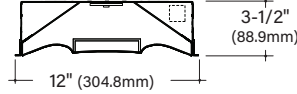


# CONVERJ CJ14

1x4 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 25 lbs - Surface Mount Box adds 10 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: CJ14-A-830HO-G1-U-OL2-1-0-W

## CJ14



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>OL4</b> - Osram 347V (1%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>L51</b> - Lutron 5-Series (5%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <b>OL2</b> - Osram (1%, 0-10v) <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>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>1P</b> - Bodine 10W <b>1IC</b> - Iota 10W, CEC Listed <b>1G</b> - Bodine GTD <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>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.		

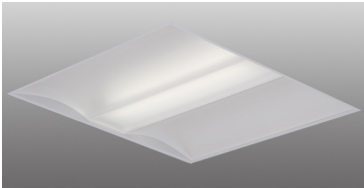
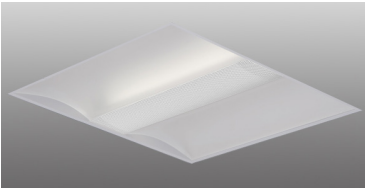
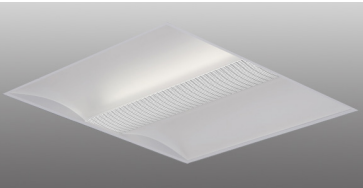
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## Shielding

- 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
- 80 CRI = R9≥19 and 90 CRI = R9≥61

### 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	24.0	1993	83.0
<b>830MO</b>	3000K	Middle	35.8	2950	82.4
<b>830HO</b>	3000K	High	41.8	3920	93.8
<b>830VHO</b>	3000K	Very High	67.6	6066	89.7
<b>835LO</b>	3500K	Low	24.0	2094	87.3
<b>835MO</b>	3500K	Middle	35.8	3099	86.6
<b>835HO</b>	3500K	High	41.8	4041	96.7
<b>835VHO</b>	3500K	Very High	67.6	6253	92.5
<b>840LO</b>	4000K	Low	24.0	2146	89.4
<b>840MO</b>	4000K	Middle	35.8	3176	88.7
<b>840HO</b>	4000K	High	41.8	4134	98.9
<b>840VHO</b>	4000K	Very High	67.6	6397	94.6

### 90 CRI

<b>927LO</b>	2700K	Low	24.0	1608	67.0
<b>927MO</b>	2700K	Middle	35.8	2337	65.3
<b>927HO</b>	2700K	High	41.8	3104	74.3
<b>927VHO</b>	2700K	Very High	67.6	4802	71.0
<b>930LO</b>	3000K	Low	24.0	1836	76.5
<b>930MO</b>	3000K	Middle	35.8	2717	75.9
<b>930HO</b>	3000K	High	41.8	3611	86.4
<b>930VHO</b>	3000K	Very High	67.6	5587	82.6
<b>935LO</b>	3500K	Low	24.0	1883	78.5
<b>935MO</b>	3500K	Middle	35.8	2787	77.8
<b>935HO</b>	3500K	High	41.8	3633	86.9
<b>935VHO</b>	3500K	Very High	67.6	5622	83.2
<b>940LO</b>	4000K	Low	24.0	1915	79.8
<b>940MO</b>	4000K	Middle	35.8	2833	79.1
<b>940HO</b>	4000K	High	41.8	3688	88.2
<b>940VHO</b>	4000K	Very High	67.6	5707	84.4

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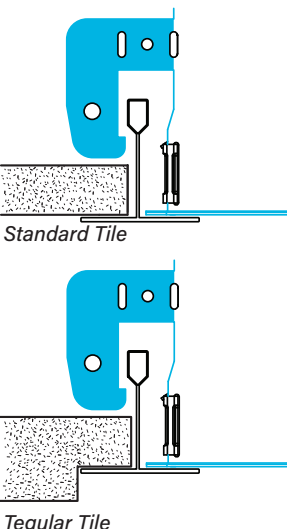
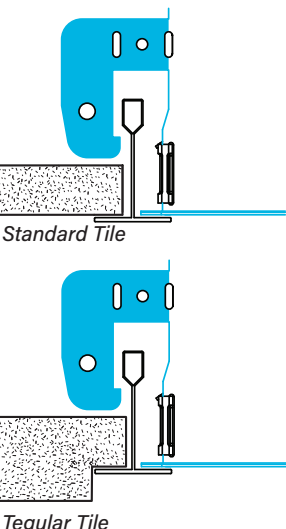
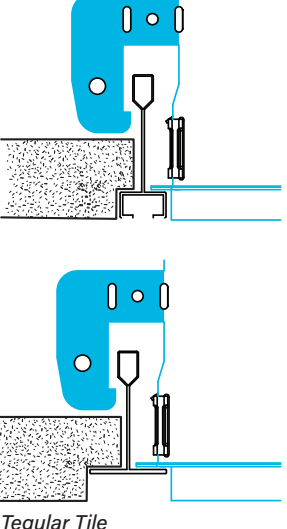
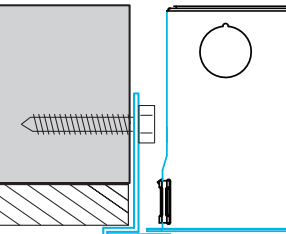
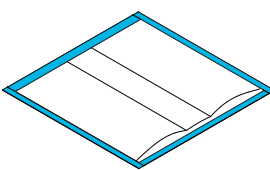
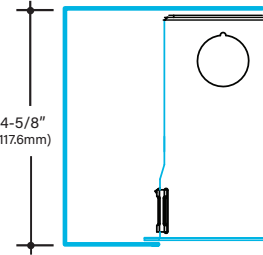
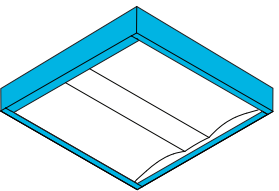
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CJ14\_LED\_SPEC\_SEPT2021



## 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 25 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><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><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>Standard Tile</p> <p>Tegular Tile</p>	 <p>Standard Tile</p> <p>Tegular Tile</p>	 <p>Tegular Tile</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 = PL2
- 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% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear
<b>OL5</b>	Osram Optotronic 1%, 0-10v, AUX

### DALI Drivers

<b>OD1</b>	Osram Optotronic 1%, DEXAL
<b>EE3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>EE4</b>	eldoLED SOLOdrive .1%, DALI (linear)
<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
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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>EH1</b>	ELV 120v only, 0-10v universal
<b>OD1</b>	Osram Optotronic 1%, DEXAL



## 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>FSG</b>	Factory Select ALCR, Automatic Load Control Relay
<b>GI</b>	Iota ETS DR, Emergency Lighting Control Device
<b>GB</b>	Bodine GTD, Emergency Lighting Control Device
<b>1P</b>	Bodine 10w Integral, <i>CEC Listed</i>
<b>1IC</b>	Iota 10w Integral, <i>CEC Listed</i>
<b>1G</b>	Bodine GTD, Generator Transfer Device

### 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>FW6</b>	Flex Whip 6'

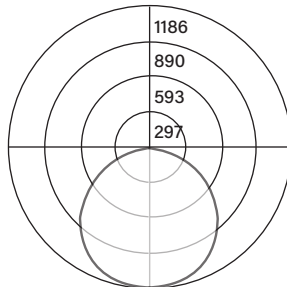
## Controls

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

## Photometrics

### Satine Lens

Test #	ITL85413
Catalog #	CJ14A-840MO
Lumens	3176 lm
Watts	35.8 W
Efficacy	89 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1186	1186	1186	1186	1186
5	1180	1180	1180	1179	1180
10	1165	1162	1164	1165	1164
15	1141	1133	1139	1141	1138
20	1101	1092	1101	1103	1100
25	1053	1045	1054	1054	1051
30	995	989	996	996	993
35	926	923	928	928	926
40	853	849	853	853	850
45	770	767	768	768	768
50	681	677	677	674	672
55	586	580	578	572	567
60	482	478	472	459	455
65	379	371	362	350	345
70	274	268	259	249	245
75	175	173	167	160	154
80	93	96	93	90	88
85	32	37	40	40	41
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3619	3612	3612
55	3394	3350	3289
65	2980	2848	2716
75	2247	2149	1973
85	1218	1509	1567

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 25 lbs - Surface Mount Box adds 10 lbs.

**LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%. All 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 = 123,100 hours and L90 = 36,700 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. 80 CRI = R9≥19 and 90 CRI = R9≥61.

**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 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 adds 10 lbs.

### Buy American Act Compliant

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