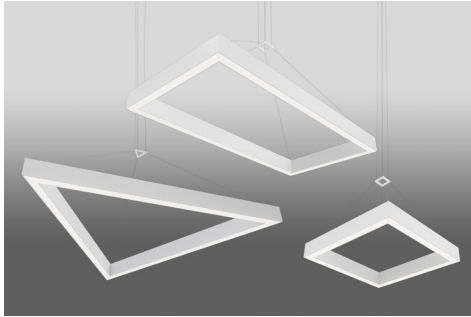
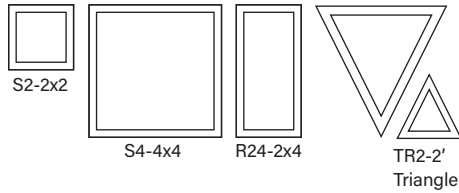


EDGE FORMS

EX1DF

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 #: EX1DF-HE-N-835HO-AS48JB-S2-U-FSD-1-0-W

EX1DF - **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 _30_ - 3000K _35_ - 3500K _40_ - 4000K 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 3 - 347V <i>Voltage pg. 4</i>	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) OL4 - eldoLED 347v (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 (<i>entire fixture</i>) N - Night Light (<i>entire fixture</i>) <i>Circuiting pg. 5</i>

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BATTERY & EMERGENCY ³	FINISH	CONTROLS
0 - None 1FSB - Factory Select Battery 1FSG - Factory Select ALCR 1GI - Iota ETS DR 1GB - Bodine GTD 1PLL - Bodine 10W 1ILL - Iota 10W <i>Battery and Emergency pg. 5</i>	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. ³Maximum one battery/emergency device per form. Not available in S2 or TR2

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.

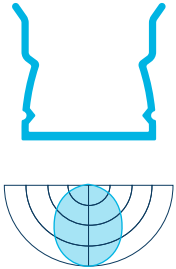


Shielding

DIRECT

A

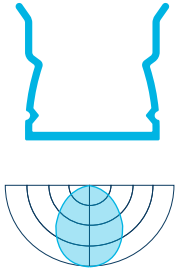
Satine Lens



HE

High Efficiency Lens

~20-25% Higher LPW than Satine



INDIRECT

N

None

Source

- 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 Forms

	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
830LO	3000K	2000	83	24.0	2000	106	18.9	4000	83	48.0	4000	106	37.8	3000	83	36.0	3000	106	28.3
830MO		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	3500K	2000	86	23.3	2000	109	18.3	4000	86	46.6	4000	109	36.6	3000	86	34.9	3000	109	27.5
835MO		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	4000K	2000	86	23.3	2000	109	18.3	4000	86	46.6	4000	109	36.6	3000	86	34.9	3000	109	27.5
840MO		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 Forms

927LO	2700K	2000	73	27.5	2000	86	23.2	4000	73	54.9	4000	86	46.4	3000	73	41.2	3000	86	34.8
927MO		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		8000	74	108.0	8000	97	82.4	16000	74	216.0	16000	97	164.8	12000	74	162.0	12000	97	123.6
930LO	3000K	2000	79	25.2	2000	94	21.3	4000	79	50.4	4000	94	42.6	3000	79	37.8	3000	94	31.9
930MO		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	3500K	2000	79	25.3	2000	94	21.4	4000	79	50.6	4000	94	42.7	3000	79	37.9	3000	94	32.0
935MO		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	4000K	2000	79	25.3	2000	94	21.4	4000	79	50.6	4000	94	42.7	3000	79	37.9	3000	94	32.0
940MO		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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EX1DF_LED_SPEC_JAN2025



Direct 80 CRI Triangle Forms

	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
830MO		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
835MO		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
840MO		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

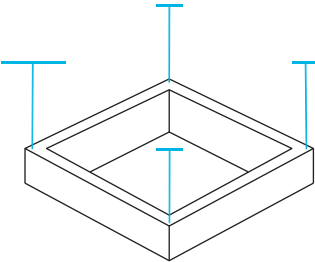
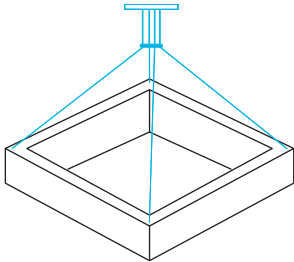
Direct 90 CRI Triangle Forms

927LO	2700K	1500	73	20.6	1500	86	17.4	3000	73	41.2	3000	86	34.8
927MO		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		6000	74	81.0	6000	97	61.8	12000	74	162.0	12000	97	123.6
930LO	3000K	1500	79	18.9	1500	94	16.0	3000	79	37.8	3000	94	31.9
930MO		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
935MO		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
940MO		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

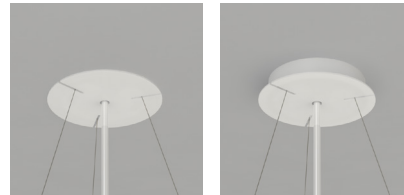
- Must specify cable length in ordering code (AS48G1), either 48" or 120" standard, field adjustable
- Power cord attached at factory
- Aircraft cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

- 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

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	
			

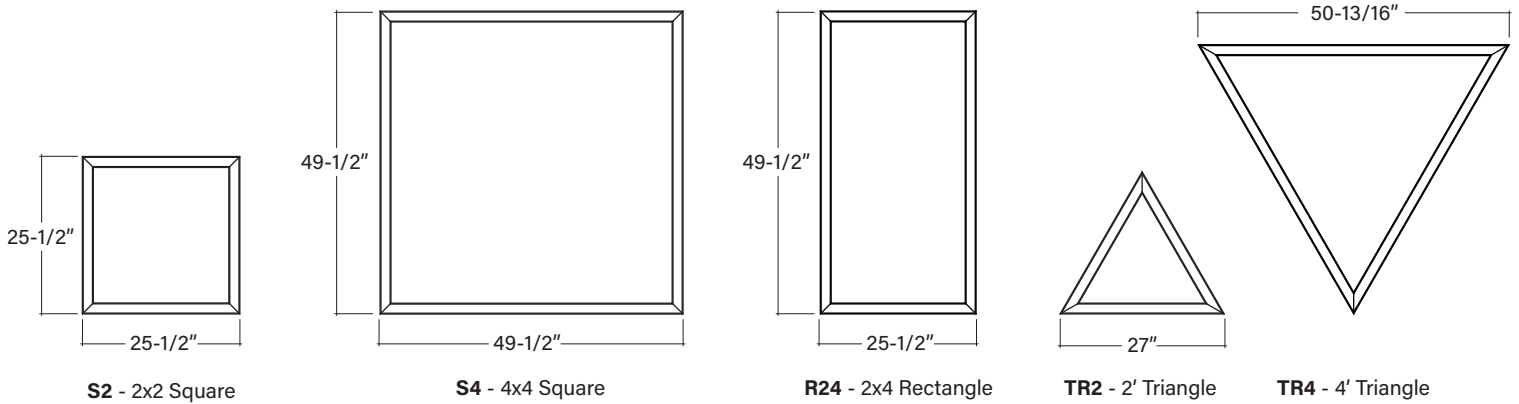
Central Hub Canopy

- 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





Form



Voltage

- Some EX1DF 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 EX1DF 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 option
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 0.1%, 0-10v, Logarithmic
ES2	eldoLED SOLOdrive 0.1%, 0-10v, Linear
DALI Drivers	
EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
Lutron Drivers	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1



How to specify Circuiting, Battery and Emergency

- 1
 - Select fixture circuiting from options below
 - Some EX1DF 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

Circuiting

1	Single Circuit
E	Emergency Circuit only
N	Night Light Circuit only

- 2 + 3
 - Battery and emergency section options are available in addition to fixture circuit
 - Select battery and emergency options below; factory shop drawing required
 - Some EX1DF configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency *If Required*

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

Battery

- Not available in S2 or TR2 maximum one battery per form
- Battery powers (one) 4ft section within form during the loss of normal power
- 90 minute battery runtime; test button is remote to fixture
- PLL and ILL not available with VHO and 927HO
- For more battery options see [Pinnacle Resource Guide](#)

0	No Battery
1FSB	Factory Select Battery 10w, Integral Lithium
1FSBST	Factory Select Battery 10w, Integral Lithium, Self Testing
1PLL	Bodine 10w Integral Lithium, Self Testing
1ILL	Iota 10w Integral Lithium, Self Testing

For Approximate Battery Lumen Output

- Multiply fixture LPW x battery wattage shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Emergency

- Not available in S2 or TR2. Maximum one EM device per form
- Emergency device powers entire form during the loss of normal power
- Combine battery and emergency ordering codes if both options are selected

1FSG	Factory Select ALCR, Emergency Control Device, UNV
1GI	Iota ETS-DR, Emergency Control Device, UNV
1GB	Bodine GTD, Emergency Control Device, 120v or 277v

Battery OR Emergency Ordering Examples

- | | |
|--|-----------------------|
| • Single circuit, 10w Integral Battery | Ordering Code: 1-1FSB |
| • Emergency only, 10w Integral Battery | Ordering Code: E-1PLL |
| • Single circuit, GTD required | Ordering Code: 1-1GB |

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

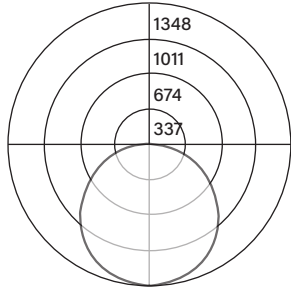
- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information



Photometrics

High Efficiency Lens

Test # KPL2015-57
Catalog # EX1D-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 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.

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 remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. 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.