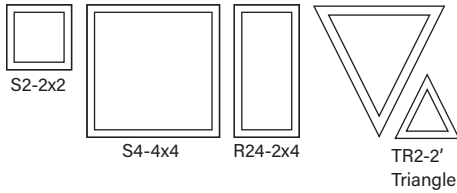


EDGE FORMS

MINI

1" Suspended Direct Form

Form Sizes



Key Features

- Minimalist geometric pendants that emphasize negative space while providing striking, functional illumination
- Single piece housing, available in 2x2, 2x4, 4x4 and triangular forms
- Co-extruded narrow 1.5" lens provides smooth uniform lines of light
- Integral driver
- Family offering available in suspended and recessed applications
- Product transparency with third-party verified Living Building Challenge (LBC) Declared
- Buy American Act Compliant



Example Part #: EX12DF-HE-N-835HO-AS48JB-S2-U-FSD-1-0-W

EX12DF - **-N** - **-** - **-** - **-** - **-** - **-** - **-** - **-** - **-** - **-0** - **-**

DIRECT SHIELDING INDIRECT SHIELDING CRI, CCT & OUTPUT MOUNTING FORM VOLTAGE DRIVER CIRCUITING BATTERY & EMERGENCY FINISH

---	N	-----	-----
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE ¹	MOUNTING ²
A - Satine Lens HE - High Efficiency Lens <i>Shielding pg. 2</i>	N - None <i>Shielding pg. 2</i>	_27_ - 2700K LO - 250 lms/ft _30_ - 3000K MO - 500 lms/ft _35_ - 3500K HO - 750 lms/ft _40_ - 4000K VHO - 1000 lms/ft CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2-3</i>	AS__JB - AC to J Box AS__ST - AC to Structure AH__JB - AC single canopy hub to J Box AH__ST - AC single canopy hub to Structure <i>Mounting pg. 3</i>

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FORM	VOLTAGE	DRIVER	CIRCUITING
S2 - 2' x 2' Square S4 - 4' x 4' Square R24 - 2' x 4' Rectangle TR2 - Triangle with 2' sides TR4 - Triangle with 4' sides <i>Form pg. 4</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V <i>Voltage pg. 4</i>	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) <i>Remote Drivers</i> FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 4</i>	1 - Single Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 5</i>

-	---	
BATTERY & EMERGENCY	FINISH	CONTROLS
0 - None	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult factory for more information.</i>

¹When specifying CRI- CCT & OUTPUT the first _ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending ___ are for specifying output, example **HO** - High Output. See output charts for more information. ²Specify AC length standard AC is 48" Example: AS48JB.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Shielding

DIRECT		INDIRECT
A	HE	N
Satine Lens	High Efficiency Lens ~20-25% Higher LPW than Satine	None

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 90 CRI = R9≥50
- Total delivered lumens per form shown on table below.
Lumens per foot; LO - 250lms/ft, MO - 500lms/ft, HO - 750lms/ft and VHO - 1000lms/ft

Custom Output - Lumens OR Wattage

CL_____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens as PER FOOT between standard offering listed below. Lumens are specified per color temp
CW_____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts as PER FOOT between standard offering listed below.

Direct 80 CRI Square and Rectangle

Color	Output	S2 - 2x2 Square						S4 - 4x4 Square						R24 - 2x4 Rectangle					
		A Lens			HE Lens			A Lens			HE Lens			A Lens			HE Lens		
		Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts
3000K	830LO	2000	83	24.0	2000	106	18.9	4000	83	48.0	4000	106	37.8	3000	83	36.0	3000	106	28.3
	830	4000	92	43.3	4000	116	34.6	8000	92	86.6	8000	116	69.1	6000	92	64.9	6000	116	51.8
	830HO	6000	94	64.0	6000	115	52.0	12000	94	128.0	12000	115	104.0	9000	94	96.0	9000	115	78.0
	830VHO	8000	93	85.6	8000	118	67.7	16000	93	171.3	16000	118	135.4	12000	93	128.5	12000	118	101.5
	835LO	2000	86	23.3	2000	109	18.3	4000	86	46.6	4000	109	36.6	3000	86	34.9	3000	109	27.5
3500K	835	4000	95	41.9	4000	119	33.5	8000	95	83.8	8000	119	67.0	6000	95	62.9	6000	119	50.2
	835HO	6000	97	62.0	6000	119	50.4	12000	97	123.9	12000	119	100.7	9000	97	92.9	9000	119	75.5
	835VHO	8000	97	82.8	8000	122	65.5	16000	97	165.7	16000	122	131.0	12000	97	124.2	12000	122	98.3
	840LO	2000	86	23.3	2000	109	18.3	4000	86	46.6	4000	109	36.6	3000	86	34.9	3000	109	27.5
4000K	840	4000	95	41.9	4000	119	33.5	8000	95	83.8	8000	119	67.0	6000	95	62.9	6000	119	50.2
	840HO	6000	97	62.0	6000	119	50.4	12000	97	123.9	12000	119	100.7	9000	97	92.9	9000	119	75.5
	840VHO	8000	97	82.8	8000	122	65.5	16000	97	165.7	16000	122	131.0	12000	97	124.2	12000	122	98.3

Direct 90 CRI Square and Rectangle

2700K	927LO	2000	73	27.5	2000	86	23.2	4000	73	54.9	4000	86	46.4	3000	73	41.2	3000	86	34.8
	927	4000	74	53.7	4000	96	41.7	8000	74	107.5	8000	96	83.4	6000	74	80.6	6000	96	62.6
	927HO	6000	77	78.1	6000	97	61.7	12000	77	156.2	12000	97	123.3	9000	77	117.1	9000	97	92.5
	927VHO	N/A			8000	97	82.4	N/A			16000	97	164.8	N/A			12000	97	123.6
3000K	930LO	2000	79	25.2	2000	94	21.3	4000	79	50.4	4000	94	42.6	3000	79	37.8	3000	94	31.9
	930	4000	81	49.2	4000	102	39.0	8000	81	98.4	8000	102	78.1	6000	81	73.8	6000	102	58.6
	930HO	6000	83	72.1	6000	104	57.4	12000	83	144.3	12000	104	114.9	9000	83	108.2	9000	104	86.2
	930VHO	8000	81	98.5	8000	106	75.5	16000	81	197.0	16000	106	150.9	12000	81	147.7	12000	106	113.2
	935LO	2000	79	25.3	2000	94	21.4	4000	79	50.6	4000	94	42.7	3000	79	37.9	3000	94	32.0
3500K	935	4000	81	49.4	4000	102	39.2	8000	81	98.8	8000	102	78.4	6000	81	74.1	6000	102	58.8
	935HO	6000	83	72.4	6000	104	57.7	12000	83	144.9	12000	104	115.3	9000	83	108.7	9000	104	86.5
	935VHO	8000	81	98.8	8000	106	75.8	16000	81	197.6	16000	106	151.6	12000	81	148.2	12000	106	113.7
	940LO	2000	79	25.3	2000	94	21.4	4000	79	50.6	4000	94	42.7	3000	79	37.9	3000	94	32.0
4000K	940	4000	81	49.4	4000	102	39.2	8000	81	98.8	8000	102	78.4	6000	81	74.1	6000	102	58.8
	940HO	6000	83	72.4	6000	104	57.7	12000	83	144.9	12000	104	115.3	9000	83	108.7	9000	104	86.5
	940VHO	8000	81	98.8	8000	106	75.8	16000	81	197.6	16000	106	151.6	12000	81	148.2	12000	106	113.7

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Direct 80 CRI Triangle

	Color	Output											
		TR2 - Triangle with 2' sides						TR4 - Triangle with 4' sides					
		A Lens			HE Lens			A Lens			HE Lens		
		Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts
830LO	3000K	1500	83	18.0	1500	106	14.2	3000	83	36.0	3000	106	28.3
830		3000	92	32.5	3000	116	25.9	6000	92	64.9	6000	116	51.8
830HO		4500	94	48.0	4500	115	39.0	9000	94	96.0	9000	115	78.0
830VHO		6000	93	64.2	6000	118	50.8	12000	93	128.5	12000	118	101.5
835LO	3500K	1500	86	17.5	1500	109	13.7	3000	86	34.9	3000	109	27.5
835		3000	95	31.4	3000	119	25.1	6000	95	62.9	6000	119	50.2
835HO		4500	97	46.5	4500	119	37.8	9000	97	92.9	9000	119	75.5
835VHO		6000	97	62.1	6000	122	49.1	12000	97	124.2	12000	122	98.3
840LO	4000K	1500	86	17.5	1500	109	13.7	3000	86	34.9	3000	109	27.5
840		3000	95	31.4	3000	119	25.1	6000	95	62.9	6000	119	50.2
840HO		4500	97	46.5	4500	119	37.8	9000	97	92.9	9000	119	75.5
840VHO		6000	97	62.1	6000	122	49.1	12000	97	124.2	12000	122	98.3

Direct 90 CRI Triangle

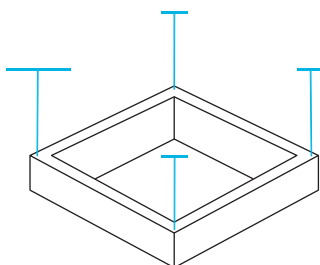
927LO	2700K	1500	73	20.6	1500	86	17.4	3000	73	41.2	3000	86	34.8
927		3000	74	40.3	3000	96	31.3	6000	74	80.6	6000	96	62.6
927HO		4500	77	58.6	4500	97	46.2	9000	77	117.1	9000	97	92.5
927VHO			N/A		6000	97	61.8		N/A		12000	97	123.6
930LO	3000K	1500	79	18.9	1500	94	16.0	3000	79	37.8	3000	94	31.9
930		3000	81	36.9	3000	102	29.3	6000	81	73.8	6000	102	58.6
930HO		4500	83	54.1	4500	104	43.1	9000	83	108.2	9000	104	86.2
930VHO		6000	81	73.9	6000	106	56.6	12000	81	147.7	12000	106	113.2
935LO	3500K	1500	79	19.0	1500	94	16.0	3000	79	37.9	3000	94	32.0
935		3000	81	37.1	3000	102	29.4	6000	81	74.1	6000	102	58.8
935HO		4500	83	54.3	4500	104	43.3	9000	83	108.7	9000	104	86.5
935VHO		6000	81	74.1	6000	106	56.8	12000	81	148.2	12000	106	113.7
940LO	4000K	1500	79	19.0	1500	94	16.0	3000	79	37.9	3000	94	32.0
940		3000	81	37.1	3000	102	29.4	6000	81	74.1	6000	102	58.8
940HO		4500	83	54.3	4500	104	43.3	9000	83	108.7	9000	104	86.5
940VHO		6000	81	74.1	6000	106	56.8	12000	81	148.2	12000	106	113.7

Mounting

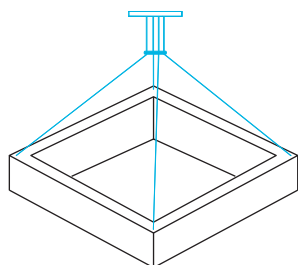
- Must specify cable length in ordering code (AS48G1), either 48" or 120" standard, field adjustable
- Power cord attached at factory
- Aircraft cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies match fixture finish, power cords are white or black depending on fixture

- finish. See Finish section for additional details.
- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation
- Remote box will be included for all specifications that include driver OTHER THAN the EL1. See Installation Instructions for more specific information about mounting

AS_JB | **AS_ST**
Multiple aircraft cables from fixture to J box or Structure



AH_JB | **AH_ST**
Multiple aircraft cables from fixture to a central hub J box or Structure



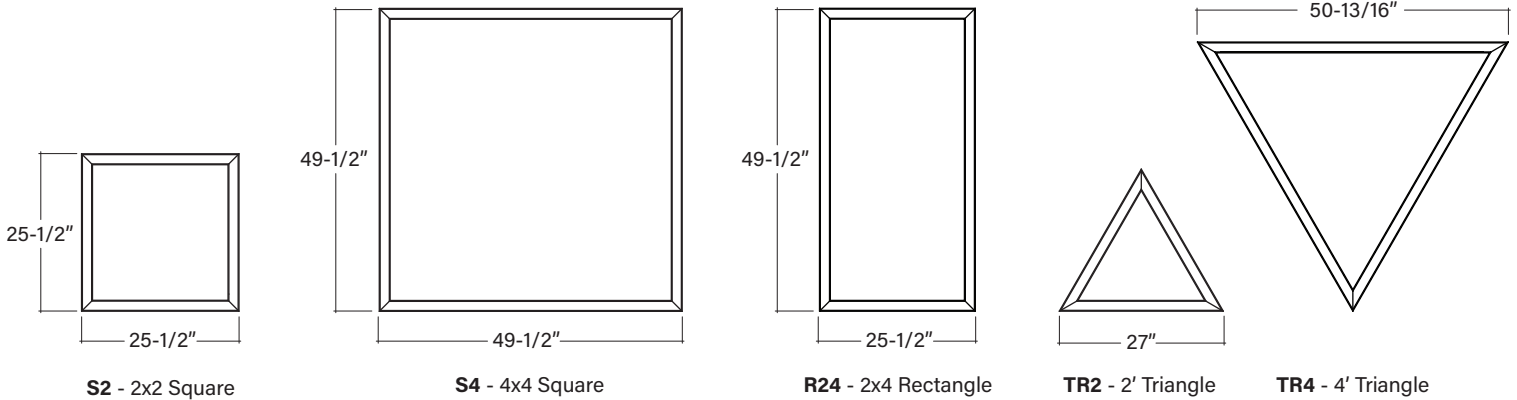
Central Hub Canopy

- The central hub canopy (AH) can be installed either below the ceiling plane or semi-recessed into the ceiling for a flush mount installation
- Standard kit can be installed either way
- Flush canopy installation is not available for fixtures installed below a grid rail





Form



Voltage

- Some EDGE mini 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 = EL1 1% dimming, 0-10V
- EL1 driver is integral to the fixture housing. Remote box necessary for all drivers OTHER THAN the EL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- eldoLED Optotronic and Lutron Drivers have a remote distance limitation of 10'
- eldoLED ECOdrive/SOLOdrive and Advance Drivers have an average remote distance limitation of 50'. Consult Factory for specific configurations
- REMOTE BOX(ES) CONFIGURATIONS DEPENDENT ON LUMEN PACKAGE AND FORM SIZE. Contact factory for more information
- Some EDGE FORM mini configurations will not accommodate all driver options; consult with factory

Integral Driver

EL1 ERP Power 1%, 0-10v, requires 120 or 277

Remote Driver

0-10V Drivers

FSD	Factory Select Driver (1%, 0-10v)
PL2	Signify 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 option
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, 0.1% Linear

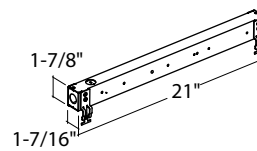
DALI Drivers

EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)

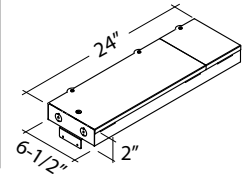
Lutron Drivers

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

Slim Remote Box



Standard Remote Box



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Circuiting

- Some EX12DF configurations will not accommodate all circuiting options, consult with factory
- Section wiring not available within an individual Form. Emergency circuit and Night Light circuit options are for designation purposes only

1	Single Circuit
E	Emergency Circuit
N	Night Light Circuit

Battery and/or Emergency

0	No battery or specific emergency
----------	----------------------------------

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White <i>(white cord/white canopy)</i>
S	Metallic Silver <i>(white cord/silver canopy)</i>
BL	Textured Black <i>(black cord/black canopy)</i>
BR	Bronze <i>(white cord/bronze canopy)</i>
GR	Graphite <i>(white cord/graphite canopy)</i>
CC	Custom Color <i>(white cord/color match canopy)</i>

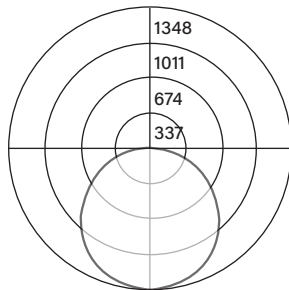
Controls

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

Photometrics

High Efficiency Lens

Test #	Scaled from KPL2015-57
Catalog #	EX12D-A-840VHO-4
Lumens	3819
Watts	39.7
Efficacy	96 LPW



NOTE: For accurate light calculations of Edge Forms using lighting design software, Pinnacle recommends assembling a geometric arrangement from individual 2-foot and/or 4-foot Edge 1 IES files. Refer to the Forms IES Instructions for more details.



Applications & Certificates

Construction: Welded single piece extruded aluminum housing.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance.

Mounting: Aircraft cable suspension available with Multiple Canopy or Central Hub Canopy options. Multiple Canopy (AS): Cables at each fixture corner connect to individual 5" power and 2" non-power ceiling canopies. Central Hub Canopy (AH): Cables at each fixture corner converge into a single 5" central ceiling canopy hub for a minimalist look. Refer to installation instructions for appropriate ceiling detail.

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. TM-21-21 Lifetime Rating L70 = >72,000 hours, L90 = 64,700 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Lumen Output: Not all lumen packages available in every CRI/CCT. 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 PL4 or OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard INTEGRAL Driver Option is EL1. All other driver options will be in remote box. EL1 designed for use with 120v or 277v on. 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 115°F/46°C. For more driver options, see Pinnacle Resource Guide. Some EDGE configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Emergency circuit (E), Night Light circuit (N). Some EDGE configurations will not accommodate all circuiting options; consult with factory.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: Mod options available, consult with factory.

Labels: UL and cUL 1598 listed. Approved for dry/damp location unless otherwise noted.

Sustainability: All models are Living Building Challenge (LBC) Declared with third-party verification. The Declare Label from ILFI provides transparent insights into materials, sourcing, and environmental impact, promoting informed, sustainable choices that benefit both people and the planet. View the label [here](#).

Fixture Weight: Maximum fixture weight is 14lbs for 2x2, 28lbs for 4x4, 21lbs for 2x4, 11lbs for TR2 and 20lbs for TR4.

Buy American Act Compliant

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