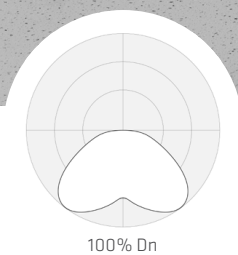
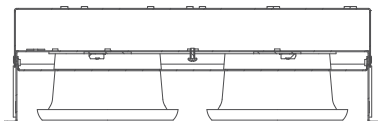


# FLUXWERX®

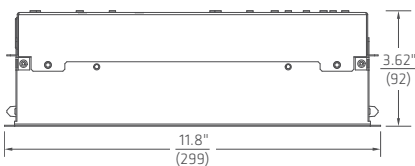
## SPECIFICATION DATA LOOP RECESSED 1x1 (LR111)



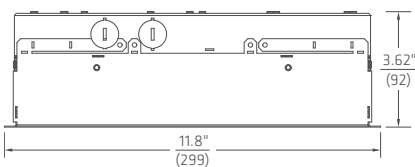
### CROSS SECTION



### DIMENSIONS



SIDE VIEW



FRONT VIEW

### CATALOG #

### PROJECT

### NOTES

### PERFORMANCE FOCUS

#### 80 CRI 4000 K (LR111x40)

	Energy (W)	Light (lm)	Efficacy (lm/W)
A	12 W	1450	130
B	15 W	1800	128
C	19 W	2300	122

Color Matching (SDCM)	Lumen Maintenance (hr)	
	L90 per TM21	L70 Estimate
< 2	> 54,000	> 200,000

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

### 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, 1x4, 2x2, 2x4, plus 6"×2 and 6"×4.
- 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/ft<sup>2</sup>.



SPECIFICATION DATA  
**LOOP RECESSED 1x1 (LR111)**

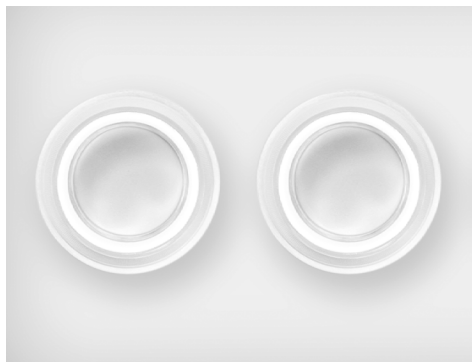
**ORDER GUIDE**

1	2	3	4	5	6	OPTIONS	CONTROLS
<b>LR1</b>	<b>11</b>						

1 FAMILY	2 SIZE	3 ENERGY <sup>1</sup>	4 CRI-CCT	5 DRIVER
<b>LR1</b> Loop Recessed	<b>▶ 11</b> 1' x 1'	<b>A</b> 12 W	<b>30</b> 80 CRI 3000 K	<b>F1</b> Non-Dim <b>F2</b> 0-10 V Dim 3% <b>E1</b> eldoLED ECO 0-10 V Dim 1% <b>E2</b> eldoLED SOLO 0-10 V Dim 0.1% <b>E3</b> eldoLED ECO DALI Dim 1% <b>E4</b> eldoLED SOLO DALI Dim 0.1% <b>L1</b> Lutron Hi-Lume 1% EcoSystem (LDE1) <b>L2</b> Lutron Hi-Lume 1% 2-Wire 120 V (LTEA)
	<b>62</b> 6" x 2'	<b>B</b> 15 W	<b>35</b> 80 CRI 3500 K	
		<b>C</b> 19 W	<b>40</b> 80 CRI 4000 K	
	<b>22</b> 2' x 2'	<b>A</b> 19 W	<b>93</b> 90 CRI 3000 K	
	<b>64</b> 6" x 4'	<b>B</b> 23 W	<b>90</b> 90 CRI 3500 K	
	<b>14</b> 1' x 4'	<b>C</b> 29 W	<b>94</b> 90 CRI 4000 K	
<b>24</b> 2' x 4'	<b>D</b> 38 W			
		<sup>1</sup> Nominal input power. Add 4 W for 347 V with E1-4/L1.		

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

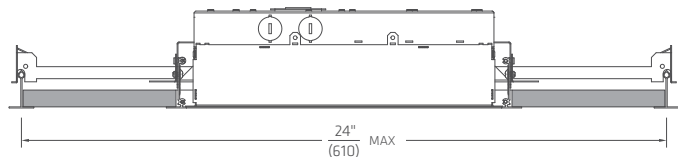
**PRODUCT DETAILS**



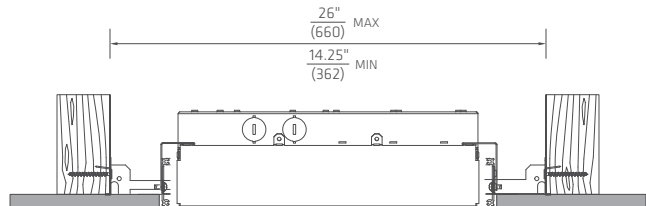
RADIAL ANIDOLIC OPTIC

**CEILING INTEGRATION**

GRID

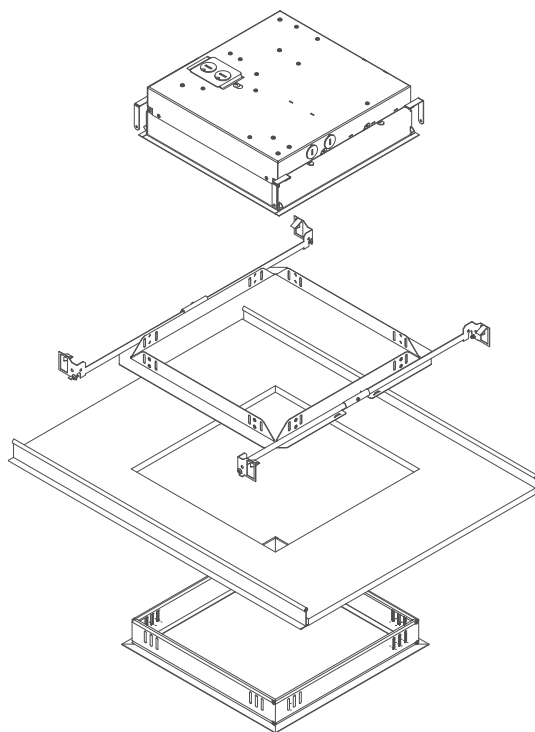


DRYWALL



Trim or Trimless (mud-in) Flange Kit

GRID



Required Aperture: 12.5" x 12.5"  
 (318 x 318)

## SPECIFICATION DATA

### LOOP RECESSED 1x1 (LR111)

#### NOTES

##### CONSTRUCTION

- Formed 22 ga. steel housing
- Quick wire access plate and integral seismic restraint tabs/tie-offs
- Supplied drywall trim flange kit or optional trimless (mud-in) flange kit
- 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 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 50-60Hz, 120-277V or 347V
- 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), 120-277V, 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 9 lb (4.1kg) with standard driver
- Maximum 13 lb (5.9 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

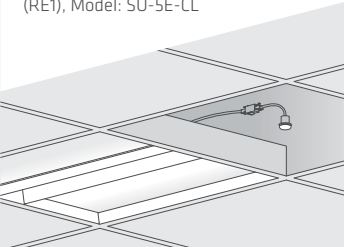

Protected by one or more US patents: D877968; EU patents: 005607132-0001, 005607132-0002, 005607132-0003, 005607132-0004, 005607132-0005, 005607132-0006, 005607132-0007.

#### CONTROLS & SENSORS

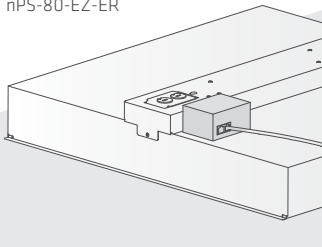

Fluxwerx products are designed for simple integration with a wide range of sensors, lighting controls and building management systems. Many projects incorporate occupancy sensing, daylight harvesting, individual or central adjustment of light levels and luminaire or space monitoring in order to save 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 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 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 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 EcoSystem network protocol enables on/off, dimming, occupancy sensing and daylight harvesting.  
Option: Hi-Lume 1% EcoSystem (L1), Model: LDE1



## SPECIFICATION DATA

### LOOP RECESSED 1x1 (LR111)

#### FAMILY PERFORMANCE

##### 80 CRI

COLOR	4000 K	3500 K	3000 K
Color Rendering (CRI)	83	83	82
Red Index (R9)	6	6	2
Color Matching (SDCM)	< 2		

LUMEN MAINTENANCE	A 12 W	B 15 W	C 19 W
L90 per TM-21 (hr)	> 54,000		> 50,000
L70 Estimate (hr)	> 200,000		> 150,000

##### 90 CRI

COLOR	4000 K	3500 K	3000 K
Color Rendering (CRI)	92	92	92
Red Index (R9)	63	63	59
Color Matching (SDCM)	< 2		

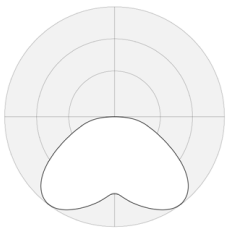
BATTERY OUTPUT - 80 CRI	4000 K	3500 K	3000 K
10 W BP Light (Est. lm)	1550	1530	1510

90 CRI OUTPUT	4000 K	3500 K	3000 K
90 CRI Multiplier	0.84	0.84	0.84

For Light (lm), Intensity (Cd) or Luminance (Cd/m<sup>2</sup>) in 90 CRI, multiply 80 CRI values by the 90 CRI Multiplier for chosen CCT.

#### VERSION PERFORMANCE

##### 80 CRI, 100% Down

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT		ENERGY (NOM.)	LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m <sup>2</sup> )	
LR111x40 4000 K	A	12 W	1452	11.19	129.7	385	6,964	 <p>Loop Recessed 100% Dn</p>
	B	15 W	1814	14.19	127.8	481	8,700	
	C	19 W	2323	19.00	122.3	616	11,142	
LR111x35 3500 K	A	12 W	1434	11.19	128.1	380	6,875	
	B	15 W	1797	14.19	126.6	476	8,619	
	C	19 W	2301	19.00	121.1	610	11,037	
LR111x30 3000 K	A	12 W	1415	11.18	126.6	375	6,787	
	B	15 W	1780	14.19	125.4	472	8,535	
	C	19 W	2279	19.19	118.7	604	10,930	

##### Photometry Reports: 12156787.12A (12 W), 12156787.13A (15 W), 12156787.01A (19 W)

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 19W (C). Candlepower Distribution scaled per total lumens of Integrating Sphere results.