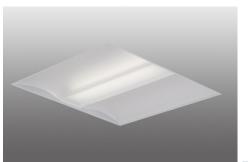
Proiect Name			

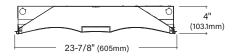
Type _







2x2 Architectural Recessed



Key Features

- Formed 22 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
- For damp location, must specify Paint After Fabrication (PAF) in the Options section of the luminaire specification
 Maximum fixture weight is 15 lbs - Surface Mount Box adds 10 lbs
 Room-Side Maintenance for LED system













Example Part #: CJ22-A-835HO-G1-U-FSD-1-0-W

CJ22 SHIELDING FIXTURE CRI, CCT & MOUNTING VOLTAGE CONTROLS DRIVER CIRCUITING BATTERY & FINISH OUTPUT **EMERGENCY OPTIONS**

			_
SHIELDING	CRI, CCT & OUTPUT ^{1, 2}	MOUNTING	VOLTAGE ³
A - Satine Lens R - Round Perf Shielding pg. 2	27 2700K 30 3000K MO - 2300lm, 17.0w MO - 3600lm, 25.5w HO - 4700lm, 38.2w HO - 2700-6500K, 90CRI) CL Custom Lumens CW Custom Watts Lumen Output pg. 2	G1 - 15/16" Grid G9 - 9/16" Grid GS - Screw Slot Grid FL - Flanged S - Surface Mount Mounting pg. 3	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 3

	_			
DRIVER	CIRCUITING ⁴	BATTERY & EMERGENCY	FINISH	
FSD - Factory Select Driver (1%, 0-10v)	1 - Single Circuit	0 - None	W - White	
PL2 - Advance Xitanium (1%, 0-10v)	E - Emergency (entire fixture)	FSB - Factory Select Battery	Finish pg. 4	
OL2 - eldoLED Optotronic (1%, 0-10v)	N - Night Light (entire fixture)	FSG - Factory Select ALCR		
OL4 - eldoLED Optotronic 347v (1%, 0-10v)	Circuiting pg. 4	GI - lota ETS DR		
EE1 - eldoLED ECOdrive (1%, 0-10v)		GB - Bodine GTD		
ES1 - eldoLED SOLOdrive (0.1%, 0-10v)		1ILL - lota 10W		
LH1- Lutron Hi-lume (1%, EcoSystem)		1PLL - Bodine 10W		
PR1 - Advance Xitanium SR		Battery and Emergency pg. 4		

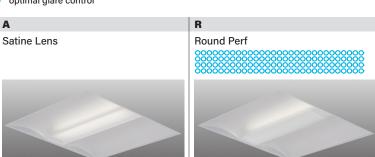
FIXTURE OPTIONS	CONTROLS
TW - Through-wiring CP - Chicago Plenum AM - Antimicrobial Paint DSP - Customer Supplied Battery/Driver/ Sensor FW6 - 6' Flex Whip GLR - Fast Blow Fusing GMF - Slow Blow Fusing BA- Buy American Act Compliant Fixture Options pg. 5	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

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. ²When 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. ³Tunable White (**TW**) option only available with Universal (**U**), 120V (**1**) or 277V (**2**) options. ⁴Consult factory for Emergency (**E**) or Night Light (**N**) options with Tunable White option.

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



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

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
CLTW	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	9		
				A		R	
				Satine Le	ns	Round Pe	rf
				Lumens	LPW	Lumens	LPW
830LO		Low	17.0	2257	132	1778	104
830MO	3000K	Middle	28.5	3570	125	2812	99
830HO		High	38.2	4668	122	3677	96
835LO		Low	17.0	2267	133	1786	105
835MO	3500K	Middle	28.5	3585	126	2824	99
835HO		High	38.2	4687	123	3692	97
840LO		Low	17.0	2328	137	1834	108
840MO	4000K	Middle	28.5	3681	129	2899	102
840HO		High	38.2	4813	126	3791	99

90 CRI

927LO		Low	17.0	1872	110	1475	87
927MO	2700K	Middle	28.5	2960	104	2332	82
927HO		High	38.2	3871	101	3049	80
930LO		Low	17.0	1918	112	1511	89
930MO	3000K	Middle	28.5	3032	107	2388	84
930HO		High	38.2	3965	104	3123	82
935LO		Low	17.0	2001	117	1576	92
935MO	3500K	Middle	28.5	3164	111	2493	88
935HO		High	38.2	4138	108	3259	85
940LO		Low	17.0	2054	121	1618	95
940MO	4000K	Middle	28.5	3248	114	2559	90
940HO		High	38.2	4248	111	3346	88

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

TWLO	2700 - 6500K	Low	24.1	2300	95.2	1817	75.2
TWMO		Middle	41.8	3600	86.2	2844	68.1
TWHO		High	45.2	4600	101.7	3633	80.3

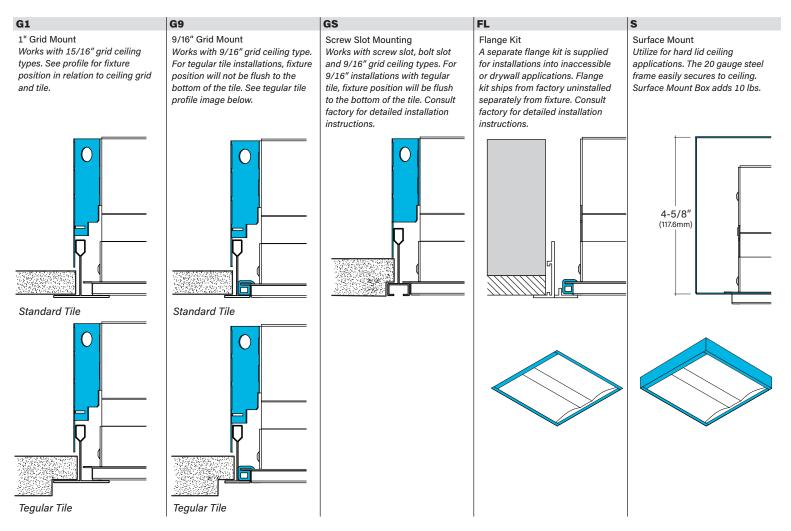
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CJ22_LED_SPEC_JUNE2025 pg. 2

CONVERJ 0122 Architectural Recessed

Mounting

- CONVERJ 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
- Maximum fixture weight is 15 lbs Surface Mount Box adds 10 lbs Refer to installation instructions during installation at the job site



Voltage

- Some CONVERJ 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

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CJ22_LED_SPEC_JUNE2025

Driver

- Standard Driver Option = FSD 1%, 10v
- 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	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v (requires 347v)
EE1	eldoLED ECOdrive 1%, 0-10v, Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v, Linear
ES1	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
ES2	eldoLED SOLOdrive 0.1%, 0-10v, Linear
OL5	eldoLED Optotronic 1%, 0-10v, AUX , Dim to Off
PL5	Advance Xitanium 1%, 0-10v, AUX, Dim to Off
DALI Drivers	
EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
OD1	eldoLED Optotronic 1%, DEXAL, DALI 2, DT6, Self powered link
PR1	Advance Xitanium SR, DALI 2, Self powered link
Lutron Drivers	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Driv	ers
PS1	Advance Xitanium Step Dimming 50%/100%
EH1	ERP 1%, Line Voltage and ELV (requires 120v)

Circuiting

- Select fixture circuiting from options below
- Some CONVERJ 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

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
- 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

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

For Approximate Batter	y Lumen Output
------------------------	----------------

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 120 (LPW) = 1200 battery lumen output

Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery
- Emergency circuit only, 10w integral battery

Ordering Code: 1-1FSB Ordering Code: E-1ILL

Finish

• Pre-painted white polyester polymer finish, optional paint after fabrication (PAF) option available

W	White
WW	VVIIILO

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Fixture Options

Additional options to enhance the fixture and finish of the product

TW	Through-Wiring
СР	Chicago Plenum
AM	Antimicrobial Paint
FW6	Flex Whip 6'
GLR	Internal Fast Blow Fuse
GMF	Internal Slow Blow Fuse
ВА	Buy American Act Compliant

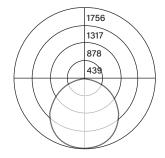
Controls

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

Photometrics

Satine Lens

Test # KPL2015-92 Catalog # CJ22-A-840HO Lumens Watts 38.6 Efficacy



Candela Distribution

Vert	Horizontal Angle
A I -	

	0	22.5	45	67.5	90
0	1755	1755	1755	1755	1755
5	1749	1749	1747	1745	1743
10	1722	1722	1723	1723	1722
15	1677	1680	1683	1687	1687
20	1616	1621	1629	1637	1641
25	1541	1546	1559	1572	1579
30	1448	1453	1475	1494	1502
35	1344	1355	1378	1401	1410
40	1233	1242	1265	1293	1308
45	1107	1116	1141	1169	1184
50	973	983	1006	1035	1044
55	833	841	862	893	893
60	692	693	708	733	743
65	540	543	556	579	589
70	381	389	408	429	429
75	257	261	282	305	319
80	136	147	172	196	208
85	47	61	79	86	87
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	5028	5183	5375
55	4664	4824	5000
65	4104	4225	4477
75	3194	3496	3955
85	1750	2923	3190

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

CJ22_LED_SPEC_JUNE2025 pg. 5



Approvals & Certifications

Construction: Formed 20 gauge cold rolled steel housing. Highly reflective die-formed white painted reflector. Wiring access available on top of housing. Captive and hinged center lens 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 15 lbs

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. 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.

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.

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 Color Temperature & 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) and 277 volt (2). 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 25C ambient operating conditions. Ambient operating range: -20°F/-30°C to 91°F/33°C.

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

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.

Finish: Powder coat white painted finish

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: 15 lbs maximum - Surface Mount Box adds 10 lbs.

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

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