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 and 3000K, >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

DARKSKY APPROVED Reduces light pollution



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

DARKSKY APPROVED 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

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

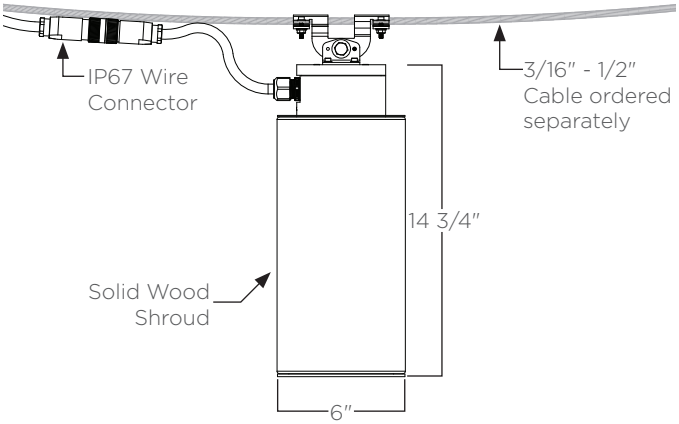
STD	Standard

1. Contact factory for alternative color temperatures or output options. DarkSky approved with 3000K CCT or lower.
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 202 for wire color options.
6. Standard CRI is >80.

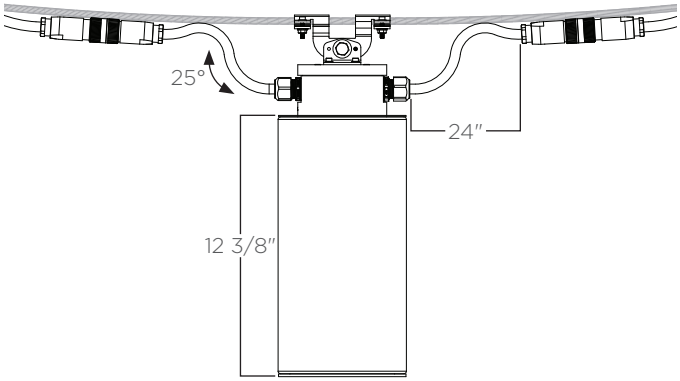
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Catenary Mounting

Standalone (CAT/S)

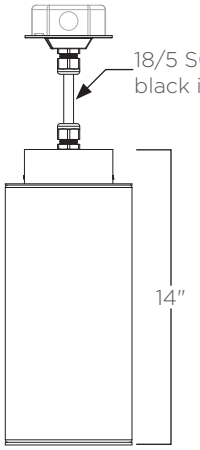


Daisy Chain (CAT/D)

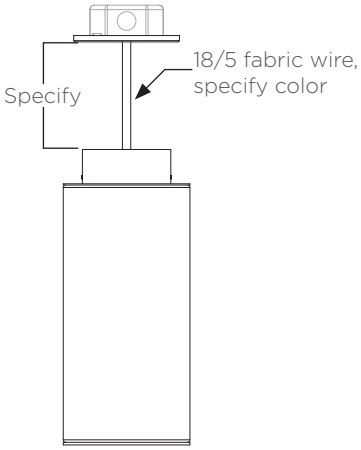


Pendant Mounting

Exterior (PEN/E)



Interior (PEN/I)



Fabric Wire Color Options (PEN/I)


Black
PEN/I/K


Gray
PEN/I/G

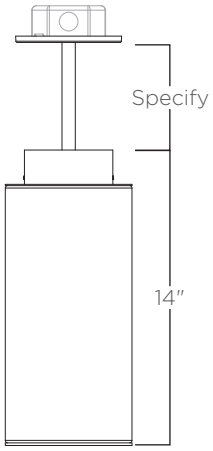

White
PEN/I/W


Red
PEN/I/R

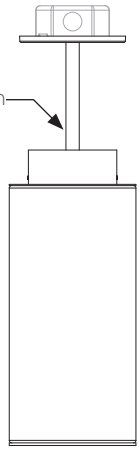

Blue
PEN/I/B

Stem Mounting

Exterior (STEM/E)

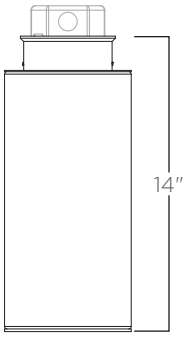


Interior (STEM/I)



Surface Mounting

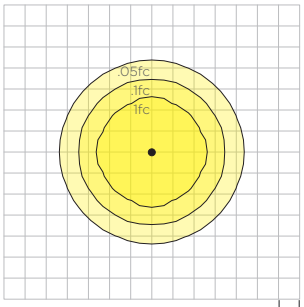
(SURF)



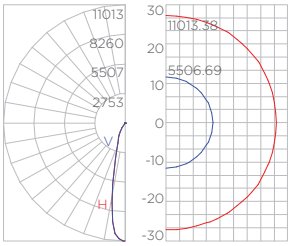
Weight: 11lbs
EPA: 0.46ft²

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20° Spot Distribution



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

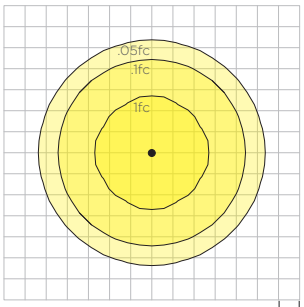


Maximum Candela = 11013.38
Located at horizontal angle = 0, veritcal angle = 0
H = horizontal axial candela; V = vertical axial candela
50% maximum candela = 5506.69
10% maximum candela = 1101.338

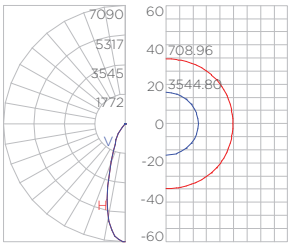
Intensity Distribution		
Height	Beam Diameter	Footcandles (FC)
8′	3.2′	172.1
12′	4.9′	76.5
16′	6.5′	43.0
20′	8.1′	27.5
24′	9.7′	19.1

Beam Distribution: 22.9°
Spacing Criterion: 0.40

30° Spot Distribution



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

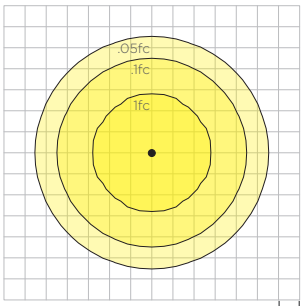


Maximum Candela = 7089.60
Located at horizontal angle = 0, veritcal angle = 0
H = horizontal axial candela; V = vertical axial candela
50% maximum candela = 3544.80
10% maximum candela = 708.96

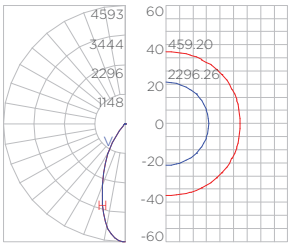
Intensity Distribution		
Height	Beam Diameter	Footcandles (FC)
8′	4.6′	110.8
12′	6.9′	49.2
16′	9.1′	27.7
20′	11.4′	17.7
24′	13.7′	12.3

Beam Distribution: 31.9°
Spacing Criterion: 0.54

40° Spot Distribution



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

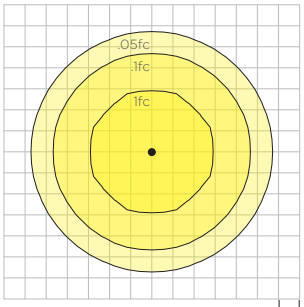


Maximum Candela = 4592.52
Located at horizontal angle = 0, veritcal angle = 0
H = horizontal axial candela; V = vertical axial candela
50% maximum candela = 2296.26
10% maximum candela = 459.25

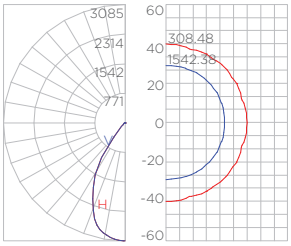
Intensity Distribution		
Height	Beam Diameter	Footcandles (FC)
8′	6.2′	71.8
12′	9.3′	31.9
16′	12.3′	17.9
20′	15.4′	11.5
24′	18.5′	8.0

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

IES file download

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