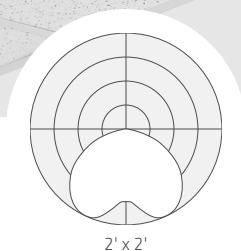


FLUXWERX®

SPECIFICATION DATA TRANSOM (TR1)



2' x 2' | 20" x 2'



2' x 2'



1' x 4'



2' x 4'

CATALOG

PROJECT

NOTES

PERFORMANCE FOCUS

2x2, 80 CRI 4000K (TR122x40)

	Energy (W)	Light (lm)	Efficacy (lm/W)
A	22 W	2600	120
B	27 W	3200	119
C	34 W	3900	120
D	43 W	4900	114

Color Matching (SDCM)	Lumen Maintenance (hr)	
	L90 per TM21	L70 Estimate
< 2	> 60,000	> 200,000

Nominal values, refer to back pages for full performance data.

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 five sizes – 2x2, 1x4, 2x4, 20" x 2 and 20" x 4 – 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.

Declare.



ORDER GUIDE

1	2	3	4	5	6	OPTIONS	CONTROLS
TR1							

1	FAMILY	2	SIZE	3	ENERGY ²	4	CRI-CCT	5	DRIVER
TR1	Transom	14	1' x 4'	A	22 W	30	80 CRI 3000 K	F1	Non-Dim
		22	2' x 2'	B	27 W	35	80 CRI 3500 K	F2	0-10 V Dim 3%
		24	2' x 4'	C	34 W	40	80 CRI 4000 K	F4	Line Voltage Dim (Fwd/Rev) 3% 120 V
		52	20" x 2'	D	43 W	93	90 CRI 3000 K	E1	eldoLED ECO 0-10 V Dim 1%
		54	20" x 4' ¹			90	90 CRI 3500 K	E2	eldoLED SOLO 0-10 V Dim 0.1%
						94	90 CRI 4000 K	E3	eldoLED ECO DALI-2 DT6 Dim 1%
								E4	eldoLED SOLO DALI-2 DT6 Dim 0.1%
								L1	Lutron Hi-Lume 1% EcoSystem (LDE1)

¹ Optional filler panels available for 20" x 60" grid ceiling.

² Nominal input power. Add 4 W for Battery Pack or 347 V

6	VOLTAGE	OPTIONS	CONTROLS
M	120-277 V	B Battery Pack ⁵	TYPE & LOCATION ⁸
1	120 V ³	C Chicago CCEA	R Remote Sensor / Controller on Ceiling V Controller on Enclosure / Plenum Side
2	277 V ³	F 6' Flex Whip	
3	347 V ⁴	H Emergency Switching ^{5,6} (GTD or Controller)	
		K1 Drywall Flange Kit - Trim ⁷	
		K2 Drywall Flange Kit - Trimless ⁷	BRAND & PROTOCOL ⁸
			N1 Acuity nLight Wired ⁹ N2 Acuity nLight Air r10 ⁹ N3 Acuity nLight Air RPP20 ⁹ E1 Enlighted Smart Sensor ¹⁰ L1 Lutron Athena Wireless M1 LeGrand Encelium X / SensiLum V1 Leviton Intellect Wireless

³ Fixed voltage only for (F4) Line Dim Driver or nLight controls.

⁴ 347V transformer.

⁵ BP & GTD available for 120-277V.

⁶ GTD not compatible with (F4) Line Dim driver.

⁷ No Drywall flange kit for 20" width - grid only.

⁸ Controls selection may be limited by version, protocol or other features - see Controls page.

⁹ nLight: Controller (V) only.

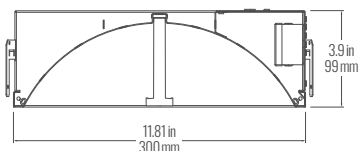
¹⁰ Enlighted: Sensor/Controller (R) only.

LINEAR ANIDOLIC OPTIC

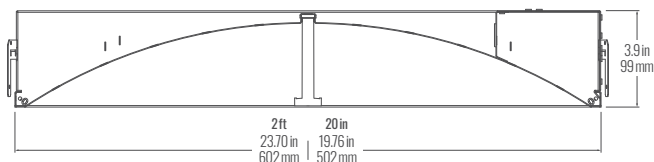


CROSS SECTION

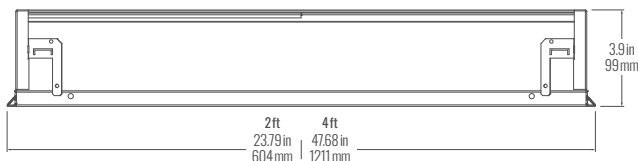
1' x 4'



2' x 2' | 2' x 4' | 20" x 2' | 20" x 4'



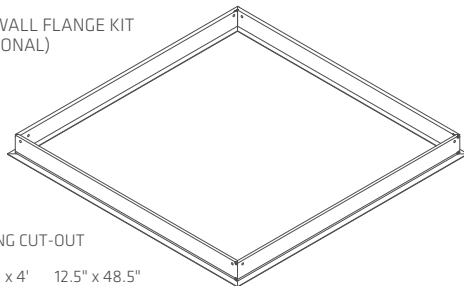
SIDE VIEW



CEILING INTEGRATION

DRYWALL

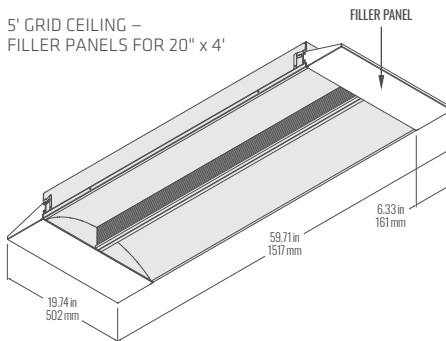
DRYWALL FLANGE KIT (OPTIONAL)



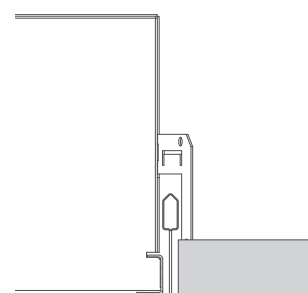
CEILING CUT-OUT

- (14) 1' x 4' 12.5" x 48.5" (318 x 1232 mm)
- (22) 2' x 2' 24.5" x 24.5" (622 x 622 mm)
- (24) 2' x 4' 24.5" x 48.5" (622 x 1232 mm)

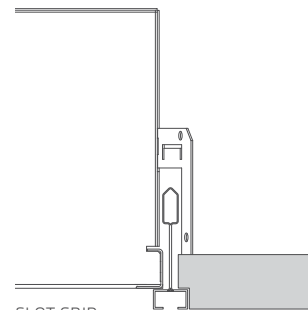
5" GRID CEILING – FILLER PANELS FOR 20" x 4'



GRID

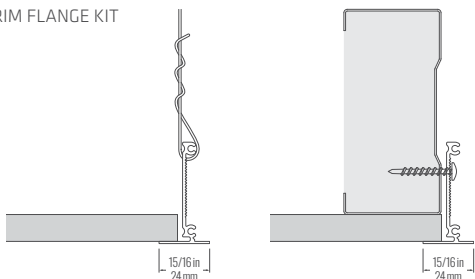


FLAT GRID

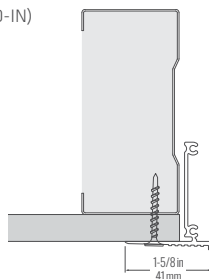


SLOT GRID

TRIM FLANGE KIT

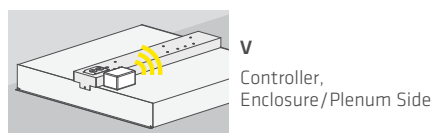
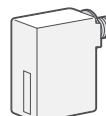
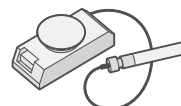
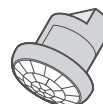


TRIMLESS (MUD-IN) FLANGE KIT



CONTROLS & SENSORS

LUMINAIRE INTEGRATION

(N1) Acuity
nLight WirednLight wired, digital network.
Model: nPS-80-EZ or nPS-80-EZ-ER
(with H - Emergency Switching)**VN1** nLight Wired Controller, Enclosure/Plenum Side(N2, N3) Acuity
nLight AirAcuity nLight wireless network interfaces.
Models: rI0, rPP20**VN2** nLight rI0 Controller, Enclosure/Plenum Side
VN3 nLight rPP20 Controller, Enclosure/Plenum Side(E1) Siemens
EnlightedSiemens Enlighted wireless smart
sensor-controllers.
Model: SU-5E-CL**RE1** Enlighted Smart Sensor, Remote/on Ceiling(L1) Lutron
AthenaLutron Athena wireless smart controllers
& sensors.

Models: A-WN-D01-RF, A-WN-D01-OCC

For YL1 and SL1:
Default Athena color to match fixture/canopy color

Canopy Athena

WH WH

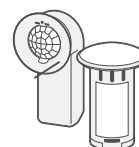
SV BK

BK BK

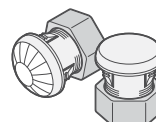
For VL1 and RL1: default WH

**VL1** Athena Controller, Enclosure/Plenum Side**RL1** Athena Sensor, Remote/on Ceiling(M1) Legrand
Encelium XEncelium X wireless smart controllers
& sensors.

Models: ZBHA-CLM, EN-CLM-PIR

**VM1** X Control Module, Enclosure/Plenum Side**RM1** SensiLUM Sensor, Remote/on Ceiling(V1) Leviton
IntellectLeviton Intellect wireless smart controllers
& sensors.

Models: ZL0x0, ZL0x5

**VV1** Intellect Controller, Enclosure/Plenum Side**RV1** Intellect Sensor, Remote/on Ceiling

Ask us about...

Wattstopper®

Pass & Seymour®

EATON

DISTECH
CONTROLS

CRESTRON

CASAMBI

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Due to continuous product improvements, specifications and dimensions are subject to change without notice.

Certain options have limited compatibility with some other product selections. Consult www.fluxwerx.com for most current technical information.

SPECIFICATION DATA

TRANSOM (TR1)

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 3000K, 3500K, 4000K with CRI \geq 80 and R9 \geq 0, or CRI \geq 90 and R9 \geq 50, all with color accurate binning \leq 2 SDCM

ELECTRICAL

- Integral high efficiency drivers for 50–60 Hz, 120–277 V and transformer for 347 V
- Power Factor $>$ 0.90
- Total Harmonic Distortion $<$ 20%
- Dim level: Standard 3%, optional 1% or 0.1%
- Optional flex whip: 6' prewired
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

EMERGENCY

- 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

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0–30° C (32–86° F)
- 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.
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

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

MAX WEIGHT






	120-277 V NO OPTIONS	EMERGENCY OR 347 V
2' x 2'	14 lbs (6.4 kg)	18 lbs (8.2 kg)
1' x 4'	18 lbs (8.2 kg)	22 lbs (10.0 kg)
2' x 4'	27 lbs (12.3 kg)	31 lbs (14.1 kg)
20" x 2'	12 lbs (5.5 kg)	16 lbs (7.3 kg)
20" x 4'	23 lbs (10.5 kg)	27 lbs (12.3 kg)



APPROVALS

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

Protected by one or more US patents: 10215344, 10830415, 9733411, 9823406, D698973;
EU patents: 002260752-0001, 002260752-0002, 002260752-0003.

DRIVERS + EMERGENCY

STANDARD DRIVER OPTIONS	
  	F1 Non-Dim F2 0–10 V Dim 3% F4 Line Voltage Dim 3% (Forward/Reverse) 120 V
	E1 eldoLED ECO 0–10 V Dim 1% E2 eldoLED SOLO 0–10 V Dim 0.1% E3 eldoLED ECO DALI-2 DT6 Dim 1% E4 eldoLED SOLO DALI-2 DT6 Dim 0.1%
	L1 Lutron Hi-Lume 1% EcoSystem (LDE1)

EMERGENCY OPTIONS	
 	B Battery Pack Bodine BSL310 (10 W) H Emergency Switching Functional Devices ESRB Emergency Lighting Relay

Driver and emergency selection may be limited by product or version.
For further options, contact Fluxwerx.

FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	82	82	82
Red Index (R9)	2	1	1
Fidelity (TM-30 R _f)	84	85	85
Gamut (TM-30 R _g)	97	96	96
Color Matching (SDCM)	< 2		

90 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	94	94	94
Red Index (R9)	77	76	76
Fidelity (TM-30 R _f)	90	91	91
Gamut (TM-30 R _g)	99	98	98
Color Matching (SDCM)	< 2		

Typical colorimetry values.

LUMEN MAINTENANCE

	A 22 W	B 27 W	C 34 W	D 43 W
L90 per TM-21 (hr)	> 60,000			
L70 Estimate (hr)	> 200,000			

OUTPUT MULTIPLIERS

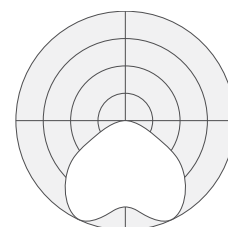
MULTIPLIER		Applies To
90 CRI	0.84	All 80 CRI
Battery Pack	0.55	Energy A (22 W)

For 90 CRI or emergency BP, use multipliers to scale published Light (lm), Efficacy (lm/W), Intensity (Cd), Luminance (Cd/m²) and IES files.

VERSION PERFORMANCE

TR114 - 1' x 4', 80 CRI

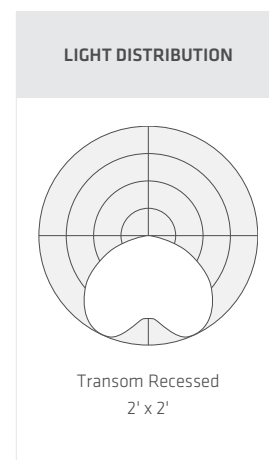
CONFIGURATION			LIGHT & POWER				VISUAL COMFORT			LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m ²)	UGR (4H x 8H)	
TR114x40 4000 K	A	22 W	2605	21.40	120.5	900	724	3,070	21	
	B	27 W	3236	26.71	119.9	1,118	899	3,810	21.8	
	C	34 W	4022	32.60	120.0	1,390	>1,000	4,740	22.5	
	D	43 W	4981	42.57	117.0	1,721	>1,000	5,870	23.3	
TR114x35 3500 K	A	22 W	2517	21.40	116.4	870	699	2,960	20.9	
	B	27 W	3126	26.71	115.8	1,080	868	3,680	21.7	
	C	34 W	3886	32.60	115.9	1,342	>1,000	4,580	22.4	
	D	43 W	4812	42.57	113.0	1,663	>1,000	5,670	23.2	
TR114x30 3000 K	A	22 W	2428	21.14	113.7	839	675	2,860	20.8	
	B	27 W	3016	26.39	113.1	1,042	838	3,550	21.5	
	C	34 W	3749	32.20	113.2	1,295	>1,000	4,420	22.3	
	D	43 W	4643	42.06	110.4	1,604	>1,000	5,470	23	



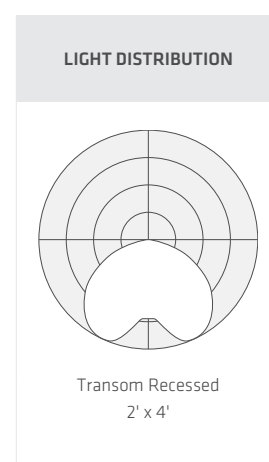
Transom Recessed
1' x 4'

VERSION PERFORMANCE
TR122 | 52 - 2'x2' | 20"x2', 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)
TR122x40 4000 K	A	22 W	2598	21.70	119.7	819	700	3,030	20.4
	B	27 W	3224	27.09	119.0	1,016	869	3,770	21.2
	C	34 W	3961	33.06	119.8	1,249	>1,000	4,630	21.9
	D	43 W	4938	43.18	114.4	1,557	>1,000	5,770	22.6
TR122x35 3500 K	A	22 W	2496	21.70	115.0	787	673	2,920	20.3
	B	27 W	3098	27.09	114.3	977	835	3,620	21
	C	34 W	3806	33.06	115.1	1,200	>1,000	4,440	21.7
	D	43 W	4745	43.18	109.9	1,496	>1,000	5,540	22.5
TR122x30 3000 K	A	22 W	2395	21.50	111.4	755	645	2,800	20.1
	B	27 W	2972	26.84	110.7	937	801	3,470	20.9
	C	34 W	3651	32.76	111.5	1,151	984	4,260	21.6
	D	43 W	4552	42.78	106.4	1,435	>1,000	5,320	22.4


TR124 | 54 - 2'x4' | 20"x4', 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)
TR124x40 4000 K	A	43 W	2612	21.55	121.2	833	691	1,450	18.5
	B	27 W	3247	26.88	120.8	1,035	859	1,800	19.3
	C	34 W	4083	33.97	120.2	1,302	>1,000	2,260	20.1
	D	43 W	5027	42.57	118.1	1,602	>1,000	2,780	20.8
TR124x35 3500 K	A	43 W	2577	21.55	119.6	822	682	1,430	18.5
	B	27 W	3204	26.88	119.2	1,021	847	1,770	19.3
	C	34 W	4029	33.97	118.6	1,284	>1,000	2,230	20
	D	43 W	4960	42.57	116.5	1,581	>1,000	2,750	20.8
TR124x30 3000 K	A	43 W	2542	21.30	119.4	810	672	1,410	18.4
	B	27 W	3160	26.57	119.0	1,007	836	1,750	19.2
	C	34 W	3974	33.57	118.4	1,267	>1,000	2,200	20
	D	43 W	4893	42.07	116.3	1,560	>1,000	2,710	20.7


Photometry Reports: 14538129.01 - 15

Photometry baseline established with integrating sphere and goniophotometer results from an independent accredited testing laboratory per IES LM-79, ANSI C78.377. Remaining values scaled from baseline data per IES LM-63. Output and power may vary by up to 5%.