTICAL EFFICIENCY = NA		

Polar plot



Light Output (Lumens)	3000
Watts	26.607
Lumens per Watt (Efficacy)	112.75
Color Accuracy Color Rendering Index (CRI)	81
Light Color Correlated Color Temperature (CCT)	
5000 (Daylight)	
	
2700K	3000K
4500K	6500K

All results are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting*. The U.S. Department of Energy (DOE) verifies product test data and results.

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Registration Number: 61VT-GK605C (11/3/2016)

Model Number: FDS43050-02

Type: Luminaire - Troffer/Grid Ceiling

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SCALED PERFORMANCE TABLE

Part #	Dimensions	Initial Light Output (lumens)	Input Power (W)	Luminaire Efficacy (lm/w)	CCT	DLC v4.1 Tier
FDS12030-[blank,E]-02	1x4	2000	18.90	105.82	3000	Standard
FDS12035-[blank,E]-02	1x4	2000	18.60	107.53	3500	Standard
FDS12040-[blank,E]-02	1x4	2000	18.00	111.11	4000	Standard
FDS12050-[blank,E]-02	1x4	2000	18.00	111.11	5000	Standard
FDS12230-[blank,E]-02	1x4	2250	21.60	104.17	3000	Standard
FDS12235-[blank,E]-02	1x4	2250	21.20	106.13	3500	Standard
FDS12240-[blank,E]-02	1x4	2250	20.40	110.29	4000	Standard
FDS12250-[blank,E]-02	1x4	2250	20.40	110.29	5000	Standard
FDS12530-[blank,E]-02	1x4	2500	24.30	102.88	3000	Standard
FDS12535-[blank,E]-02	1x4	2500	23.80	105.04	3500	Standard
FDS12540-[blank,E]-02	1x4	2500	23.00	108.70	4000	Standard
FDS12550-[blank,E]-02	1x4	2500	23.00	108.70	5000	Standard
FDS12730-[blank,E]-02	1x4	2750	27.00	101.85	3000	Standard
FDS12735-[blank,E]-02	1x4	2750	26.60	103.38	3500	Standard
FDS12740-[blank,E]-02	1x4	2750	25.70	107.00	4000	Standard
FDS12750-[blank,E]-02	1x4	2750	25.70	107.00	5000	Standard
FDS13030-[blank,E]-02	1x4	3000	30.00	100.00	3000	Standard
FDS13035-[blank,E]-02	1x4	3000	29.40	102.04	3500	Standard
FDS13040-[blank,E]-02	1x4	3000	28.40	105.63	4000	Standard
FDS13050-[blank,E]-02	1x4	3000	28.40	105.63	5000	Standard
FDS13230-[blank,E]-02	1x4	3250	32.90	98.78	3000	Standard
FDS13235-[blank,E]-02	1x4	3250	32.20	100.93	3500	Standard
FDS13240-[blank,E]-02	1x4	3250	31.10	104.50	4000	Standard
FDS13250-[blank,E]-02	1x4	3250	31.10	104.50	5000	Standard
FDS13530-[blank,E]-02	1x4	3500	35.90	97.49	3000	Standard
FDS13535-[blank,E]-02	1x4	3500	35.20	99.43	3500	Standard
FDS13540-[blank,E]-02	1x4	3500	34.00	102.94	4000	Standard
FDS13550-[blank,E]-02	1x4	3500	34.00	102.94	5000	Standard
FDS22030-[blank,E]-02	2x2	2000	20.30	98.52	3000	Standard
FDS22035-[blank,E]-02	2x2	2000	19.90	100.50	3500	Standard
FDS22040-[blank,E]-02	2x2	2000	19.20	104.17	4000	Standard
FDS22050-[blank,E]-02	2x2	2000	19.20	104.17	5000	Standard
FDS22230-[blank,E]-02	2x2	2250	20.80	108.17	3000	Standard
FDS22235-[blank,E]-02	2x2	2250	23.00	97.83	3500	Standard
FDS22240-[blank,E]-02	2x2	2250	22.20	101.35	4000	Standard
FDS22250-[blank,E]-02	2x2	2250	22.20	101.35	5000	Standard
FDS22530-[blank,E]-02	2x2	2500	23.40	106.84	3000	Standard
FDS22535-[blank,E]-02	2x2	2500	23.00	108.70	3500	Standard

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SCALED PERFORMANCE TABLE

FDS22540-[blank,E]-02	2x2	2500	25.30	98.81	4000	Standard
FDS22550-[blank,E]-02	2x2	2500	25.30	98.81	5000	Standard
FDS22730-[blank,E]-02	2x2	2750	26.10	105.36	3000	Standard
FDS22735-[blank,E]-02	2x2	2750	25.60	107.42	3500	Standard
FDS22740-[blank,E]-02	2x2	2750	24.70	111.34	4000	Standard
FDS22750-[blank,E]-02	2x2	2750	24.70	111.34	5000	Standard
FDS23030-[blank,E]-02	2x2	3000	28.80	104.17	3000	Standard
FDS23035-[blank,E]-02	2x2	3000	28.30	106.01	3500	Standard
FDS23040-[blank,E]-02	2x2	3000	27.30	109.89	4000	Standard
FDS23050-[blank,E]-02	2x2	3000	27.30	109.89	5000	Standard
FDS23230-[blank,E]-02	2x2	3250	31.70	102.52	3000	Standard
FDS23235-[blank,E]-02	2x2	3250	31.10	104.50	3500	Standard
FDS23240-[blank,E]-02	2x2	3250	30.00	108.33	4000	Standard
FDS23250-[blank,E]-02	2x2	3250	30.00	108.33	5000	Standard
FDS23530-[blank,E]-02	2x2	3500	34.60	101.16	3000	Standard
FDS23535-[blank,E]-02	2x2	3500	33.90	103.24	3500	Standard
FDS23540-[blank,E]-02	2x2	3500	32.70	107.03	4000	Standard
FDS23550-[blank,E]-02	2x2	3500	32.70	107.03	5000	Standard
FDS23730-[blank,E]-02	2x2	3750	37.60	99.73	3000	Standard
FDS23735-[blank,E]-02	2x2	3750	36.80	101.90	3500	Standard
FDS23740-[blank,E]-02	2x2	3750	35.50	105.63	4000	Standard
FDS23750-[blank,E]-02	2x2	3750	35.50	105.63	5000	Standard
FDS24030-[blank,E]-02	2x2	4000	40.60	98.52	3000	Standard
FDS24035-[blank,E]-02	2x2	4000	39.80	100.50	3500	Standard
FDS24040-[blank,E]-02	2x2	4000	38.40	104.17	4000	Standard
FDS24050-[blank,E]-02	2x2	4000	38.40	104.17	5000	Standard
FDS43030-[blank,E]-02	2x4	3000	25.80	116.28	3000	Standard
FDS43035-[blank,E]-02	2x4	3000	25.30	118.58	3500	Standard
FDS43040-[blank,E]-02	2x4	3000	24.50	122.45	4000	Premium
FDS43050-[blank,E]-02	2x4	3000	24.50	122.45	5000	Premium
FDS43230-[blank,E]-02	2x4	3250	28.30	114.84	3000	Standard
FDS43235-[blank,E]-02	2x4	3250	27.80	116.91	3500	Standard
FDS43240-[blank,E]-02	2x4	3250	26.80	121.27	4000	Premium
FDS43250-[blank,E]-02	2x4	3250	26.80	121.27	5000	Premium
FDS43530-[blank,E]-02	2x4	3500	30.90	113.27	3000	Standard
FDS43535-[blank,E]-02	2x4	3500	30.30	115.51	3500	Standard
FDS43540-[blank,E]-02	2x4	3500	29.30	119.45	4000	Standard
FDS43550-[blank,E]-02	2x4	3500	29.30	119.45	5000	Standard
FDS43730-[blank,E]-02	2x4	3750	33.50	111.94	3000	Standard
FDS43735-[blank,E]-02	2x4	3750	32.90	113.98	3500	Standard
FDS43740-[blank,E]-02	2x4	3750	31.70	118.30	4000	Standard



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SCALED PERFORMANCE TABLE

FDS43750-[blank,E]-02	2x4	3750	31.70	118.30	5000	Standard
FDS44030-[blank,E]-02	2x4	4000	36.20	110.50	3000	Standard
FDS44035-[blank,E]-02	2x4	4000	35.50	112.68	3500	Standard
FDS44040-[blank,E]-02	2x4	4000	34.30	116.62	4000	Standard
FDS44050-[blank,E]-02	2x4	4000	34.30	116.62	5000	Standard
FDS44230-[blank,E]-02	2x4	4250	39.00	108.97	3000	Standard
FDS44235-[blank,E]-02	2x4	4250	38.20	111.26	3500	Standard
FDS44240-[blank,E]-02	2x4	4250	36.90	115.18	4000	Standard
FDS44250-[blank,E]-02	2x4	4250	36.90	115.18	5000	Standard
FDS44530-[blank,E]-02	2x4	4500	41.80	107.66	3000	Standard
FDS44535-[blank,E]-02	2x4	4500	41.00	109.76	3500	Standard
FDS44540-[blank,E]-02	2x4	4500	39.50	113.92	4000	Standard
FDS44550-[blank,E]-02	2x4	4500	39.50	113.92	5000	Standard
FDS44730-[blank,E]-02	2x4	4750	39.60	119.95	3000	Standard
FDS44735-[blank,E]-02	2x4	4750	39.00	121.79	3500	Premium
FDS44740-[blank,E]-02	2x4	4750	37.70	125.99	4000	Premium
FDS44750-[blank,E]-02	2x4	4750	37.70	125.99	5000	Premium
FDS45030-[blank,E]-02	2x4	5000	42.00	119.05	3000	Standard
FDS45035-[blank,E]-02	2x4	5000	41.30	121.07	3500	Standard
FDS45040-[blank,E]-02	2x4	5000	39.80	125.63	4000	Premium
FDS45050-[blank,E]-02	2x4	5000	39.80	125.63	5000	Premium

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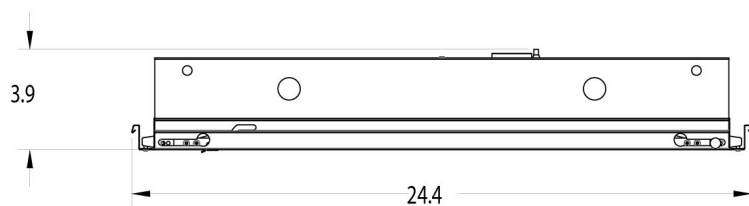
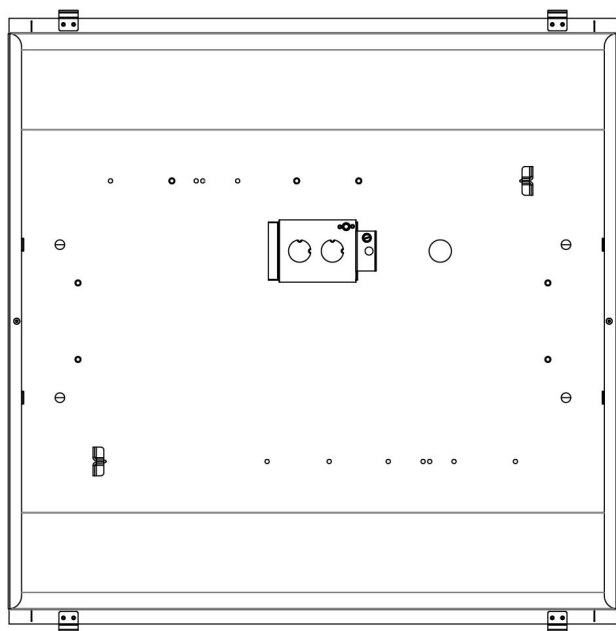
APPLICATION NOTES

Actual performance may vary by up to +/-10% of values listed.
See IES file for actual values.

See DLC QPL for listed models. Model numbers will be listed
under the manufacturer Energy Planning Associates.

FIXTURE DIMENSIONS

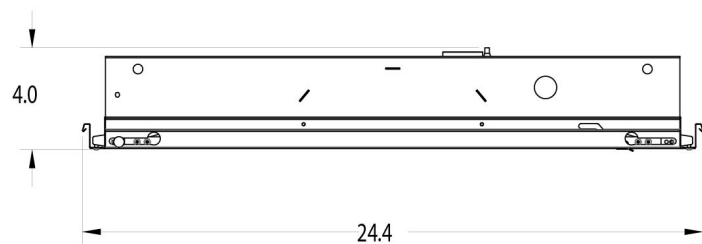
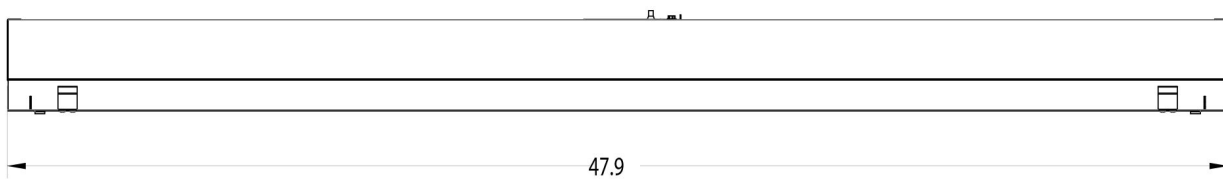
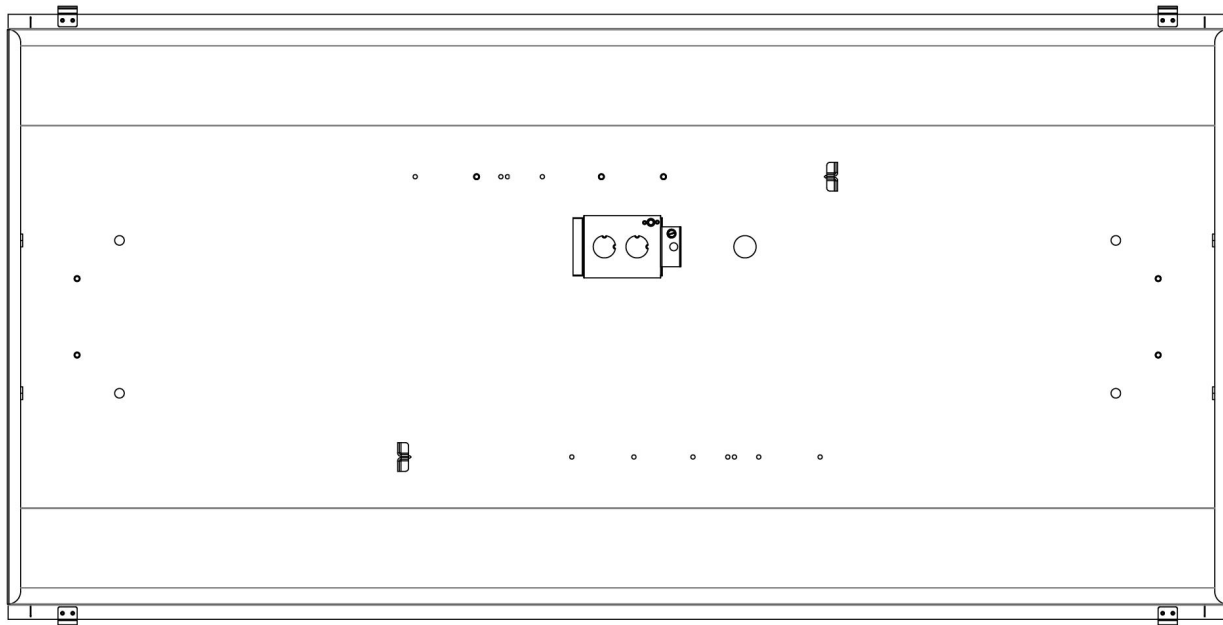
Dimensions for 2x2 fixture



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FIXTURE DIMENSIONS

Dimensions for 2x4 fixture





FDS / LED Troffer

ADDITIONAL PRODUCT IMAGES

Open 2x4 fixture visual

