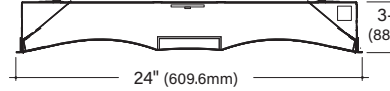




# CONVERJ CJ24

## 2x4 Architectural Recessed

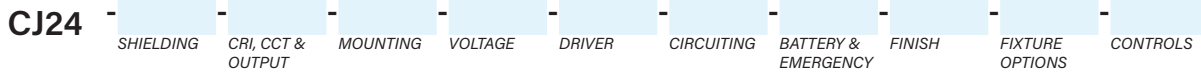


### Key Features

- 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 35 lbs - Surface Mount Box adds 10 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: CJ24-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> <i>Example: 830HO is 8 = 80 CRI; 30 = 3000K;</i> <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> - Osram (1%, 0-10v) <b>OL4</b> - Osram 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. 4</i>	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.		

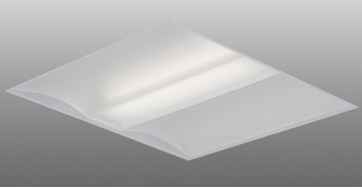

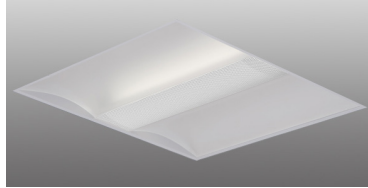

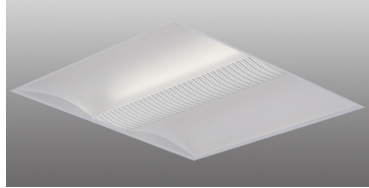
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### Shielding

- 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	33.5	2787	83.2
<b>830MO</b>	3000K	Middle	36.4	3709	101.9
<b>830HO</b>	3000K	High	46.8	4696	100.3
<b>830VHO</b>	3000K	Very High	73.8	6844	92.7
<b>835LO</b>	3500K	Low	33.5	2928	87.4
<b>835MO</b>	3500K	Middle	36.4	3898	107.1
<b>835HO</b>	3500K	High	46.8	4842	103.5
<b>835VHO</b>	3500K	Very High	73.8	7055	95.6
<b>840LO</b>	4000K	Low	33.5	3001	89.6
<b>840MO</b>	4000K	Middle	36.4	3994	109.7
<b>840HO</b>	4000K	High	46.8	4953	105.8
<b>840VHO</b>	4000K	Very High	73.8	7217	97.8

#### 90 CRI

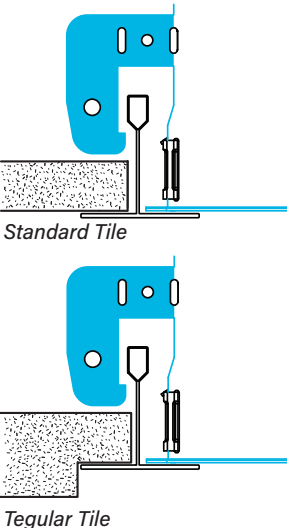
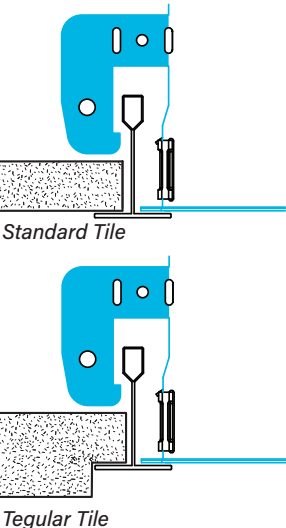
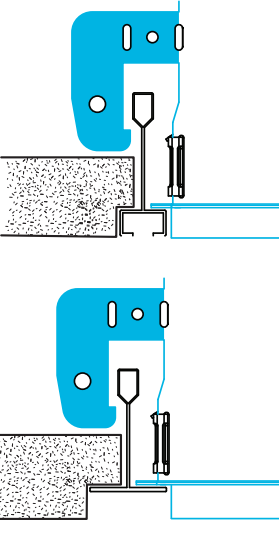
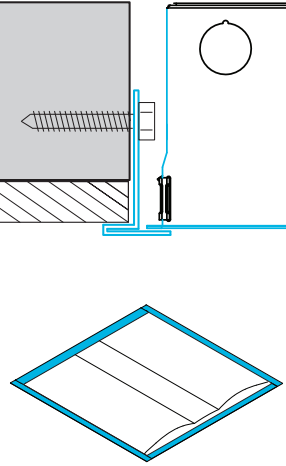
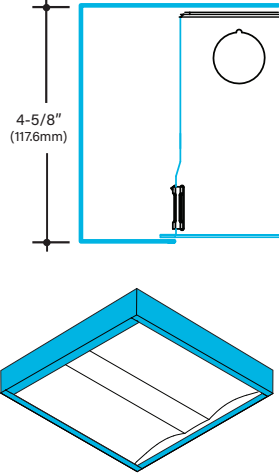
<b>927LO</b>	2700K	Low	33.5	2248	67.1
<b>927MO</b>	2700K	Middle	36.4	2992	82.2
<b>927HO</b>	3500K	High	46.8	3718	79.4
<b>927VHO</b>	3500K	Very High	73.8	5418	73.4
<b>930LO</b>	3000K	Low	33.5	2567	76.6
<b>930MO</b>	3000K	Middle	36.4	3416	93.8
<b>930HO</b>	3000K	High	46.8	4326	92.4
<b>930VHO</b>	3000K	Very High	73.8	6304	85.4
<b>935LO</b>	3500K	Low	33.5	2633	78.6
<b>935MO</b>	3500K	Middle	36.4	3505	96.3
<b>935HO</b>	3500K	High	46.8	4353	93.0
<b>935VHO</b>	3500K	Very High	73.8	6343	85.9
<b>940LO</b>	4000K	Low	33.5	2677	79.9
<b>940MO</b>	4000K	Middle	36.4	3563	97.9
<b>940HO</b>	4000K	High	46.8	4419	94.4
<b>940VHO</b>	4000K	Very High	73.8	6438	87.2

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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 35 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><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>	Osram Optotronic, 1%, 0-10v
<b>OL4</b>	Osram 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>	Osram 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>	Osram Optotronic 1%, DEXAL
<b>OD2</b>	Osram Optotronic 1%, DALI 2 Channel
Lutron Drivers	
<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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>	Osram 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>	Iota 10w Integral
<b>1ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>1IRH</b>	Iota 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'

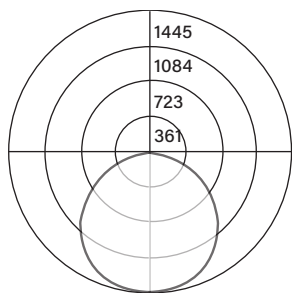
## Controls

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

## Photometrics

### Satine Lens

Test #	ITL85417
Catalog #	CJ24A-840MO
Lumens	3994 Lm
Watts	36.4 W
Efficacy	110 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1445	1445	1445	1445	1445
5	1440	1440	1440	1440	1440
10	1423	1420	1422	1425	1423
15	1393	1387	1395	1398	1396
20	1347	1342	1353	1356	1356
25	1292	1287	1299	1304	1304
30	1223	1222	1233	1238	1239
35	1147	1145	1157	1161	1161
40	1057	1058	1066	1068	1071
45	959	959	964	965	967
50	851	849	850	850	849
55	735	729	724	723	721
60	611	602	594	587	582
65	479	470	455	449	447
70	347	339	328	327	328
75	224	216	217	224	226
80	117	118	128	139	146
85	40	48	59	64	66
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2057	2068	2075
55	1944	1916	1907
65	1721	1632	1605
75	1311	1272	1325
85	704	1034	1149

## 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 35 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 = 134,700 hours and L90 = 40,100 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.

**CRI, CCT & Output:** 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 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 95°F/35°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:** 35 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.

For all available IES files, please visit our website at 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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