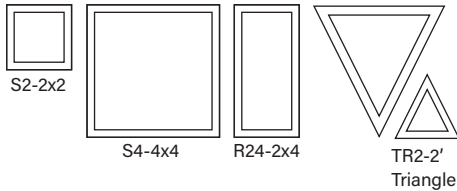


# EDGE FORMS

## MINI

## 1" Suspended Indirect 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 #: EX12IF-N-HE-835HO-S2-AS48JB-U-FSD-1-0-W

<b>EX12IF</b>	<b>-N</b>	<b>-HE</b>						<b>-0</b>	
	DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT	FORM	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY

N	HE	-----	-----
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE <sup>1</sup>	FORM
<b>N</b> - None <i>Shielding pg. 2</i>	<b>HE</b> - High Efficiency Lens <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>	<b>LO</b> - 250 lms/ft <b>MO</b> - 500 lms/ft <b>HO</b> - 750 lms/ft <b>VHO</b> - 1000 lms/ft <b>S2</b> - 2' x 2' Square <b>S4</b> - 4' x 4' Square <b>R24</b> - 2' x 4' Rectangle <b>TR2</b> - Triangle with 2' legs <b>TR4</b> - Triangle with 4' legs <i>Form pg. 3</i>

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<b>MOUNTING<sup>2</sup></b>	<b>VOLTAGE</b>	<b>DRIVER</b>	<b>CIRCUITING</b>
<b>AS__JB</b> - AC to J Box <b>AS__ST</b> - AC to Structure <b>AH__JB</b> - AC single canopy hub to J Box <b>AH__ST</b> - AC single canopy hub to Structure <i>Mounting pg. 3</i>	<b>U</b> - Universal ( <i>120 thru 277V</i> ) <b>1</b> - 120V <b>2</b> - 277V <i>Voltage pg. 3</i>	<b>FSD</b> - Factory Select Driver ( <i>1%, 0-10v</i> ) <b>PL2</b> - Advance Xitanium ( <i>1%, 0-10v</i> ) <b>OL2</b> - eldoLED ( <i>1%, 0-10v</i> ) <b>EE1</b> - eldoLED ECOdrive ( <i>1%, 0-10v</i> ) <b>ES1</b> - eldoLED SOLOdrive ( <i>0.1%, 0-10v</i> ) <b>LH1</b> - Lutron Hi-lume ( <i>1%, EcoSystem</i> ) <i>Driver pg. 4</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>

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<b>BATTERY &amp; EMERGENCY</b>	<b>FINISH</b>	<b>CONTROLS</b>
<b>0</b> - None	<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 4</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult factory for more information.</i>

<sup>1</sup>When 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. <sup>2</sup>Specify AC length standard AC is 48" Example: AS48JB.

*Specifications and dimensions subject to change without notice. Specification sheets that appear on [pinnacle-ltq.com](http://pinnacle-ltq.com) are the most recent version and supersede all other previously printed or electronic versions.*



## Shielding

### DIRECT

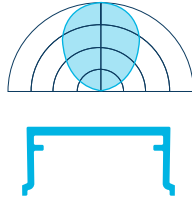
#### N

None

### INDIRECT

#### HE

High Efficiency



## 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

<b>CL</b> _____	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
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts as PER FOOT between standard offering listed below.

## Indirect 80 CRI

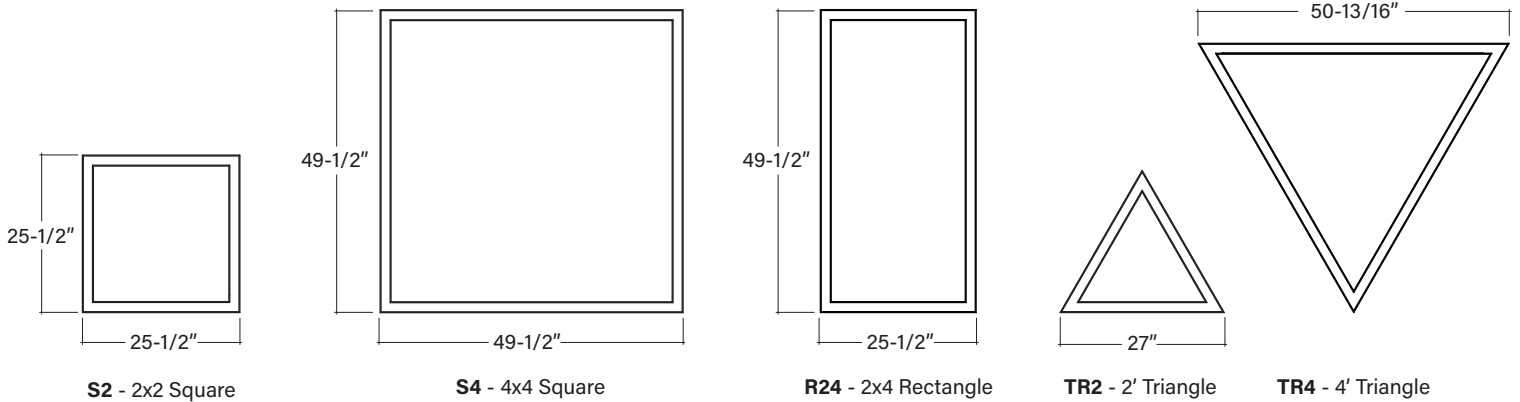
	Color	Output														
		S2 - 2x2 Square			S4 - 4x4 Square			R24 - 2x4 Rectangle			TR2 - Triangle 2' Sides			TR4 - Triangle 4' Sides		
		HE Lens			HE Lens			HE Lens			HE Lens			HE Lens		
		Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts
<b>830LO</b>	3000K	2000	106	18.9	4000	106	37.8	3000	106	28.3	1500	106	14.2	3000	106	28.3
<b>830</b>		4000	116	34.6	8000	116	69.1	6000	116	51.8	3000	116	25.9	6000	116	51.8
<b>830HO</b>		6000	115	52.0	12000	115	104.0	9000	115	78.0	4500	115	39.0	9000	115	78.0
<b>830VHO</b>		8000	118	67.7	16000	118	135.4	12000	118	101.5	6000	118	50.8	12000	118	101.5
<b>835LO</b>	3500K	2000	109	18.3	4000	109	36.6	3000	109	27.5	1500	109	13.7	3000	109	27.5
<b>835</b>		4000	119	33.5	8000	119	67.0	6000	119	50.2	3000	119	25.1	6000	119	50.2
<b>835HO</b>		6000	119	50.4	12000	119	100.7	9000	119	75.5	4500	119	37.8	9000	119	75.5
<b>835VHO</b>		8000	122	65.5	16000	122	131.0	12000	122	98.3	6000	122	49.1	12000	122	98.3
<b>840LO</b>	4000K	2000	109	18.3	4000	109	36.6	3000	109	27.5	1500	109	13.7	3000	109	27.5
<b>840</b>		4000	119	33.5	8000	119	67.0	6000	119	50.2	3000	119	25.1	6000	119	50.2
<b>840HO</b>		6000	119	50.4	12000	119	100.7	9000	119	75.5	4500	119	37.8	9000	119	75.5
<b>840VHO</b>		8000	122	65.5	16000	122	131.0	12000	122	98.3	6000	122	49.1	12000	122	98.3

## Indirect 90 CRI

<b>927LO</b>	2700K	2000	86	23.2	4000	86	46.4	3000	86	34.8	1500	86	17.4	3000	86	34.8
<b>927</b>		4000	96	41.7	8000	96	83.4	6000	96	62.6	3000	96	31.3	6000	96	62.6
<b>927HO</b>		6000	97	61.7	12000	97	123.3	9000	97	92.5	4500	97	46.2	9000	97	92.5
<b>927VHO</b>		8000	97	82.4	16000	97	164.8	12000	97	123.6	6000	97	61.8	12000	97	123.6
<b>930LO</b>	3000K	2000	94	21.3	4000	94	42.6	3000	94	31.9	1500	94	16.0	3000	94	31.9
<b>930</b>		4000	102	39.0	8000	102	78.1	6000	102	58.6	3000	102	29.3	6000	102	58.6
<b>930HO</b>		6000	104	57.4	12000	104	114.9	9000	104	86.2	4500	104	43.1	9000	104	86.2
<b>930VHO</b>		8000	106	75.5	16000	106	150.9	12000	106	113.2	6000	106	56.6	12000	106	113.2
<b>935LO</b>	3500K	2000	94	21.4	4000	94	42.7	3000	94	32.0	1500	94	16.0	3000	94	32.0
<b>935</b>		4000	102	39.2	8000	102	78.4	6000	102	58.8	3000	102	29.4	6000	102	58.8
<b>935HO</b>		6000	104	57.7	12000	104	115.3	9000	104	86.5	4500	104	43.3	9000	104	86.5
<b>935VHO</b>		8000	106	75.8	16000	106	151.6	12000	106	113.7	6000	106	56.8	12000	106	113.7
<b>940LO</b>	4000K	2000	94	21.4	4000	94	42.7	3000	94	32.0	1500	94	16.0	3000	94	32.0
<b>940</b>		4000	102	39.2	8000	102	78.4	6000	102	58.8	3000	102	29.4	6000	102	58.8
<b>940HO</b>		6000	104	57.7	12000	104	115.3	9000	104	86.5	4500	104	43.3	9000	104	86.5
<b>940VHO</b>		8000	106	75.8	16000	106	151.6	12000	106	113.7	6000	106	56.8	12000	106	113.7



## Form



## Mounting

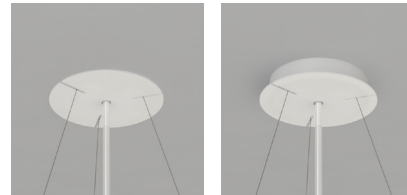
- Must specify cable length in ordering code (AS48G1), either 48" or 120" standard, field adjustable
- Power cord attached at factory
- Aircraft cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

- 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

AS_JB	AS_ST	AH_JB	AH_ST
Multiple aircraft cables from fixture to J box or Structure		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



## Voltage

- Some EX12IF configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 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 EX12IF 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 option
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v, Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v, Linear
<b>ES1</b>	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0.1%, 0-10v, Linear

### DALI Drivers

<b>EE3</b>	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
<b>ES3</b>	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6

### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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## Circuiting

- Some EX12IF 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

<b>1</b>	Single Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

## Battery and/or Emergency

<b>0</b>	No battery or specific emergency
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## 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

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

## Controls

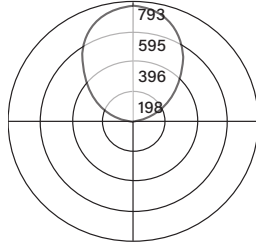
- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information



## Photometrics

### High Efficiency Lens

Test #	ITL86999
Catalog #	EX12-N-HE-840-4
Lumens	1911 lm
Watts	19 W
Efficacy	101 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:** Fully indirect. Diffuse snap-in acrylic indirect 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](http://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 Driver Option is Factory Select Driver 0-10V, 1% = FSD. 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.

**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.