# Stela Cylindrical LED Luminaire with a Solid Wood Shroud

structura

FIXTURE TYPE: _____

PROJECT NAME: _____



## SPECIFICATIONS:

**CONSTRUCTION**: Housing comprised of machined custom 6005-T61 extrusion with machined 6061-T61 end caps. Solid Accoya wood shroud is assembled through glulam construction and precision machined using CNC technology. Adhesive complies with ASTM D-2559 glulam construction specifications for extreme exposed weather conditions and is waterproof and rated for wet or dry use exposure.

**ELECTRICAL**: Powered by an intergral Class P, 120-277VAC, 0-10V dimmable constant current driver with built in 6kV surge protection. Operating temperature of -40°F to 112°F for SO, MO, and HO installations and -40°C to 95°F for VHO installations.

**OPTICAL SYSTEM**: COB LED has solderless connections for field upgradability. Available in color temperature of 2700, 3000, 3500, and 4000K, >80 CRI. Optical reflectors available in 20°, 30°, 40°, and 60° spot distributions. Covered by UV- and scratch-resistant clear acrylic. Consult factory for additional lumen outputs, color temperatures, or CRIs.

**FINISHES**: Wood pieces are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All exterior aluminum parts are polyester powder coat painted to meet AAMA-2604 standards. See Structura's finish options for available standard finishes. Care and Maintenance

**LISTINGS & RATINGS**: Luminaire CSA listed according to CSA C22.2 No. 250.0-18/UL Standard 1598. Suitable for wet locations. LM-80 test reported L70 > 49,500 hours and calculated L70 > 120,000 hours. IP65 rated when using exterior mounting options.

**WARRANTY**: 5-year warranty on LED and drivers.

C US



Shown with PEN/I/B mounting.


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| Output at 3000K, 80CRI | | | 20° | | 30° | | 40° | | 60° | |
|---|---|---|---|---|---|---|---|---|---|---|
| Output | mA | Wattage | Lumen | Efficacy | Lumen | Efficacy | Lumen | Efficacy | Lumen | Efficacy |
| SO | 225 | 8.5 | 1016 | 119.19 | 1031 | 121.04 | 995 | 116.81 | 971 | 114.00 |
| MO | 450 | 17.0 | 2031 | 110.19 | 2063 | 121.04 | 1991 | 116.81 | 1943 | 114.00 |
| HO | 600 | 24.1 | 2708 | 112.37 | 2750 | 114.11 | 2654 | 110.12 | 2590 | 107.47 |
| VHO | 750 | 30.0 | 3385 | 112.83 | 3438 | 114.58 | 3318 | 110.58 | 3238 | 107.92 |

## ORDERING GUIDE: EXAMPLE: STELA-L30MO-30-120-S3-C5-CAT/S-C20-STD

| STELA | | | | | | | | | | STD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

### 1 Series

| | |
|---|---|
| **STELA** | Stela |

### 2 Color Temperature[1]

| | |
|---|---|
| **L27** | 2700K |
| **L30** | 3000K |
| **L35** | 3500K |
| **L40** | 4000K |

### 3 Output[1]

| | |
|---|---|
| **SO** | Standard Output |
| **MO** | Medium Output |
| **HO** | High Output |
| **VHO** | Very High Output[2] |

### 4 Distribution

| | |
|---|---|
| **20** | 23° Beam |
| **30** | 32° Beam |
| **40** | 42° Beam |
| **60** | 58° Beam |

### 5 Voltage

| | |
|---|---|
| **120** | 120V[3] |
| **UNV** | 120-277V |

### 6 Wood Finish

| | |
|---|---|
| **S*** | See color options on finishes technical sheet |

### 7 Metal Finish

| | |
|---|---|
| **C*** | See color options on finishes technical sheet |
| **CSM** | Custom Color |

### 8 Mounting

| | |
|---|---|
| **CAT/S** | Catenary, Standalone |
| **CAT/D** | Catenary, Daisy Chain[4] |
| **PEN/E** | Pendant, Exterior |
| **PEN/I/*** | Pendant, Interior, Wire Color[5] |
| **STEM/E** | Stem, Exterior |
| **STEM/I** | Stem, Interior |
| **SURF** | Surface |

### 9 Mounting Length

| | |
|---|---|
| **Catenary** | |
| **C10** | Catenary, 10′ |
| **C40** | Catenary, 40′ |
| **C**** | Catenary, Specify |
| **Pendant** | |
| **P6** | Pendant, 6″ |
| **P12** | Pendant, 12″ |
| **P**** | Pendant, Specify |
| **Stem** | |
| **S6** | Stem, 6″ |
| **S12** | Stem, 12″ |
| **S24** | Stem, 24″ |
| **S36** | Stem, 36″ |
| **Surface** | |
| | Leave Blank |

### 10 Option

| | |
|---|---|
| **BABA** | BABA |
| **90** | >90 CRI[6] |

### 11 Special

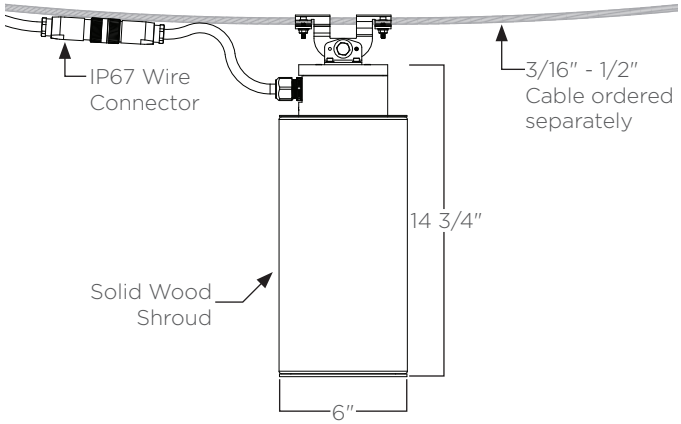
| | |
|---|---|
| **STD** | Standard |

1. Contact factory for alternative color temperatures or output options.
2. Very high output option is for interior applications only with PEN/I or STEM/I mounting.
3. 120V is required for catenary installations
4. Daisy chain application is master and satellite control. A standalone is required at the end of the run.
5. See page 198 for wire color options.
6. Standard CRI is >80.

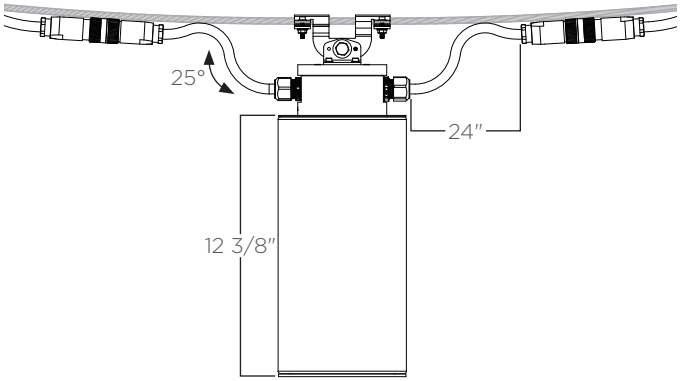

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## Catenary Mounting

### Standalone (CAT/S)

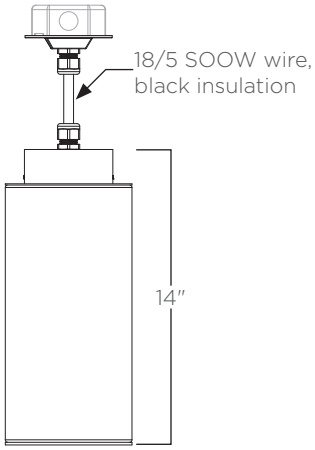



### Daisy Chain (CAT/D)

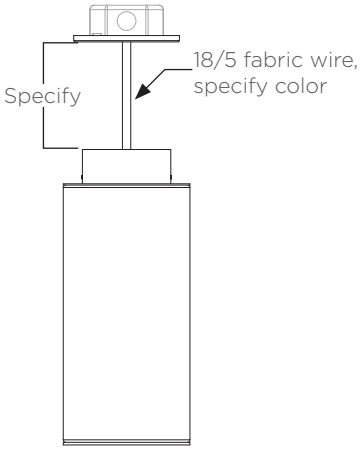



## Pendant Mounting

### Exterior (PEN/E)




### Interior (PEN/I)




### Fabric Wire Color Options (PEN/I)



Black
PEN/I/K



Gray
PEN/I/G



White
PEN/I/W



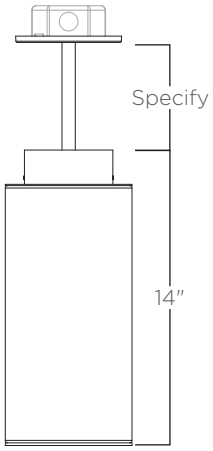
Red
PEN/I/R



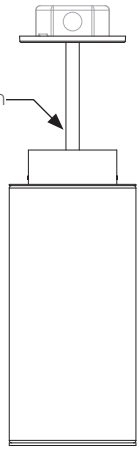
Blue
PEN/I/B

## Stem Mounting

### Exterior (STEM/E)

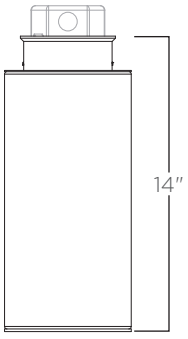



### Interior (STEM/I)




## Surface Mounting

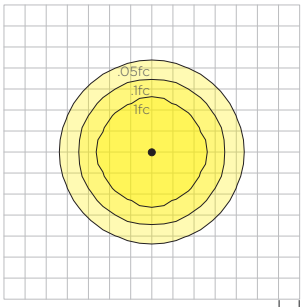
### (SURF)



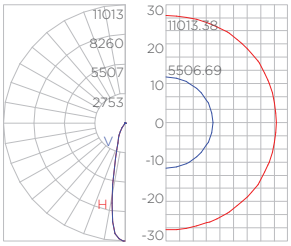

**Weight:** 11lbs
**EPA:** 0.46ft²


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## 20° Spot Distribution




STELA-L30HO-20 10' AFG
BUG Rating: B3-U0-G0

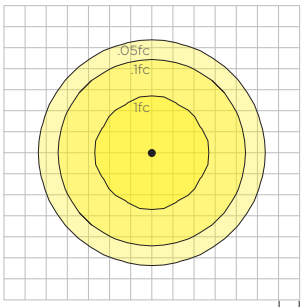



Maximum Candela = 11013.38
Located at horizontal angle = 0, veritcal angle = 0
H = horizontal axial candela; V = vertical axial candela
50% maximum candela = 5506.69
10% maximum candela = 1101.338

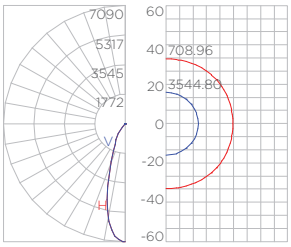
| Intensity Distribution | | |
|---|---|---|
| Height | Beam Diameter | Footcandles (FC) |
| 8′ | 3.2′ | 172.1 |
| 12′ | 4.9′ | 76.5 |
| 16′ | 6.5′ | 43.0 |
| 20′ | 8.1′ | 27.5 |
| 24′ | 9.7′ | 19.1 |

**Beam Distribution:** 22.9°
**Spacing Criterion:** 0.40

## 30° Spot Distribution




STELA-L30HO-30 10' AFG
BUG Rating: B3-U0-G0

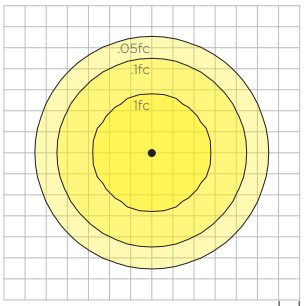



Maximum Candela = 7089.60
Located at horizontal angle = 0, veritcal angle = 0
H = horizontal axial candela; V = vertical axial candela
50% maximum candela = 3544.80
10% maximum candela = 708.96

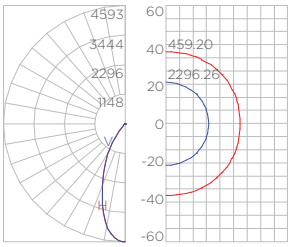
| Intensity Distribution | | |
|---|---|---|
| Height | Beam Diameter | Footcandles (FC) |
| 8′ | 4.6′ | 110.8 |
| 12′ | 6.9′ | 49.2 |
| 16′ | 9.1′ | 27.7 |
| 20′ | 11.4′ | 17.7 |
| 24′ | 13.7′ | 12.3 |

**Beam Distribution:** 31.9°
**Spacing Criterion:** 0.54

## 40° Spot Distribution




STELA-L30HO-40 10' AFG
BUG Rating: B3-U0-G0

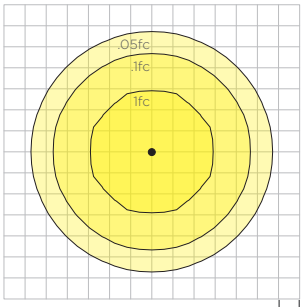



Maximum Candela = 4592.52
Located at horizontal angle = 0, veritcal angle = 0
H = horizontal axial candela; V = vertical axial candela
50% maximum candela = 2296.26
10% maximum candela = 459.25

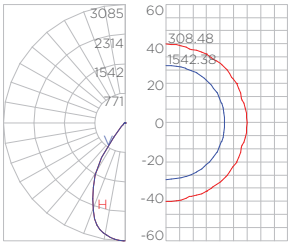
| Intensity Distribution | | |
|---|---|---|
| Height | Beam Diameter | Footcandles (FC) |
| 8′ | 6.2′ | 71.8 |
| 12′ | 9.3′ | 31.9 |
| 16′ | 12.3′ | 17.9 |
| 20′ | 15.4′ | 11.5 |
| 24′ | 18.5′ | 8.0 |

**Beam Distribution:** 42.2°
**Spacing Criterion:** 0.68

## 60° Spot Distribution




STELA-L30HO-60 10' AFG
BUG Rating: B3-U0-G0




Maximum Candela = 3084.76
Located at horizontal angle = 0, veritcal angle = 0
H = horizontal axial candela; V = vertical axial candela
50% maximum candela = 1542.38
10% maximum candela = 308.48

| Intensity Distribution | | |
|---|---|---|
| Height | Beam Diameter | Footcandles (FC) |
| 8′ | 8.9′ | 48.2 |
| 12′ | 13.4′ | 21.4 |
| 16′ | 17.8′ | 12.1 |
| 20′ | 22.3′ | 7.7 |
| 24′ | 26.8′ | 5.4 |

**Beam Distribution:** 58.3°
**Spacing Criterion:** 0.90

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