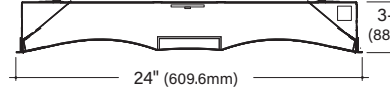




CONVERJ CJ24

2x4 Architectural Recessed

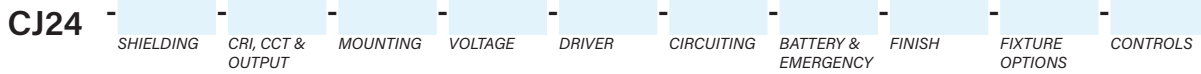


Key Features

- 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 |
|---|---|---|---|
| A - Satine Lens R - Round Perf L - Linear Perf <i>Shielding pg. 2</i> | 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2</i> <i>Example: 830HO is 8 = 80 CRI; 30 = 3000K;</i> HO = High Output | G1 - 15/16" Grid G9 - 9/16" Grid GS - Screw Slot Grid FL - Flanged S - Surface Mount <i>Mounting pg. 3</i> | U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 3</i> |
| DRIVER | CIRCUITING | BATTERY & EMERGENCY | FINISH |
| FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL4 - Osram 347V (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) PS1 - Advance Xitanium (50%/100%) OL2 - Osram (1%, 0-10v) <i>Driver pg. 3</i> | 1 - Single Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 4</i> | 0 - None FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD 1P - Bodine 10W 1IC - Iota 10W, CEC Listed 1G - Bodine GTD <i>Battery and Emergency pg. 4</i> | W - White <i>Finish pg. 4</i> |
| FIXTURE OPTIONS | CONTROLS | | |
| TW - Through-wiring CP - Chicago Plenum AM - Antimicrobial Paint AR - Air Return DSP - Customer Supplied Battery/Driver/Sensor FW6 - 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. | | |

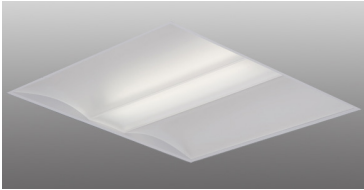
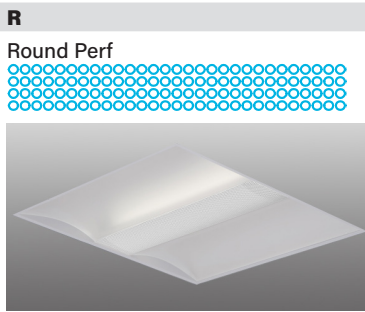
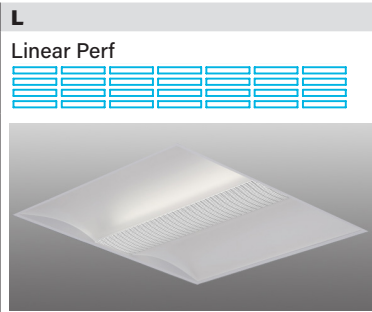
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Shielding

- 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

| | | |
|-----------------|--|--|
| CL _____ | Specify CRI, CCT and desired lumens (i.e. CL8351200) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CW _____ | 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 |
| 830LO | 3000K | Low | 33.5 | 2787 | 83.2 |
| 830MO | 3000K | Middle | 36.4 | 3709 | 101.9 |
| 830HO | 3000K | High | 46.8 | 4696 | 100.3 |
| 830VHO | 3000K | Very High | 73.8 | 6844 | 92.7 |
| 835LO | 3500K | Low | 33.5 | 2928 | 87.4 |
| 835MO | 3500K | Middle | 36.4 | 3898 | 107.1 |
| 835HO | 3500K | High | 46.8 | 4842 | 103.5 |
| 835VHO | 3500K | Very High | 73.8 | 7055 | 95.6 |
| 840LO | 4000K | Low | 33.5 | 3001 | 89.6 |
| 840MO | 4000K | Middle | 36.4 | 3994 | 109.7 |
| 840HO | 4000K | High | 46.8 | 4953 | 105.8 |
| 840VHO | 4000K | Very High | 73.8 | 7217 | 97.8 |

90 CRI

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

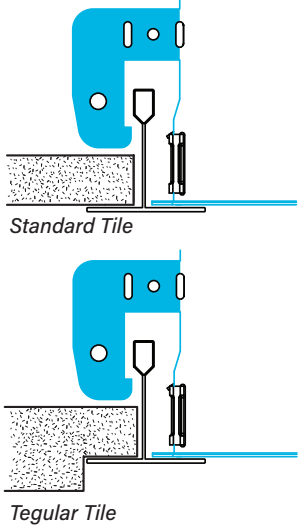
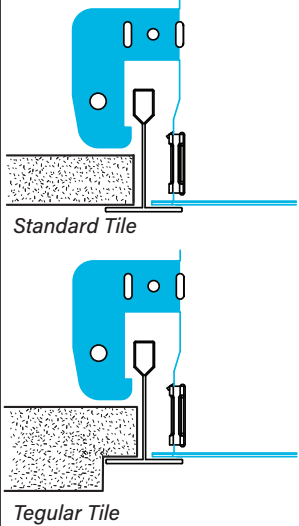
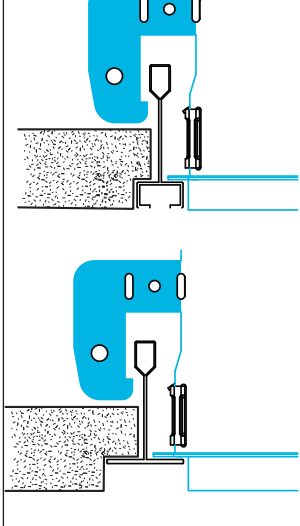
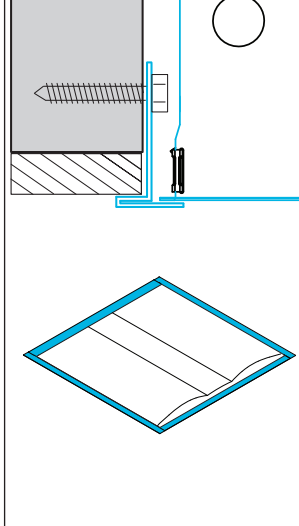
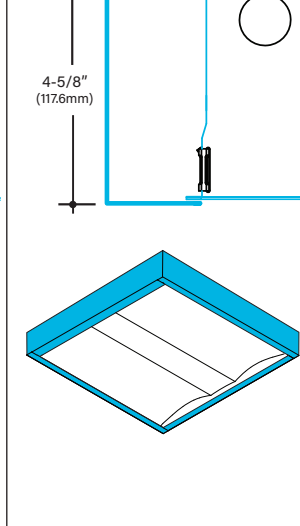
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Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568



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>1" Grid Mount 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>9/16" Grid Mount 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>Screw Slot Mounting 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>Flange Kit 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>Surface Mount 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

| | |
|----------|-----------|
| 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 CONVERJ configurations will not accommodate all driver options; consult with factory

0-10V Drivers

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

DALI Drivers

| | |
|------------|---|
| OD1 | Osram Optotronic 1%, DEXAL |
| EE3 | eldoLED ECOdrive .1%, DALI (logarithmic) |
| ES3 | eldoLED SOLOdrive .1%, DALI (logarithmic) |
| OD2 | Osram Optotronic 1%, DALI 2 Channel |

Lutron Drivers

| | |
|------------|---|
| LH1 | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
|------------|---|

Alternate Drivers

| | |
|------------|---|
| PS1 | Signify Advance Xitanium Step Dimming 50%/100% |
| PR1 | Philips Advance Xitanium SR, requires EASYS, VDO or VRF |
| EH1 | ELV 120v only, 0-10v universal |
| OD1 | Osram Optotronic 1%, DEXAL |

Circuiting

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

| | |
|----------|--------------------------|
| 1 | Single Circuit |
| E | Emergency Circuit only |
| N | 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

| | |
|-------------|---|
| 0 | No Battery |
| 1IC | lota 10w Integral |
| 1ILL | lota 10w Integral Lithium, Self Testing |
| 1IRH | lota 20w Remote |
| 1P | Bodine 10w Integral |
| 1PLL | Bodine 10w Integral Lithium, Self Testing |
| 1PRH | Bodine 20w Remote |
| FSG | Factory Select Automatic Load Control Relay (ALCR) |
| GI | Emergency Transfer Switch (ETS) DR Emergency Control Device |
| GB | 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

| | |
|----------|-------|
| W | White |
|----------|-------|



Circuiting

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

| | |
|----------|--------------------------|
| 1 | Single Circuit |
| E | Emergency Circuit only |
| N | 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

| | |
|------------|---|
| 0 | No Battery |
| FSG | Factory Select ALCR, Automatic Load Control Relay |
| GI | Iota ETS DR, Emergency Lighting Control Device |
| GB | Bodine GTD, Emergency Lighting Control Device |
| 1P | Bodine 10w Integral, <i>CEC Listed</i> |
| 1IC | Iota 10w Integral, <i>CEC Listed</i> |
| 1G | Bodine GTD |

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

| | |
|----------|-------|
| W | White |
|----------|-------|

Fixture Options

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

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

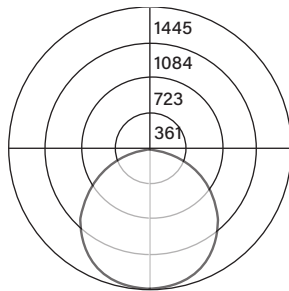
Controls

- 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 |

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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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%. 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 = 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. 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 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 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.