



The 6ixagon fixture delivers a next level geometric presence with all the benefits acoustic fixtures bring and offers a choice of second colour of acoustic felt to allow for additional stylish options.

6ixagon helps to add some silence as well as aesthetic warmth, texture, and geometric presence to a space combining the best elements of architectural and decorative lighting into a single luminaire. The open top form factor creates an acoustic cavity in the center of the fixture to maximize echo and sound absorption.

RELATED PRODUCT



Hive w/second colour AR



Trigon



Foregone

AVAILABLE FINISH OPTIONS

Acoustic



carrot AR-CRT



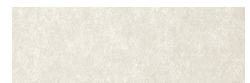
cornflower AR-CNF



ebony AR-EBY



heather AR-HTH



linen AR-LIN



marble AR-MAR



moss AR-MOS



pacific AR-PAC



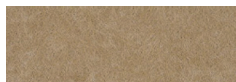
peridot AR-PRT



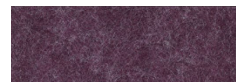
ruby AR-RBY



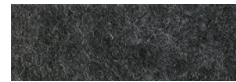
saffron AR-SFN



sand AR-SND



sangria AR-SGR



slate AR-SLT



ultramarine AR-UMR

FELT FIXTURE SPECIFICATION

Fixture	Width <small>measured point to point</small>	Felt Height	Outer Sleeve Acoustic Material 1	Inner Sleeve Acoustic Material 2	Mounting
ARF-114	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ARF-114 6ixagon	7W 7" 11W 11" 17W 17" 23W 23" 35W 35" 47W 47" CUSW Custom <small>Consult factory</small> <small>See page 9 for flat to flat and section length dimensions</small>	11H 11" 15H 15" 17H 17" 23H 23" CUSH Custom <small>Consult factory</small>	AR-CRT Carrot AR-CNF Cornflower AR-EBY Ebony AR-HTH Heather AR-LIN Linen AR-MAR Marble AR-MOS Moss AR-PAC Pacific AR-PRT Peridot AR-RBY Ruby AR-SFN Saffron AR-SND Sand AR-SGR Sangria AR-SLT Slate AR-UMR Ultramarine	AR2-CRT Carrot AR2-CNF Cornflower AR2-EBY Ebony AR2-HTH Heather AR2-LIN Linen AR2-MAR Marble AR2-MOS Moss AR2-PAC Pacific AR2-PRT Peridot AR2-RBY Ruby AR2-SFN Saffron AR2-SND Sand AR2-SGR Sangria AR2-SLT Slate AR2-UMR Ultramarine	ACM Aircraft Cable * <small>Standard length 120"</small> STM Stem Mount <small>Standard length 48"</small> CUSM Custom <small>Consult factory</small> <small>Length is field adjustable.</small> <small>* Remote with escutcheons contact factory for maximum cable lengths</small>

LIGHTING SPECIFICATION

Voltage	Power Cable Finish	Stem and/or Canopy Finish	Color Temperature
UNV	<input type="text"/>	<input type="text"/>	<input type="text"/>
UNV 120/277 Volts <small>Consult factory for other voltages</small>	WPC White BPC Black	WCF White BCF Black ACF Brushed Aluminum RAL Custom <small>RAL North America; Consult factory</small>	<small>Static Colour</small> 2700K 2700K 3000K 3000K 3500K 3500K 4000K 4000K 5000K 5000K 3000FS Full Spectrum 3000K 3500FS Full Spectrum 3500K <small>Dynamic Colour - Consult factory</small> 2765K Tunable White* <small>2700K - 6500K</small> RGBW RGBW* CUSK Custom CT* <small>2400K - 6000K;</small> <small>Full spectrum .95 reduced output contact factory</small>

Color Rendering	Delivered Output								Continued on Next Page
90	<input type="text"/>								<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
90 90+ CRI	<small>White Sources Static/Tunable</small> Standard 750LM - 7W 1000LM - 10W 1600LM - 16W 2600LM - 26W 4800LM - 48W 7800LM - 785W _____LM Custom Lumen Output*	7"	11"	17"	23"	35"	47"		
	<small>RGB / RGBW Sources</small> Standard 7W 10W 16W 26W 48W 78W _____W Custom Watts Output*	7"	11"	17"	23"	35"	47"		

Consult factory for outputs outside of this range.
 Total lumen output up to 20,000 lm delivered based on size.
 Maximum Output varies by size

LIGHTING SPECIFICATION continued

Driver Location

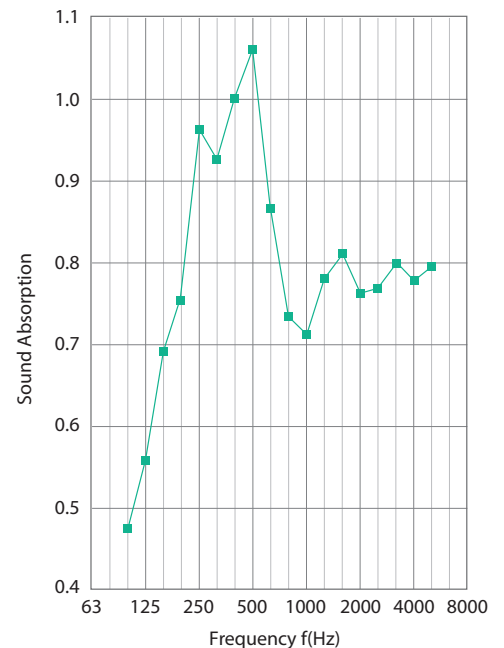
Dimming Driver

SCDL	Surface Circular Canopy	S010V10	Standard 0-10V, 10%
SSDL	Surface Circular Side Entry	S010V01	Standard 0-10V, 1%
CUSDL	Custom Driver <i>Consult factory for options.</i>	E010V01	eldoLED 0-10V, 1%
		EDALI01	eldoLED DALI, 0.1%
		EDMX01	eldoLED DMX, 0.1%
		LECO01	Lutron Ecosystem, 1% SOFTB, (Soft-on, Fade-to-Black)
		LECOTW	Lutron Ecosystem, 1%, Tunable White – T series
		MOLPOE	Molex POE Node
		OTHERD	Other Driver Options <i>Consult factory for availability of other driver options</i>

NOISE REDUCTION COEFFICIENT

- The test was carried out by external laboratory (SGS) assessed as competent.
- TEST METHOD: EN ISO 354:2003 Acoustic Measurement of sound absorption in a reverberation room. Tested with back airspace of 200mm (7.87”).
- TEST RESULT: Noise Reduction Coefficient: NRC = 0.85

f Hz	a _s
50	/
63	/
80	/
100	0.47
125	0.56
160	0.69
200	0.75
250	0.96
315	0.92
400	1.00
500	1.06
630	0.87
800	0.73
1000	0.71
1250	0.78
1600	0.81
2000	0.76
2500	0.77
3150	0.80
4000	0.78
5000	0.79
NRC	0.85



WRITTEN SPECIFICATIONS

LED System

- LED Circuitry is applied to minimum 0.0625" thick aluminum modules for excellent heat management. Modules are removeable for maintenance and are 90% recyclable.
- LEDs are 90+CRI, 3 SDCM.
- 36" x 8" fixture performance at 3000K 90CRI, 6896lms, 61.44 Watts, 112 LPW Delivered
- Full Spectrum, efficiency is 88 lm/W; CRI is 96+ with all R1-R15 values at 90 or higher and Rf (fidelity) of 95, Rg (gamut) of 105.
- Tunable White, efficiency is 90 lm/W; Delivered lumens is for both channels simultaneously at full output (maximum per individual channel is approximately 50% of total delivered lumens).
- RGBW lumen outputs per channel as follows:
 White only: 85 lm/W @ 25% of W Red only: 24 lm/W @ 25% of W
 Green only: 70 lm/W @ 25% of W Blue only: 13 lm/W @ 25% of W
 All four channels max: 56 lm/W @ 100% of W (approx 9000K CCT)

Construction

- Acoustic felt: Acoustic baffle is made from 100% PET (polyethylene terephthalate) fiber, which is a rigid, dimensionally strong, and stable material that is water and moisture resistant. Baffle is completely recyclable and contains a minimum of 30% post-consumer recycled content. Thickness of base material, 9mm.
- Independent certifications: A flame spread index (FSI) and smoke-development index (SDI) test was carried out by external laboratory (SGS) based on ASTM E84-2020 Standard Test Method for Surface Burning Characteristics of Building Materials. Test Results - FSI-15; SDI 80; ATSM E84 Class A

- Metal construction to be aluminum minimum 0.0625" thickness. Fasteners are to be stainless steel.
- Cable grippers are nickel plated solid brass and stainless steel. Cables are 1/16" stainless steel.
- Canopies and driver housings are minimum 0.0625" aluminum.
- Barbican's Drum fixtures comes standard with the shade and light engine fully enclosed to protect from ingress of dirt, dust and other site conditions.

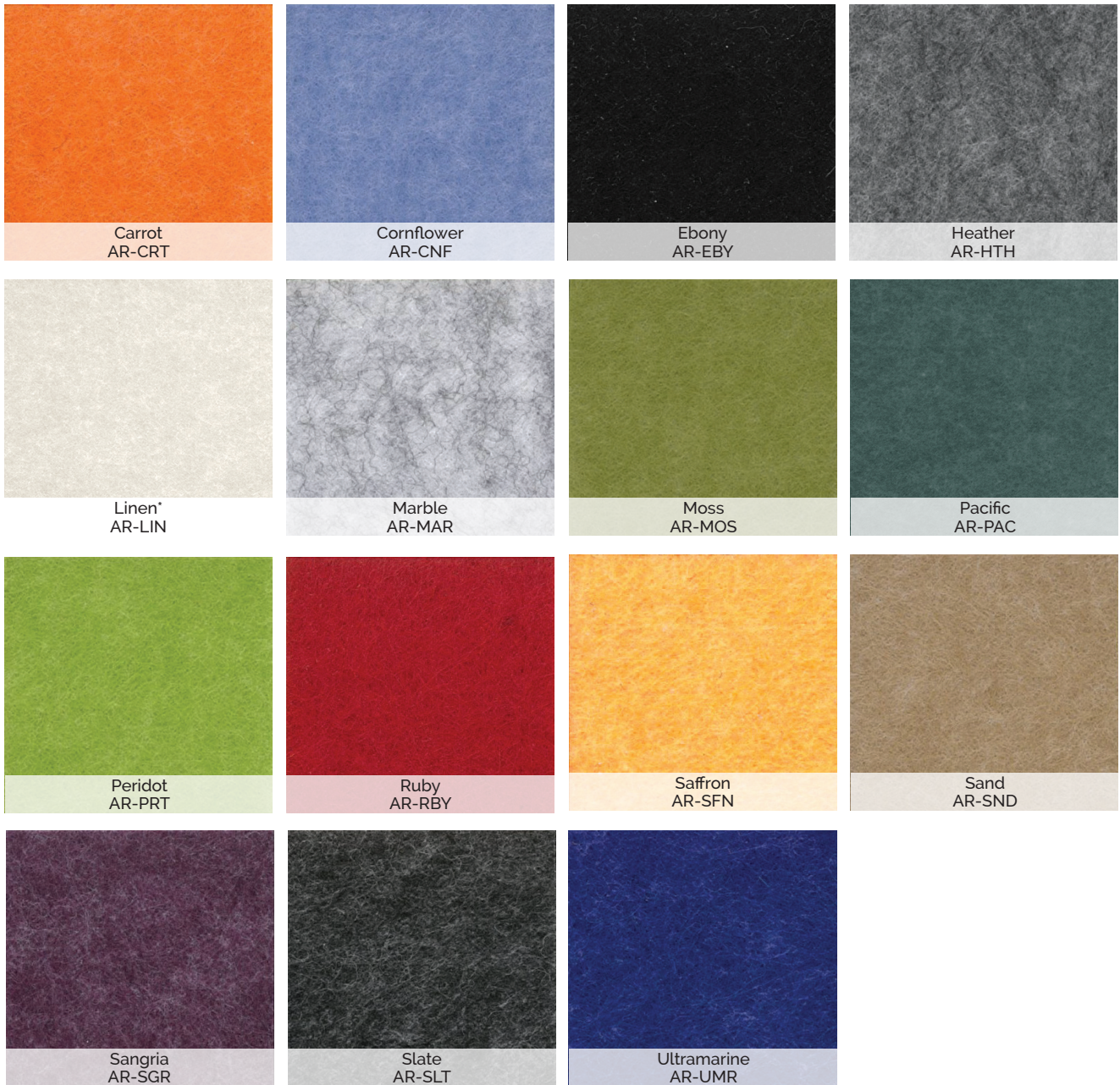
Mounting

- Power cables are low voltage from the canopy drivers.
- Drivers: All drivers are mounted in the canopy. Standard drivers include 0-10V 10% dimming 120/277V with Power Factor of >.9. Barbican works with most Control and Driver manufacturers including POE and can easily modify the driver housings for special control gear. Fixtures over 96W may require more than one driver per fixture.
- Emergency fixtures are supplied with leads and KO for UL924 relays (by others). Battery back up will usually only drive one or two of the cores in larger fixtures to maintain the 90 minute requirement. Maximum distance driver to fixture 15 feet.
- Labels: ETL US and Canada, CE Europe and Middle East (Dry, Damp indoor use only)
- Finish: Polyester Powder Coated standard, Hand Brushed Aluminum
- Lumen Maintenance: Reported L90 > 10,000hrs, Calculated > 60,000hrs (TM-21)
- Warranty: 5 years limited at 25 Celsius. Contact Barbican for additional information.

LABELS



ACOUSTIC FELT Colour Samples



*LINEN is available for Acoustic Shapes, Sheets and Panels, but only select Lighting Fixtures.
Please consult with factory for availability.

SPECIFICATION MODIFIERS

Specification Modifiers

Barbican is well known for modifications to meet special requirements. We would be pleased to discuss any ideas you have to make our fixtures meet your needs. Some common modifiers would be; Size (diameter/height), Materials/Finishes, Mounting, Colour Temperature, Delivered Lumens, Driver Location or Dimming Drivers.

Please consult our Sales Department with your requirements.

Digitally Printed AR is available as a custom option.

Printed acoustic felt may include Printed Patterns, Natural Wood grain/stain options, Natural Stone, Barbican's Artisan Collection, and a variety of Printed Textures. Please take note that only the flat surface can be printed, **not the Acoustic Felt edge**. Some options may not be suitable for certain fixtures.

Please consult our Sales Department with your requirements.

You can view and download swatch flyers on our website at Resources > Reference.

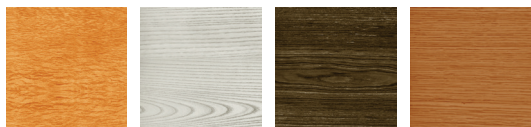


Buckhorn w/Digital Printed Woodgrain

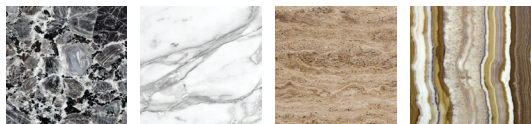
Printed Patterns (56)



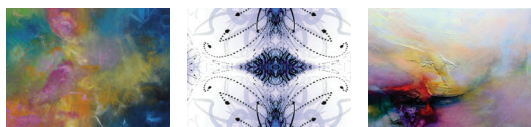
Natural Wood - for AR (36 - 6 grain, 6 stain combinations)



Natural Stone (18)



Artisan Collection (98 - 3 Artists)



Printed Textures (8 Categories, 98)



Warmer tone prints such as Natural Wood are printed on 'Sand' Acoustic Felt (AR-SND).



Patterns, Art Prints and more neutral images are printed on Linen Acoustic Felt (AR-LIN).

APPLICATIONS

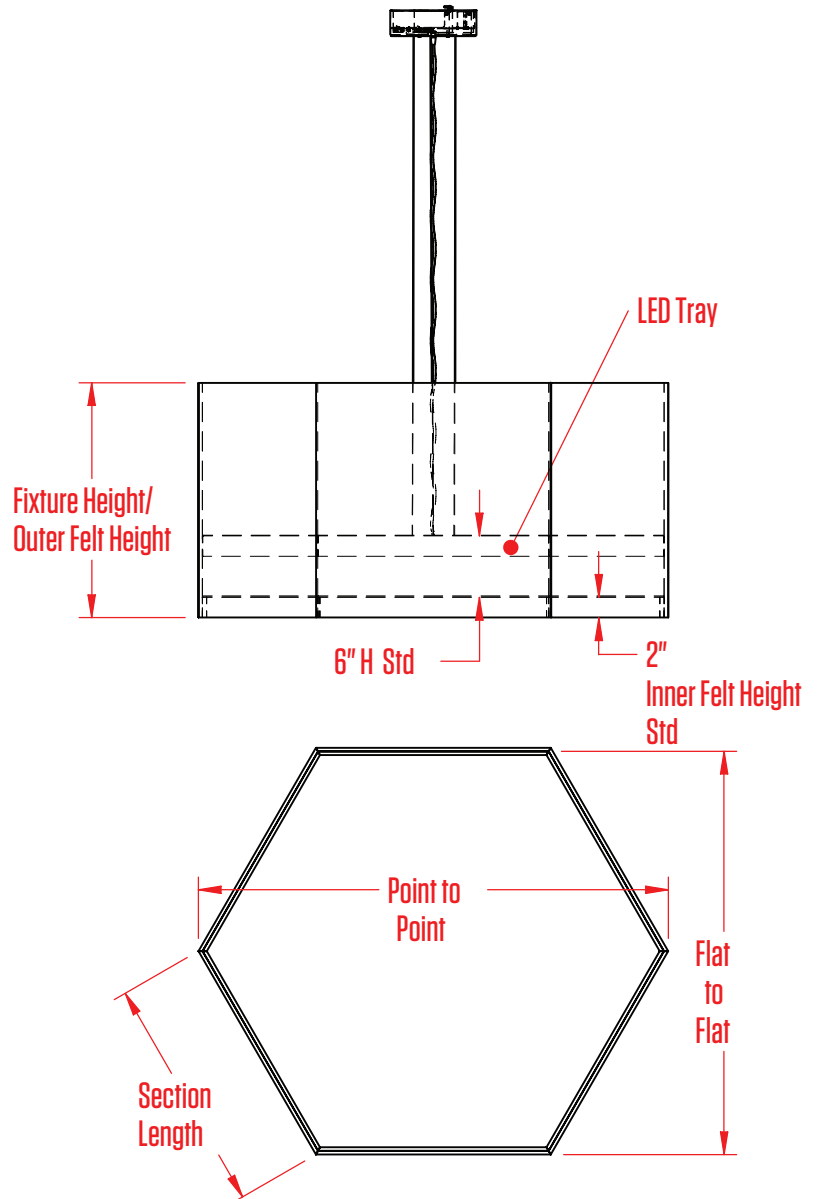
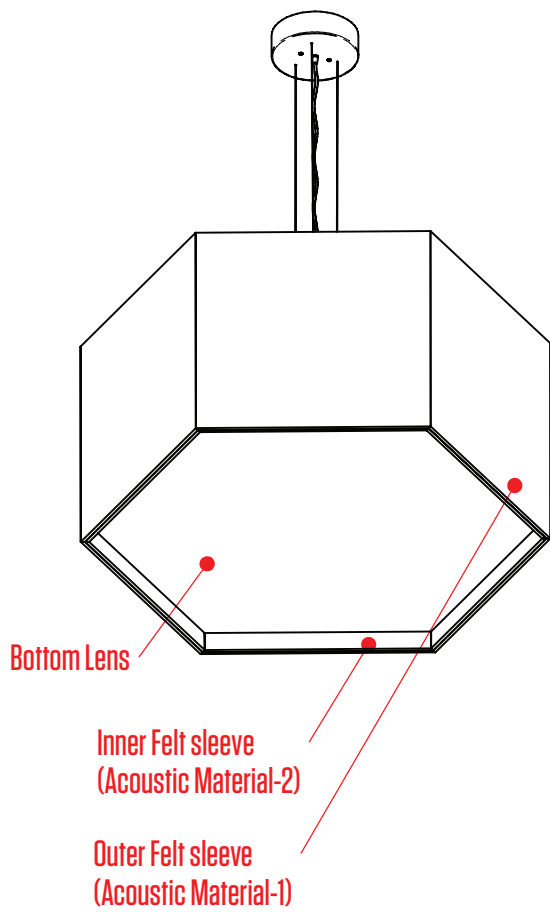


APPLICATIONS



LINE DRAWINGS

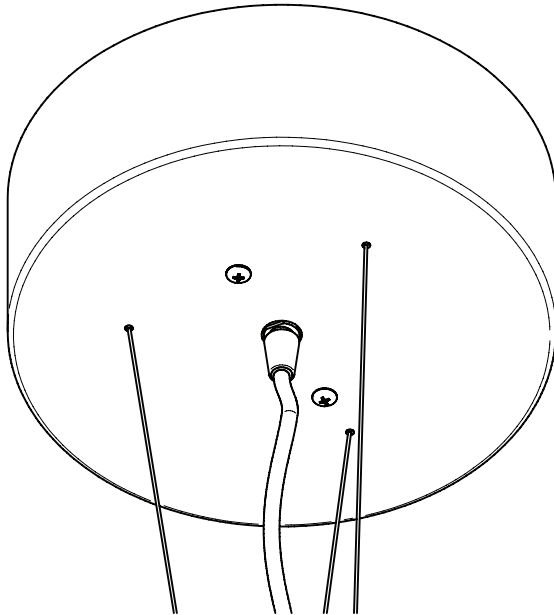
Point to Point Width	Section Length	Flat to Flat Width
7"	3.5"	6.06"
11"	5.5"	9.53"
17"	8.5"	14.72"
23"	11.5"	19.92"
35"	17.5"	30.31"
47"	23.5"	40.70"



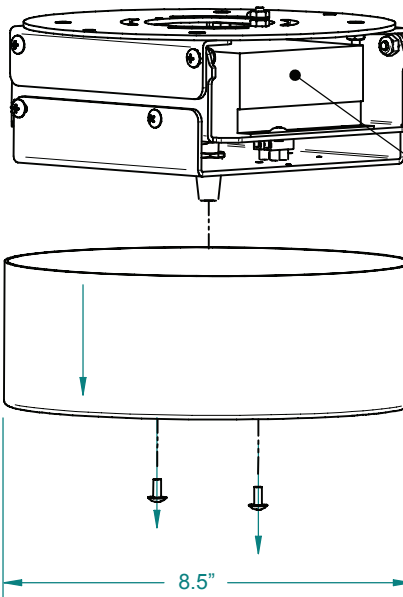
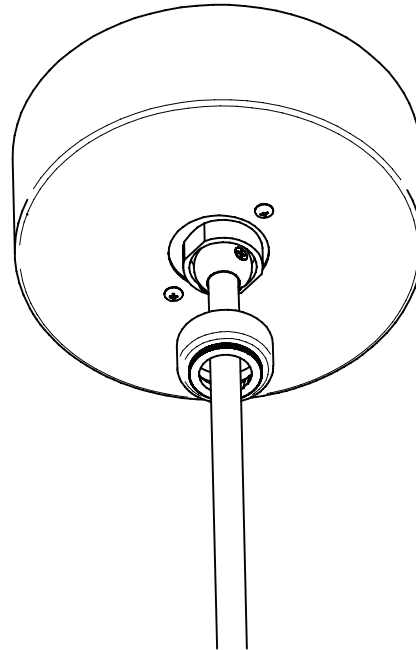
SPECIFICATION DETAILS (cont.)

**Surface Circular Canopy
(SCDL)**

Aircraft Cable



Stem



Driver configuration may vary based on order

SPECIFICATION DETAILS (cont.)

**Surface Circular Side Entry Canopy
(SSDL)**

