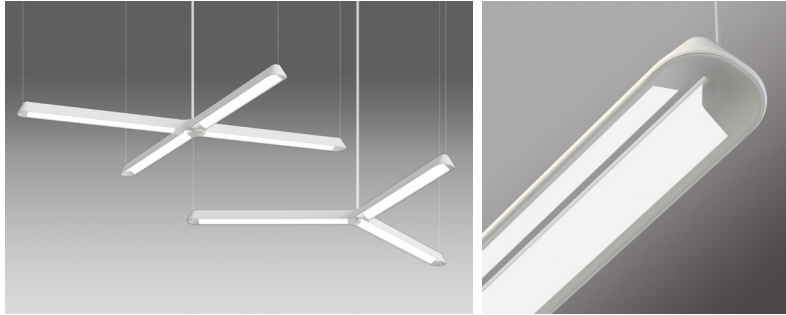
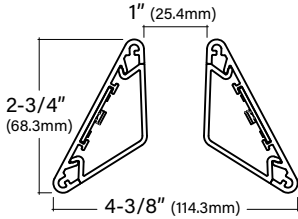




SORREL FORMS

S3DF

Y and X Suspended Direct/Indirect Form



Key Features

- Open triangular shape creates unique aesthetic while providing functional output
- One-piece housing forms in 90° 4-leg (X) and 120° 3-leg (Y)
- Combined suspension and power cable for clean installation
- A lens distribution is 80% direct /20% indirect and D lens is 85% direct /15% indirect



Example Part #: S3DF-A-835HO-X3-CAC48JB-U-FSD-1-0-W

S3DF - HOUSING - SHIELDING - CRI, CCT & OUTPUT - FORM - MOUNTING - VOLTAGE - REMOTE DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH

SHIELDING	CRI, CCT & OUTPUT ¹	FORM	MOUNTING ²
A - Satine Dual Lens D - Diffuse Single Piece Lens <i>Shielding pg. 2</i>	_27_ - 2700K _30_ - 3000K _35_ - 3500K _40_ - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output Options pg. 2</i>	Y2 - Y Shape with 2' legs Y3 - Y Shape with 3' legs X2 - X Shape with 2' legs X3 - X Shape with 3' legs <i>Length and Pattern pg. 2-3</i>	CAC_ _G_ - Conductive AC to Grid CAC_ _JB - Conductive AC to J Box <i>Mounting pg. 3</i>
VOLTAGE	REMOTE DRIVER	CIRCUITING	REMOTE BATTERY & EMERGENCY ³
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) PL4 - Advance Xitanium (1%, 0-10v, 347v) OL2 - eldoLED Optotronic (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 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. 4</i>	0 - None _FSB - Factory Select Battery _PLL - Bodine 10W Battery _ILL - Iota 10W Battery _FSG - Factory Select ALCR _GI - Iota ETS DR <i>Battery and Emergency pg. 5</i>
FINISH	FIXTURE OPTIONS ^{4,5}	CONTROLS	
W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	BA - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 5</i>	<i>Pinnacle is able to use solutions from different manufacturers. Consult factory for more information.</i>	

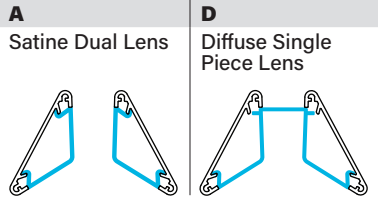
¹When specifying CRI, CCT & OUTPUT the first _ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending _ _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Use _ _ to specify cable length standard AC is **48"** or **120"**; Specify grid: **G1**=15/16", **G9**=9/16" or **GS**=Screw Slot. Example: CAC48G1. ³All Battery and Emergency options are REMOTE. Enter quantity for Battery and Emergency, Example 1PLL. Emergency and Night Light section will be entire fixture. ⁴Compliance is configuration dependent; consult factory for confirmation.

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Shielding

- A - Satine Lens recommended for use when fixture will be more than 24" away from the ceiling
- D - Diffuse Single Piece Lens recommended when fixture will be less than 24" of the ceiling or near a wall



Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI consult factory
- 90 CRI = R9≥50

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL8405500)	Max lumens dependent on color temp. Consult factory for more information
CW _____	Specify CRI, CCT and desired wattage (i.e. CW94032)	For custom wattage consult factory for more information

A Lens - 80 CRI

	Color	Lumens per/ft	A Lens Output¹											
			Y2 - Y shape with 2' legs			Y3 - Y shape with 3' legs			X2 - X shape with 2' legs			X3 - X shape with 3' legs		
			Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts
830LO	3000K	500	3000	116	25.8	4500	116	38.7	4000	116	34.4	6000	116	51.6
830MO	3000K	750	4500	116	38.8	6750	116	58.1	6000	116	51.7	9000	116	77.5
830HO	3000K	1000	6000	117	51.4	9000	117	77.0	8000	117	68.5	12000	117	102.7
835LO	3500K	500	3000	119	25.1	4500	119	37.7	4000	119	33.5	6000	119	50.3
835MO	3500K	750	4500	119	37.7	6750	119	56.6	6000	119	50.3	9000	119	75.4
835HO	3500K	1000	6000	120	50.0	9000	120	75.0	8000	120	66.6	12000	120	100.0
840LO	4000K	500	3000	121	24.7	4500	121	37.1	4000	121	33.0	6000	121	49.5
840MO	4000K	750	4500	121	37.1	6750	121	55.7	6000	121	49.5	9000	121	74.2
840HO	4000K	1000	6000	122	49.0	9000	122	73.6	8000	122	65.4	12000	122	98.1

A Lens - 90 CRI (longer lead times may apply, consult factory)

927LO	2700K	500	3000	95	31.5	4500	95	47.3	4000	95	42.1	6000	95	63.1
927MO	2700K	750	4500	96	47.0	6750	96	70.5	6000	96	62.7	9000	96	94.0
927HO	2700K	1000	6000	95	63.2	9000	95	94.7	8000	95	84.2	12000	95	126.3
930LO	3000K	500	3000	98	30.5	4500	98	45.8	4000	98	40.7	6000	98	61.0
930MO	3000K	750	4500	99	45.5	6750	99	68.2	6000	99	60.6	9000	99	91.0
930HO	3000K	1000	6000	98	61.1	9000	98	91.6	8000	98	81.4	12000	98	122.2
935LO	3500K	500	3000	100	30.0	4500	100	45.0	4000	100	40.0	6000	100	60.0
935MO	3500K	750	4500	101	44.7	6750	101	67.1	6000	101	59.6	9000	101	89.4
935HO	3500K	1000	6000	100	60.1	9000	100	90.1	8000	100	80.1	12000	100	120.1
940LO	4000K	500	3000	103	29.3	4500	103	43.9	4000	103	39.0	6000	103	58.5
940MO	4000K	750	4500	103	43.6	6750	103	65.3	6000	103	58.1	9000	103	87.1
940HO	4000K	1000	6000	103	58.4	9000	103	87.6	8000	103	77.9	12000	103	116.8

¹Lumens and watts based off 48" fixture size.

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Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL8405500)	Max lumens dependent on color temp. Consult factory for more information
CW _____	Specify CRI, CCT and desired wattage (i.e. CW94032)	For custom wattage consult factory for more information

D Lens - 80 CRI

	Color	Lumens per/ft	D Lens Output¹											
			Y2 - Y shape with 2' legs			Y3 - Y shape with 3' legs			X2 - X shape with 2' legs			X3 - X shape with 3' legs		
			Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts	Lumens	LPW	Watts
830LO	3000K	500	3000	122	24.6	4500	122	36.9	4000	122	32.8	6000	122	49.2
830MO	3000K	750	4500	122	36.9	6750	122	55.3	6000	122	49.2	9000	122	73.8
830HO	3000K	1000	6000	123	48.8	9000	123	73.1	8000	123	65.0	12000	123	97.5
835LO	3500K	500	3000	125	23.9	4500	125	35.9	4000	125	31.9	6000	125	47.9
835MO	3500K	750	4500	126	35.8	6750	126	53.7	6000	126	47.8	9000	126	71.7
835HO	3500K	1000	6000	126	47.4	9000	126	71.2	8000	126	63.3	12000	126	94.9
840LO	4000K	500	3000	127	23.6	4500	127	35.3	4000	127	31.4	6000	127	47.1
840MO	4000K	750	4500	128	35.2	6750	128	52.9	6000	128	47.0	9000	128	70.5
840HO	4000K	1000	6000	129	46.7	9000	129	70.0	8000	129	62.2	12000	129	93.3

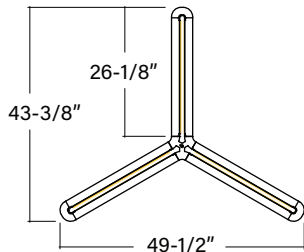
D Lens - 90 CRI (longer lead times may apply, consult factory)

927LO	2700K	500	3000	100	30.0	4500	100	45.0	4000	100	40.0	6000	100	60.1
927MO	2700K	750	4500	101	44.7	6750	101	67.1	6000	101	59.6	9000	101	89.5
927HO	2700K	1000	6000	100	60.1	9000	100	90.1	8000	100	80.1	12000	100	120.1
930LO	3000K	500	3000	103	29.1	4500	103	43.6	4000	103	38.7	6000	103	58.1
930MO	3000K	750	4500	104	43.3	6750	104	64.9	6000	104	57.7	9000	104	86.5
930HO	3000K	1000	6000	103	58.0	9000	103	87.0	8000	103	77.4	12000	103	116.0
935LO	3500K	500	3000	105	28.6	4500	105	42.9	4000	105	38.1	6000	105	57.2
935MO	3500K	750	4500	106	42.6	6750	106	63.8	6000	106	56.7	9000	106	85.1
935HO	3500K	1000	6000	105	57.1	9000	105	85.6	8000	105	76.1	12000	105	114.1
940LO	4000K	500	3000	108	27.9	4500	108	41.8	4000	108	37.1	6000	108	55.7
940MO	4000K	750	4500	109	41.5	6750	109	62.2	6000	109	55.3	9000	109	82.9
940HO	4000K	1000	6000	108	55.6	9000	108	83.3	8000	108	74.1	12000	108	111.1

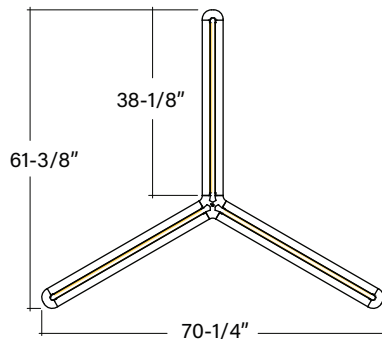
¹Lumen and watts based off 48" fixture size.

Form

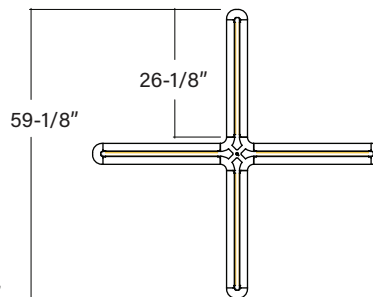
Y2



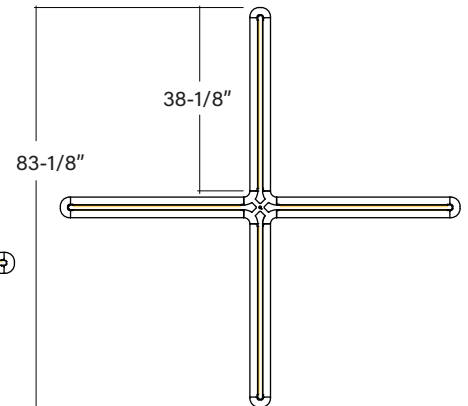
Y3



X2



X3



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Mounting

- Specify cable length in ordering code (CAC48G1)
- Standard specifiable lengths are 48" or 120", consult factory for longer lengths
- End plates and power cord attached at factory
- Canopies are painted to match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details

CAC__G1	Conductive AC to 1" (15/16") T-Bar
CAC__G9	Conductive AC to 9/16" T-Bar
CAC__GS	Conductive AC to Screw Slot T-Bar
CAC__JB	Conductive AC to Junction Box

Mounting Details

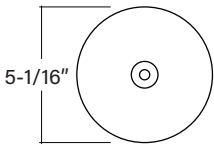
- CAC is an integrated power and suspension cable that is smaller in diameter than a traditional SJT cable. CAC is 2 or 4 conductive cables and suspension, standard power cable (SJT) is 5 conductive cables and no suspension.



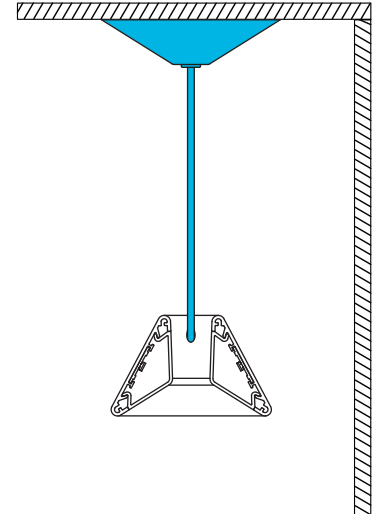
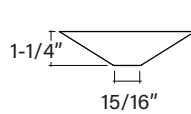
CAC = 3/16" SJT = 3/8"

- A larger power side canopy allows for adjustability of the CAC cable inside of the canopy.

Top View



Side View



Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt

Remote Driver

- Standard Driver Option = FSD 1% dimming, 0-10v
- Driver count dictated by product configuration
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some SORREL configurations will not accommodate all driver options; consult with factory

- 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

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 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

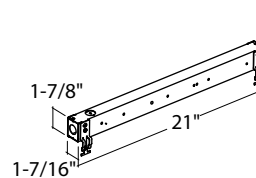
DALI Drivers

EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6

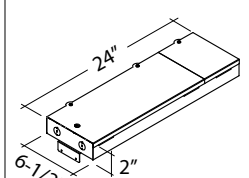
Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-Black 1%, EcoSystem, LDE1
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Slim Remote Box



Standard Remote Box





How to specify Circuiting, Battery and Emergency

1

- Select fixture circuiting from options below
- Some SORREL configurations will not accommodate all circuiting options, consult with factory
- Section wiring not available within an individual Form. Emergency circuit and Nightlight circuit options are for designation purposes only.

Circuiting

1	Single Circuit
E	Emergency Circuit
N	Night Light Circuit

2

+

3

- Battery and emergency options are available in addition to fixture circuit
- Select battery options below; factory shop drawing required
- Some SORREL configurations will not accommodate all circuiting options, consult with factory
- Configurations with battery or emergency device will require Standard Remote Box

Battery and/or Emergency

0	No battery or specific emergency section required
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Battery

- Battery is REMOTE
- Battery operates between 1-4 fixture legs depending on fixture shape and size. For approx. battery lumen output, multiply battery wattage and fixture LPW shown on lumen table.
- Select battery type if required, indicate total QTY. Example 2PLL

_FSB	Factory Select Battery 10w (remote in box)
_FSBST	Factory Select Battery 10w, Self Testing (remote in box)
_ILL	Iota 10w Lithium, Self Testing (remote in box)
_IRC	Iota 10w Dual conduit flex (remote with conduit)
_PLL	Bodine 10w Lithium, Self Testing (remote in box)
_PRD	Bodine 10w Dual conduit flex (remote with conduit)

- 90 minute battery runtime; test button is remote to fixture
- PLL and ILL not available with VHO and 927HO
- For more battery options available, see [Pinnacle Resource Guide](#)

For Approximate Battery Lumen Output

- Multiply battery wattage x fixture LPW shown in Output section
- 10 (watts) x 92.3 (LPW) = 923 battery lumen output

Emergency

- Emergency is REMOTE
- Select emergency type if required, indicate total quantity. Example 1E
- Emergency or Night Light will be entire fixture

_FSG	Factory Select ALCR, Emergency Control Device, UNV
_GI	Iota ETS-DR, Emergency Control Device, UNV

Battery OR Emergency Ordering Examples

- Single circuit, 10w battery Ordering Code: 1-1PLL
- Emergency only, 10w battery Ordering Code: E-1PLL

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 (white cord/white canopy)
S	Metallic Silver (white cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/custom color canopy to match fixture)

Fixture Options

- Domestic content option - compliance is configuration dependent; consult factory for conformation

BA	Buy America(n) Act and/or Build America Buy America Compliant
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Controls

- Pinnacle is able to use solutions from different manufacturers. Consult factory for more information.

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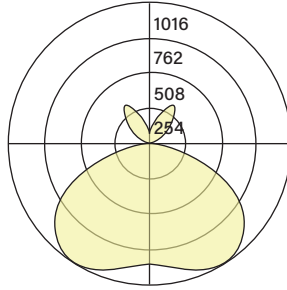
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Photometrics

Satine Dual Lens

Test # REP-103123-01-V1
Catalog # S3D-A-840HO
Lumens 4015
Watts 32.8
Efficacy 122.4



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 or IAS accredited testing laboratory. Testing conducted at 25°C ambient conditions
NOTE: For accurate light calculations of Chute Forms using lighting design software, Pinnacle recommends assembling an arrangement from individual 2-foot or 3-foot Leg Edge 1 IES files. Refer to the Chute Forms IES Instructions for more details.

Applications & Certificates

Construction: 6063-T6 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

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

Mounting: Conductive aircraft cable mount available. Power mount supplied with conductive aircraft cable and round 5" diameter canopy. Non-power supplied with aircraft cable and 2" (50.8mm) canopy. 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. TM-21-21 Lifetime Rating L70 = >102,000 hours, L90 = 60,600 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Not all lumen packages available. 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 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 SORREL configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is 0-10V, 1%. 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 98°F/37°C. For more driver options, see Pinnacle Resource Guide. Some SORREL configurations will not accommodate all driver options.

Remote Mounting Guide (Advance & eldoLED ECODrive/SOLOdrive)

Max Distance	50'	50'+
Y2/Y3/X2/X3	All configurations (16 ga or larger wire recommended)	Contact factory if more than 50' needed

Circuiting: Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Housings cannot be split into multiple circuits. Some SORREL 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. Standard battery and emergency device options will be installed in standard remote box. 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: Consult factory.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL Listed. Low, Medium and High Output lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 22 lbs

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