

FLUXWERX®

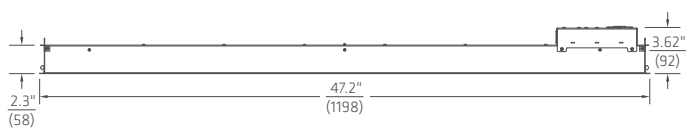


100% Dn

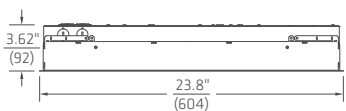
CROSS SECTION



DIMENSIONS



SIDE VIEW



FRONT VIEW

SPECIFICATION DATA
LOOP RECESSED 2x4 (LR1-24)

CATALOG

PROJECT

NOTES

PERFORMANCE SUMMARY

	A	B	C	D
Light (lm)	2702	3226	3875	5115
Energy (W)	19	23	29	38
Efficacy (lm/W)	147	139	136	138
Color Rendering (CRI)	80+			
Color Accuracy (SDCM)	< 2			
L70 Estimate (h)	200,000			
Lumen Maintenance per TM21 (@ 54,000 h)	L90			

Summary values are nominal and based on 4000K CCT.

FEATURES

- Fluxwerx radial Anidolic optics provide a precisely controlled 360° symmetrical batwing distribution with no view of the LED point source.
- Complete family of recessed configurations for a multitude of applications and spaces: 1x1, 1x2, 1x4, 2x2, 2x4, plus 6"x1, 6"x1.5, 6"x2 and 6"x4.
- Companion Loop Suspended family allows for an aesthetically connected design language.
- Suitable for T-Bar or Drywall ceilings with a Trim or Trimless Flange. 6" wide versions are compatible with TechZone™ and USG Logix™ ceiling systems.
- The light distribution and high efficacies combine to allow wide fixture spacing with ample general illumination at energy densities less than 0.4 W/ft².



SPECIFICATION DATA

LOOP RECESSED 2x4 (LR1-24)

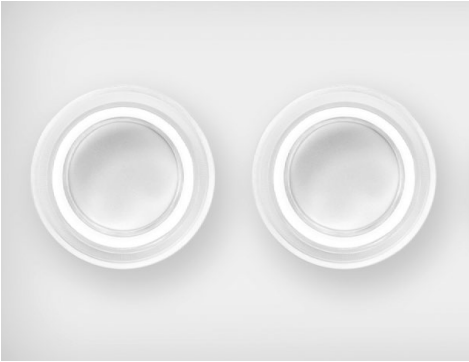
ORDER GUIDE

1	2	3	4	5	6	OPTIONS	CONTROLS
LR1	24						

1	FAMILY	2	SIZE	3	ENERGY ¹	4	CCT	5	DRIVER		
LR1	Loop Recessed	61	6" x 1' (2 loop)	A	9.5 W	30	3000 K	F1	Non-Dim		
		65	6" x 1.5' (3 loop)	A	12 W			35	3500 K	F2	0-10 V Dim 3%
				B	15 W			40	4000 K	E1	eldoLED ECO 0-10 V Dim 1%
		11	1' x 1'	A	12 W					E2	eldoLED SOLO 0-10 V Dim 0.1%
		62	6" x 2'	B	15 W					E3	eldoLED ECO DALI Dim 1%
		12	1' x 2'	C	19 W					E4	eldoLED SOLO DALI Dim 0.1%
		22	2' x 2'	A	19 W					L1	Lutron Hi-Lume 1% EcoSystem (LDE1)
		64	6" x 4'	B	23 W						
		14	1' x 4'	C	29 W						
		▶24	2' x 4'	D	38 W						
		¹ Nominal input power. Add 4 W for 347 V with E1-4/L1.									

6 VOLTAGE	OPTIONS ³	CONTROLS
M 120-277 V 3 347 V ²	B Battery Pack C Chicago Plenum F 6' Flex Whip H Emergency Switching (GTD or Controller) K1 Drywall Flange Kit - Trim K2 Drywall Flange Kit - Trimless	RE1 Remote Enlighted Smart Sensor VN1 Acuity nLight Converter
² 347 V Driver for F1/F2, 347 V Transformer & Driver for E1-4/L1.	³ BP & GTD available for 120-277 V.	

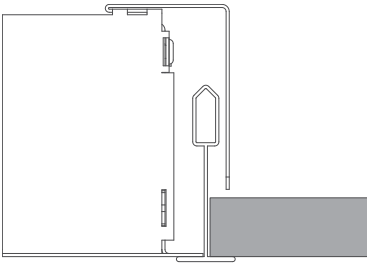
PRODUCT DETAILS



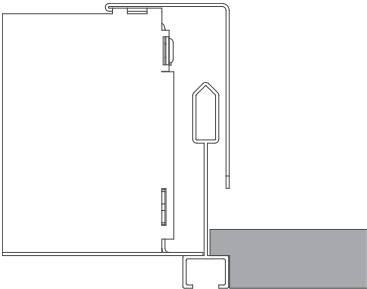
RADIAL ANIDOLIC OPTIC

CEILING INTEGRATION

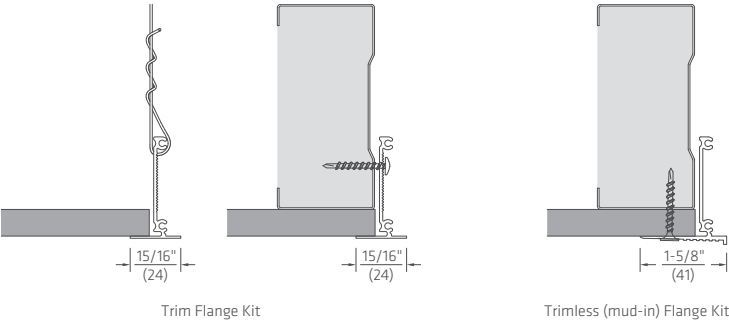
FLAT GRID



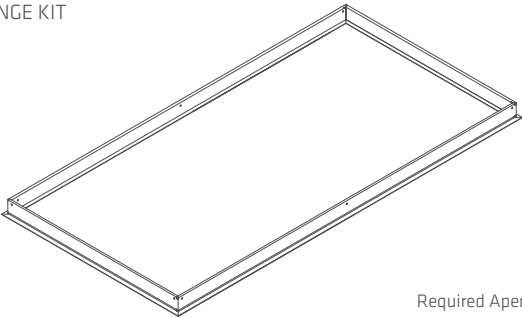
SLOT GRID



DRYWALL



DRYWALL FLANGE KIT



Required Aperture: 24.5" x 48.5"
 (622 x 1232)

SPECIFICATION DATA
LOOP RECESSED 2x4 (LR1-24)

NOTES

CONSTRUCTION

- 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

- Radial Anidolic optical structures with detailed light extraction elements for 360° symmetric batwing distribution
- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance \geq L90 @ 54,000 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 31 lb (14.1 kg) with standard driver
- Maximum 35 lb (15.9 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

LOOP RECESSED 2x4 (LR1-24)

PERFORMANCE DATA

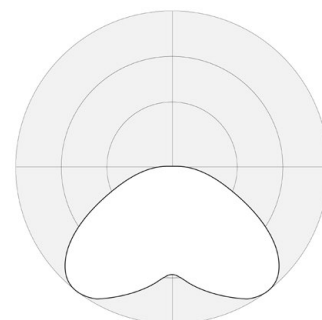
A 19 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION LR1-24A40	4000 K	2702	18.38	147	83.3	8.4	< 2
	3500 K	2658	18.39	144.6	83.3	8.4	
REPORT FLUXWERX	3000 K	2613	18.13	144.1	82.9	6	

B 23 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION LR1-24B40	4000 K	3226	23.16	139.3	83.4	8.5	< 2
	3500 K	3247	23.16	140.2	83.4	8.5	
REPORT FLUXWERX	3000 K	3269	23.16	141.1	83.4	8.5	

C 29 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION LR1-24C40	4000 K	3875	28.41	136.4	83.4	8.4	< 2
	3500 K	3901	28.41	137.3	83.4	8.4	
REPORT FLUXWERX	3000 K	3927	28.41	138.2	83.4	8.4	

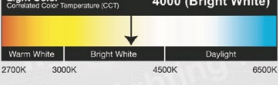
D 38 W	CCT	LIGHT (lm)	ENERGY (W)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION LR1-24D40	4000 K	5115	36.91	138.6	83.2	7.9	< 2
	3500 K	5149	36.91	139.5	83.2	7.9	
REPORT FLUXWERX	3000 K	5183	38.33	135.2	82.6	5.1	

Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results at 47W (D). Candelpower Distribution scaled per total lumens of Integrating Sphere results.

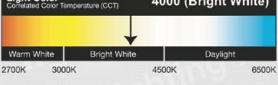


100% Dn
Loop Recessed
2' x 4'
4000 K

LR1-24A40

LED lighting facts	
Light Output (Lumens)	2702
Watts	18.38
Lumens per Watt (Efficacy)	147.01
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. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.</small>	
<small>Visit www.lightingfacts.com for the Label Reference Guide.</small>	
<small>Registration Number: XA4K-HU2350 (6/12/2018)</small>	
<small>Model Number: LR124A40/19/21/40/35/40/35/40/35/40</small>	
<small>Type: Luminaires - Traffic/Exit Ceiling</small>	

LR1-24D40

LED lighting facts	
Light Output (Lumens)	5115
Watts	36.91
Lumens per Watt (Efficacy)	138.58
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. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.</small>	
<small>Visit www.lightingfacts.com for the Label Reference Guide.</small>	
<small>Registration Number: XA4K-BSPV45 (6/12/2018)</small>	
<small>Model Number: LR124D40/19/21/40/35/40/35/40/35/40</small>	
<small>Type: Luminaires - Traffic/Exit Ceiling</small>	