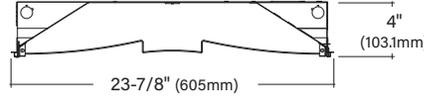
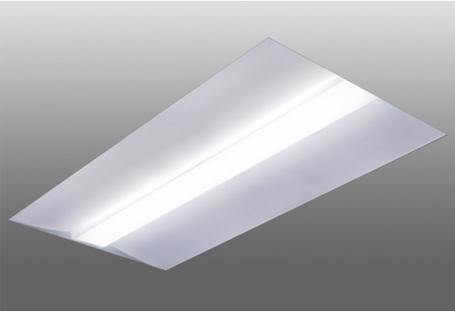




# LUCEN LU24

## 2x4 Architectural Recessed



### Key Features

- Formed 22 gauge cold rolled steel housing
- Highly reflective die-formed white painted reflector
- Wiring access available on both ends and top of housing
- LED offered with a 5-year limited warranty. Covers LED, driver and fixture
- UL and cUL Listed, LO, MO, and HO lumen packages are IC Rated
- Room-Side Maintenance for LED system



Example Part #: LU24-A-830HO-G1-U-FSD-1-0-W



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SHIELDING	SOURCE <sup>Q<sub>S</sub></sup> 1, 2	MOUNTING	VOLTAGE <sup>3</sup>
<b>A</b> - Satine Lens <sup>Q<sub>S</sub></sup> <b>W</b> - White Rails <sup>Q<sub>S</sub></sup> <b>S</b> - Silver Rails <sup>Q<sub>S</sub></sup> <i>Shielding pg. 2</i>	<b>_27</b> - 2700K <b>_30</b> - 3000K <b>_35</b> - 3500K <b>_40</b> - 4000K <b>TW</b> - 2CH Tunable White (2700-6500K, 90CRI) <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <b>MOD</b> - Mod options available <i>Lumen Output pg. 2</i>	<b>G1</b> - 15/16" Grid <sup>Q<sub>S</sub></sup> <b>G9</b> - 9/16" Grid <sup>Q<sub>S</sub></sup> <b>GS</b> - Screw Slot Grid <sup>Q<sub>S</sub></sup> <b>FL</b> - Flanged <b>S</b> - Surface Mount <i>Mounting pg. 3</i>	<b>U</b> - Universal (120 thru 277V) <sup>Q<sub>S</sub></sup> <b>1</b> - 120V <sup>Q<sub>S</sub></sup> <b>2</b> - 277V <sup>Q<sub>S</sub></sup> <b>3</b> - 347V <i>Voltage pg. 3</i>
DRIVER	CIRCUITING <sup>4</sup>	BATTERY & EMERGENCY	FINISH
<b>FSD</b> - Factory Select Driver (1%, 0-10v) <sup>Q<sub>S</sub></sup> <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - eldoLED Optotronic (1%, 0-10v) <b>OL4</b> - eldoLED Optotronic 347v (1%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0.1%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PR1</b> - Advance Xitanium SR <b>MOD</b> - Mod options available <i>Driver pg. 4</i>	<b>1</b> - Single Circuit <sup>Q<sub>S</sub></sup> <b>E</b> - Emergency (entire fixture) <sup>Q<sub>S</sub></sup> <b>N</b> - Night Light (entire fixture) <sup>Q<sub>S</sub></sup> <i>Circuiting pg. 4</i>	<b>0</b> - None <sup>Q<sub>S</sub></sup> <b>FSB</b> - Factory Select Battery <sup>Q<sub>S</sub></sup> <b>FSG</b> - Factory Select ALCR <b>1PLL</b> - Bodine 10W <b>1ILL</b> - Iota 10W <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <i>Battery and Emergency pg. 4</i>	<b>W</b> - White <sup>Q<sub>S</sub></sup> <b>MOD</b> - Mod options available <i>Finish pg. 5</i>
FIXTURE OPTIONS <sup>5</sup>	CONTROLS <sup>6</sup>		
<b>QS</b> - QuickShip <sup>Q<sub>S</sub></sup> <b>TW</b> - Through-wiring <b>CP</b> - Chicago Plenum <b>AM</b> - Antimicrobial Paint <b>FW6</b> - 6' Flex Whip <sup>Q<sub>S</sub></sup> <b>GLR</b> - Fast Blow Fusing <sup>Q<sub>S</sub></sup> <b>GMF</b> - Slow Blow Fusing <b>MOD</b> - Mod options available <i>Fixture Options pg. 5</i>	<b>DLMFC</b> - Wattstopper DLM <b>DLMFS</b> - Wattstopper LLLC <b>EASYS</b> - Philips EasySense <b>SNLSM</b> - Wattstopper PLUS SensiLUM <b>WVLX</b> - Eaton WaveLinX <b>VDO</b> - Lutron Vive Sensor <b>VRF</b> - Lutron Vive Connected <b>MOD</b> - Mod options available <i>Controls pg. 6</i>		

<sup>1</sup>When specifying SOURCE the first \_ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending \_\_ are for specifying output, example 835HO - 80CRI, 3500K High Output. See output charts for more information. <sup>2</sup>When specifying Tunable White, use **TW** and then specify output, example TWHO - Tunable White 90CRI, High Output 2700-6500K. See output charts for more information. Tunable White option requires driver option **FSD** which provides separate 0-10v control leads for Intensity and CCT. <sup>3</sup>Tunable White (**TW**) option only available with Universal (**U**), 120V (**1**) or 277V (**2**) options. <sup>4</sup>Consult factory for Emergency (**E**) or Night Light (**N**) options with Tunable White option. <sup>5</sup>If specifying QuickShip, **QS** must be used in fixture options section of part number to qualify. <sup>6</sup>Controls can only be used with Single Circuit (**1**) or Emergency Circuit (**E**). See Controls chart on page 5 for driver options and more information



## Shielding

- Single piece extruded diffuse lens with convex wings and articulated center spine
- Fully luminous housing with optimal glare control
- Highly reflective white reflectors maintain uniform lens brightness



## Output

- Specify either 80 or 90 CRI for White light LED
- Longer lead-time may apply for 90 CRI or Tunable White option. Consult factory
- Tunable White option requires driver option FSD which provides separate 0-10v control leads for Intensity and CCT.
- Tunable White lumen packages shown at 4000K CCT setpoint
- 90 CRI = R9≥50

## Custom Output- Lumens OR Wattage

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL8351200)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW94015)	Specify watts between standard offering listed below
<b>CLTW</b> _____	Specify desired lumens for Tunable White (i.e. CLTW3200)	Specify lumens between Tunable White offering listed below. Lumens are specified at 4000K CCT setpoint.

## 80 CRI

	Color	Output	Watts	Shielding					
				A Satine Lens		W White Trim		S Silver Trim	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
<b>830LO</b>	3000K	Low	22.1	3114	141	2806	127	2653	120
<b>830MO</b>		Middle	29.8	4095	137	3689	124	3489	117
<b>830HO</b>		High	36.8	5052	137	4552	124	4304	117
<b>830VHO</b>		Very High	55.0	7265	132	6546	119	6190	113
<b>835LO</b>	3500K	Low	22.1	3127	142	2818	127	2665	121
<b>835MO</b>		Middle	29.8	4112	138	3705	124	3503	118
<b>835HO</b>		High	36.8	5073	138	4571	124	4322	117
<b>835VHO</b>		Very High	55.0	7295	133	6573	120	6216	113
<b>840LO</b>	4000K	Low	22.1	3211	145	2893	131	2736	124
<b>840MO</b>		Middle	29.8	4222	142	3804	128	3597	121
<b>840HO</b>		High	36.8	5209	142	4693	128	4438	121
<b>840VHO</b>		Very High	55.0	7491	136	6749	123	6382	116

## 90 CRI

<b>927LO</b>	2700K	Low	22.1	2583	117	2327	105	2200	100
<b>927MO</b>		Middle	29.8	3396	114	3059	103	2893	97
<b>927HO</b>		High	36.8	4189	114	3774	103	3569	97
<b>927VHO</b>		Very High	55.0	6024	110	5428	99	5133	93
<b>930LO</b>	3000K	Low	22.1	2645	120	2384	108	2254	102
<b>930MO</b>		Middle	29.8	3478	117	3134	105	2964	99
<b>930HO</b>		High	36.8	4291	117	3866	105	3656	99
<b>930VHO</b>		Very High	55.0	6171	112	5560	101	5258	96
<b>935LO</b>	3500K	Low	22.1	2761	125	2487	113	2352	106
<b>935MO</b>		Middle	29.8	3630	122	3270	110	3093	104
<b>935HO</b>		High	36.8	4478	122	4035	110	3816	104
<b>935VHO</b>		Very High	55.0	6440	117	5802	105	5487	100
<b>940LO</b>	4000K	Low	22.1	2834	128	2553	116	2415	109
<b>940MO</b>		Middle	29.8	3726	125	3357	113	3175	107
<b>940HO</b>		High	36.8	4597	125	4142	113	3917	106
<b>940VHO</b>		Very High	55.0	6611	120	5956	108	5633	102

## 2 CH Tunable White (2700-6500K, 90CRI)

<b>TWLO</b>	2700 - 6500K	Low	29.1	3100	106.6	2790	96.0	2638	90.7
<b>TWMO</b>		Middle	39.2	4100	104.7	3694	94.3	3493	89.2
<b>TWHO</b>		High	48.8	5100	104.6	4591	94.1	4341	89.0
<b>TWVHO</b>		Very High	82.7	7400	89.5	6666	80.6	6304	76.2

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## Direct Source: MOD Options

- Specify **MOD** in the part number for any of the below options
- All RGB\_Source Options will require specific driver and control
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Color Changing RGB LED	Color Changing RGB-W LED	Required Driver	Required Control
			EC1	DMX
			EC1	DMX

## Mounting

- LUCEN is offered with a universal flange for all grid types. See below for fixture placement in relation to the tile for each grid type
- Grid retention clips integral to housing and require mechanical attachment
- Tie off fixture to structure with retention wires
- Refer to installation instructions during installation at the jobsite
- Maximum fixture weight is 25lbs - Surface Mount Box adds 10 lbs

G1	G9	GS	FL	S
<p><b>1" Grid Mount</b> Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.</p> <p>Standard Tile</p> <p>Tegular Tile</p>	<p><b>9/16" Grid Mount</b> Works with 9/16" grid ceiling type. For tegular tile installations, fixture position will not be flush to the bottom of the tile. See tegular tile profile image below.</p> <p>Standard Tile</p> <p>Tegular Tile</p>	<p><b>Screw Slot Mounting</b> Works with screw slot and bolt slot grid ceiling types.</p>	<p><b>Flange Kit</b> A separate flange kit is supplied for installations into inaccessible or drywall applications. Flange kit ships from factory uninstalled separately from fixture.</p>	<p><b>Surface Mount</b> Utilize for hard lid ceiling applications. The 20 gauge steel frame easily secures to ceiling. Surface Mount Box adds 10 lbs</p> <p>4-5/8" (117.6mm)</p>

## Voltage

- Some LUCEN configurations will not accommodate all voltage options; consult with factory
- 347 volt not available with Tunable White (TW) option

U	Universal
1	120 volt
2	277 volt
3	347 volt



## Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more Driver options, see Pinnacle Resource Guide
- Some LUCEN configurations will not accommodate all driver options; consult with factory

### 0-10V Drivers

<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED Optotronic 347v, 1% 0-10v, requires 347v
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v Linear
<b>ES1</b>	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear
<b>OL5</b>	eldoLED Optotronic 1%, 0-10v, AUX
<b>PL5</b>	Advance Xitanium 1%, 0-10v, AUX

### DALI Drivers

<b>EE3</b>	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
<b>ES3</b>	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL, DALI 2, DT6, Self powered link
<b>PR1</b>	Advance Xitanium SR, DALI 2, Self powered link

### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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### Alternate Drivers

<b>PS1</b>	Advance Xitanium Step Dimming 50%/100%
<b>EH1</b>	ERP 1%, Line Voltage and ELV, requires 120v

## Driver: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

<b>MOD</b>	Power Over Ethernet
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## Circuiting

- Select fixture circuiting from options below
- Some LUCEN configurations will not accommodate all circuiting options; consult with factory
- Consult factory for Emergency (E) or Night Light (N) circuit with Tunable White (TW) option

<b>1</b>	Single Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

## Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes
- For Tunable White (TW) option, battery with illuminate 6500K LED unless otherwise specified.
- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide
- Consult factory for Emergency Control Devices with Tunable White (TW) option

<b>0</b>	No Battery
<b>FSB</b>	Factory Select Battery 10w, Integral Lithium
<b>FSBST</b>	Factory Select Battery 10w, Integral Lithium, Self Testing
<b>FSG</b>	Factory Select ALCR Emergency Control Device, UNV
<b>GI</b>	Iota ETS-DR, Emergency Control Device, UNV
<b>GB</b>	Bodine GTD, Emergency Control Device, 120v or 277v
<b>1ILL</b>	Iota 10w, Integral Lithium, Self Testing
<b>1PLL</b>	Bodine 10w, Integral Lithium, Self Testing

### For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 92.3 (LPW) = 923 battery lumen output

### Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery      Ordering Code: 1-1FSB
- Emergency circuit only, 10w integral battery      Ordering Code: E-1PLL



## Finish

- Powder-coat white painted finish

**W** White

## Finish: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

<b>MOD</b>	Wood Grain
	Acoustic
	Metallic Silver
	Textured Black
	Bronze
	Graphite
	Custom Color

## Fixture Options

- Additional options to enhance the fixture and finish of the product

<b>QS</b>	Quick Ship
<b>TW</b>	Through-Wiring
<b>CP</b>	Chicago Plenum
<b>AM</b>	Antimicrobial Paint
<b>FW6</b>	Flex Whip 6'
<b>GLR</b>	Internal Fast Blow Fuse
<b>GMF</b>	Internal Slow Blow Fuse

## Fixture Options: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

<b>MOD</b>	Remote Driver
	End Power Feed

## Quick Ship

Shielding	Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish	Options
<b>10-Day</b>								
<b>A</b> Satine Lens <b>W</b> White Rails <b>S</b> Silver Rails	80 CRI, All color temperatures, all lumen packages <i>See pg 4</i>	<b>G1</b> 1" Grid <b>G9</b> 9/16" Grid <b>GS</b> Screw Slot	<b>U</b> Universal <b>1</b> 120v <b>2</b> 277v	<b>FSD</b> Factory Select Driver (1%, 0-10v)	<b>1</b> Single <b>E</b> Emergency <b>N</b> Night Light	<b>0</b> None <b>FSB</b> Factory Select Battery	<b>W</b> White	<b>CP</b> Chicago Plenum <b>FW6</b> Flex Whip 6' 18-gauge <b>GLR</b> Internal Fast-Blow Fuse

Consult Factory for projects that are larger than 200 units.

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## Controls

- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout, placement, or EM options
- Controls only compatible with Satine Lens.
- Must specify required driver in Driver Section
- Consult factory for available controls with Tunable White (TW) option

	Solution	Components	Network/Sensor	Connection	Required Drivers	Limitations
<b>DLMFC</b>	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	OL2, OL4	None
<b>DLMFS</b>	Legrand Wattstopper LLLC	LMFS-601-W / LMFI-111	Wireless DLM Fixture Sensor	Wireless	OD1, PR1, 0-10v	0-10v requires interface
<b>EASYS</b>	Philips EasySense	SNS-210	Daylight/PIR Occupancy	Wireless to switches	PR1	Not available with 347 volt
<b>SNSLM</b>	Wattstopper PLUS SensiLUM	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	Not available with 347 volt
<b>WLVX</b>	Eaton WaveLinx	SWPD1, MSP3IVMVDC1	WaveLinx WCL, Daylight	Wireless	Any 0-10v	Not available with 347 volt
<b>VDO</b>	Lutron Vive Sensor	DFCSJ-OEM-OCC	Vive, Daylight/PIR Occupancy	Wireless	OD1, PR1	Not available with 347 volt
<b>VRF</b>	Lutron Vive Connected	DFCSJ-OEM-RF	Vive	Wireless	OD1, PR1	Not available with 347 volt

## Controls: MOD Options

- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

		Required Driver
<b>MOD</b>	Acuity nLight Air Wireless Connected	EE6, ES6

## Approvals & Certifications

**Construction:** Formed 22 gauge cold rolled steel housing. Highly reflective die-formed reflectors maintain uniform lens brightness. Wiring access on both sides and top of housing. Housing designed to maintain optimal temperature of LED diodes and driver. Captive door frame swings open for room-side maintenance of lens, driver and LED boards.

**Shielding:** Single piece extruded diffuse lens with convex wings and articulated center spine creating a fully luminous housing with optimal glare control. Available with standard satine lens or optional white or silver lens side rails.

**Mounting:** Designed to install into acoustical grid and inaccessible ceilings. Specify G1, G9 or GS for acoustical grid ceiling. Specify FL for inaccessible ceilings. Grid retention clips integral to housing and require mechanical attachment. Tie off fixture to structure with retention wires.

**White LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. TM-21-21 Lifetime Rating L70 = >54,000 hours, L90 = >54,000 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

**Tunable White LED:** 2 channel solution with 2700K and 6500K LED, 90CRI only, R9 >50. Lumen packages available shown at 4000K CCT setpoint, lumen output varies based on CCT. Use multipliers for other CCT; 2700K = .91 3000K=.93 3500K=.97 4000K=1.0 5000K=1.044 6500K=1.078.

**Color & Lumen Output:** Not all lumen packages available. Four lumen packages available. Low (LO), Medium (MO), High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

**Voltage:** Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some LUCEN configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Factory Select Driver 0-10V, 1% = FSD. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 112°F/45C. For more driver options, see Pinnacle Resource Guide. Some LUCEN configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some LUCEN configurations will not accommodate all circuiting options, consult with factory.

**Battery & Emergency:** Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

**Finish:** Powder-coat white painted finish on exposed trim.

**Controls:** Standard options available, refer to Controls section table for available options, component part number(s), connection type, required driver and limitations. Mod options available, consult with factory.

**Labels:** UL and cUL 1598 listed. LO, MO, and HO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

**Fixture Weight:** 25 lbs maximum - Surface Mount Box 10 lbs.

**Warranty:** LUCEN LED offered with a 5-year limited warranty. Covers LED, driver and fixture.