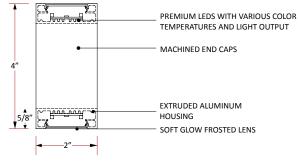
Linear Series - Thin 1



CABLE SUSPENDED (CS)

FFATURES:

- Powered Suspension System No power cord
- · High transmission frosted lenses with no diode imaging
- No visible fasteners
- Extruded aluminum housing
- · Dimmable/Programmable drivers for controllable light output
- High efficacy LEDs with 5 year warranty
- Under 2 steps MacAdams Ellipse Binning
- 3/8" thick machined end caps
- · 360° rotation option- with mechanical locking
- Bi-directional luminaire

NOTES:

• REQUIRES REMOTE DRIVER(S) (see page 5 for more info)





PRODUCT SPECIFICATION

NOTE: All options italicized may increase lead times and/or incur higher costs - please consult factory with questions.

FIXTURE TYPE	MOUNTING/ ORIENTATION	NOMINAL LENGTH*	COLOR TEMP	LED DRIV DIRECT	E POWER INDIRECT*	VOLTAGE	DRIVER	HOUSING FINISH
LS-THN-1	CS Cable Suspended - BI-DIRECTIONAL CSD Cable Suspended - DIRECT ONLY CSV Cable Suspended - Vertical CSR Cable Suspended - ROTATIONAL	1' 1' 2' 2' 3' 3' 4' 4' CR_' Continuous Run (Specify length in nominal feet) *Dimensions are for reference only. Con- tact factory for more specific information or shop frawings. **'Odd lengths may incur slightly lighter per foot pricing.	27/K 2700/K 30K 3000K 35K 3500K 40K 4000K 50/K 5000/K	 VLO Very Low Output 378 lumens/ft. (4w/ft.) LO Low Output 570 lumens/ft. (6w/ft.) SG Standard Output 748 lumens/ft. (8w/ft.) HO High Output 935 lumens/ft. (10w/ft.) VHO Very High Output 1,088 lumens/ft. (12w/ft.) CPO Custom Power Output Consult factory 	 VLO Very Low Output 378 lumens/ft. (4w/ft.) Low Output 570 lumens/ft. (6w/ft.) Standard Output 748 lumens/ft. (6w/ft.) High Output 935 lumens/ft. (10w/ft.) VHO Very High Output 1,088 lumens/ft. (12w/ft.) CPO Custom Power Output Consult factory *Not Applicable with CSD option. DIRECT ONLY 		ND Non-Dimming 0-10v DIMMING	SC Satin Clear Anodize (Standard) SW Satin White (Powder Coat) MB Matte Black (Powder Coat) CF Custom Finish* (Consult Factory)

HARDWARE* DETAIL FINISH	DRIVER HOUSING FINISH	CANOPY SIZE OPTIONS*	CANOPY FINSH	POWER CORD COLOR	AIRCRAFT CABLE LENGTH*	OPTIONS/ CUSTOMIZATION*
MF Machined Finish (Standard) SW Satin White MB Matte Black CF Custom Finish (Consult Factory)	MA Mill Aluminum* SC Satin Clear SW Satin White SB Satin Black CF Custom Finish (Consult Factory)	44 4" Power feed canopy 4" Non-power feed canopy	SW Satin White SB Satin Black MF Machine Finish CF Custom Finish (Consult Factory)	PSS Powerd Suspension System (No Power Cord) CC Custom Cord (Consult Factory)	2 2' 4 4' 6 6' 8 8' CL_ Custom Length** (Specify in feet IE: CL10 for 10')	XX No EMB or Customization EMB7 7 Watt battery back-up** (Approximately 600 lumens) EMB12 12 Watt battery back-up** (Approximately 1,000 lumens) 90 90+ CRI LED BOARDS CCP Corners/patterns* CD Custom Driver* CR Customization Requested*
NOTE: MF option is strongly recommended. Other options will result in higher costs and potentially longer lead times. "Hardware" refers to the end caps and knuckles (knuckles only for the "Rotational" option).	*Most cost effective.	*See options section and installation instructions for more information.			*Cables are field adjustable. ** Consult factory to confirm specific length.	NOTE: Customization may incur higher costs and/ or increased lead times. "Consult the factory for all custom options or custom concept requests. **The EMB12 is slightly more expensive than the EMB7 option (BOTH OPTIONS ARE REMOTE ONLY).

SPECIFICATION INFORMATION

GENERAL NOTES:

All fixtures are UL listed for dry and damp locations. **REMOTE DRIVER** for all options. Please contact the factory with any specification questions.

Italicized options may incur additional costs and/or extended lead times. Please consult the factory.

FIXTURE ORIENTATION:

Bidirectional (CS) for downlight and uplight applications. Direct (CSD) for ONLY downlight applications. Rotational (CSR) for adjustable applications: 360° rotational capacity with locking machanism.

DRIVER: [REMOTE]

1) NON-DIMMING: As described ... this fixture will not dim. 2) DIMMING: 0-10v: 1%, 10% :: Lutron: 2-wire Forward phase (Hi-Lume 1%), Ecosystem to 1% (Soft On), Ecosystem to 5% (5 Series). "DALI" - Specify driver. See "Dimming Options" on subsequent pages for more information. For other dimming options, consult the factory. 3) EMERGENCY: Specify EMB under the Options/Customization category at the end of the cut sheet along with the desired lumen output (600 or 1,000 lumens - the latter is slightly more costly). 4) Drivers are programmed according to our standard lumen packages or to custom watt/lumen package requirements. 5) Consult factory with any questions or specification requirements.

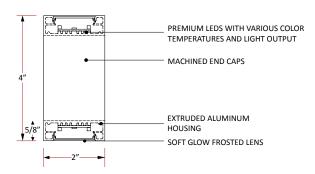
FINISHES:

The standard finish is a Satin Clear anodized housing with Machine Finished hardware. Machined finish is preferable for machined components (Hardware Detail) - Powder coating these parts may result in additional costs. Consult the factory with any questions about standard or custom finishing options.

CUSTOMIZATION: We have numerous custom options available. However, if there is something unique required for a project, from simple options to complete custom requests, we are more than willing to entertain any creative notions you might have. Just ask.

PROJEC1

Linear Series - Thin 1



ROTATIONAL ARM MOUNT (RAM)

FEATURES:

- 5/8" diameter rigid tube mounting system
- High transmission frosted lenses with no diode imaging
- No visible fasteners
- Extruded aluminum housing
- Dimmable/Programmable drivers for controllable light output
- High efficacy LEDs with 5 year warranty
- Under 2 steps MacAdams Ellipse Binning
- 5/16" thick machined end caps
- Bi-directional fixture
- 360° rotation option- with mechanical locking

NOTES:

· REQUIRES REMOTE DRIVER(S) (see page 5 for more info)





PRODUCT SPECIFICATION

NOTE: All options italicized may increase lead times and/or incur higher costs - please consult factory with questions.

FIXTURE TYPE	MOUNT ORIENTA		NOMINAL LENGTH*	COLOR TEMP	LED DRIV	/E POWER INDIRECT*	VOLTAGE	DRIVER	HOUSING FINISH
LS-THN-1	RAM Rotat Arm I	cional Mount	1' 1' 2' 2' 3' 3' 4' 4' CR_' Continuo Run (Specify length in nominal feet) *Dimensions are for reference only. Con- tat factory for more specific information shog drawings. **Odd lengths may incur slightly higher per foot pricing.		 VLO Very Low Output 378 lumens/ft. (4w/ft.) LO Low Output 570 lumens/ft. (6w/ft.) SO Standard Output 748 lumens/ft. (8w/ft.) HO High Output 935 lumens/ft. (10w/ft.) VHO Very High Output 1,088 lumens/ft. (12w/ft.) CPO Custom Power Output Consult factory 		UNV Universal (120-277v) 1V 120v 2V 227v 3V 347v*	ND Non-Dimming 0-100 DIMMING 1DD 10% DIM 1D 1% DIM LUTRON LUTRON LUTRON LUTRON LUTRON LUTON FL-Lume 1% (2-Wire) LDE1 Lutron EcoSystem 1% 'Soft on' (Digital) LDE5 Lutron EcoSystem 5% 5-Series (Digital) DALI Digital Addressable Lighting Interface	SC Satin Clear Anodize (Standard) SW Satin White (Powder Coat) MB Matte Black (Powder Coat) CF Custorn Finish* (Consult Factory)
	WARE* . FINISH	но	DRIVER JSING FINISH	ARM LENGTH*	MOUNTING/ COVER PLATE	OPTIONS/ CUSTOMIZATION*	JUNC	3-O MUD RING (BY OTHERS) MOUNTII TION BOX PRECSIOO MAGNET	NG PLATE N MACHINED IC COVER PLATE
(Stand CF Custo		SC SW SB CF	Mill Aluminum* Satin Clear Satin White Satin Black Custom Finish (Consult Factory)	3 3" 6 6" 9 9" 12 12" CAL Custom Length** (Specify in inches IE: CL10 for 10")	4CPF Flat 4" diameter Cover Plate - For use with a 3-O mud ring CCP Custom Cover Plate* (Consult factory)	XX No EMB or Customi EMB7 7 Watt battery back (Approximately 600 lun EMB12 12 Watt battery back (Approximately 1,000 lu 90 90+ CRI LED BOARD CCP Corners/patterns* CD Custom Driver* CR Customization Requi	zation up** nens) :k-up** umens) S	5/8	
will result in hip potentially long	. Other options gher costs and ger lead times. efers to the end kles (knuckles	*Most c	ost effective.	*Arm length is measured from the mounting surface to the center of the fixture. **Limitations apply. Consult the factory.		NOTE: Customization may incur higher and/or increased lead times. "Consult the factory for all custom optin custom concept requests. "The EMB12 is more expensive than t1 option (BOTH OPTIONS ARE REMOTE O	ons or	ROTATIONAL ARM MOUNT	INFORMATION

SPECIFICATION INFORMATION_

GENERAL NOTES:

All fixtures are **UL listed** for **dry** and **damp** locations. **REMOTE DRIVER** for all options.

Please contact the factory with any specification questions. *Italicized* options may incur additional costs and/or extended lead times. Please consult the factory.

DRIVER: [REMOTE]

 NON-DIMMING: As described... this fixture will not dim.
 DIMMING: 0-100: 1%, 10% ::: Lutron: 2-wire Forward phase (Hi-Lume 1%), Ecosystem to 1% (Soft On), Ecosystem to 5% (5 Series).
 "DALI" - Specify driver. See "Dimming Options" on subsequent pages for more information. For other dimming options, consult the factory.
 EMERGENCY: Specify EMB under the Options/Customization category at the end of the cut sheet along with the desired lumen output (600 or 1,000 lumens - the latter is slightly more costly).
 Drivers are programmed according to our standard lumen packages or to custom watt/lumen package requirements.
 Consult factory with any questions or specification requirements.

FINISHES:

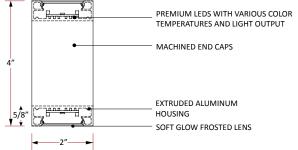
The standard finish is a Satin Clear anodized housing with Machine Finished hardware. Machined finish is preferable for machined components (Hardware Detail) - Powder coating these parts may result in additional costs. Consult the factory with any questions about standard or custom finishing options.

CUSTOMIZATION:

We have numerous custom options available. However, if there is something unique required for a project, from simple options to complete custom requests, we are more than willing to entertain any creative notions you might have. Just ask.

PROJECT

Linear Series - Thin 1



TYPE

SURFACE MOUNT (SM)

FEATURES:

- Ceiling or wall mounting system
 - High transmission frosted lenses with no diode imaging
 - No visible fasteners
 - Extruded aluminum housing
 - Dimmable/Programmable drivers for controllable light output
 - High efficacy LEDs with 5 year warranty
 - Under 2 steps MacAdams Ellipse Binning
 - 5/16" thick machined end caps
 - Bi-directional fixture
- NOTES:
- . REQUIRES REMOTE DRIVER(S) (see page 5 for more info)



PRODUCT SPECIFICATION

NOTE: All options italicized may increase lead times and/or incur higher costs - please consult factory with questions.

FIXTURE TYPE		NTING/ ITATION		NOMINAL LENGTH*	COLOR TEMP	DIRECT	- LED	DRIV	E POWER INDIRECT*	VOLTAGE	DRIVER	HOUSING FINISH
LS-THN-1	SMS	Surace Mount - SIDE	2 3 4 CR	 , 3' , 4' Continuous Ru (Specify length in nominal feet) 	1	 VLO Very Low Outpu 378 lumens/ft. (4w LO Low Output 570 lumens/ft. (6w SO Standard Outpu 748 lumens/ft. (10 HO High Output 935 lumens/ft. (10 VHO Very High Output 1,088 lumens/ft. (10 VHO Very High Output Consult factory 	//ft.) //ft.) //ft.) w/ft.) Ut !2w/ft.)	LO SO HO VHO CPO	Very Low Output 378 lumens/ft. (4w/ft.) Low Output 570 lumens/ft. (6w/ft.) Standard Output 748 lumens/ft. (8w/ft.) High Output 935 lumens/ft. (10w/ft.) Very High Output 1,088 lumens/ft. (12w/ft.) Custom Power Output Consult factory	UNV Universal (120-277v) 1V 120v 2V 227v 3V 347v*	ND Non-Dimming 0-10v DIMMING 10D 10% DIM 11 % DIM LUTRON LITEA LUTON HI-Lume 1% (2-Wire) LDE1 Lutron EcoSystem 1% "Soft on" (Digital) LDE5 Lutron EcoSystem 5% 5-Series (Digital) DALI Digital Addressable Lighting Interface	SC Satin Clear Anodize (Standard) SW Satin White (Powder Coat) MB Matte Black (Powder Coat) CF Custom Finish* (Consult Factory)
DRIVE HOUSING I		HARDW DETAIL F		STAND OFF DISTANCE		PTIONS/ DMIZATION*						
MA Mill SC Alumin SW Satin SB Satin CF Satin Custor Factory	Clear White Black n Finish It y)	MF Mac Fini (Star CF Cuss Fini, (Con Fact NOTE: The N option is stor recommended Other option will result in higher costs optentially (con Fact Vardware Caps and knu (knuckles on the "Rotation option).	sh ndard) tom sh sult ory) IF ingly ed. s and inger - end ickles y for	0 Flush .5 Half Inch 1 1" 3 3" 6 6" CU_ Custom (Specify in feet IE: CU4.5 for 4.5')	EMB7 7 Wa (Appro EMB12 12 W (Appro 90 90+ C CCP Corte CD Custo CR Custo WOTE: Customizat and/or increased "Consult the facto custom concept re- "The EMB12 is 3	mization Requested*						

SPECIFICATION INFORMATION

GENERAL NOTES:

All fixtures are **UL listed** for **dry** and **damp** locations. **REMOTE DRIVER** for all options. Please contact the factory with any specification questions.

Please contact the factory with any specification questions. *Italicized* options may incur additional costs and/or extended lead times. Please consult the factory.

DRIVER: [REMOTE]

 NON-DIMMING: As described... this fixture will not dim.
 DIMMING: 0-10v: 1%, 10% :: Lutron: 2-wire Forward phase (Hi-Lume 1%), Ecosystem to 1% (Soft On), Ecosystem to 5% (5 Series). "DALI" - Specify driver. See "Dimming Options" on subsequent pages for more information. For other dimming options, consult the factory.
 EMERGENCY: Specify EMB under the Options/Customization category at the end of the cut sheet along with the desired lumen output (600 or 1,000 lumens - the latter is slightly more costly).
 Drivers are programmed according to our standard lumen packages or to custom watt/lumen package requirements.
 Consult factory with any questions or specification requirements.

FINISHES:

The standard finish is a Satin Clear anodized housing with Machine Finished hardware. Machined finish is preferable for machined components (Hardware Detail) - Powder coating these parts may result in additional costs. Consult the factory with any questions about standard or custom finishing options.

CUSTOMIZATION:

We have numerous custom options available. However, if there is something unique required for a project, from simple options to complete custom requests, we are more than willing to entertain any creative notions you might have. Just ask.

QTY:

Linear Series - Thin 1

PRODUCT SPECIFICATION

- Fixture delivered light potential: 95 Lumens/Watt*
- Uniform light distribution
- 90+ CRI LED diode options
- · Exceptional binning- less than 2 step MacAdams Elipse
- Minimum 70% initial lumen output at 70,000 hours
- Standard 0-10v dimming to %10
- · Lutron, Eldoled, Dali, and other dimming options
- 5 year system warranty

*Actual fixture efficacy will be dependent on specification. Higher lumens per watt are achieved with lower drive powers. Please contact the factory with questions or for more information.

LUMEN OUTPUT*

	LUMEN OUTPUT (PER FOOT)							
DRIVER OUTPUT	WATTAGE	LUMENS						
VERY LOW (VLO)	8	756						
LOW (LO)	12	1,140						
STANDARD (SO)	16	1,496						
HIGH (HO)	20	1,870						
VERY HIGH (VHO)	24	2,176						

PER 4' FIXTURE (TOTAL DELIVERED LUMENS)

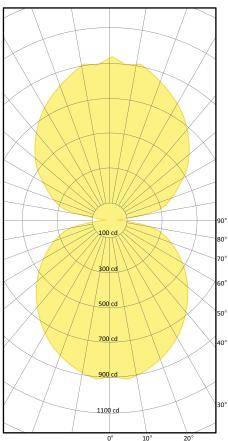
DRIVER OUTPUT	WATTAGE	LUMENS
VERY LOW (VLO)	32	3,024
LOW (LO)	48	4,560
STANDARD (SO)	64	5,984
HIGH (HO)	80	7,480
VERY HIGH (VHO)	96	8,704

- · VERY LOW: Considerably underdrives the LEDs to maximize fixture efficacy potential and limit wattage use.
- · LOW: Underdrives the LEDs for reasonable light output while maintaining low wattage use.
- STANDARD: Drives the LEDs for the best combination of lumen output and fixture efficacy.
- HIGH: Drive the LEDs at higher capacity for higher lumen output with good efficacy.
- VERY HIGH: Drives the LEDs at the highest capacity for the highest
- lumen output with the best efficacy.

*Lumen output will vary depending on ambient temperature. Cooler ambient and LED color temperatures result in higher luminaire performance. Calculations are based on 4000K LEDs.

FIXTURE ORIENTATION: Direct (ESMD) for downlight applications. Indirect (ESMI) for uplight applications.

LUMINOUS INTENSITY DISTRIBUTION



FIXTURE PROPERTIES (AS TESTED)

- 4' nominal length fixture
- Standard Output (SO)
- · Total system energy consumption: 64 Watt
- 95 Lumens/Watt
- 4000K 80 CRI LED

ZONAL LUMEN SUMMARY

ZONE	LUMEN	%LAMP	%FIXTURE
0 - 30	703	8.1%	12.1%
0 - 40	1,154	13.4%	19.9%
0 - 60	2,108	24.4%	36.4%
0 - 90	2,987	34.6%	51.6%
90 - 120	881	10.2%	15.2%
90 - 150	2,285	26.5%	39.5%
90 - 180	2,986	34.6%	51.6%
0 - 180	5,974	69.2%	103.2%









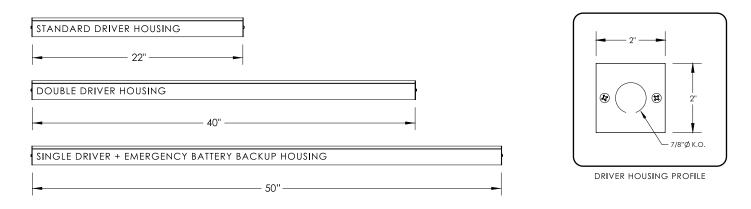
PROJECT

TYPE

Linear Series - Thin 1

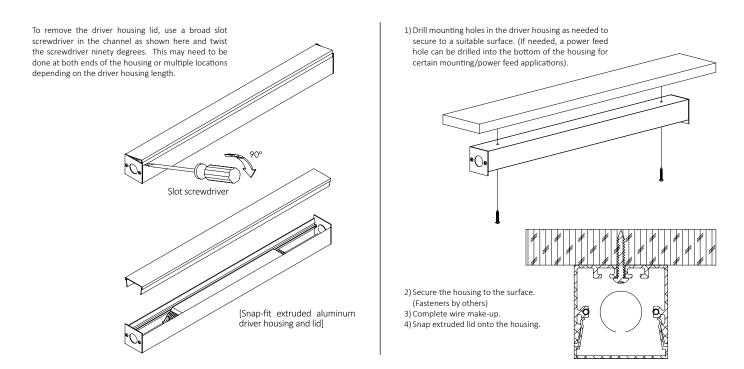
REMOTE DRIVER HOUSING SIZES

The driver housing length is typically dictated by the options selected. Standard driver housing lengths are as shown. Non standard driver requests may increase or decrease the driver housing length. Specifications are subject to change without notice. Consult factory with questions, requests, or size limitations and we will do our best to accommodate your needs.



INSTRUCTIONS_

See below for lid removal and installation instructions.



FINISHES

Mill Aluminum (MA) is the standard finish. Satin White and Satin Black powder coat and Satin Clear anodized finishes can be done for a small charge. Custom finishes are possible. Contact the factory for specific finish options, specific requests, RAL colors, or any other questions.













PROJECT

TYPE

Linear Series - Thin 1



CABLE SUSPENDED (CS)

Powered Suspension System. Palladium 1 (Pd1) can be static down-light and up-light: Bi-Directional (CS), static down-light ONLY: Direct (CSD), or Rotational (see below). Standard and custom power cord finishes, sleeve options, and canopy colors offer options to match almost any space. Stainless steel cables come in various lengths (4' is standard) and are field adjustable.





(360° ROTATION)

CABLE SUSPENDED ROTATIONAL (CS-R)

Using a similar setup to the Cable Suspended system above, the Cable Suspended - Rotational system has 360 degree rotational capacity with mechanical fasteners to lock fixtures in place if desired. This system offers incredible flexibility, light direction control, and a dynamic aesthetic.





CABLE SUSPENDED VERTICAL (CSV)

Power Suspension System. Yttrium (Y) can be a static Bi-Directional light hung up-right (CSV). Standard and custom power cord finishes, sleeve options, and canopy colors offer options to match almost any space. Stainless steel cables come in various lengths (4' is standard) and are field adjustable





(360° ROTATION)

ROTATIONAL ARM MOUNT (RAM)

This system uses 5/8" diameter aluminum arms and subtle details in combination with a 360 degree rotational capacity to create some of the most versatile linear fixtures in the architectural market. Standard mounting uses 3-0 mud rings (supplied by others) or a 1" optional trim ring for furniture mounted applications. Engineered with no visible fasteners, smooth rotation, and mechanical locking, the RAM system reveals an impressive aesthetic with exceptional versatility.



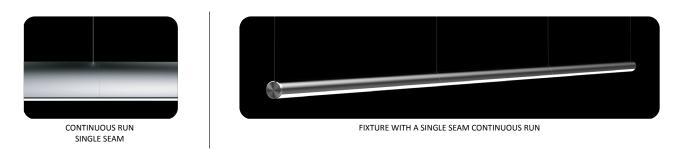
SURFACE MOUNT (SM)

Side Mount Side (SMS) or Side Mount Direct Only (SMSD). Side, the fixture is mounted on the wall giving a static bi-directional up-light and down-light. Direct Only, the fixture is mounted on the wall as well but only gives a static down-light.

Linear Series - Thin 1

С	ο	Ν	т	I	Ν	U	0	U	S	R	U	Ν
-	-	•••			•••	-	-	-	-		-	

Continuous runs are available with all fixtures and have several connection options. Single Seam continuous run options offer smooth section transitions while Component Seams lend to a more dramatic visual statement. The 360 Rotational option enables individual sections to rotate independently of each other, which offers adjustable asymmetric light distribution capacity along with striking appearances such as alternating up/down fixtures or spiral transitions. The flexibility within the rotational option makes for infinite design and functional possibilities.



CANOPIES ____

STANDARD

Canopies have several standard options to suit various environment aesthetics. The standard cable suspension system has 5" Satin White canopies. However, other standard options include a 2" non-power feed canopy option as well as no canopy at all. Both of these include a 5" diameter power feed canopy.



5" diameter power feed and 5" diameter non-pow feed canopy. Most common canopy layout. Creates a consistent ceiling aesthetic.



5" diameter power feed and 2" diameter non-power feed canopy. Offers a more minimal ceiling treatment while maintaining the ability to cover up mistakes. Requires a 1/4-20 stud securely fastened to the ceiling.



5" diameter power feed canopy and no canopy on the non-power feed side. Minimal aesthetic. Requires a 1/4-20 stud securely attached to ceiling. Works well with continuous runs where the power can be carried inside the fixture.

MACHINED

Machined canopies are 4" in diameter and can be anodized as well as powder coated to match a desired color or they can be left with a mill finish for a more striking look. Similar non-power feed options are available with this aesthetic as well. These options do carry a higher cost than standard canopies, but also have an impressive appearance.



4" diameter machined power feed and 4" diameter machined nonpower feed canopy. Offers a consistent ceiling aesthetic with smaller machined canopies. Mill, anodized, and powder coat finishes available.



4" diameter machined power feed and 1-1/4" diameter machined nonpower feed canopy. Offers minimal ceiling treatment while maintaining the ability to cover mistakes. Requires a 1/4-20 stud securely fastened to the ceiling. Mill, anodized, and powder coat finishes available.



4" diameter machined power feed canopy and no canopy on the non-power feed side. Minimal aesthetic. Requires a 1/4-20 stud securely attached to the ceiling. Works well with continuous runs where the power can be carried inside the fixture. Mill, anodized, and powder coat finishes available.

CUSTOM

Custom canopies options are available and can look spectacular in certain applications. Contact the factory with all custom requests or with any questions.



CUSTOM POWDER COAT



CUSTOM ANODIZE

\wedge	K	
	Ϊ.	

CUSTOM SHAPE

- P			

Linear Series - Thin 1

COLOR AND FINISH

Standard finish configurations are Satin Clear (SC) housing with Machined Finish (MF) machined components (end caps, knuckles, cover plates, etc.). The incredibly clean detail within all of the machined components lends to an incredibly high end aesthetic with two tone finish. Numerous custom anodizing and powder coated finishes are available as well. If you have a particular color/finish treatment in mind, please contact the factory and we will do our best to accommodate your project needs.



COVER PLATES

Cover plates are standard for Rotational Arm Mounting (RAM) Systems. Standard options are Flat (FT), Curved (CV), or Trim Ring (TR). With certain applications, cover plates or trim rings may not be necessary. Contact factory with questions or for more information. Custom cover plates are also available. If a certain aesthetic is desired, please contact the factory to review any concepts and we will do our best to bring your vision to life.



STANDARD

FLAT (CPFT) Flat has a 4" diameter cover plate for use with a 3-O mud ring.



TRIM RING (TR) 1-1/4" diameter trim ring Can be used in applications such as desk mounting.



SQUARE

сизтом







CUSTOM

