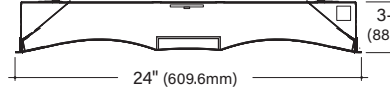


# CONVERJ CJ22

## 2x2 Architectural Recessed

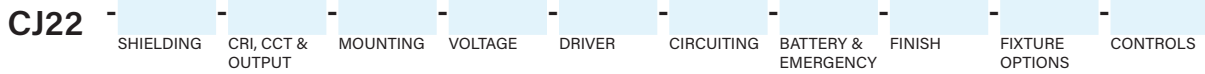


### Key Features

- Formed 20 gauge cold rolled steel housing. Highly reflective die-formed white painted reflector.
- Wiring access available on 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
- Approved for dry/damp location unless otherwise noted
- Maximum fixture weight is 22 lbs - Surface Mount Box adds 10 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: CJ22-A-830HO-G1-U-OL2-1-0-W



SHIELDING	CRI, CCT & OUTPUT	MOUNTING	VOLTAGE
<b>A</b> - Satine Lens <b>R</b> - Round Perf <b>L</b> - Linear Perf <i>Shielding pg. 2</i>	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <i>Lumen Output pg. 2</i> Example: 830HO is <b>8</b> = 80 CRI; <b>30</b> = 3000K; <b>HO</b> = High Output	<b>G1</b> - 15/16" Grid <b>G9</b> - 9/16" Grid <b>GS</b> - Screw Slot Grid <b>FL</b> - Flanged <b>S</b> - Surface Mount <i>Mounting pg. 3</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 3</i>
DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
<b>FSD</b> - Factory Select Driver (1%, 0-10v) <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>PS1</b> - Advance Xitanium (50%/100%) <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <b>E</b> - Emergency ( <i>entire fixture</i> ) <b>N</b> - Night Light ( <i>entire fixture</i> ) <i>Circuiting pg. 4</i>	<b>0</b> - None <b>FSB</b> - Factory Select Battery <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>1IC</b> - Iota 10W, CEC Listed <b>1P</b> - Bodine 10W <i>Battery and Emergency pg. 4</i>	<b>W</b> - White <i>Finish pg. 4</i>
FIXTURE OPTIONS	CONTROLS		
<b>TW</b> - Through-wiring <b>CP</b> - Chicago Plenum <b>AM</b> - Antimicrobial Paint <b>AR</b> - Air Return <b>DSP</b> - Customer Supplied Battery/Driver/Sensor <b>FW6</b> - 6' Flex Whip <i>Fixture Options pg. 5</i>	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.		

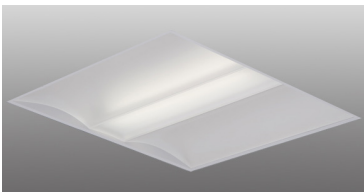
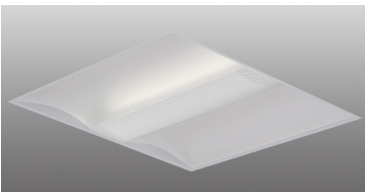
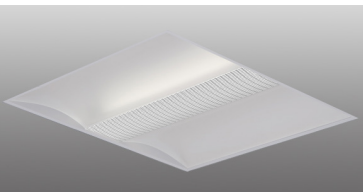
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## Shielding

- Unique twin-arched wings and articulated center spine
- Utilizes a proprietary layered lens creating a fully luminous housing with optimal glare control
- Highly reflective white reflectors maintain uniform lens brightness
- Wiring access available on both side and top of housing

### Ordering Code

A	R	L
Satine Lens	Round Perf	Linear Perf
		

## Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 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

### 80 CRI

	Color	Output	Watts	Shielding	
				A Satine Lens	
				Lumens	LPW
<b>830LO</b>	3000K	Low	23.0	2096	91.1
<b>830MO</b>	3000K	Middle	36.4	3215	88.3
<b>830HO</b>	3000K	High	49.2	4123	83.8
<b>835LO</b>	3500K	Low	23.0	2161	94.0
<b>835MO</b>	3500K	Middle	36.4	3314	91.0
<b>835HO</b>	3500K	High	49.2	4250	86.4
<b>840LO</b>	4000K	Low	23.0	2211	96.1
<b>840MO</b>	4000K	Middle	36.4	3390	93.1
<b>840HO</b>	4000K	High	49.2	4348	88.4

### 90 CRI

<b>927LO</b>	2700K	Low	23.0	1660	72.2
<b>927MO</b>	2700K	Middle	36.4	2545	69.9
<b>927HO</b>	2700K	High	49.2	3264	66.3
<b>930LO</b>	3000K	Low	23.0	1931	84.0
<b>930MO</b>	3000K	Middle	36.4	2962	81.4
<b>930HO</b>	3000K	High	49.2	3798	77.2
<b>935LO</b>	3500K	Low	23.0	1943	84.5
<b>935MO</b>	3500K	Middle	36.4	2980	81.9
<b>935HO</b>	3500K	High	49.2	3821	77.7
<b>940LO</b>	4000K	Low	23.0	1973	85.8
<b>940MO</b>	4000K	Middle	36.4	3024	83.1
<b>940HO</b>	4000K	High	49.2	3879	78.8

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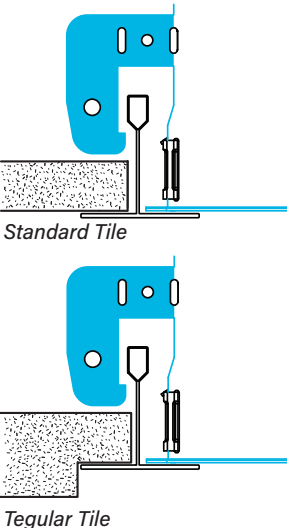
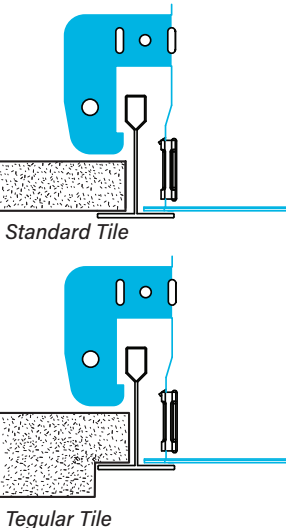
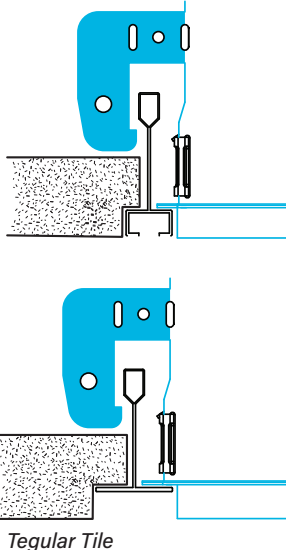
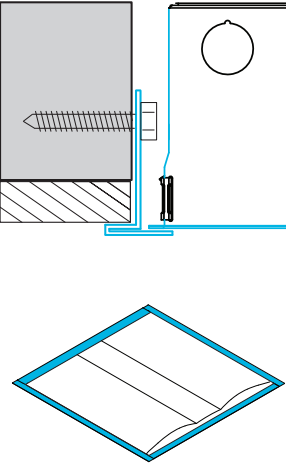
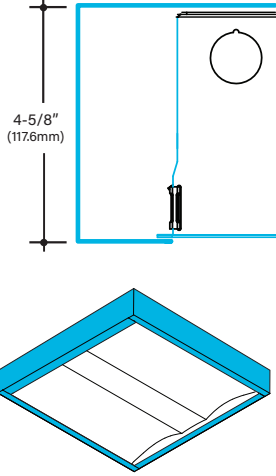
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## Mounting

- Designed to install into acoustical grid and inaccessible ceilings
- Grid retention clips integral to housing and require mechanical attachment
- Tie off fixture to structure with retention wires
- Maximum fixture weight is 22 lbs - Surface Mount Box adds 10 lbs
- Refer to installation instructions during installation at the job site
- Approved for dry/damp location unless otherwise noted

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><i>Standard Tile</i></p> <p><i>Tegular Tile</i></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><i>Standard Tile</i></p> <p><i>Tegular Tile</i></p>	<p><b>Screw Slot Mounting</b> Works with screw slot, bolt slot and 9/16" grid ceiling types. For 9/16" installations with tegular tile, fixture position will be flush to the bottom of the tile. Consult factory for detailed installation instructions.</p>  <p><i>Standard Tile</i></p> <p><i>Tegular Tile</i></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. Consult factory for detailed installation instructions.</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 CONVERJ configurations will not accommodate all voltage options; consult with factory

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	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 CONVERJ 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 (logarithmic)
<b>ES3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL
<b>OD2</b>	eldoLED Optotronic 1%, DALI 2 Channel

### 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>	Signify Advance Xitanium Step Dimming 50%/100%
<b>PR1</b>	Philips Advance Xitanium SR, requires EASYS, VDO or VRF
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL
<b>EH1</b>	ELV 120v only, 0-10v universal

## Circuiting

- Select fixture circuiting from options below
- Some CONVERJ configurations will not accommodate all circuiting options; consult with factory

<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
- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide

<b>0</b>	No Battery
<b>FSB</b>	Factory Select Battery (10w option)
<b>FSBST</b>	Factory Select Battery (10w, Self Testing)
<b>FSG</b>	Factory Select Automatic Load Control Relay (ALCR), UNV
<b>GI</b>	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV
<b>GB</b>	Bodine GTD, Generator Transfer Device, 120v or 277v
<b>1IC</b>	lota 10w Integral
<b>1ILL</b>	lota 10w Integral Lithium, Self Testing
<b>1IRH</b>	lota 20w Remote
<b>1P</b>	Bodine 10w Integral
<b>1PRH</b>	Bodine 20w Remote
<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: 1-1P
- Emergency circuit only, 10w integral battery      Ordering Code: E-1P

## Finish

- Powder-coat white painted finish on exposed trim

<b>W</b>	White
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## Fixture Options

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

<b>TW</b>	Through-Wiring
<b>CP</b>	Chicago Plenum
<b>AM</b>	Antimicrobial Paint
<b>AR</b>	Air Return
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor
<b>FW6</b>	Flex Whip 6'

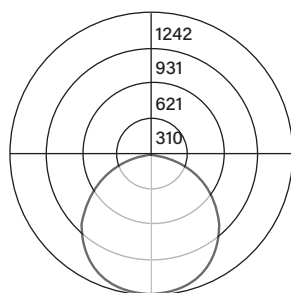
## Controls

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

## Photometrics

### Satine Lens

Test #	ITL85411
Catalog #	CJ22A-840MO
Lumens	3390 Lm
Watts	36.4 W
Efficacy	93 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1242	1242	1242	1242	1242
5	1238	1238	1238	1239	1239
10	1221	1222	1221	1222	1224
15	1195	1194	1197	1201	1202
20	1153	1154	1160	1166	1167
25	1103	1104	1113	1119	1122
30	1041	1044	1055	1062	1067
35	971	975	986	995	999
40	892	895	907	917	923
45	804	807	818	827	833
50	711	713	719	728	732
55	611	610	614	617	620
60	504	501	500	497	499
65	395	390	384	380	382
70	285	278	272	275	279
75	182	178	178	187	192
80	97	96	104	114	121
85	35	38	45	48	49
90	0	0	0	0	0

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3618	3682	3747
55	3388	3405	3439
65	2973	2888	2873
75	2238	2188	2364
85	1270	1643	1792

For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com). Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

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## Approvals & Certifications

**Construction:** Formed 20 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 one-piece door frame swings open for room-side maintenance of lens, driver and LED boards.

**Shielding:** Single piece co-extruded unique twin-arched wings and articulated center spine. Utilizes a proprietary layered lens creating a fully luminous housing with optimal glare control. Available with standard satine lens.

**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. Maximum fixture weight is 22 lbs Surface Mount Box adds 10 lbs.

**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. Minimum lifetime greater than 60,000 hours. L70 = 107,300 hours and L90 = 32,000 hours. MacAdam 3-Step Ellipses. Not all products are lighting facts listed. For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**CRI, CCT & Output:** Three lumen packages available. Low (LO), Medium (MO) and High (HO). 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 OL4 in Driver section when 347 volt (3) is selected. Some CONVERJ configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Advance Xitanium 0-10V, 1% = PL2. 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 91°F/33°C. For more driver options, see Pinnacle Resource Guide. Some CONVERJ configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some CONVERJ 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:** Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

**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:** 22 lbs maximum - Surface Mount Box adds 10 lbs.

**Buy American Act Compliant**

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