

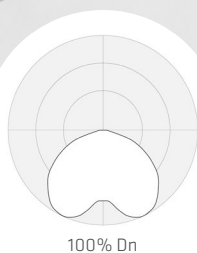
FLUXWERX®

SPECIFICATION DATA
TRANSOM 2x4 (TR1-24)

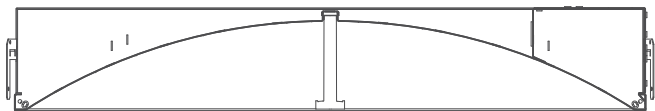
CATALOG

PROJECT

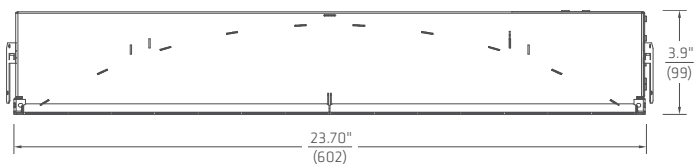
NOTES



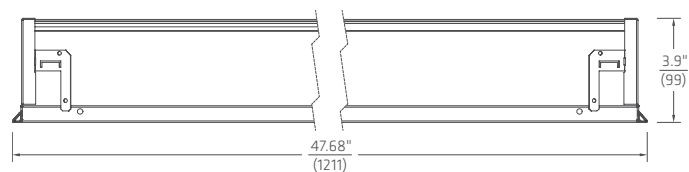
CROSS SECTION



DIMENSIONS



FRONT VIEW



SIDE VIEW

PERFORMANCE SUMMARY

	A	B	C	D
Light (lm)	2750	3300	4300	5000
Energy (W)	23	29	38	47
Efficacy (lm/W)	119	117	112	109
Color Rendering (CRI)	80+			
Color Accuracy (SDCM)	< 2			
L70 Estimate (h)	200,000			
Lumen Maintenance per TM21 (@ 60,000 h)	L90			

Summary values are nominal and based on 4000K CCT.
DLC qualified for 29W (B), 38W (C) and 47W (D) in 3000K, 3500K and 4000K.

FEATURES

- Luminous, transparent vertical lens is framed by a clear anodized aluminum rail.
- Innovative Anidolic optics produce a visually comfortable, controlled optical distribution.
- Priced for a wide range of real-world projects.
- Available in three sizes – 2x2, 1x4 & 2x4 – to suit a variety of applications and spaces.
- Up to 10' x 10' spacing, capable of delivering close to 40 fc at less than 0.4 W/ft².
- Suitable for both T-Grid and drywall ceilings, using optional Trim or Trimless flange kits.



SPECIFICATION DATA

TRANSOM 2x4 (TR1-24)

ORDER GUIDE

1	2	3	4	5	6	OPTIONS	CONTROLS
TR1	24						

1 FAMILY	2 SIZE	3 ENERGY ²	4 CCT	5 DRIVER
TR1 Transom	14 1 x 4	A 23 W	30 3000 K	F1 Non-Dim
	22 2 x 2	B 29 W	35 3500 K	F2 0-10 V Dim 3%
	▶24 2 x 4	C 38 W	40 4000 K	E1 eidoLED ECO 0-10 V Dim 1%
	52 20" x 24"	D 47 W ³		E2 eidoLED SOLO 0-10 V Dim 0.1%
	54 20" x 48" ¹			E3 eidoLED ECO DALI Dim 1%
				E4 eidoLED SOLO DALI Dim 0.1%
				L1 Lutron Hi-Lume 1% EcoSystem (LDE1)
	¹ Optional filler panels available for 20 x 60.	² Nominal input power. Add 4 W for 347 V with E1-4/L1. ³ 1 x 4 2 x 4 20 x 48 only.		

6 VOLTAGE	OPTIONS ⁵	CONTROLS
M 120-277 V	B Battery Pack	RE1 Remote Enlighted Smart Sensor
3 347 V ⁴	C Chicago Plenum	VN1 Acuity nLight Converter
	F 6' Flex Whip	
	H Emergency Switching (GTD or Controller)	
	K1 Drywall Flange Kit - Trim	
	K2 Drywall Flange Kit - Trimless	
⁴ 347 V Driver for F1/F2, 347 V Transformer & Driver for E1-4/L1.	⁵ BP & GTD available for 120-277 V.	

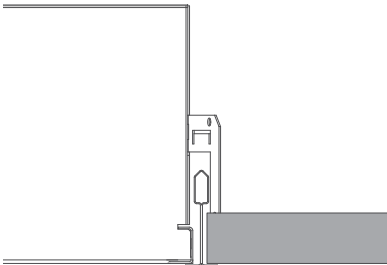
PRODUCT DETAILS



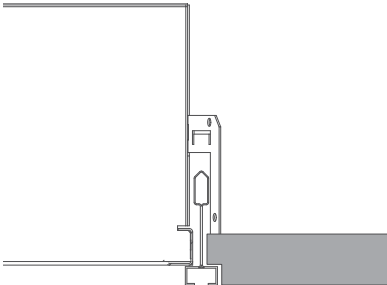
LINEAR ANIDOLIC OPTIC

CEILING INTEGRATION

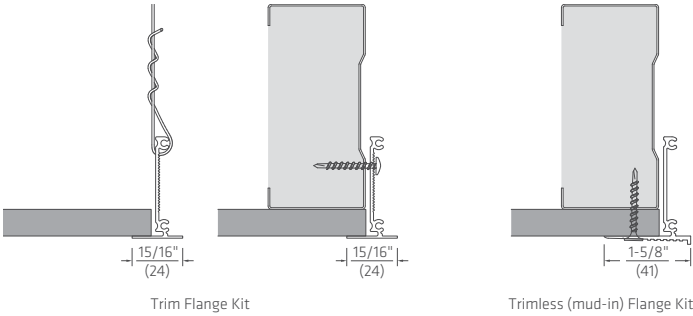
FLAT GRID



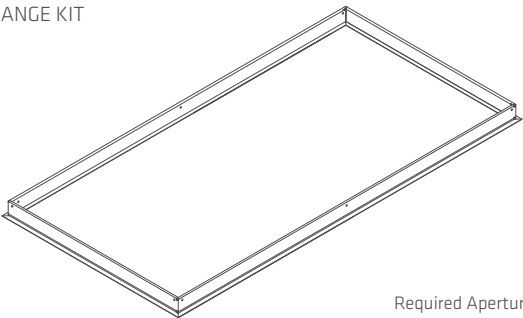
SLOT GRID



DRYWALL



DRYWALL FLANGE KIT



Required Aperture: $\frac{24.5'' \times 48.5''}{(622 \times 1232)}$

SPECIFICATION DATA
TRANSOM 2x4 (TR1-24)

NOTES

CONSTRUCTION

- Clear anodized aluminum lower rail
- Formed 22 ga. steel housing
- Quick wire access plate and integral seismic restraint tabs/tie-offs
- Optional drywall trim or trimless (mud-in) flange kits
- High reflectance diffuse white textured powdercoat

OPTICAL

- Anidolic optical structures with linear light extraction elements
- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance \geq L90 @ 60,000 h
- Available in CCTs 3000 K, 3500 K or 4000 K with CRI \geq 80 and R9 \geq 0, all with color accurate binning \leq 2 SDCM

ELECTRICAL

- Integral high efficiency drivers for 50–60 Hz, 120–277 V or 347 V
- Power Factor > 0.90
- Total Harmonic Distortion $< 20\%$
- Dim level: Standard 3%, optional 1% or 0.1%
- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. Use 12 W input energy to estimate emergency flux, typically 1150–1750 lm (@100–150 lm/W).
- Optional GTD (Generator Transfer Switch), 120–277 V, disables 0–10 V control during emergency for full light output
- Optional flex whip: 6' prewired
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0–30° C (32–86° F)
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas. The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

- Maximum 27 lbs (12.3 kg) with standard driver
- Maximum 31 lbs (14.1 kg) with battery pack or 347 V transformer

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED @ 9,000 or 10,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- IC Rated
- Lighting Facts®
- DesignLights Consortium®
Most options DLC qualified, please check catalog number in the QPL list (www.designlights.org/QPL)

CONTROLS & SENSORS

Fluxwerx products are designed for simple integration with a wide range of sensors, lighting controls and building management systems. Many projects incorporate occupancy sensing, daylight harvesting, individual or central adjustment of light levels and luminaire or space monitoring in order to save energy, reduce costs and maximize occupant comfort. Fluxwerx offers a number of standard driver and controller options to support various wired and wireless network protocols.

enlighted™

Enlighted wireless, networked smart sensor integrates occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Option: Remote Enlighted sensor (RE1), Model: SU-5E-CL

nLIGHT

nLight wired, 2-way network supports luminaire light level control as well as occupancy and daylight sensors. Option: Acuity nLight Converter (VN1), Model: nPS-80-EZ or nPS-80-EZ-ER

eldoLED®

EldoLED drivers support common wired protocols, 0–10 V and DALI. They also provide access to finer dimming control, dynamic white and Bluetooth low-energy (BLE) wireless. Options: ECO 1% (E1), SOLO 0.1% (E2)

LUTRON®

Lutron EcoSystem network protocol enables on/off, dimming, occupancy sensing and daylight harvesting. Option: Hi-Lume 1% EcoSystem (L1), Model: LDE1

legrand® Wattstopper® Pass & Seymour

LEVITON® EATON® DISTECH CONTROLS™

CRESTRON®

SPECIFICATION DATA

TRANSOM 2x4 (TR1-24)

PERFORMANCE DATA

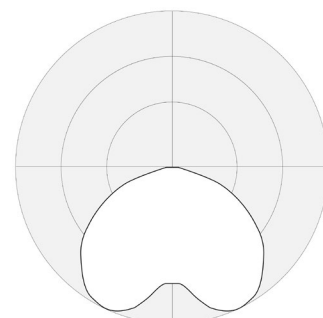
A 23 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION TR1-14A40	4000 K	2744	23.16	118.5	83.2	8.9	< 2
	3500 K	2692	23.16	116.2	83.2	8.9	
REPORT FLUXWERX	3000 K	2640	23.16	114	82.5	6.4	

B 29 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION TR1-14B40	4000 K	3323	28.52	116.5	83.1	10.7	< 2
	3500 K	3260	28.52	114.3	83.1	10.7	
REPORT FLUXWERX	3000 K	3172	28.48	111.4	82.5	6.1	

C 38 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION TR1-14C40	4000 K	4301	38.37	112.1	83.1	10.7	< 2
	3500 K	4220	38.37	110	83.1	10.7	
REPORT 11361637.25	3000 K	4139	38.37	107.9	82.2	5.2	


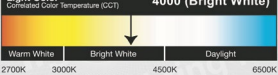
D 47 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION TR1-14D40	4000 K	5001	46.01	108.7	83.4	10.7	< 2
	3500 K	4907	46.01	106.6	83.4	10.7	
REPORT 11555052.16	3000 K	4812	46.33	103.9	82.2	5.2	

Integrating Sphere and Photometric results at 4000K, 3500K and 3000K scaled from TR1-24 47W (D) and TR1-14 results from an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Candlepower Distribution scaled per total lumens of Integrating Sphere results.



100% Dn
Transom Recessed
TR1-24
4000 K

TR1-24D40

	
Light Output (Lumens)	5001
Watts	46.01
Lumens per Watt (Efficacy)	108.69
Color Accuracy Color Rendering Index (CRI)	83
Light Color Correlated Color Temperature (CCT)	4000 (Bright White)
	
<small>All results are according to IESNA LM-79-2008. Approval Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small>	
<small>Visit www.lightingfacts.com for the Label Reference Guide.</small>	
<small>Registration Number: XA4K-4087Y (3/1/2017)</small>	
<small>Model Number: TR1-24D40P1F2B1 (Rev2017)</small>	
<small>Type: Luminaire - Troffer/Grill Ceiling</small>	