Promethium

CABLE SUSPENDED (CS)

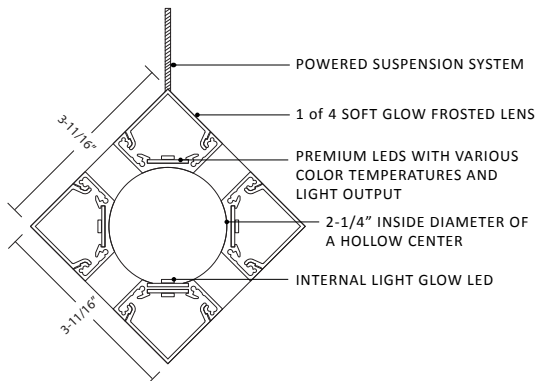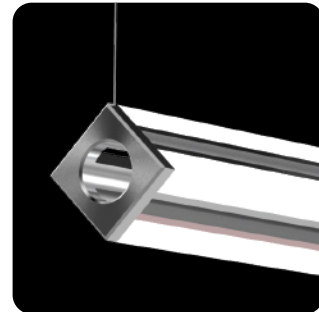**Pm PROMETHIUM**

FEATURES:

- Powered Suspension System - No power cord
- Internal Light Glow
- No visible fasteners
- Extruded aluminum
- Dimmable/Programmable drivers for controllable light output
- High efficacy LEDs with 5 year warranty
- Under 2 steps MacAdams Ellipse Binning
- Poly-directional with multiple switching options

NOTES:

- **REQUIRES REMOTE DRIVER(S)** (see page 3 for more info)

- CSDD ◇   or CSSQ ▢

Diagram labels:
- POWERED SUSPENSION SYSTEM
- 1 of 4 SOFT GLOW FROSTED LENS
- PREMIUM LEDS WITH VARIOUS COLOR TEMPERATURES AND LIGHT OUTPUT
- 2-1/4" INSIDE DIAMETER OF A HOLLOW CENTER
- INTERNAL LIGHT GLOW LED
- 3-11/16"
- 3-11/16"

PRODUCT SPECIFICATION

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

FIXTURE TYPE	MOUNTING/ ORIENTATION	NOMINAL LENGTH*	COLOR TEMP	LED DRIVE POWER	VOLTAGE	DRIVER	HOUSING FINISH	HARDWARE* DETAIL FINISH
Pm								
Pm Promethium	**CSDD** Cable Suspended - DIAMOND **CSSQ** Cable Suspended - SQUARED	**1'** 1' 1-3/8"** **2'** 2' 1-3/8" **3'** 3' 1-3/8"** **4'** 4' 1-3/8" **5'** 5' 1-3/8"** **6'** 6' 1-3/8"	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**VLO** Very Low Output 1,605 lumens/ft. (16w/ft.) **LO** Low Output 2,425 lumens/ft. (22.5w/ft.) **SO** Standard Output 3,175 lumens/ft. (33/ft.) **CPO** Custom Power Output Consult factory	**UNV** Universal (120-277v)	**ND** Non-Dimming ── 0-10v DIMMING ── **10D** 10% DIM **1D** 1% DIM ── LUTRON ── **LTEA** Lutron Hi-Lume 1% (2-Wire) **LDE1** Lutron EcoSystem 1% "Soft on" (Digital) **LDE5** Lutron EcoSystem 5% 5-Series (Digital) ── DALI ── **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) *RAL and color match are available.	**MF** Machined Finish (Standard) **CF** Custom Finish (Consult factory) NOTE: The 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).

*Dimensions are for reference only. Contact factory for more specific information or shop drawings. **Odd lengths may incur slightly higher per foot pricing.

DRIVER HOUSING FINISH	INSIDE LIGHT COLOR	CANOPY SIZE OPTIONS*	CANOPY FINISH	POWER CORD COLOR	AIRCRAFT CABLE LENGTH*	OPTIONS/ CUSTOMIZATION*
MA Mill Aluminum* **SC** Satin Clear **SW** Satin White **SB** Satin Black **CF** Custom Finish (Consult factory)	SPECIFY *	── 4 SERIES CANOPY ── **44** 4'' Power feed canopy 4'' Non-power feed canopy	**MF** Machine Finish (Standard) **SW** Satin White **SB** Satin Black **CF** Custom Finish*	**PSS** Powered Suspension System (No power cord) **CC** Custom Cord*	**2** 2' **4** 4' **6** 6' **8** 8' **CL_** Custom Length Specify in feet (IE: CL10 for 10') Consult factory to confirm spec	**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 (2700K - 4000K only) **CCP** Corners/patterns* **CD** Custom Driver* **CR** Customization Requested*

*Most cost effective. | *Select # from Leefiltersusa.com/lighting | *See options section and installation instructions for more information. | *Just about any finish is possible. For the 4" machined canopies, MF is strongly recommended. Contact the factory with questions or requests. | *Consult factory. | *Cables are field adjustable. | *Consult factory for all custom options or custom concept requests. NOTE: Customization may incur higher costs and/or increased lead times. **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 grayed out options may incur additional costs and/or extended lead times. Please consult the factory.

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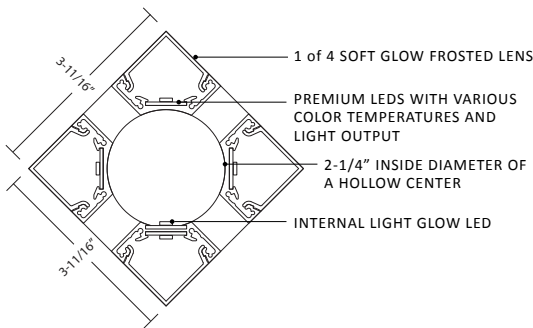
CUSTOMIZATION:
We have numerous custom options available. However, if there is something unique required for a project, from simple options to complete custom requests, we are more than willing to entertain any creative notions you might have. Just ask.

0617

lumium lighting at its *element*

Promethium

CABLE SUSPENDED VERTICAL (CSV)

3-11/16"
1 OF 4 SOFT GLOW FROSTED LENS
PREMIUM LEDS WITH VARIOUS COLOR TEMPERATURES AND LIGHT OUTPUT
2-1/4" INSIDE DIAMETER OF A HOLLOW CENTER
INTERNAL LIGHT GLOW LED
3-11/16"

FEATURES:
- Powered Suspension System - No power cord
- Internal Light Glow
- No visible fasteners
- Extruded aluminum
- Dimmable/Programmable drivers for controllable light output
- High efficacy LEDs with 5 year warranty
- Under 2 steps MacAdams Ellipse Binning
- Poly-directional with multiple switching options

NOTES:
- **REQUIRES REMOTE DRIVER(S)** (see page 3 for more info)

- CSDD ◇ or CSSQ ▢

PRODUCT SPECIFICATION

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

FIXTURE TYPE	MOUNTING/ ORIENTATION	NOMINAL LENGTH*	COLOR TEMP	LED DRIVE POWER	VOLTAGE	DRIVER	HOUSING FINISH	HARDWARE* DETAIL FINISH
Pm	CSV							
Pm Promethium	**CSV** Cable Suspended - VERICAL	**1'** 1' 1-3/8"** **2'** 2' 1-3/8" **3'** 3' 1-3/8"** **4'** 4' 1-3/8" **5'** 5' 1-3/8"** **6'** 6' 1-3/8"	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**VLO** Very Low Output 1,605 lumens/ft. (16w/ft.) **LO** Low Output 2,425 lumens/ft. (22.5w/ft.) **SO** Standard Output 3,175 lumens/ft. (33/ft.) *CPO Custom Power Output Consult factory*	**UNV** Universal (120-277v)	**ND** Non-Dimming —— 0-10v DIMMING —— **10D** 10% DIM **1D** 1% DIM —— LUTRON —— *LTEA Lutron Hi-Lume 1% (2-Wire)* *LDE1 Lutron EcoSystem 1% "Soft on" (Digital)* *LDE5 Lutron EcoSystem 5% 5-Series (Digital)* —— DALI —— *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)	**MF** Machined Finish (Standard) *CF Custom Finish* (Consult factory)

*Dimensions are for reference only. Contact factory for more information or shop drawings.
**Odd lengths may incur slightly higher per foot pricing.

*RAL and color match are available.

NOTE: The 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).

DRIVER HOUSING FINISH	INSIDE LIGHT COLOR	CANOPY SIZE OPTIONS*	CANOPY FINISH	POWER CORD COLOR	AIRCRAFT CABLE LENGTH*	OPTIONS/ CUSTOMIZATION*
MA Mill Aluminum* *SC Satin Clear* *SW Satin White* *SB Satin Black* *CF Custom Finish* (Consult factory)	SPECIFY *	—— 4 SERIES CANOPY —— **44** 4'' Power feed canopy 4'' Non-power feed canopy	**MF** Machine Finish (Standard) *SW Satin White* *SB Satin Black* *CF Custom Finish**	**PSS** Powered Suspension System (No power cord) *CC Custom Cord**	**2** 2' **4** 4' **6** 6' **8** 8' *CL_ Custom Length Specify in feet (IE: CL10 for 10') Consult factory to confirm spec*	**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 (2700K - 4000K only) *CCP Corners/patterns** *CD Custom Driver** *CR Customization Requested**

*Most cost effective.

*Select # from Leefiltersusa.com/lighting

*See options section and installation instructions for more information.

*Just about any finish is possible. For the 4" machined canopies, MF is strongly recommended. Contact the factory with questions or requests.

*Consult factory.

*Cables are field adjustable.

*Consult factory for all custom options or custom concept requests.
NOTE: Customization may incur higher costs and/or increased lead times.
**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 grayed out options may incur additional costs and/or extended lead times. Please consult the factory.

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 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.

Promethium

LED COMPONENT INFORMATION

- Fixture delivered light potential: 96 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*

DRIVER OUTPUT	WATTAGE	LUMENS
VERY LOW (VLO)	16	1,605
LOW (LO)	22.5	2,425
STANDARD (SO)	33	3,175

PER 4' FIXTURE (TOTAL DELIVERED LUMENS)

DRIVER OUTPUT	WATTAGE	LUMENS
VERY LOW (VLO)	64	6,420
LOW (LO)	90	9,700
STANDARD (SO)	132	12,700

- **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.

*Lumen output will vary depending on ambient temperature. Cooler ambient and LED color temperatures result in higher luminaire performance. Calculations are based on 3500K LEDs.

LUMINOUS INTENSITY DISTRIBUTION
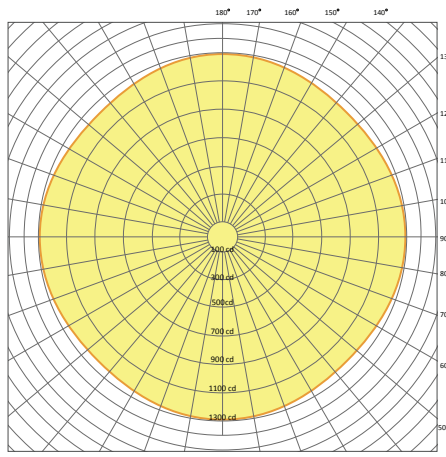
FIXTURE PROPERTIES (AS TESTED)

- 4' nominal length fixture
- Standard Output (SO)
- Total system energy consumption: 132 Watt
- 96 Lumens/Watt
- 4000K 80 CRI LED

ZONAL LUMEN SUMMARY

ZONE	LUMEN	%LAMP	%FIXTURE
0 - 30	1,039	5.3%	8.2%
0 - 40	1,754	9.%	13.8%
0 - 60	3,409	17.5%	26.8%
0 - 90	6,349	32.6%	50%
90 - 120	2,942	15.1%	23.2%
90 - 150	5,311	27.3%	41.8%
90 - 180	6,351	32.6%	50%
0 - 180	12,700	65.3%	100%
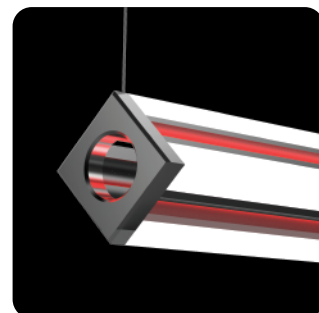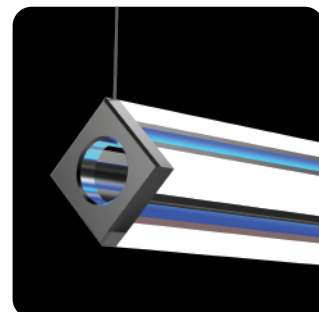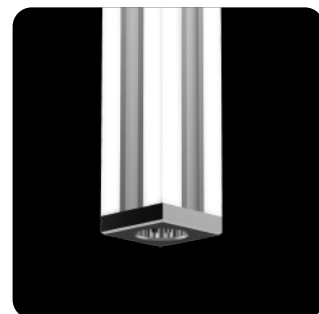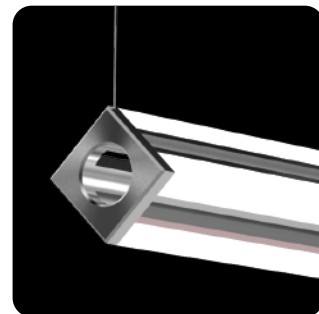
REMOTE DRIVER HOUSING INFORMATION

Dh
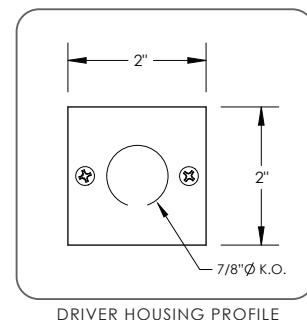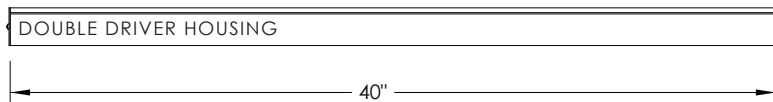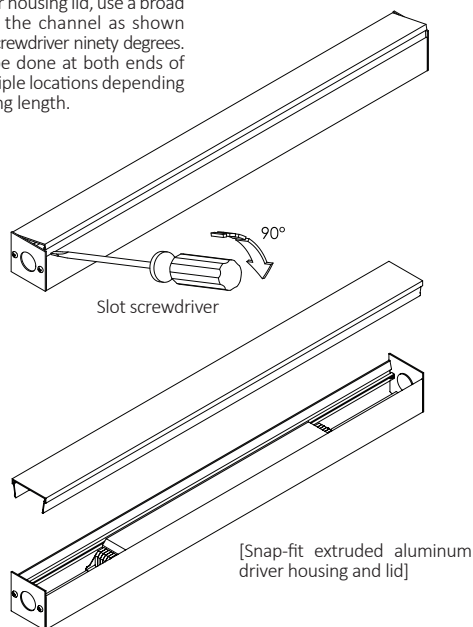DRIVER HOUSING

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.

STANDARD DRIVER HOUSING
22"

DOUBLE DRIVER HOUSING
40"

SINGLE DRIVER + EMERGENCY BATTERY BACKUP HOUSING
50"

2"

2"

7/8"Ø K.O.

DRIVER HOUSING PROFILE

INSTRUCTIONS

See below for lid removal and installation instructions.

To remove the driver housing lid, use a broad slot screwdriver in the channel as shown here and twist the screwdriver ninety degrees. This may need to be done at both ends of the housing or multiple locations depending on the driver housing length.

90°

Slot screwdriver

[Snap-fit extruded aluminum driver housing and lid]

1) Drill mounting holes in the driver housing as needed to secure to a suitable surface. (If needed, a power feed hole can be drilled into the bottom of the housing for certain mounting/power feed applications).
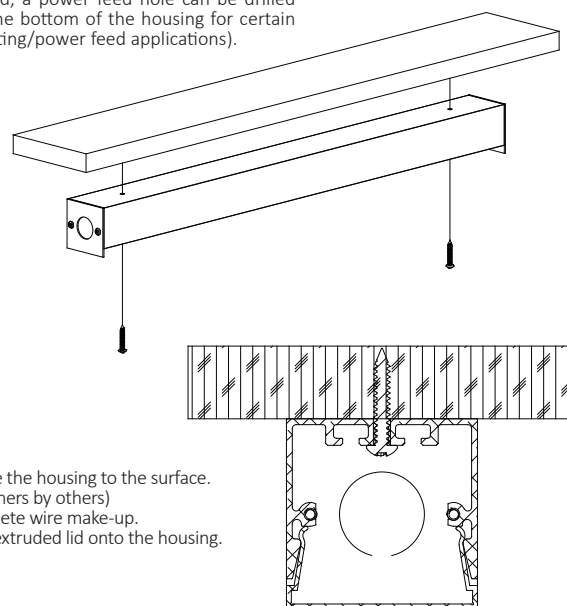
2) Secure the housing to the surface. (Fasteners by others)
3) Complete wire make-up.
4) Snap extruded lid onto the housing.

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.

Mill Aluminum (MA)
[Standard finish]
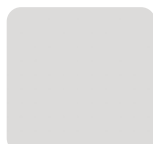
Satin White (SW)
[Upgrade finish]

Satin Black (SB)
[Upgrade finish]

Satin Clear (SC)
[Upgrade finish]

Custom Finish (CF)
[Custom finish]

NOTES

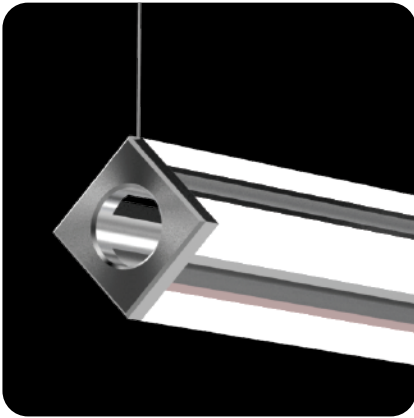Other options are possible. Please contact the factory with custom requests.
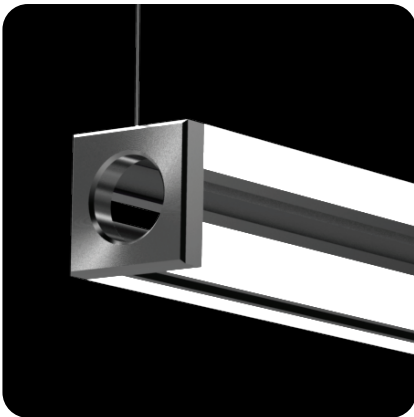
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OPTIONS GUIDE

MOUNTING

CABLE SUSPENDED DIAMOND (CSDD)

Powered Suspension System. Promethium (Pm) can be static down-light, up-light, and side-light diagnology: Poly-Directional (CSDD). 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.


CABLE SUSPENDED SQUARED (CSSQ)

Powered Suspension System. Promethium (Pm) can be static down-light, up-light, and side-light squared: Poly-Directional (CSSQ). 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.

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OPTIONS GUIDE

CANOPIES

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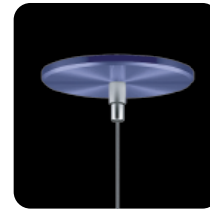
STANDARD
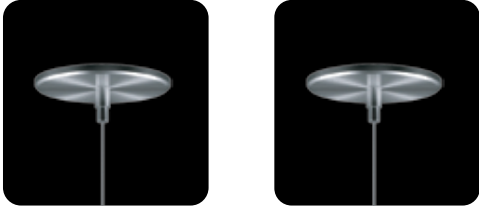
4" diameter machined power feed and 4" diameter machined non-power feed canopy. Offers a consistent ceiling aesthetic with smaller machined canopies. Mill, anodized, and powder coat finishes available.

CUSTOM
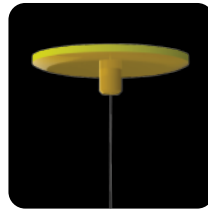
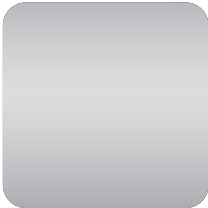

CUSTOM POWDER COAT

CUSTOM ANODIZE

CUSTOM SHAPE

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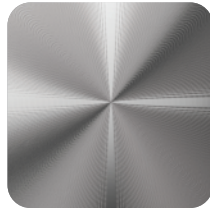
COLOR AND FINISH

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.

STANDARD

SATIN CLEAR
ANODIZING

MACHINED
COMPONENTS

CUSTOM

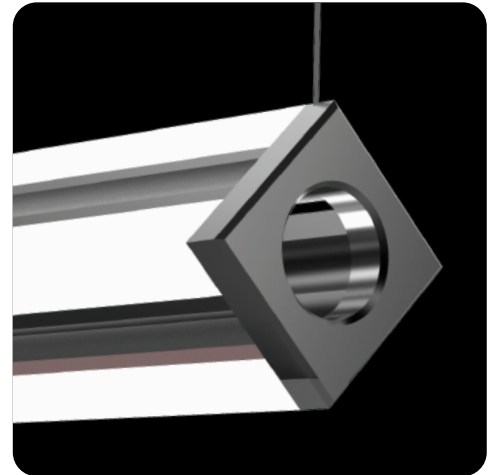|				
MATTE BLACK	GLOSS BLACK	BRONZE	MILL ALUMINUM	SPECULAR
SATIN WHITE	GLOSS WHITE	COLOR POWDER COAT	COLOR ANODIZE	RAL COLORS

FINISHED CONFIGURATION

PROMETHIUM
CABLE SUSPENDED DIAMOND (CSDD)

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