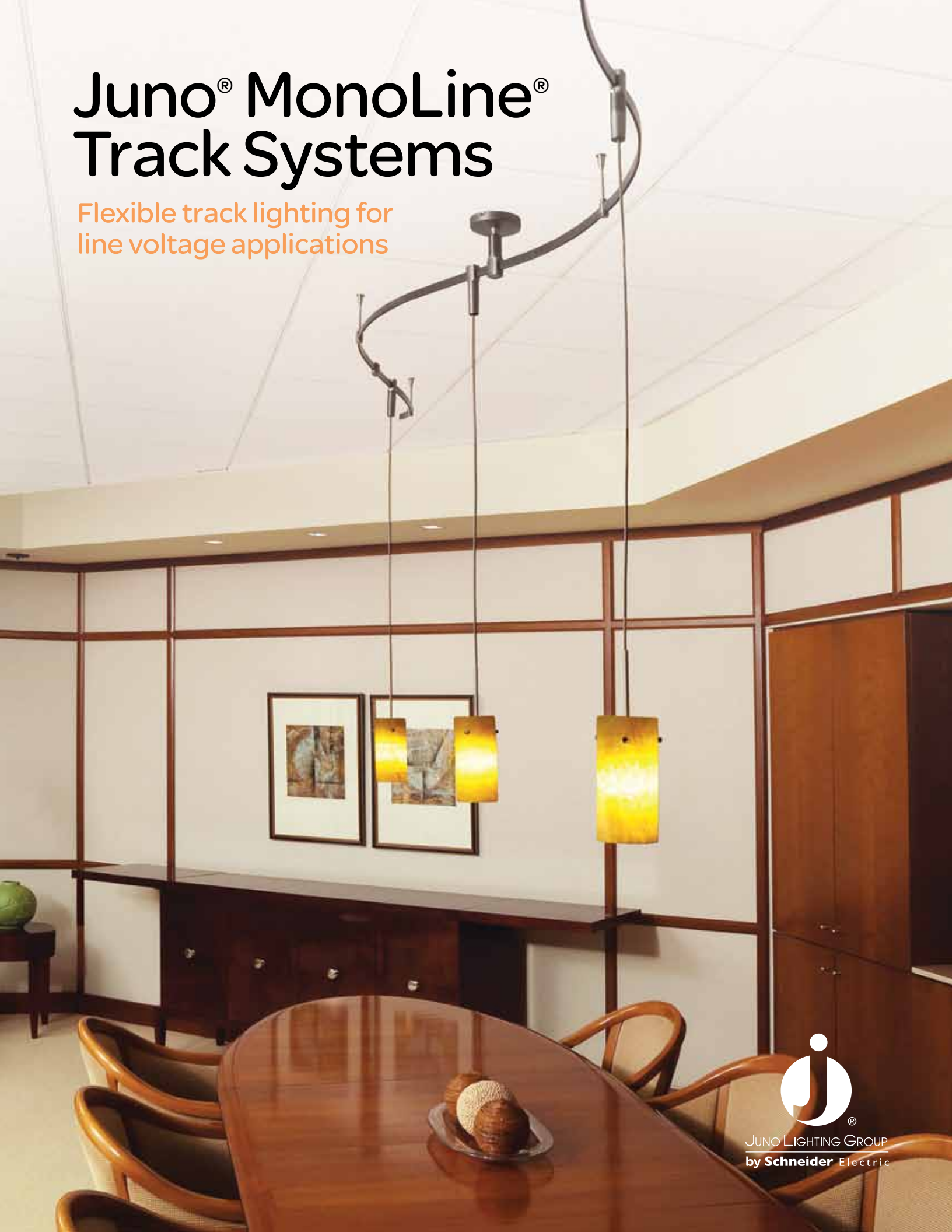


Juno® MonoLine® Track Systems

Flexible track lighting for
line voltage applications



JUNO LIGHTING GROUP
by Schneider Electric

Juno MonoLine...

Introducing the track lighting system with an artistic bent



The Juno MonoLine family of line voltage track products offers unprecedented levels of beauty, creativity, and functionality. Its graceful hand-bendable track, stunning fixtures, and variety of light sources combine to serve a wide range of illumination needs with an elevated sense of style. Accent, wall wash, or task lighting ... retail, commercial, or residential ... no other track system can match MonoLine for flexibility and artistic flair.

graceful
hand-bendable track
stunning
fixtures



MonoLine Commercial Directionals

The Commercial Directional fixtures for MonoLine are a collection of beautifully crafted yet exceptionally rugged track heads that are available with LED, ceramic metal halide (CMH), fluorescent or halogen light sources. They feature all-metal construction and durable satin nickel finish.



MonoLine Designer Directionals

MonoLine Designer Directional fixtures have always been acclaimed for their contemporary good looks. Now, the existing fixture line has been joined by three fashionable LED fixtures that add even more style and efficiency to the mix. Designer Directionals are beautifully finished in satin nickel or vintage bronze.



MonoLine Flexible Track System

The graceful MonoLine track system can be hand-bent to take on any desired shape or lighting design, providing the ultimate in mounting versatility. It features top and bottom conductors to produce a profile that is ultra-sleek, ultra-smooth. A comprehensive package of components and options includes power feeds, supports, joiners and a convenient bending tool for large installations or repetitive forms. Choose from either rich satin nickel or vintage bronze finishes.



Decorative Pendants

MonoLine Decorative Pendants are the epitome of elegance and charm. Each one is handcrafted using Old World materials and methods, such as mouth-blown glass and hand-polished onyx. With a diverse collection of styles to choose from, you are sure to find a pendant that will set your environment apart. Shade hardware is available in satin nickel or vintage bronze (where noted) finishes.



LED Mini-Pendants

Hard to believe such a small pendant could produce so much light. But the Juno LED Mini-Pendant is full of surprises, including up to 163 lumens from only 6.6 watts and a 50,000 hour service life. That's maxi-performance, ultra-efficiency, and mini ownership cost ... all from a fixture just five-inches high.



MonoLine Kits

MonoLine track system kits contain everything you need for a complete line voltage installation. Starter kits can be coordinated with any of the MonoLine fixtures ... simply select a fixture style, then choose your starter kit by track length and finish. Whether you go with a starter kit or a complete kit that includes fixtures, just open the box and you are ready to install.



MonoLine Commercial Directionals

These exceptional fixtures are commercial-grade in every sense of the term: they offer contemporary styling ideal for today's commercial interiors; feature performance characteristics suited to a diversity of applications; and are engineered for peak operating efficiency. When installed on the flexible MonoLine track system, these hardworking fixtures represent commercial lighting at its very best.



LED Spotlights and Wall Washers

The Cylindra SP254 LED Spotlight and SW1/SW2 LED Wall Washers bring the exceptional advantages of LED illumination to the MonoLine system. These ultra-efficient fixtures offer brilliant white light, unrivaled energy savings, and a remarkable service life of 50,000 hours. Plus, with no IR or UV emissions, interiors stay cooler and sensitive materials are protected from fading. LEDs are also the most eco-friendly lighting choice. They contain none of the toxic mercury or lead associated with other light sources and pose no special disposal problems.

flexible MonoLine
track system
+
performance
fixtures



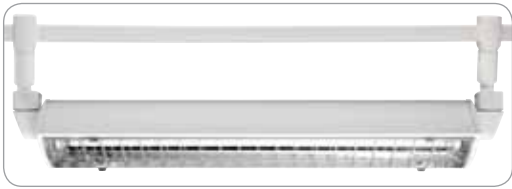
Ceramic Metal Halide (CMH) Spotlights

CMH lamping is available in the Cylindra, Conix, and Concentric Cylinder track fixtures ... three MonoLine fixtures offering classic features and styling. CMH lighting offers outstanding efficacy and long lamp life, and provides excellent color rendering in a wide variety of commercial applications.



Halogen Spotlights

Halogen lamplng is available in Conix track fixtures, as well as in the Facet, Cubix, and Pro-Gimbal ... a series of fixtures featuring bold, unique shapes that complement any contemporary environment. Available in PAR20 and PAR30 styles, all offer the soft, natural look of economical halogen lighting.



Fluorescent Wall Washer

The slender SW5ML Wall Washer offers the economy, performance, and efficiency of fluorescent lighting using high output T5HO lamps. The included stainless steel louver provides optimum visual cut-off and glare control. An acrylic lens accessory makes the SW5ML ideal for food service applications.



MonoLine Commercial Directionals



MonoLine LED Commercial Directionals

SP254MLL 19W LED Cylindra™

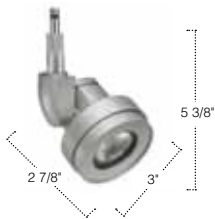


The compact Cylindra LED is an aesthetic masterpiece that offers unsurpassed performance and operating efficiencies. This 19-watt fixture provides brilliant illumination while reducing energy consumption by nearly 75% versus halogen equivalents. The LED driver is cleverly concealed within the housing to minimize the fixture profile. The Cylindra LED is offered in three beam spreads and four color temperatures, including high CRI and Enhanced Spectrum versions. Each fixture comes complete with an integral bayonet-mount accessory holder that is designed to accommodate up to two light control accessories.

Model	Color Temperature	Color Rendering Index	Beam Spread	Finish	Example
SP254MLL	2	K	S	STN	SP254MLL-2K-S-STN
	2 2700K	K 85 CRI Typical	S 13° Spot	STN Satin Nickel	
	3 3000K	HC 93 CRI Typical ¹	N 28° Narrow Flood		
	35 3500K	E Enhanced Spectrum ²	F 45° Flood		
	4 4000K				

¹ HC option available in 2700K & 3000K only
² Enhanced Spectrum available in 3000K & 3500K only

TQJ252L 13W LED Cylindra™

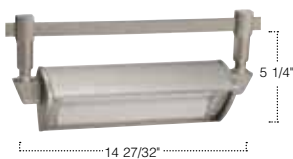


The compact Cylindra LED is an aesthetic masterpiece that offers unsurpassed performance and operating efficiencies. TQJ252L is a 13-watt fixture that provides brilliant illumination while reducing energy consumption by about 80%. It is designed to operate with the MonoLine MLTQJL75 LED-Compatible Quick Jack Transformer Adapter (sold separately – see page 36). It is offered in three beam spreads and four color temperatures, including high CRI versions. Each fixture comes complete with an integral bayonet-mount accessory holder that is designed to accommodate one light control accessory.

Model	Color Temperature	Color Rendering Index	Beam Spread	Finish	Example
TQJ252L	27	K	S	STN	TQJ252L-27K-S-STN
	27 2700K	K 80 CRI Minimum	S 15° Spot	STN Satin Nickel	
	3 3000K	HC 90 CRI Minimum ¹	N 27° Narrow Flood		
	35 3500K		F 41° Flood		
	4 4000K				

¹ HC option available in 2700K & 3000K only

SW1ML LED Wall Wash/Flood



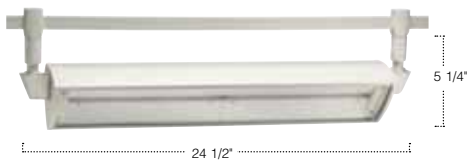
The SW1ML LED Wall Wash/Flood fixture offers high quality, brilliant white light along with substantial energy savings. It produces up to 2059 lumens from just 35 watts nominal, making it nearly as energy efficient as fixtures employing comparable CMH light sources. And with 50,000 hours of maintenance-free service, these LED fixtures are rated to operate 3-4 times longer than CMH. The powerful, uniform light output from these fixtures is available in 2700K, 3000K, 3500K and 4100K color temperatures. High CRI of 80 is typical, and outstanding color consistency is achieved by mixing the right combination of ANSI-binned LEDs. The slender, all-aluminum SW1ML features 90° vertical aiming in a low-profile housing that blends unobtrusively with the MonoLine track system. It is enclosed with a slightly diffuse lens that helps shield the LEDs and optical components from dust and other contaminants.

Model	Color Temperature	Dimming Compatibility	Finish	Example
SW1ML-LED	2K	D	STN	SW1ML-LED-2KD-STN
	2K 2700K	Blank Not Dimmable	STN Satin Nickel	
	3K 3000K	D Dimmable		
	35K 3500K			
	41K 4100K			

MonoLine CMH Commercial Directionals

SW2ML LED Wall Wash/Flood

The SW2ML LED Wall Wash/Flood fixture offers high quality, brilliant white light along with substantial energy savings. It produces up to 4125 lumens from just 70 watts nominal, making it nearly as energy efficient as fixtures employing comparable CMH light sources. And with 50,000 hours of maintenance-free service, these LED fixtures are rated to operate 3-4 times longer than CMH. The powerful, uniform light output from these fixtures is available in 2700K, 3000K, 3500K and 4100K color temperatures. High CRI of 80 is typical, and outstanding color consistency is achieved by mixing the right combination of ANSI-binned LEDs. The slender, all-aluminum SW2ML features 90° vertical aiming in a low-profile housing that blends unobtrusively with the MonoLine tracksystem. It is enclosed with a slightly diffuse lens that helps shield the LEDs and optical components from dust and other contaminants.



Model	Color Temperature	Dimming Compatibility	Finish	Example
SW2ML-LED	2K	D	STN	SW2ML-LED-2KD-STN
	2K 2700K 3K 3000K 35K 3500K 41K 4100K	Blank Not Dimmable D Dimmable	STN Satin Nickel	

SP207MLXP PAR20 Conix™

The sculpted Conix PAR20 CMH fixture features deep lamp regression for reduced glare and optimum visual cut-off. An integral snap-in anti-glare shield/accessory holder accepts up to two light control accessories. Fixture rotation in two axes enables the fixture to be aimed in any direction.



Model	Wattage	Finish	Example
SP207MLXP	20	STN	SP207MLXP-20-STN
	20 20W 39 39W	STN Satin Nickel	

SP232MLT4 T4, G8.5 Concentric Cylinder

The ultra-compact Concentric Cylinder T4/T4.5, G8.5 combines a simple aesthetic with premium performance. Available in spot, narrow flood and flood beam distributions, its computer-contoured faceted reflector is securely mounted to the lamp shroud for precise optical alignment with the lamp. The lamp shroud has a 1" deep integral step baffle for optimal shielding and brightness control. The detachable lamp shroud is easily removed for simplified fixture maintenance. The clear lens provided can be replaced with a variety of light control accessories for optimum beam control. Fixture rotation in two axes enables the fixture to be aimed in any direction.



Model	Wattage	Beam Spread	Finish	Example
SP232MLT4	20	S	STN	SP232MLT4-20-S-STN
	20 20W 39 39W 70 70W	S 10° Spot N 23° Narrow F 32° Flood	STN Satin Nickel	

SP233MLBT BT-5 Concentric Cylinder

The ultra-compact Concentric Cylinder BT-5, PGJ5 combines a simple aesthetic with premium performance. Available in spot, narrow flood and flood beam distributions, its computer-contoured faceted reflector is securely mounted to the lamp shroud for precise optical alignment with the lamp. The lamp shroud has a 1" deep integral step baffle for optimal shielding and brightness control. The detachable lamp shroud is easily removed for simplified fixture maintenance. The clear lens provided can be replaced with a variety of light control accessories for optimum beam control. Fixture rotation in two axes enables the fixture to be aimed in any direction.



Model	Wattage	Beam Spread	Finish	Example
SP233MLBT	20	S	STN	SP233MLBT-20-S-STN
	20 20W 39 39W	S 10° Spot N 20° Narrow F 28° Flood	STN Satin Nickel	

MonoLine CMH Commercial Directionals

SP241MLXM MR16 Cylindra



The Cylindra CMH MR16 fixture combines the energy efficiency of a CMH light source with the compact size of the MR16 lamp profile. The distinctive lamp design incorporates an integral cover glass lens and a convenient GX10 twist and lock base, making relamping effortless. Each fixture comes complete with an integral bayonet-mount accessory holder that is designed to accept up to two light control accessories for optimum beam control. Fixture rotation in two axes enables the fixture to be aimed in any direction.

Model	Wattage	Finish	Example
SP241MLXM	20	STN	SP241MLXM-20-STN
	20 20W 39 39W	STN Satin Nickel	

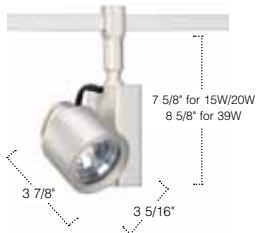
SP244MLXP PAR20 Cylindra



The Cylindra PAR20 fixture features deep lamp regression for reduced glare and optimum visual cut-off. Each fixture comes complete with an integral bayonet-mount accessory holder that is designed to accept up to two light control accessories for optimum beam control. Fixture rotation in two axes enables the fixture to be aimed in any direction.

Model	Wattage	Finish	Example
SP244MLXP	20	STN	SP244MLXP-20-STN
	20 20W 39 39W	STN Satin Nickel	

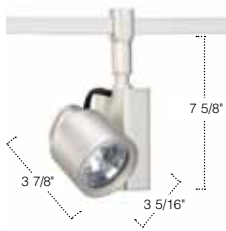
SP254MLT4 T4, GU6.5 Cylindra



The petite Cylindra T4, GU6.5 fixture delivers unmatched optical performance thanks to its miniature T4 lamp and computer-contoured faceted custom reflectors. The T4 lamp is available in 3 different wattages and employs a convenient GU6.5 twist and lock base, making relamping quick and easy. The fixture front housing simply twists off to allow easy access to the lamp compartment. If desired, the factory-supplied clear lens can be replaced with one light control accessory for optimum beam control. Fixture rotation in two axes enables the fixture to be aimed in any direction.

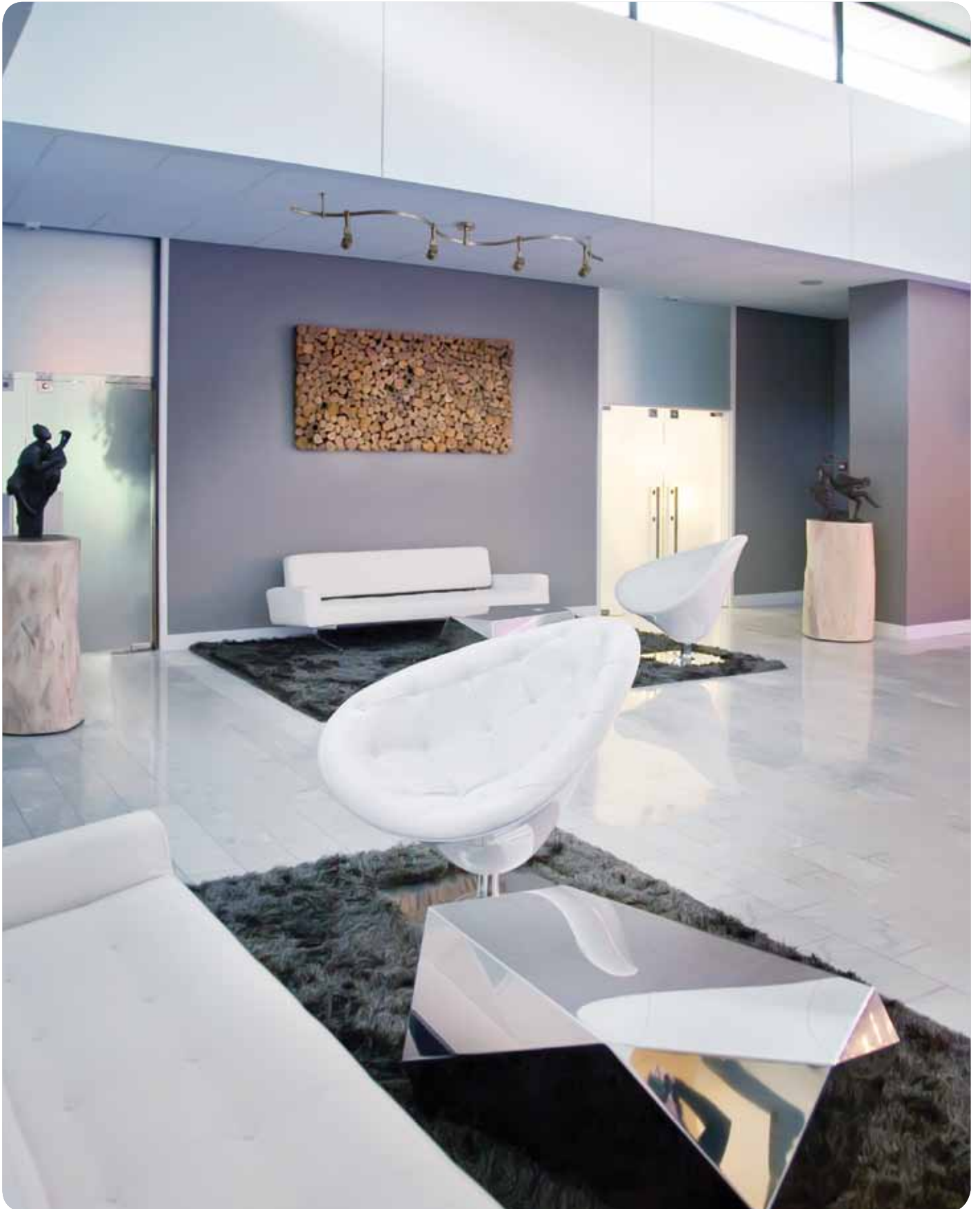
Model	Wattage	Beam Spread	Finish	Example
SP254MLT4	20	S	STN	SP254MLT4-20-S-STN
	15 15W 20 20W 39 39W	S 13° Spot N 25° Narrow F 38° Flood	STN Satin Nickel	

SP255MLBT BT-5/T3.5 Cylindra



The petite Cylindra BT-5/T3.5 fixture delivers unmatched optical performance thanks to its miniature BT-5/T3.5 lamp and computer-contoured faceted custom reflectors. The BT-5/T3.5 lamp employs a convenient PGJ5 twist and lock base, making relamping quick and easy. The fixture front housing simply twists off to allow easy access to the lamp compartment. If desired, the factory-supplied clear lens can be replaced with one light control accessory for optimum beam control. Fixture rotation in two axes enables the fixture to be aimed in any direction.

Model	Wattage	Beam Spread	Finish	Example
SP255MLBT	20	S	STN	SP255MLBT-20-S-STN
	20 20W 39 39W	S 10° Spot N 20° Narrow F 28° Flood	STN Satin Nickel	



MonoLine PAR Halogen Commercial Directionals

SP403MLP PAR30 Pro-Gimbal



The Pro-Gimbal uses 35-75W PAR30 line voltage halogen lamps, relamps from the front and features deep lamp shielding with a baffled aperture. This versatile design can be easily accessorized with up to two light control accessories using an optional media cartridge (see page 12). The MonoLine adapter design enables 360 degree plus rotation, eliminating aiming dead zones. Rotation and aiming can be locked into position using a standard Phillips screwdriver.

Model	Finish	Example
SP403MLP	STN	SP403MLP-STN
STN Satin Nickel		

SP407MLP PAR20 Conix™



The sculpted Conix fixture uses 35-50W PAR20 line voltage halogen lamps and includes an integral snap-in anti-glare shield/accessory holder that accepts up to two light control accessories. The MonoLine adapter design enables 360 degree plus rotation, eliminating aiming dead zones. Rotation and aiming can be locked into position using a standard Phillips screwdriver.

Model	Finish	Example
SP407MLP	STN	SP407MLP-STN
STN Satin Nickel		

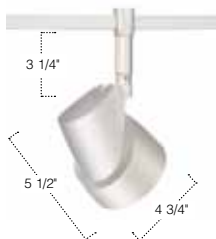
SP852MLP PAR20 Facet™



Sweeping lines, arresting angles, and a brilliant lack of symmetry result in a totally unexpected design. Facet's socket housing morphs into a stem that is uniquely horizontal in nature. Concealed wiring completes the ultra-clean appearance. The MonoLine adapter design enables 360 degree plus rotation, eliminating aiming dead zones. The SP852MLP is designed for use with 35-50W PAR20 line voltage halogen lamps and features high-quality, die cast aluminum construction in attractive satin nickel finish.

Model	Finish	Example
SP852MLP	STN	SP852MLP-STN
STN Satin Nickel		

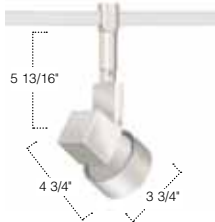
SP853MLP PAR30 Facet™



Sweeping lines, arresting angles, and a brilliant lack of symmetry result in a totally unexpected design. Facet's socket housing morphs into a stem that is uniquely horizontal in nature. Concealed wiring completes the ultra-clean appearance. The MonoLine adapter design enables 360 degree plus rotation, eliminating aiming dead zones. The SP853MLP is designed for use with 35-75W PAR30 line voltage halogen lamps and features high-quality, die cast aluminum construction in attractive satin nickel finish. An optional bayonet-mount media cartridge is available for the SP853MLP (see page 12) that simultaneously accepts up to two light control accessories for optimum beam control.

Model	Finish	Example
SP853MLP	STN	SP853MLP-STN
STN Satin Nickel		

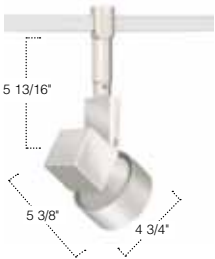
**SP892MLP
PAR20 Cubix™**



The Cubix is a study of the visual relationship between two different geometric forms: the ring and the cube. In this design, the stem becomes a central element, forming a pleasing visual extension of the cube form. The playful personality of the Cubix is sure to add fun to any environment. Concealed wiring completes the ultra-clean appearance. The MonoLine adapter design enables 360 degree plus rotation, eliminating aiming dead zones. The SP892MLP is designed for use with 35-50W PAR20 line voltage halogen lamps and features high-quality, die cast aluminum construction in attractive satin nickel finish.

Model	Finish	Example
SP892MLP	STN	SP892MLP-STN
STN Satin Nickel		

**SP893MLP
PAR30 Cubix™**



The Cubix is a study of the visual relationship between two different geometric forms: the ring and the cube. In this design, the stem becomes a central element, forming a pleasing visual extension of the cube form. The playful personality of the Cubix is sure to add fun to any environment. Concealed wiring completes the ultra-clean appearance. The MonoLine adapter design enables 360 degree plus rotation, eliminating aiming dead zones. The SP893MLP is designed for use with 35-75W PAR30 line voltage halogen lamps and features high-quality, die cast aluminum construction in attractive satin nickel finish. An optional bayonet-mount media cartridge is available for the SP893MLP (see page 12) that simultaneously accepts up to two light control accessories for optimum beam control.

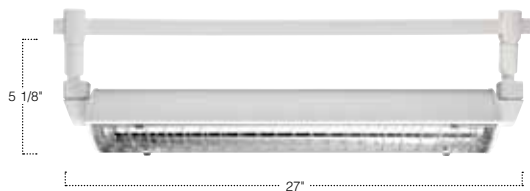
Model	Finish	Example
SP893MLP	STN	SP893MLP-STN
STN Satin Nickel		

MonoLine Fluorescent Wall Wash Fixture

**SW5ML
T5HO Wall Washer**

The SW5ML integrates the latest generation of ultra-compact, linear fluorescent lamps that offer 20,000-hour lamp life with exceptional lumen maintenance. A computer designed reflector maximizes optical efficiency and produces exceptional, uniform illumination of perimeter walls and displays. Its sleek profile is so shallow that it virtually blends in with the track. The SW5ML features an electronic ballast for maximum energy efficiency and quiet operation. Each fixture includes an integral one-piece, snap-in metal louver which provides the perfect blend of brightness control, aesthetics and efficiency. An optional clear acrylic lamp containment lens/barrier is available for food service applications.

Model	Lamps	Finish	Example
SW5ML	T524	STN	SW5ML-T524-STN
T524 Two 24W T5HO Fluorescent			STN Satin Nickel

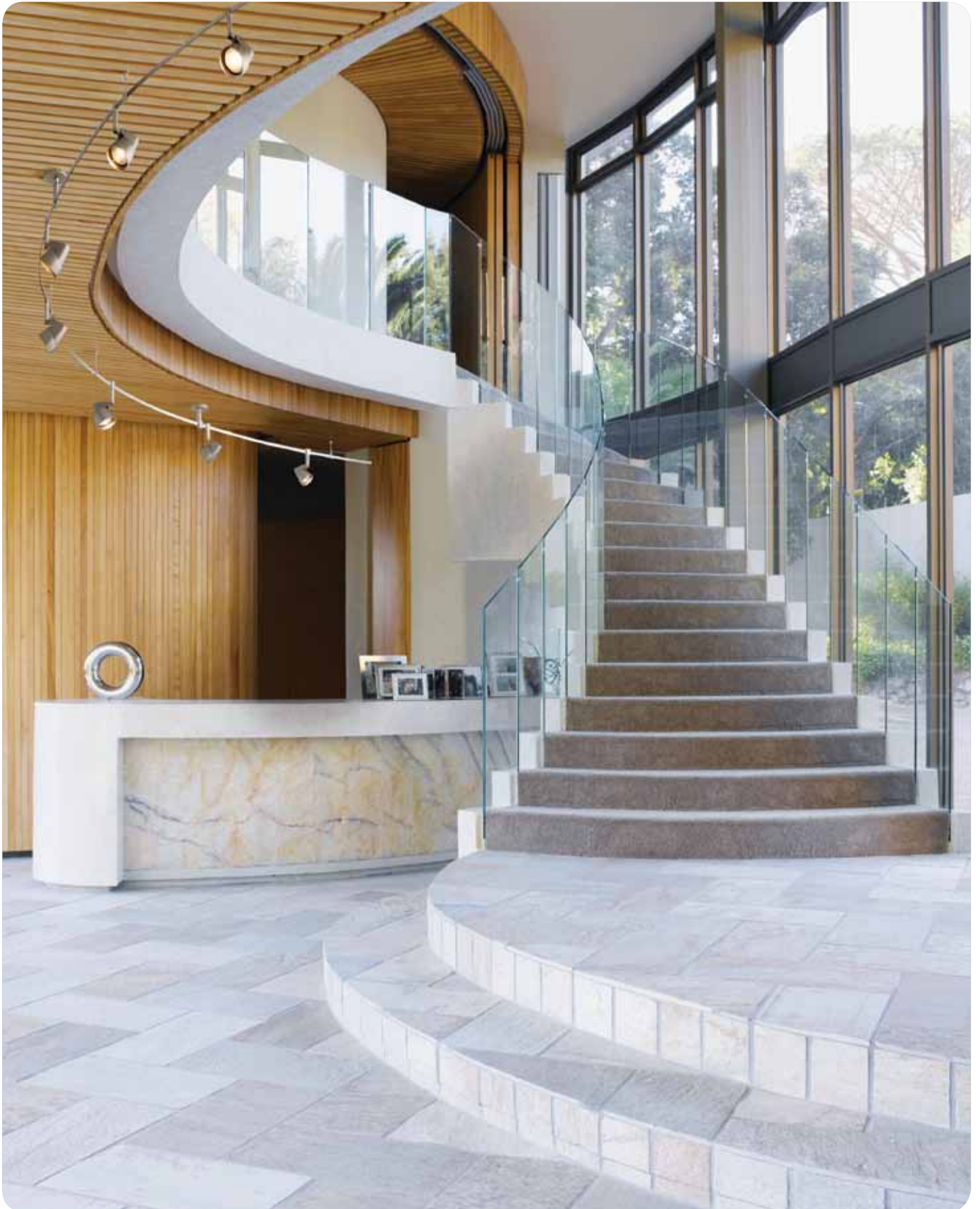


Accessory for SW5ML: T5L22CL Clear Acrylic Lens

Commercial Directionals Light Control Accessories



		2"	Compatible With	2 3/4"	Compatible With	3 3/4"	Compatible With				
Media Cartridges Required for listed fixtures to hold light control accessories.						T853MC-BL <i>Accepts up to 2 accessories</i>	SP853MLP				
						T893MC-BL <i>Accepts up to 2 accessories</i>	SP893MLP				
						TM530BL <i>Accepts up to 2 accessories</i>	SP403MLP				
Light Control Lenses These alter the light distribution of a given lamp, enlarging or elongating it, softening the beam edge or removing striations.		Light Control Lenses		SP241MLXM, TQJ252L							
		Uniformity Lens	T7421					T5921	SP207MLP	T5621	SP254MLL and fixtures with T853MC, T893MC or TM530 Accessory Holder
		Prismatic Spread Lens	T7477					T597	SP232MLT4	T5677	
		Linear Spread Lens	T7478					T598	SP233MLBT	T5678	
		Diffusion Lens	T7420						SP244MLXP		
			SP254MLT4								
UV Filters These museum quality lenses filter out ultraviolet radiation below 400 nanometers to protect fade sensitive art and objects.		UV Filter	T7422	T5922		T5622					
Dichroic Color Correction Filters Color Correction Filters correct the light, either to warm it up to approximate incandescent, or cool it down to approximate daylight.		Color Correction Filters									
		Halogen-to-Incandescent, 2700K	T7418					T5918	T5618		
		Halogen-to-Daylight, 4250K	T7416								
		HID-to-Incandescent for HID Lampholders	T7419	T5919		T5619					
Color Filters These change white light into colored light and are available in colored glass and more efficient/saturated dichroic filters.		Colored Glass Filters									
		Medium Pink	T741					T591	T561		
		Warm Red	T742					T592	T562		
		Daylight Blue	T743					T593	T563		
		Medium Blue	T744					T594	T564		
		Medium Amber	T745					T595	T565		
		Medium Green	T746					T596	T566		
		Dichroic Glass Filters									
		Red	T7401								
		Medium Green	T7402								
		Medium Blue	T7403								
		Yellow	T7404								
		Magenta	T7405								
Blue Green (Cyan)	T7406										
Louvers Hexcell and cube cell louvers reduce perceived fixture brightness.		Louvers									
		Hexcell Louvers	T7459BL					T5928BL			
		Cube Cell Louvers							T569BL		

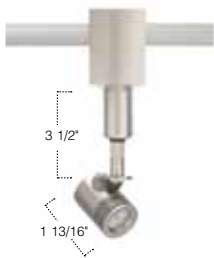


MonoLine Designer Directionals

The Designer Directional collection adds a special flair to MonoLine track systems. The LED Mini-Cylinder, Reno, Vegas, Delta, Supernova, Phoenix, and Discovery styles feature unique shapes finished in satin nickel or vintage bronze, with stunning shade designs available in colored glass or matching metal. With a wide variety of glass colors and shade finishes to choose from, these LED and halogen fixtures are sure to enhance any décor.

MonoLine LED Designer Directionals

TQJ114 Quick Jack LED Mini-Cylinder



The 6-watt Quick Jack LED Mini-Cylinder fixture produces as much as 200 useable lumens, illumination approximating 20 watt MR11 halogen...an energy savings of about 70%. The expected service life of 50,000 hours yields more than 10 years of maintenance-free operation in typical commercial applications. In lower-usage residential installations, they may never need replacement. Available in 2700K, 3000K and 4100K color temperatures with a typical 85 CRI, LED Mini-Cylinder fixtures offer precision machined aluminum and die cast aluminum construction. To operate on MonoLine line voltage track, TQJ114 fixtures require the MLTQJL75 LED-Compatible Quick Jack Transformer Adapter (sold separately – see page 36).

Model	Color Temperature	Beam Spread	Finish	Example
TQJ114	3K	NFL	STN	TQJ114-3K-NFL-STN
	2K 2700K 3K 3000K 4K 4100K	SP 16° Spot NFL 22° Narrow Flood FL 38° Flood	STN Satin Nickel	

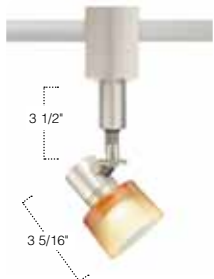
SP992 Reno Quick Jack LED Spotlight



The 6-watt Quick Jack LED Reno fixture produces as much as 200 useable lumens, illumination approximating 20 watt MR11 halogen...an energy savings of about 70%. The expected service life of 50,000 hours yields more than 10 years of maintenance-free operation in typical commercial applications. In lower-usage residential installations, they may never need replacement. Available in 2700K, 3000K and 4100K color temperatures with a typical 85 CRI, Reno fixtures offer precision machined aluminum and die cast aluminum construction along with a unique perforated shade in a variety of colors to suit any environment. To operate on MonoLine line voltage track, SP992 fixtures require the MLTQJL75 LED-Compatible Quick Jack Transformer Adapter (sold separately – see page 36).

Model	Color Temperature	Beam Spread	Hardware Finish	Shade Finish	Example
SP992	2	S	STN	BLK	SP992-2S-STN-BLK
	2 2700K 3 3000K 4 4100K	S 16° Spot N 22° Narrow Flood F 38° Flood	STN Satin Nickel	BLK Black BLU Blue CHR Chrome RED Red YEL Yellow	

SP995 Vegas Quick Jack LED Spotlight



The 6-watt Quick Jack LED Vegas fixture produces as much as 200 useable lumens, illumination approximating 20 watt MR11 halogen...an energy savings of about 70%. The expected service life of 50,000 hours yields more than 10 years of maintenance-free operation in typical commercial applications. In lower-usage residential installations, they may never need replacement. Available in 2700K, 3000K and 4100K color temperatures with a typical 85 CRI, Vegas fixtures offer precision machined aluminum and die cast aluminum construction along with a sleek cylindrical glass or metal shade in a variety of colors and finishes to complement any décor. To operate on MonoLine line voltage track, SP995 fixtures require the MLTQJL75 LED-Compatible Quick Jack Transformer Adapter (sold separately – see page 36).

Model	Color Temperature	Beam Spread	Hardware Finish	Shade Finish	Example
SP995	2	S	STN	AMB	SP995-2S-STN-AMB
	2 2700K 3 3000K 4 4100K	S 16° Spot N 22° Narrow Flood F 38° Flood	STN Satin Nickel	AMB Amber BLU Blue CLR Clear FRT Frost STN Satin Nickel	

MonoLine GU10 Designer Directionals

SP10MLU Delta

Fully adjustable spot fixture with front accent shade. Shade is available in frosted glass or plated metal in a variety of color/finish choices. 120V, 50W max. GU10 MR16 halogen lamp (included).



Model	Hardware Finish	Shade Finish	Example
SP10MLU	STN	AMB	SP10MLU-STN-AMB

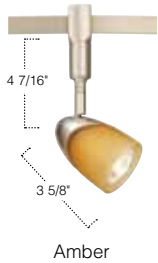
BRZ Vintage Bronze
STN Satin Nickel

AMB Amber
BRZ Vintage Bronze
FRT Frost
STN Satin Nickel



SP11MLU Supernova

Fully adjustable spot fixture with front accent shade. Shade is available in frosted glass with two color choices. 120V, 50W max. GU10 MR16 halogen lamp (included).



Model	Hardware Finish	Shade Finish	Example
SP11MLU	STN	AMB	SP11MLU-STN-AMB

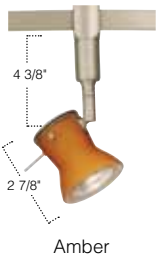
BRZ Vintage Bronze
STN Satin Nickel

AMB Amber
FRT Frost



SP12MLU Phoenix

Fully adjustable spot fixture with front accent shade. Shade is available in frosted glass with three color choices. 120V, 50W max. GU10 MR16 halogen lamp (included).



Model	Hardware Finish	Shade Finish	Example
SP12MLU	STN	AMB	SP12MLU-STN-AMB

BRZ Vintage Bronze
STN Satin Nickel

AMB Amber
OPL Opal
RED Red



SP95MLU Discovery

Fully adjustable spot fixture with front accent shade. Shade is available in clear or frosted glass or plated metal in a variety of color/finish choices. 120V, 50W max. GU10 MR16 halogen lamp (included).



Model	Hardware Finish	Shade Finish	Example
SP95MLU	STN	STN	SP95MLU-STN-STN

BRZ Vintage Bronze
STN Satin Nickel

AMB Amber
BRZ Vintage Bronze
CLR Clear
FRT Frost
STN Satin Nickel



How to order **Pendants** for the MonoLine System



The Juno MonoLine trac system is the perfect foundation for Juno Decorative Pendants. It can accommodate pendants using a variety of line voltage lamp choices including ENERGY STAR® Qualified CFL, halogen G9 and economical medium base styles. Low voltage pendant versions such as ultra-efficient, long life LED and elegant halogen bi-pin types can also be operated on MonoLine using MLTQJL or MLTQJ Quick Jack Transformer Adapters. Contemporary Decorative Pendants are provided complete with lamp except where indicated. Classic Decorative Pendants are ordered ala carte, with shades, cordsets and lamps (except LED) all ordered separately. With over 50 line voltage styles and finishes to choose from, plus over 100 low voltage styles and finishes to choose from, you are sure to find the ideal pendant for your application.

Ordering is easy



Pick your
perfect
pendant



Select
a light
source

Simply pick your perfect pendant from the stunning collection of Juno Decorative Pendants. Then, select a light source for your pendant ... you have incandescent, halogen, CFL, and ultra-efficient LEDs to choose from. That's all there is to it!



Quick Jack Transformer Adapter

MonoLine-compatible low voltage pendants utilize the unique Quick Jack adapter that permits them to be connected to the line voltage MonoLine system using a Quick Jack Transformer Adapter. Use the standard MLTQJ for all halogen Quick Jack pendants; use the LED-compatible MLTQJL for all LED Quick Jack pendants. Both are dimmable using high quality electronic low voltage dimmers.

Pendant Light Sources

LED



Most pendants in the Juno collection are available with 5-watt LED light engines (included). They feature the very latest in LED technology to deliver brilliant white light in 2700K or 3000K color temperatures with unsurpassed energy savings and an extraordinary service life of 50,000 hours. LEDs consume as little as 15% of the energy of conventional lighting and last up to 20-times longer. LED pendants and cordsets are provided with a Quick Jack connector for simple cord shortening and must be specified with the LED-compatible Quick Jack Transformer Adapter (MLTQJL— order separately) to enable low voltage LEDs to be connected to line voltage MonoLine track.

Low Voltage Halogen Bi-Pin



All of the Juno decorative pendants can be specified with 12V halogen bi-pin lamps. These economical low voltage miniature lamps provide bright, warm light which naturally warms further when dimmed. 50W halogen bi-pin lamps are included with Contemporary Pendants. Halogen bi-pin lamps are NOT included with Classic Pendants and must be ordered separately. Halogen pendants and cordsets are provided with a Quick Jack connector for simple cord shortening and must be specified with the Quick Jack Transformer Adapter (MLTQJ – order separately) to enable low voltage halogen lamps to be connected to line voltage MonoLine track.

GU24 CFL



Select MonoLine pendants are available with ENERGY STAR® Qualified GU24 CFL lamps. Compared to conventional lighting, they can reduce your per-lamp energy costs by about 60% and cut relamping costs in half. The included GU24 CFL lamp features a twist-and-lock base with internal ballast. Product selection includes 13, 18 and 26 watt ratings with warm-white color temperatures.

G9 Halogen



All of the Juno line voltage decorative pendants can be specified with miniature G9 halogen lamps. Supplied G9 frosted lamps are 120V/40W. They provide bright, efficient lighting with outstanding color rendering and warm natural light when dimmed.

Medium Base

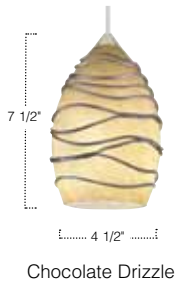


Select MonoLine pendants can be supplied with medium base sockets, also known as the E26 Edison base, which accept screw-in type lamps including incandescent, CFL, LED, and cold cathode*. Maintenance is easier and faster, and screw-in type lamps are commonly available.

** Correct lamp usage determined by lamp size, wattage and type of lamp. Check lamp specifications with lamp manufacturer for equivalency.*

Contemporary Decorative Pendants

P38 Dolce



For a look that's truly "sweet" consider the P38 Dolce shade wrapped with dark, iridescent swirls. Includes shade and hardware, 72" cordset and lamp (except "A" medium base lamp types – order separately).



Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P38	ML	G	STN	CDZ	P38MLG-STN-CDZ
QJ Quick Jack Adapter	Blank ¹ LA2 ² LA3 ²	12V, 50W, Halogen Bi-Pin 5W LED, 2700K 5W LED, 3000K	BRZ Vintage Bronze STN Satin Nickel	CDZ Chocolate Drizzle	
ML MonoLine Adapter	A ³ G S3	Medium Base Socket G9 40W 13W GU24 CFL			

1 Requires MLTQJ Transformer adapter – order separately.
2 Requires MLTQJL Transformer adapter – order separately.
3 Compatible medium base lamp types: 40W or 60W (recommended), G16.5 or A15 (recommended) or equivalent.

P45 Tall Dome



Create a magical aura in three contemporary colors with the impressive P45 Tall Dome cased etched glass shade. Includes shade and hardware, 72" cordset and lamp (except "A" medium base lamp types – order separately).

Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P45	ML	G	STN	AMB	P45MLG-STN-AMB
QJ Quick Jack Adapter	Blank ¹ LA2 ² LA3 ²	12V, 50W, Halogen Bi-Pin 5W LED, 2700K 5W LED, 3000K	BRZ Vintage Bronze STN Satin Nickel	AMB Amber FRT Frost LIM Lime Green	 Frost  Lime Green
ML MonoLine Adapter	A ³ G S3	Medium Base Socket G9 40W 13W GU24 CFL			

1 Requires MLTQJ Transformer adapter – order separately.
2 Requires MLTQJL Transformer adapter – order separately.
3 Compatible medium base lamp types: 40W or 60W or 75W or 100W (recommended), G16.5 or A15 or A19 (recommended) or equivalent.

P47 Fargo



The P47 Fargo glass shade features a hand-crafted design inspired by the fury of a winter storm. Includes shade and hardware, 72" cordset and lamp.


Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P47	ML	G	STN	BLZ	P47MLG-STN-BLZ
QJ Quick Jack Adapter	Blank ¹ LA2 ² LA3 ²	12V, 50W, Halogen Bi-Pin 5W LED, 2700K 5W LED, 3000K	STN Satin Nickel	BLZ Blizzard	
ML MonoLine Adapter	G S3	G9 40W 13W GU24 CFL			

1 Requires MLTQJ Transformer adapter – order separately.
2 Requires MLTQJL Transformer adapter – order separately.

P52 Onyx Dome



The P52 Onyx Dome shade is cut from natural Onyx stone and polished to a beautiful finish. Since no two shades are exactly alike, Juno hand-matches shades in the same sales order. Includes shade and hardware, 72" cordset and lamp.


Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P52	ML	G	STN	AMO	P52MLG-STN-AMO
QJ Quick Jack Adapter	Blank¹	12V, 50W, Halogen Bi-Pin	BRZ Vintage Bronze	AMO Amber Onyx	 White Onyx
	LA2²	5W LED, 2700K	STN Satin Nickel	WHO White Onyx	
	LA3²	5W LED, 3000K			
ML MonoLine Adapter	G	G9 40W			

1 Requires MLTQJ Transformer adapter – order separately.
2 Requires MLTQJL Transformer adapter – order separately.

P61 Medium Dome



The P61 Medium Dome cased etched glass fixture is topped with a conical finial that completes its tapered shape. Includes shade and hardware, 72" cordset and lamp.

Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P61	ML	G	STN	OPL	P61MLG-STN-OPL
QJ Quick Jack Adapter	Blank¹	12V, 50W, Halogen Bi-Pin	BRZ Vintage Bronze	AMB Amber	 Amber
	LA2²	5W LED, 2700K	STN Satin Nickel	OPL Opal	
	LA3²	5W LED, 3000K			
ML MonoLine Adapter	G	G9 40W			

1 Requires MLTQJ Transformer adapter – order separately.
2 Requires MLTQJL Transformer adapter – order separately.

P68 Tear Drop

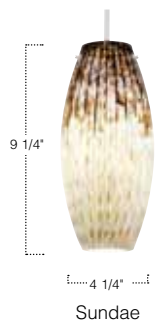


The hand-blown P68 Tear Drop glass shade comes in a dramatic hand-crafted finish which resembles the flames of a raging firestorm. Includes shade and hardware, 72" cordset and lamp (except "A" medium base lamp types – order separately).



Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P68	ML	G	STN	AMS	P68MLG-STN-AMS
QJ Quick Jack Adapter	Blank¹	12V, 50W, Halogen Bi-Pin	BRZ Vintage Bronze	AMS Amber Storm	
	LA2²	5W LED, 2700K	STN Satin Nickel		
	LA3²	5W LED, 3000K			
ML MonoLine Adapter	A³	Medium Base Socket			
	G	G9 40W			
	S3	13W GU24 CFL			

1 Requires MLTQJ Transformer adapter – order separately.
2 Requires MLTQJL Transformer adapter – order separately.
3 Compatible medium base lamp types: 40W or 60W (recommended), G16.5 or A15 (recommended) or equivalent.

P88 Charlotte



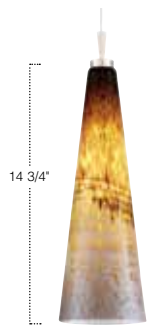
Choose from three dramatic looks with the P88 Charlotte elliptical-shaped glass shade, a striking addition to any room. Includes shade and hardware, 72" cordset and lamp.

Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P88	ML	G	STN	SUN	P88MLG-STN-SUN
QJ Quick Jack Adapter	Blank¹	12V, 50W, Halogen Bi-Pin	BRZ Vintage Bronze	AMS Amber Storm	 Amber Storm
	LA2²	5W LED, 2700K	STN Satin Nickel	RAD Radiant Red	
	LA3²	5W LED, 3000K		SUN Sundae	
ML MonoLine Adapter	G	G9 40W			 Radiant Red

1 Requires MLTQJ Transformer adapter – order separately.
2 Requires MLTQJL Transformer adapter – order separately.

Contemporary Decorative Pendants

P95 Long Cone



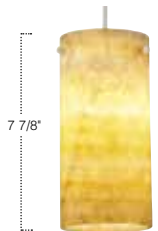
Tortoise

The chic P95 Long Cone art glass fixture is hand-blown in a dramatic finish which resembles a tortoise shell pattern. Includes shade and hardware, 72" cordset and lamp (except "A" medium base lamp types – order separately).

Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P95	ML	G	STN	TOR	P95MLG-STN-TOR
QJ Quick Jack Adapter	Blank ¹ 12V, 50W, Halogen Bi-Pin	BRZ Vintage Bronze	TOR Tortoise		
	LA2 ² 5W LED, 2700K	STN Satin Nickel			
	LA3 ² 5W LED, 3000K				
ML MonoLine Adapter	A ³ Medium Base Socket				
	G G9 40W				

- 1 Requires MLTQJ Transformer adapter – order separately.
- 2 Requires MLTQJL Transformer adapter – order separately.
- 3 Compatible medium base lamp types: 40W or 60W or 75W or 100W (recommended) or 150W, G16.5 or A15 or A19 (recommended) or equivalent.

P136 Medium Cylinder



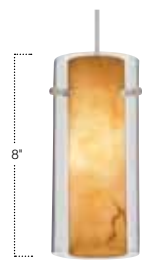
Amber Onyx

The P136 Medium Cylinder shade is crafted into a cylindrical shape from natural Onyx stone and buffed to give it an alluring appearance. Since no two shades are exactly alike, Juno hand-matches shades in the same sales order. Includes shade and hardware, 72" cordset and lamp (except "A" medium base lamp types – order separately).

Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P136	ML	G	STN	AMO	P136MLG-STN-AMO
QJ Quick Jack Adapter	Blank ¹ 12V, 50W, Halogen Bi-Pin	BRZ Vintage Bronze	AMO Amber Onyx		
	LA2 ² 5W LED, 2700K	STN Satin Nickel			
	LA3 ² 5W LED, 3000K				
ML MonoLine Adapter	A ³ Medium Base Socket				
	G G9 40W				
	S3 13W GU24 CFL				
	S8 18W GU24 CFL				
	S6 26W GU24 CFL				

- 1 Requires MLTQJ Transformer adapter – order separately.
- 2 Requires MLTQJL Transformer adapter – order separately.
- 3 Compatible medium base lamp types: 40W or 60W (recommended) or 75W or 100W, G16.5 or A15 (recommended) or A19 or equivalent.

P160 Tubes



Stone

The P160 Tubes features a layered aesthetic with a tubular inner glass shade, available in Frost or hand-painted faux Stone finish, which is encased by a clear tubular outer glass.

Model	Mounting Adapter	Lamp	Hardware Finish	Shade Finish	Example
P160	ML	G	STN	STO	P160MLG-STN-STO
QJ Quick Jack Adapter	Blank ¹ 12V, 50W, Halogen Bi-Pin	BRZ Vintage Bronze	FRT Frost		
		STN Satin Nickel	STO Stone		
ML MonoLine Adapter	G G9 40W				

- 1 Requires MLTQJ Transformer adapter – order separately.

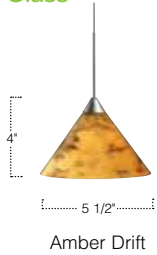


Frost



Classic Decorative Pendants

TLP310 Short Cone - Glass



Hand blown cased glass shade with opal interior and satin nickel plated finial.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP310AMBERDRIFT		Pendant cordset required. Must be ordered separately – see page 25.
TLP310COBALT		Compatible with 12V, 5W LED pendant cordset.
TLP310NIGHTBLUE		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.
TLP310OPAL		
TLP310SUNSETGOLD		

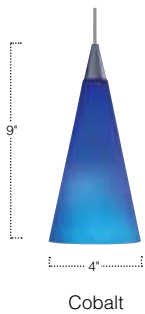
TLP311 Short Cone - Metal



Spun metal shade with high-reflectance white interior finish and satin nickel plated finial.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP311SILVER		Pendant cordset required. Must be ordered separately – see page 25.
		Compatible with 12V, 5W LED pendant cordset.
		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.

TLP312 Tall Cone



Hand blown cased glass shade with opal interior and satin nickel plated finial.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP312COBALT		Pendant cordset required. Must be ordered separately – see page 25.
TLP312OPAL		Compatible with 12V, 5W LED pendant cordset.
TLP312PISTACHIO		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.
TLP312ROUGE		
TLP312SUNSETGOLD		

TLP314 Flute - Glass



Hand blown cased glass shade with opal interior and satin nickel plated finial.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP314COBALTGLOSS		Pendant cordset required. Must be ordered separately – see page 25.
TLP314GLACIER		Compatible with 12V, 5W LED pendant cordset.
TLP314ICE		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.
TLP314INFERNO		
TLP314OPAL		

TLP315 Flute - Metal

Spun metal shade with high-reflectance white interior finish and satin nickel plated finial. The silver finish is a textured metallic silver plated finish and the midnight finish is similar to a black chrome finish.

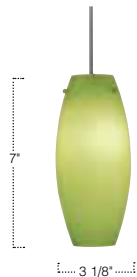


Silver

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP315MIDNIGHT		Pendant cordset required. Must be ordered separately – see page 25.
TLP315SILVER		Compatible with 12V, 5W LED pendant cordset. Compatible with halogen cordset and 12V or 24V, 37W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.

TLP322 Ellipse

Hand blown cased glass shade with opal interior and satin nickel plated support spider.



Pistachio

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP322COBALT		Pendant cordset required. Must be ordered separately – see page 25.
TLP322OPAL		Compatible with 12V, 5W LED pendant cordset.
TLP322PISTACHIO		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule.
TLP322ROUGE		
TLP322SUNSETGOLD		

TLP320 Flame

Hand blown cased glass shade with opal interior and satin nickel plated support spider.

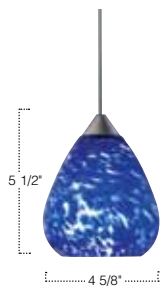


Inferno

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP320INFERNO		Pendant cordset required. Must be ordered separately – see page 25.
TLP320MAIZE		Compatible with 12V, 5W LED pendant cordset.
TLP320OPAL		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule.
TLP320PISTACHIO		

TLP318 Teardrop

Hand blown cased glass shade with opal interior and satin nickel plated finial.



Ice

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP318ICE		Pendant cordset required. Must be ordered separately – see page 25.
TLP318INFERNO		Compatible with 12V, 5W LED pendant cordset.
TLP318GLACIER		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.
TLP318OPAL		
TLP318SUNSETGOLD		

Classic Decorative Pendants

TLP326 RLM - Glass



Hand blown cased glass shade with opal interior and chrome plated top cap.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP326MAIZE		Pendant cordset required. Must be ordered separately – see page 25.
TLP326OPAL		Compatible with 12V, 5W LED pendant cordset. Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.

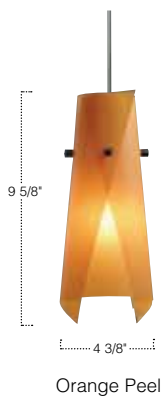
TLP324 Cylinder



Hand blown cased glass shade with opal interior and satin nickel plated support spider.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP324MAIZE		Pendant cordset required. Must be ordered separately – see page 25.
TLP324OPAL		Compatible with 12V, 5W LED pendant cordset. Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.

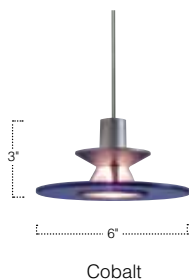
TLP316 Wrap



Precision cut, interleaved layers of suede polycarbonate or parchment sheet captured by a nickel plated support spider and cap nuts.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP316FROST		Pendant cordset required. Must be ordered separately – see page 25.
TLP316ORANGEPEEL		Compatible with 12V, 5W LED pendant cordset.
TLP316PARCHMENT		Compatible with halogen cordset and 12V or 24V, 50W max., T4 GY6.35 bi-pin capsule or MR16CG cover glass lamp.

TLP328 Disc



Precision aluminum casting with integrated aperture ring securely supports tempered glass disc. Use of dichroic MR16 lamps washes inverted cone with a decorative aura.

Catalog Number	Finish	Lamp / Cordset Compatibility
TLP328AMBER		Pendant cordset required. Must be ordered separately – see page 25.
TLP328COBALT		Compatible with halogen cordset and 12V or 24V, 50W max., MR16CG cover glass lamp.
TLP328FROST		

LED/Halogen Pendant Cordsets

Quick Jack Pendant Cordsets

Quick Jack LED Pendant Cordsets

To operate LED Classic Decorative Pendants with the MonoLine system, select one of the Quick Jack LED Pendant Cordsets shown below. To operate halogen Classic Decorative Pendants with the MonoLine system, select one of the Quick Jack Pendant Cordsets shown below. Also requires MLTQJL LED-Compatible Transformer Adapter (order separately – see page 36). Includes LED light engine with heat sink and proprietary silicone diffuser ball, Quick Jack adapter for field-shortening cable, 78" or 144" of plated coaxial cable and 7" cord straightening sleeve.

Catalog #	Description	Color Temperature	Finish
TLQJPLED78-XX-NI	12V, 5W Quick Jack LED Pendant Cordset, 78" Long	27K 2700K 3K 3000K	NI Nickel
TLQJPLED144-XX-NI	12V, 5W Quick Jack LED Pendant Cordset, 144" Long	27K 2700K 3K 3000K	NI Nickel

For complete catalog number, specify finish when ordering fixture.

Ordering Example: TLQJPLED78-27K-NI (replace XX in catalog # with color temperature code)

Quick Jack Halogen Pendant Cordsets

To operate halogen Classic Decorative Pendants with the MonoLine system, select one of the Quick Jack Halogen Pendant Cordsets shown below. Also requires MLTQJ Transformer Adapter (order separately – see page 36). Includes Quick Jack adapter for field shortening cable, 78" or 144" of plated coaxial cable, 7" cord straightening sleeve, socket assembly and frosted glass diffuser capsule.

Catalog #	Description	Finish
TLQJP78NI	Quick Jack Halogen Pendant Cordset, 78" Long	NI Nickel
TLQJP144NI	Quick Jack Halogen Pendant Cordset, 144" Long	NI Nickel

Halogen Bi-Pin Lamps

T4 Bi-Pin Base Lamps

Catalog #	Watts	Volts	Lamp Type	Clear/Frosted	Rated Lumens*	Lamp Life (hours)*
TL925	35	12	Halogen	Clear	600	4,000
TL926	50	12	Halogen	Clear	930	4,000

*Rated lumens and lamp life provided by lamp manufacturer.

LED Mini-Pendants

MonoLine LED Mini-Pendants add elegance, depth and dimension to any lighting design. The precision-machined aluminum bodies include striking flutes or slender cylinders with optional factory-installed colored glass accents. Available in a variety of plated or painted finishes, their sleek appearance is accentuated by an ultra-thin, plated braided cable. Beyond aesthetics, MonoLine LED Mini-Pendants are both versatile and functional. The 37° flood distribution is ideal for illumination over tables, countertops and cash wraps; and color rendering is outstanding, with 2700K and 3000K color temperatures with 85 CRI typical. Fixtures are dimmable using high quality low voltage dimmers.* The 6-watt nominal power consumption approximates that of a 20 watt halogen fixture and each pendant has a maintenance-free 50,000 hour rated life, making MonoLine LED Mini-Pendants a beautifully efficient and practical choice. MLTQJL LED-Compatible Transformer Adapter required (order separately – see page 36).



Initial Footcandles

One Unit, 6W LED Mini-Pendant, 37° Beam

Distance to Illuminated Work Plane (Feet)	Footcandles Beam Center	Beam Diameter
1.5	166	1.0'
2.0	94	1.4'
2.5	60	1.7'
3.0	42	2.1'
3.5	31	2.4'
4.0	23	2.8'

Pendants with optional glass accents may exhibit slightly lower light output.

Pendant shown actual size

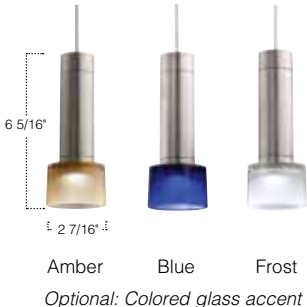
Cylinder



Ordering Information

Examples: **TQJPL1782SNSTN, TQJPL11443BZAMBBRZ**

System Type	Lamp	Pendant Style	Cord Length	Color Temperature	Pendant Body Finish	Glass Color	Adapter Finish*
TQJP	L	1	78	2	WH		STN
TQJP Quick Jack Pendant	L 6W LED	1 Cylinder	78 78" 144 144"	2 2700K 3 3000K	WH White BL Black SN Satin Nickel BZ Bronze	BLANK No Glass AMB Amber BLU Blue FRT Frost	STN Satin Nickel BRZ Bronze



*Select pendant adapter finish to match track system finish

Flute



Ordering Information

Examples: **TQJPL2782SNSTN, TQJPL2783BLBRZ**

System Type	Lamp	Pendant Style	Cord Length	Color Temperature	Pendant Body Finish	Adapter Finish*
TQJP	L	2	78	2	WH	WH
TQJP Quick Jack Pendant	L 6W LED	2 Flute	78 78" 144 144"	2 2700K 3 3000K	WH White BL Black SN Satin Nickel BZ Bronze	STN Satin Nickel BRZ Bronze

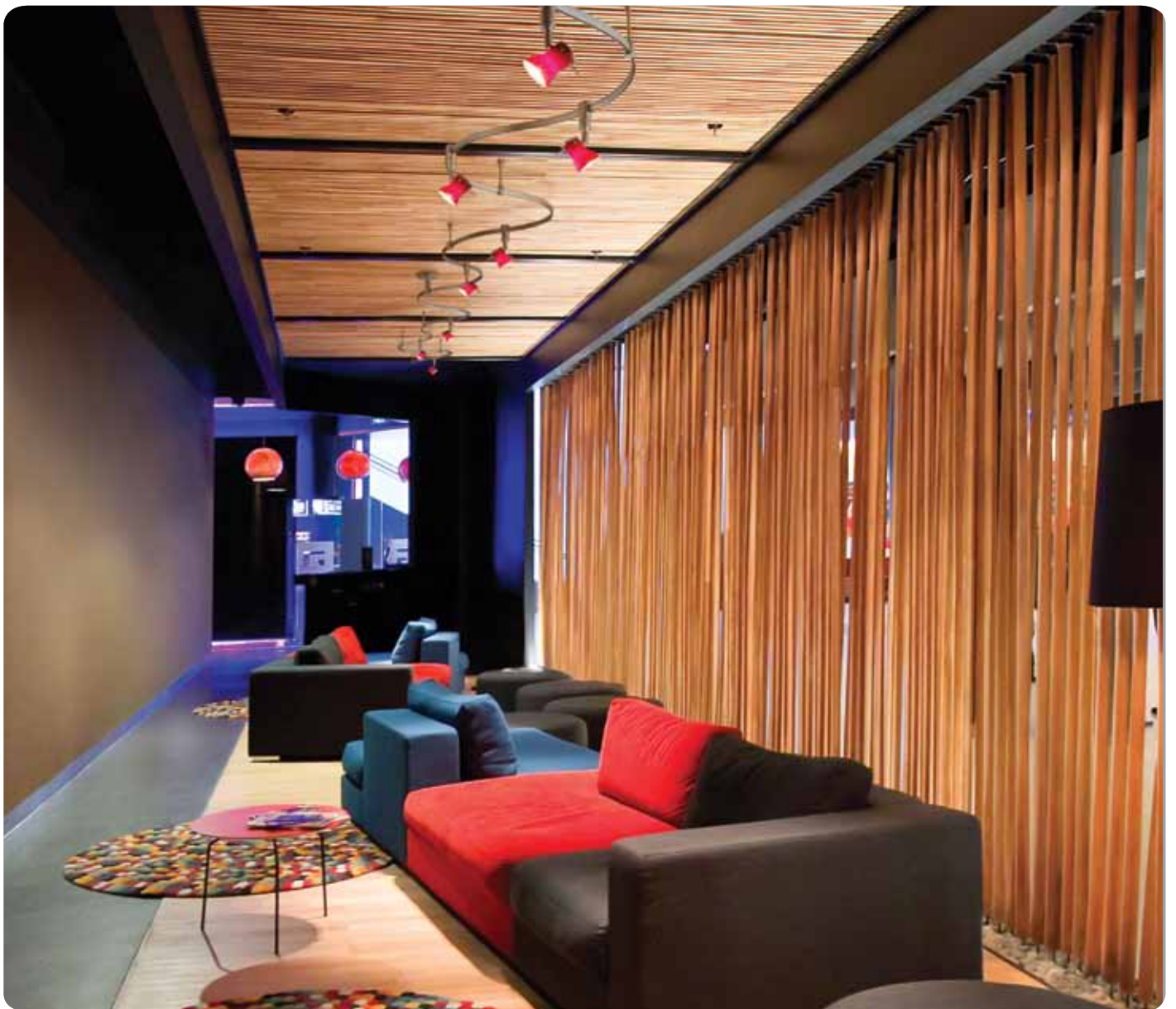
*Select pendant adapter finish to match track system finish

MonoLine Track System



The Juno MonoLine track system is the perfect accompaniment to the beauty and versatility of the MonoLine fixture family.

Superbly finished in satin nickel or vintage bronze, the track is hand-bendable to take on any desired shape or lighting design.



An inherently dependable line voltage lighting system, the Juno MonoLine track system offers many advantages, including: simplified design and layout plans; flexibility and versatility afforded by a full complement of components; and an easy-order system that includes starter kits. Plus, the MonoLine system enables you to take advantage of all the energy-saving options in the MonoLine fixture family, including ultra-efficient LED, Ceramic Metal Halide (CMH) and fluorescent fixtures. The result is an elegant lighting solution with significant energy and maintenance savings.



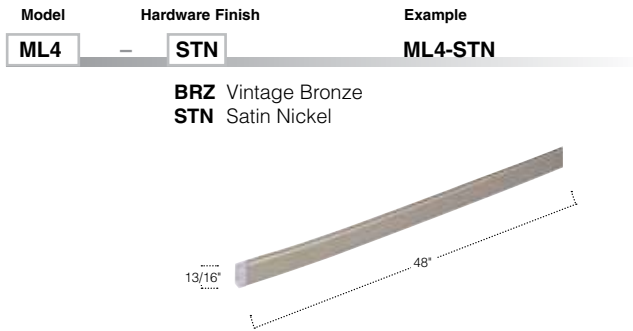
MonoLine... A supremely versatile track system

- 120V/20A track system for mounting the extensive collection of MonoLine directionals and decorative pendants.
- Top and bottom conductors and a low profile design for a sleek and smooth appearance from any angle.
- 4-foot and 8-foot lengths to accommodate a broad range of installation requirements.
- Beautifully finished in your choice of satin nickel or vintage bronze.
- Hand-bendable in the field, enabling you to create unique patterns and custom designs; optional bending tool simplifies the process and produces repeatable results.
- Fixtures can be easily repositioned to adapt to changes in room décor.
- A full complement of optional power feeds, supports, joiners and other components provides optimal versatility in custom installations.
- Power feeds and fixtures feature the patented PowerGrab™ adapter; a one-piece design with no parts to drop, offering one-handed installation.
- Low voltage transformer adapters enable the use of Quick Jack low voltage LED and halogen fixtures and pendants.

MonoLine System Components

ML4 MonoLine 4 Foot Rail Section

Hand bendable aluminum core track. Track may be bent to a minimum radius of 18". 20 amp max. Two MLE End Caps included.



ML8 MonoLine 8 Foot Rail Section

Hand bendable aluminum core track. Track may be bent to a minimum radius of 18". 20 amp max. Two MLE End Caps included.



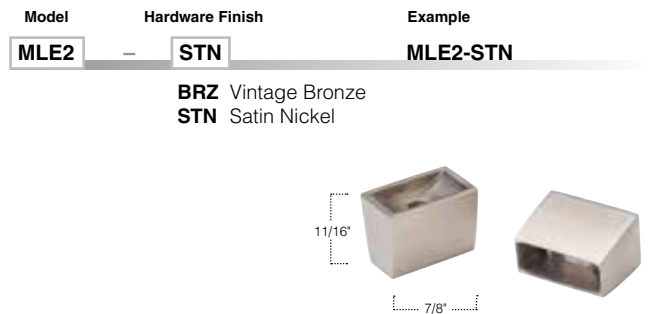
MLE MonoLine Standard End Caps (Set of 2)

Covers exposed conductor ends of MonoLine track. Required when installing track sections cut in the field.



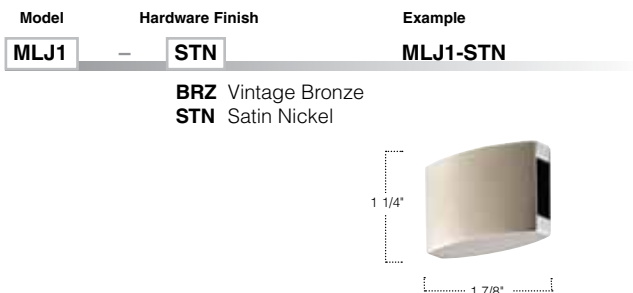
MLE2 MonoLine Decorative End Cap Covers (Set of 2)

Installs over MLE End Caps supplied with MonoLine track to provide a more "finished" system aesthetic.



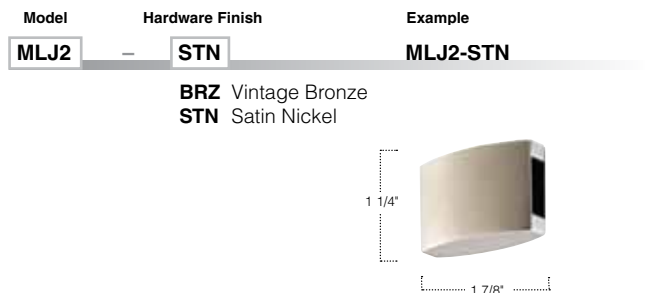
MLJ1 MonoLine Conductive Straight Joiner

Mechanically joins and electrically connects one track section to another. 20 amp max. Adds 1/2" length between track sections.



MLJ2 MonoLine Non-Conductive Straight Joiner

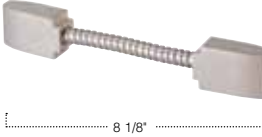
Mechanically joins one track section to another without electrical connection. Adds 1/2" length between track sections.



MLJ3 MonoLine Conductive Flexible Joiner

Mechanically joins and electrically connects two track sections at various angles. 20 amp max.

Model	Hardware Finish	Example
MLJ3	— STN	MLJ3-STN
	BRZ Vintage Bronze STN Satin Nickel	




8 1/8"

MLJ4 MonoLine Conductive Hinged "L" Joiner

Adjusts from straight to 90° angle. Mechanically joins and electrically connects one track section to another. 20 amp max.

Model	Hardware Finish	Example
MLJ4	— STN	MLJ4-STN
	BRZ Vintage Bronze STN Satin Nickel	

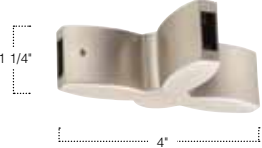


2 3/16" Offset

MLJ6 MonoLine Conductive "T" Joiner

Mechanically joins and electrically connects the junction of three track sections to form a "T". 20 amp max. Adds approximately 1-1/2" length to each track from intersection point.

Model	Hardware Finish	Example
MLJ6	— STN	MLJ6-STN
	BRZ Vintage Bronze STN Satin Nickel	



1 1/4"
4"

MLS1 MonoLine Standard Stem Support for Rigid Ceilings

Supports MonoLine at standard 5" system height. Order RSE Support Extensions to increase length if necessary.

Model	Hardware Finish	Example
MLS1	— STN	MLS1-STN
	BRZ Vintage Bronze STN Satin Nickel	




5"

MLS2 MonoLine Standard Stem Support for T-Bar Ceilings

Supports MonoLine at standard 5" system height. Order RSE Support Extensions to increase length if necessary.

Model	Hardware Finish	Example
MLS2	— STN	MLS2-STN
	BRZ Vintage Bronze STN Satin Nickel	



5"

MLS3 MonoLine Cable Support

Single screw mounting to ceiling. 144" aircraft cable. Easily adjusts with set screw.

Model	Hardware Finish	Example
MLS3	— STN	MLS3-STN
	BRZ Vintage Bronze STN Satin Nickel	

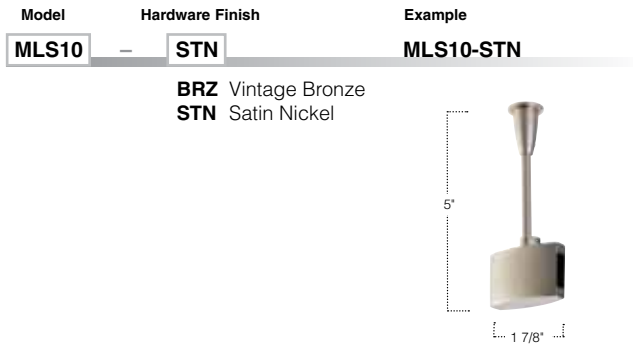


144"

MonoLine System Components

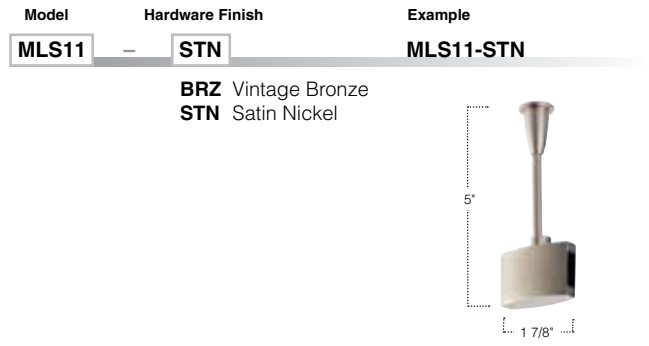
MLS10 MonoLine Conductive Straight Joiner Support for Rigid Ceilings

Supports MonoLine at standard 5" system height. Mechanically joins and electrically connects one track section to another. 20 amp max. Adds 1/2" length between track sections. Order RSE Support Extensions to increase length if necessary.



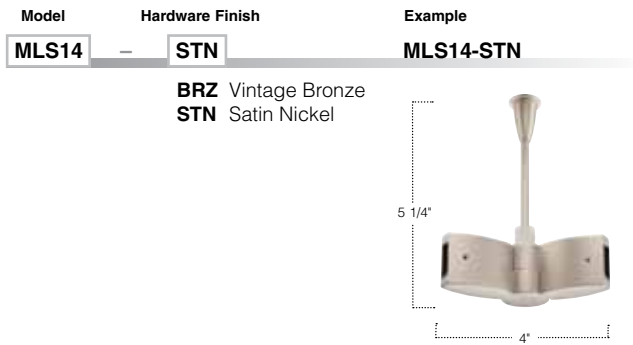
MLS11 MonoLine Non-Conductive Straight Joiner Support for Rigid Ceilings

Supports MonoLine at standard 5" system height. Mechanically joins one track section to another. Adds 1/2" length between track sections. Order RSE Support Extensions to increase length if necessary.



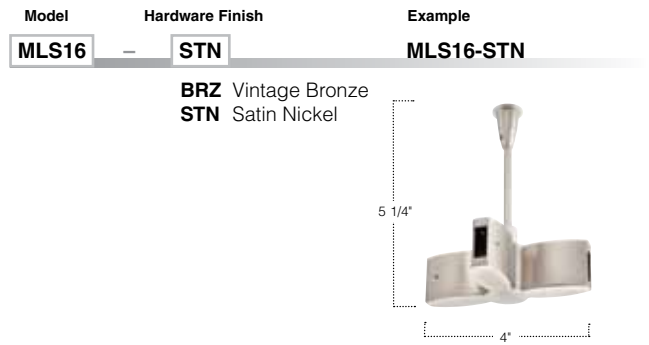
MLS14 MonoLine Conductive Hinged "L" Joiner/Support

Supports MonoLine at standard 5" system height. Adjusts from straight to 90° angle. Mechanically joins and electrically connects one track section to another. 20 amp max. Adds approximately 1-1/2" length to each track from intersection point.



MLS16 MonoLine Conductive "T" Joiner/Support

Supports MonoLine at standard 5" system height. Mechanically joins and electrically connects at the junction of three track sections to form a "T". 20 amp max. Adds approximately 1-1/2" length to each track from intersection point.



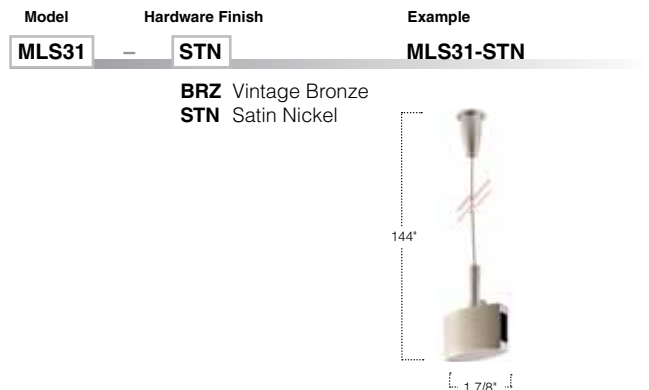
MLS30 MonoLine Conductive Straight Joiner Cable Support

Single screw mounting to ceiling. 144" aircraft cable. Mechanically joins and electrically connects one track section to another. 20 amp max. Adds 1/2" length between track sections. Height easily adjusts with set screw.



MLS31 MonoLine Non-Conductive Straight Joiner Cable Support

Single screw mounting to ceiling. 144" aircraft cable. Mechanically joins one track section to another. Adds 1/2" length between track sections. Height easily adjusts with set screw.



MLS50 MonoLine Sloped Ceiling Support

Enables MonoLine to suspend properly on a sloped ceiling. Standard length is 12". Order RSE Extensions to increase length if necessary. Custom lengths can be ordered pre-assembled – consult factory.

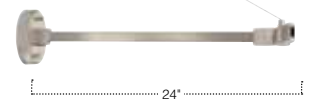
Model	Hardware Finish	Example
MLS50	STN	MLS50-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel



MLP165 MonoLine Conductive "L" Wall Feed

Supports and feeds MonoLine at standard 24" distance from wall. Adjusts from straight to 90° angle. Mechanically joins and electrically connects wall feed to track section. Distance from wall may be shortened in the field if desired. Includes aircraft cable support and mounting hardware. 20 amp max. Adds approximately 1-1/2" length to track from intersection point.

Model	Hardware Finish	Example
MLP165	STN	MLP165-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel



MLP166 MonoLine Conductive "T" Wall Feed

Supports and feeds MonoLine at standard 24" distance from wall. Mechanically joins and electrically connects wall feed to the junction of two track sections to form a "T". Distance from wall may be shortened in the field if desired. Includes aircraft cable support and mounting hardware. 20 amp max. Adds approximately 1-1/2" length to track from intersection point.

Model	Hardware Finish	Example
MLP166	STN	MLP166-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel



MLS61 MonoLine Wall Support

Supports MonoLine at standard 24" distance from wall. Distance from wall may be shortened in the field if desired. Includes aircraft cable support and mounting hardware.

Model	Hardware Finish	Example
MLS61	STN	MLS61-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel



MLS64 MonoLine Wall End Support

Supports MonoLine termination to a perpendicular wall.

Model	Hardware Finish	Example
MLS64	STN	MLS64-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel



MLP164 MonoLine End Power Feed

Mounts over J-box. Allows end feed from wall. 20 amp max.

Model	Hardware Finish	Example
MLP164	STN	MLP164-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel

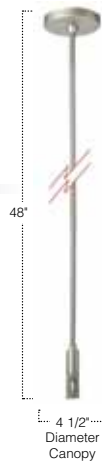




MLP104 MonoLine 48" Floating Power Feed

Powers system at any point along the track. Flexible cable shield protects wiring. Mounts over J-Box. Length can be shortened in the field. 20 amp max.

Model	Hardware Finish	Example
MLP104	STN	MLP104-STN
	BRZ Vintage Bronze	
	STN Satin Nickel	



MLP112 MonoLine 144" Floating Power Feed

Powers system at any point along the track. Flexible cable shield protects wiring. Mounts over J-Box. Length can be shortened in the field. 20 amp max.

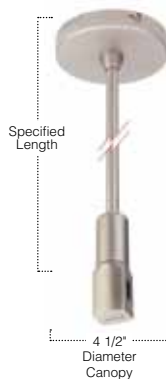
Model	Hardware Finish	Example
MLP112	STN	MLP112-STN
	BRZ Vintage Bronze	
	STN Satin Nickel	



MLP14x MonoLine Stem Power Feeds

Supports and feeds MonoLine track at chosen offset. Mounts over J-Box. Length can be shortened in the field. 20 amp max.

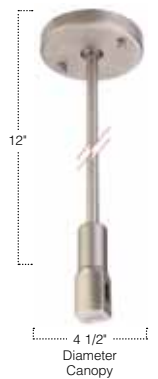
Model	Hardware Finish	Example
MLP142	STN	MLP142-STN
MLP140	5" Stem	BRZ Vintage Bronze
MLP142	12" Stem	STN Satin Nickel
MLP144	24" Stem	
MLP146	36" Stem	
MLP148	48" Stem	



MLP150 MonoLine 12" Sloped Ceiling Power Feed

Pivoting joint accommodates up to 30° ceiling pitch. Length can be shortened in the field. Supports and feeds MonoLine track at 12" system height. Overall length can be extended to 48" max. Using MLF-EXT Power Feed Extensions.

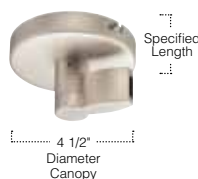
Model	Hardware Finish	Example
MLP150	STN	MLP150-STN
	BRZ Vintage Bronze	
	STN Satin Nickel	



MLP1J1 MonoLine Conductive Stem Mounted End Feeds

Supports and feeds MonoLine from end of track. Height of stem is specifiable from 5" to 48" in defined lengths. Includes mounting canopy, stem and feed connector. 20 amp max. Adds approximately 1-1/2" length to track from intersection point.

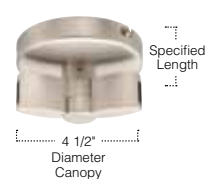
Model	Hardware Finish	Example
MLP1J1-12	STN	MLP1J1-12-STN
MLP1J1-2	2" Stem	BRZ Vintage Bronze
MLP1J1	5" Stem	STN Satin Nickel
MLP1J1-12	12" Stem	
MLP1J1-24	24" Stem	
MLP1J1-36	36" Stem	
MLP1J1-48	48" Stem	



MLP1J4 MonoLine Conductive Stem Mounted Hinged "L" Joiner/Feeds

Supports, joins and feeds MonoLine at intersection of track. Provides power to track in both directions (same electrical circuit). Adjusts from straight to 90° angle. Height of stem is specifiable from 5" to 48" in defined lengths. Includes mounting canopy, stem and joiner/feed connector. 20 amp max. Adds approximately 1-1/2" length to each track from intersection point.

Model	Hardware Finish	Example
MLP1J4-12	STN	MLP1J4-12-STN
MLP1J4-2	2" Stem	BRZ Vintage Bronze
MLP1J4	5" Stem	STN Satin Nickel
MLP1J4-12	12" Stem	
MLP1J4-24	24" Stem	
MLP1J4-36	36" Stem	
MLP1J4-48	48" Stem	



MonoLine System Components

MLTQJ75 MonoLine Quick Jack Transformer Adapter

12V, 75W electronic transformer. For all non-LED fixtures/pendants using the Quick Jack connector.

Model	Hardware Finish	Example
MLTQJ75	- STN	MLTQJ75-STN
	BRZ Vintage Bronze	
	STN Satin Nickel	



MLTQJL75 MonoLine LED-Compatible Quick Jack Transformer Adapter

12V, 60W electronic transformer. For all fixtures/pendants using the Quick Jack connector. LED-compatible.

Model	Hardware Finish	Example
MLTQJL75	- STN	MLTQJL75-STN
	BRZ Vintage Bronze	
	STN Satin Nickel	



RSE Support Extensions

Replaces shorter standard stems in MLS1, MLS2, MLS10, MLS11, MLS14, MLS16 and MLS50 Supports to increase track displacement from ceiling. Length can be shortened in the field.

Model	Hardware Finish	Example
RSE-12	- STN	RSE-12-STN
RSE-12	12" Length BRZ Vintage Bronze	
RSE-24	24" Length STN Satin Nickel	
RSE-36	36" Length	
RSE-48	48" Length	



MLF-EXT Power Feed Extensions

Replaces standard stems in MLP142, MLP144, MLP146 and MLP148 Power Feeds to increase or reduce track displacement from ceiling. Length can be shortened in the field.

Model	Hardware Finish	Example
MLF-EXT12	- STN	MLF-EXT12-STN
MLF-EXT12	8 1/2" Length BRZ Vintage Bronze	
MLF-EXT24	20 1/2" Length STN Satin Nickel	
MLF-EXT36	32 1/2" Length	
MLF-EXT48	44 1/2" Length	

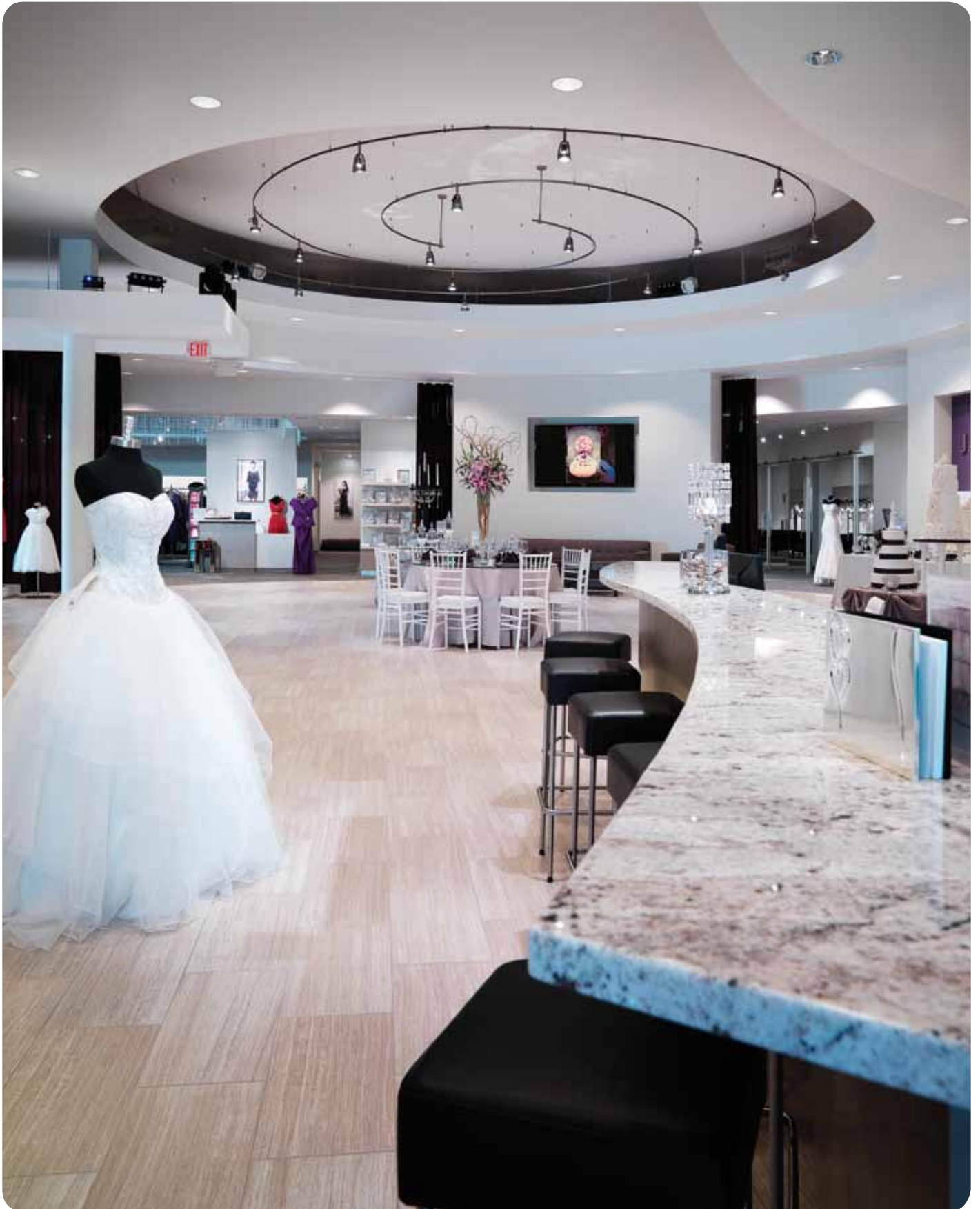


JLG-B100 Portable Bending Machine

Portable bending machine for both MonoLine and Flex 12 flexible track. MonoLine may be bent to a minimum radius of 18". Conveniently clamps to a rigid work surface and easily makes smooth, precise, reliable bends. Provided with a durable, hard-shell carrying case.

Model	Example
JLG-B100	JLG-B100





Jasmine Bridal, Lombard, IL. Photo courtesy of Jasmine Enterprises.

MonoLine Track System Kits

Juno MonoLine Track System Kits contain everything you need for a complete line voltage installation. Starter kits are available to coordinate with any of the MonoLine directional fixtures or pendants. Simply select one of the available fixtures; then choose your starter kit by track length and finish. Whether you choose a starter kit or a complete kit with fixtures, just open the box and you are ready to go.

MLKS1 4' MonoLine Starter Kit

Contains one ML4 4' MonoLine track section with MLE End Caps, one MLP140 Standard Stem Power Feed and two MLS1 Standard Stem Supports. Fixtures not included. Power feed cannot be extended. Standard offset is 5" from mounting surface to bottom of track. MonoLine track may be bent to a minimum radius of 18".



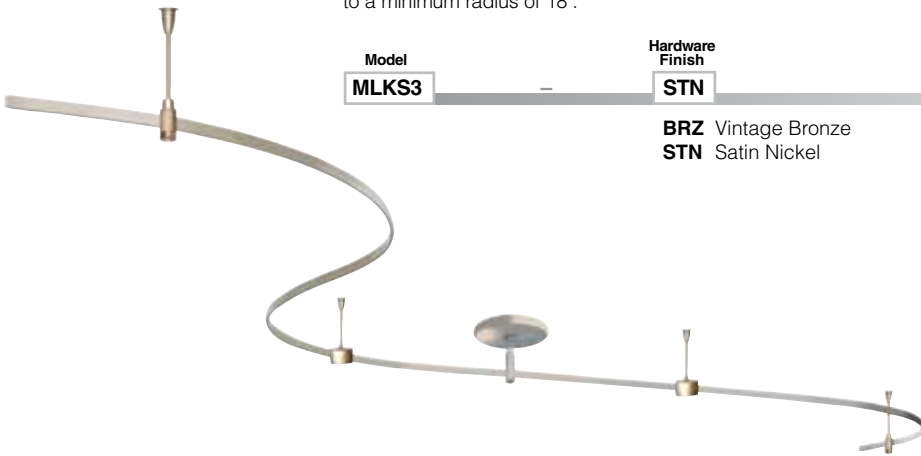
MLKS2 8' MonoLine Starter Kit

Contains two ML4 4' MonoLine track sections with MLE End Caps, one MLP140 Standard Stem Power Feed, two MLS1 Standard Stem Supports and one MLS10 Straight Joiner Support. Fixtures not included. Power feed cannot be extended. Standard offset is 5" from mounting surface to bottom of track. MonoLine track may be bent to a minimum radius of 18".



MLKS3
12' MonoLine
Starter Kit

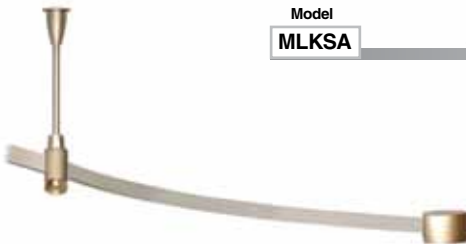
Contains three ML4 4' MonoLine track sections with MLE End Caps, one MLP140 Standard Stem Power Feed, two MLS1 Standard Stem Supports and two MLS10 Straight Joiner Supports. Fixtures not included. Power feed cannot be extended. Standard offset is 5" from mounting surface to bottom of track. MonoLine track may be bent to a minimum radius of 18".



Model	Hardware Finish	Example
MLKS3	STN	MLKS3-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel

MLKSA
4' MonoLine
Add-On Kit

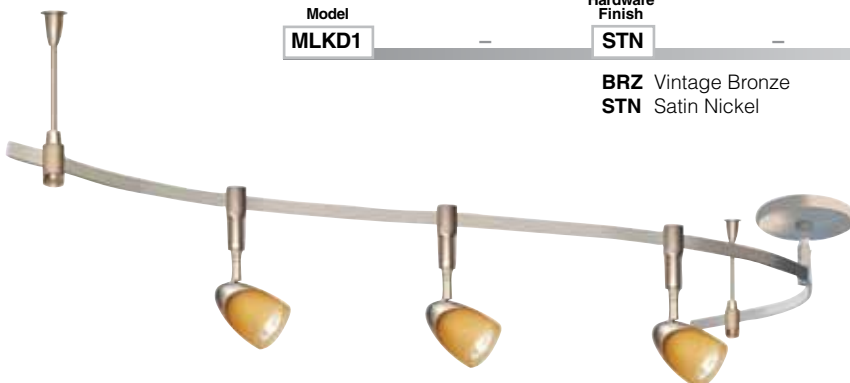
Add four more feet to your current system or kit. Contains one ML4 4' MonoLine track section with MLE End Caps, one MLJ1 Straight Joiner and one MLS1 Standard Stem Support. Fixtures not included. MonoLine track may be bent to a minimum radius of 18".



Model	Hardware Finish	Example
MLKSA	STN	MLKSA-STN
	BRZ	Vintage Bronze
	STN	Satin Nickel

MLKD1
4' Line Voltage
3 Light Kit with
SP11 Fixtures

Line voltage bendable track kit with one ML4 4' MonoLine track section with MLE End Caps, two MLS1 Standard Stem Supports, one MLP140 Standard Stem Power Feed, and three adjustable SP11 fixtures. Includes three 50W GU10 lamps. Power feed cannot be extended. Standard offset is 5" from mounting surface to bottom of track. MonoLine track may be bent to a minimum radius of 18".



Model	Hardware Finish	Shade Finish	Example
MLKD1	STN	AMB	MLKD1-STN-AMB
	BRZ	AMB	Vintage Bronze Amber
	STN	FRT	Satin Nickel Frost



Amber



MLKD2 4' Line Voltage 3 Light Kit with SP12 Fixtures

Line voltage bendable track kit with one ML4 4' MonoLine track section with MLE End Caps, two MLS1 Standard Stem Supports, one MLP140 Standard Stem Power Feed, and three adjustable SP12 fixtures. Includes three 50W GU10 lamps. Power feed cannot be extended. Standard offset is 5" from mounting surface to bottom of track. MonoLine track may be bent to a minimum radius of 18".

Model	Hardware Finish	Shade Finish	Example
MLKD2	STN	AMB	MLKD2-STN-AMB
	BRZ Vintage Bronze STN Satin Nickel	AMB Amber OPL Opal	

Amber

Opal

MLKD3 8' Line Voltage 5 Light Kit with SP11 Fixtures

Line voltage bendable track kit with two ML4 4' MonoLine track sections with MLE End Caps, two MLS1 Standard Stem Supports and one MLS10 Straight Joiner Support, one MLP140 Standard Stem Power Feed, and five adjustable SP11 fixtures. Includes five 50W GU10 lamps. Power feed cannot be extended. Standard offset is 5" from mounting surface to bottom of track. MonoLine track may be bent to a minimum radius of 18".

Model	Hardware Finish	Shade Finish	Example
MLKD3	STN	AMB	MLKD3-STN-AMB
	BRZ Vintage Bronze STN Satin Nickel	AMB Amber FRT Frost	

Amber

Frost

MLKD4 8' Line Voltage 5 Light Kit with SP12 Fixtures

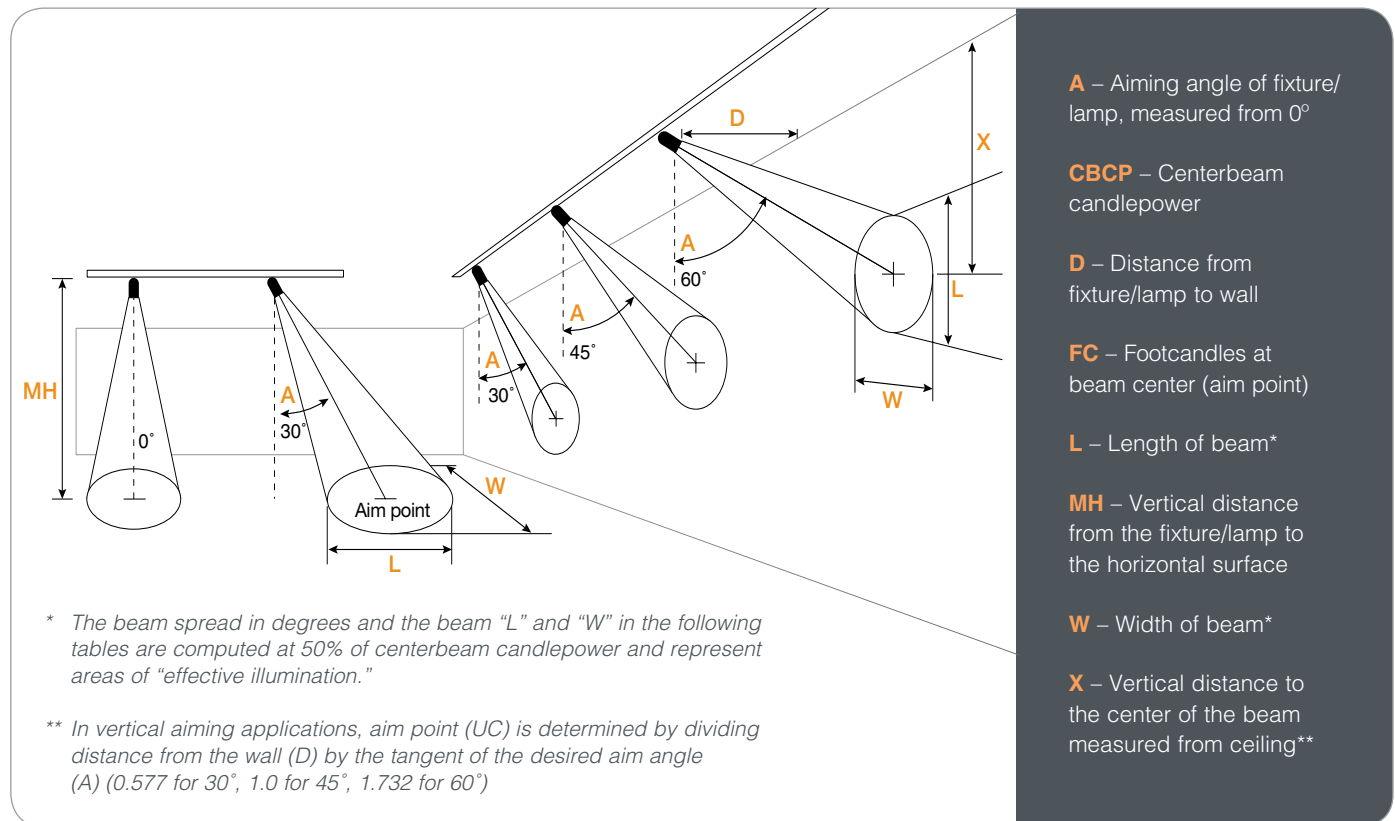
Line voltage bendable track kit with two ML4 4' MonoLine track sections with MLE End Caps, two MLS1 Standard Stem Supports and one MLS10 Straight Joiner Support, one MLP140 Standard Stem Power Feed, and five adjustable SP12 fixtures. Includes five 50W GU10 lamps. Power feed cannot be extended. Standard offset is 5" from mounting surface to bottom of track. MonoLine track may be bent to a minimum radius of 18".

Model	Hardware Finish	Shade Finish	Example
MLKD4	STN	OPL	MLKD4-STN-OPL
	BRZ Vintage Bronze STN Satin Nickel	AMB Amber OPL Opal	

Opal

Amber

MonoLine Photometric Data

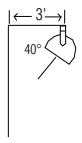


The photometric charts on the following pages provide illumination levels (FC) and beam size (in feet) for lamps of various wattages and beam patterns. Data is given for lamps aimed at both horizontal and vertical surfaces. Maximum candlepower and rated life is also indicated for each lamp. Lamp performance is based on bare lamp photometrics provided by lamp manufacturers. Additional information may be obtained from Juno Lighting Group. The illustration above defines the table headings used on the following pages.

LED Wall Wash/Flood Footcandles on Wall from Multiple Units

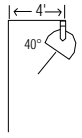
35W LED Wall Wash/Flood (SW1ML)

Distance From Ceiling	Single Fixture Performance						Multiple Fixture Performance						
	0	1'	2'	3'	4'	5'	4'		5'		5'		
Trac 3' from Wall	1'	32	26	18	12	6	3	44	39	44	37	33	37
	2'	32	30	21	13	7	3	46	45	46	39	35	39
	3'	39	35	24	14	8	4	57	53	57	48	39	48
	4'	28	24	18	12	7	4	44	42	44	37	32	37
	5'	16	15	12	7	6	4	29	30	29	24	23	24
	6'	9	9	8	6	5	3	20	21	20	16	17	16
	7'	5	5	5	4	3	2	14	14	14	11	12	11
	8'	3	3	3	3	2	2	10	10	10	8	8	8
	9'	2	2	2	2	1	1	7	7	7	6	6	6



35W LED
3000K CCT

Distance From Ceiling	Single Fixture Performance						Multiple Fixture Performance						
	0	1'	2'	3'	4'	5'	5'		6'		6'		
Trac 4' from Wall	1'	24	21	14	11	7	4	33	26	33	29	23	29
	2'	15	13	10	10	7	4	24	23	24	21	21	21
	3'	20	20	16	11	8	5	30	30	30	26	24	26
	4'	22	20	17	12	8	5	34	32	34	29	25	29
	5'	18	16	14	10	7	5	29	28	29	25	22	25
	6'	12	11	10	8	6	4	21	21	21	19	18	19
	7'	8	8	7	6	5	4	16	17	16	14	14	14
	8'	5	5	5	4	4	3	12	13	12	10	11	10
	9'	3	4	3	3	3	2	9	10	9	8	8	8

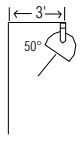


35W LED
3000K CCT

For 2700K use 0.94 multiplier; for 3500K use 1.07 multiplier; for 4100K use 1.11 multiplier.

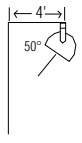
70W LED Wall Wash/Flood (SW2ML)

Distance From Ceiling	Single Fixture Performance						Multiple Fixture Performance						
	0	1'	2'	3'	4'	5'	4'		5'		6'		
Trac 3' from Wall	1'	62	54	40	26	13	3	89	84	89	74	67	74
	2'	118	105	74	41	20	10	160	154	160	138	115	138
	3'	107	96	69	40	23	12	156	150	156	133	112	133
	4'	67	62	49	32	20	12	111	113	111	93	87	93
	5'	36	35	30	23	15	10	72	74	72	58	59	58
	6'	20	20	18	15	11	8	48	49	48	39	40	39
	7'	12	12	11	9	8	6	33	33	33	27	27	27
	8'	8	7	7	6	5	4	22	23	23	19	19	19
	9'	5	5	4	4	3	3	16	16	16	13	13	13



70W LED
3000K CCT





Distance From Ceiling	Single Fixture Performance						Multiple Fixture Performance						
	0	1'	2'	3'	4'	5'	4'		5'		6'		
Trac 4' from Wall	1'	27	26	22	27	12	8	54	52	54	43	42	43
	2'	54	49	39	30	20	12	96	91	96	78	73	78
	3'	67	64	54	37	24	15	120	124	120	98	97	98
	4'	61	57	48	34	23	15	113	116	113	93	92	93
	5'	44	42	36	28	19	13	91	94	91	73	76	73
	6'	28	27	24	20	15	11	67	67	67	54	55	54
	7'	18	17	16	14	12	9	48	49	48	39	40	39
	8'	12	11	11	10	9	7	35	36	35	29	30	29
	9'	8	8	7	7	6	5	26	27	26	22	22	22



70W LED
3000K CCT

For 2700K multiply by 0.94; for 3500K multiply by 1.07; for 4100K multiply by 1.14

Ceramic Metal Halide MR16, PAR Lamps

Lamp	Beam Type	Beam Spread	Rated Life	CBCP	Horizontal Surface										Vertical Surface									
					0 degrees			30 degrees			30 degrees				45 degrees			60 degrees						
					MH	FC	L W	FC	L W	D	FC	X	L W	FC	X	L W	D	FC	X	L W				
	SP	12°	12000	9000	10	90	2.1 2.1	58	2.8 2.4	4	70	6.9 3.5 1.7	199	4.0 1.7 1.2	6	162	3.5 1.1 1.0							
					12	63	2.5 2.5	41	3.4 2.9	6	31	10.4 5.2 2.5	88	6.0 2.6 1.8	9	72	5.2 1.7 1.5							
					14	46	2.9 2.9	30	3.9 3.4	8	18	13.9 7.0 3.4	50	8.0 3.4 2.4	12	41	6.9 2.3 1.9							
					16	35	3.4 3.4	23	4.5 3.9	10	11	17.3 8.7 4.2	32	10.0 4.3 3.0	15	26	8.7 2.8 2.4							
					18	28	3.8 3.8	18	5.1 4.4	12	8	20.8 10.4 5.0	22	12.0 5.1 3.6	18	18	10.4 3.4 2.9							
	NFL	25°	12000	2900	8	45	3.5 3.5	29	4.8 4.1	2	91	3.5 4.2 1.8	256	2.0 1.9 1.3	3	209	1.7 1.2 1.0							
					10	29	4.4 4.4	19	6.0 5.1	4	23	6.9 8.3 3.5	64	4.0 3.7 2.5	4	118	2.3 2.4 2.0							
					12	20	5.3 5.3	13	7.2 6.1	6	10	10.4 12.5 5.3	28	6.0 5.6 3.8	6	52	3.5 3.6 3.1							
	FL	40°	12000	1500	14	15	6.2 6.2	10	8.4 7.2	8	6	13.9 16.6 7.1	16	8.0 7.5 5.0	8	29	4.6 4.8 4.1							
					16	11	7.1 7.1	7	9.6 8.2	10	4	17.3 20.8 8.9	10	10.0 9.3 6.3	10	19	5.8 6.0 5.1							
					8	23	5.8 5.8	15	8.1 6.7	2	47	3.5 9.7 2.9	133	2.0 3.4 2.1	2	244	1.2 2.0 1.7							
					10	15	7.3 7.3	10	10.2 8.4	3	21	5.2 14.5 4.4	59	3.0 5.0 3.1	3	108	1.7 3.0 2.5							
	SP	12°	12000	16000	10	160	2.1 2.1	104	2.8 2.4	4	125	6.9 3.5 1.7	354	4.0 1.7 1.2	6	289	3.5 1.1 1.0							
					12	111	2.5 2.5	72	3.4 2.9	6	56	10.4 5.2 2.5	157	6.0 2.6 1.8	9	128	5.2 1.7 1.5							
					14	82	2.9 2.9	53	3.9 3.4	8	31	13.9 7.0 3.4	88	8.0 3.4 2.4	12	72	6.9 2.3 1.9							
					16	63	3.4 3.4	41	4.5 3.9	10	20	17.3 8.7 4.2	57	10.0 4.3 3.0	15	46	8.7 2.8 2.4							
					18	49	3.8 3.8	32	5.1 4.4	12	14	20.8 10.4 5.0	39	12.0 5.1 3.6	18	32	10.4 3.4 2.9							
	NFL	25°	12000	5500	8	86	3.5 3.5	56	4.8 4.1	2	172	3.5 4.2 1.8	486	2.0 1.9 1.3	4	223	2.3 1.2 1.0							
					10	55	4.4 4.4	36	6.0 5.1	4	43	6.9 8.3 3.5	122	4.0 3.7 2.5	6	99	3.5 2.4 2.0							
					12	38	5.3 5.3	25	7.2 6.1	6	19	10.4 12.5 5.3	54	6.0 5.6 3.8	8	56	4.6 3.6 3.1							
	FL	40°	12000	3000	14	28	6.2 6.2	18	8.4 7.2	8	11	13.9 16.6 7.1	30	8.0 7.5 5.0	10	36	5.8 4.8 4.1							
					16	21	7.1 7.1	14	9.6 8.2	10	7	17.3 20.8 8.9	19	10.0 9.3 6.3	12	25	6.9 6.0 5.1							
					8	47	5.8 5.8	30	8.1 6.7	2	94	3.5 9.7 2.9	265	2.0 3.4 2.1	3	217	1.7 2.0 1.7							
					10	30	7.3 7.3	19	10.2 8.4	3	42	5.2 14.5 4.4	118	3.0 5.0 3.1	4	122	2.3 3.0 2.5							
	SP	8°	9000	18000	10	180	1.4 1.4	117	1.9 1.6	4	141	6.9 2.3 1.1	398	4.0 1.1 0.8	6	325	3.5 0.7 0.6							
					12	125	1.7 1.7	81	2.2 1.9	6	63	10.4 3.4 1.7	177	6.0 1.7 1.2	9	144	5.2 1.1 1.0							
					14	92	2.0 2.0	60	2.6 2.3	8	35	13.9 4.5 2.2	99	8.0 2.2 1.6	12	81	6.9 1.5 1.3							
					16	70	2.2 2.2	46	3.0 2.6	10	23	17.3 5.7 2.8	64	10.0 2.8 2.0	15	52	8.7 1.9 1.8							
					18	56	2.5 2.5	36	3.4 2.9	12	16	20.8 6.8 3.4	44	12.0 3.4 2.4	18	36	10.4 2.2 1.9							
	FL	30°	9000	2800	4	175	2.1 2.1	114	2.9 2.5	2	88	3.5 5.5 2.1	247	2.0 2.3 1.5	4	114	2.3 1.5 1.2							
					6	78	3.2 3.2	51	4.4 3.7	4	22	6.9 10.9 4.3	62	4.0 4.6 3.0	6	51	3.5 2.9 2.5							
					8	44	4.3 4.3	28	5.9 5.0	6	10	10.4 16.4 6.4	27	6.0 6.9 4.5	8	28	4.6 4.4 3.7							
					10	28	5.4 5.4	18	7.3 6.2	8	5	13.9 21.9 8.6	15	8.0 9.2 6.1	10	18	5.8 5.9 5.0							
					12	19	6.4 6.4	13	8.8 7.4	10	4	17.3 ** 10.7	10	10.0 11.5 7.6	12	13	6.9 7.3 6.2							
					10	230	1.7 1.7	149	2.3 2.0	4	180	6.9 2.9 1.4	508	4.0 1.4 1.0	6	415	3.5 0.9 0.8							
					12	160	2.1 2.1	104	2.8 2.4	6	80	10.4 1.3 2.1	226	6.0 2.1 1.5	9	184	5.2 1.4 1.2							
	SP	10°	9000	23000	14	117	2.4 2.4	76	3.3 2.8	8	45	13.9 5.7 2.8	127	8.0 2.8 2.0	12	104	6.9 1.9 1.6							
					16	90	2.8 2.8	58	3.7 3.2	10	29	17.3 7.2 3.5	81	10.0 3.5 2.5	15	66	8.7 2.3 2.0							
					18	71	3.1 3.1	46	4.2 3.6	12	20	20.8 8.6 4.2	56	12.0 4.2 3.0	18	46	10.4 2.8 2.4							
					6	139	3.2 3.2	90	4.4 3.7	2	156	3.5 5.5 2.1	442	2.0 2.3 1.5	4	203	2.3 1.5 1.2							
					7	102	3.8 3.8	66	5.1 4.3	4	39	6.9 10.9 4.3	110	4.0 4.6 3.0	6	90	3.5 2.9 2.5							
	FL	30°	9000	5000	8	78	4.3 4.3	51	5.9 5.0	6	17	10.4 16.4 6.4	49	6.0 6.9 4.5	8	51	4.6 4.4 3.7							
					9	62	4.8 4.8	40	6.6 5.6	8	10	13.9 21.9 8.6	28	8.0 9.2 6.1	10	32	5.8 5.9 5.0							
					10	50	5.4 5.4	32	7.3 6.2	10	6	17.3 ** 10.7	18	10.0 11.5 7.6	12	23	6.9 7.3 6.2							

** Due to steep aiming angle, length of beam extends beyond 25'.
Each angle listed is measured from 0° vertical.


Ceramic Metal Halide Directional Fixtures

CMH Cyindra™ Spotlights T4 GU6.5 Lamps (SP254MLT4)

Lamp	Beam Type	Beam Spread	Rated Life	CBCP	Horizontal Surface										Vertical Surface										
					0 degrees				30 degrees			30 degrees			45 degrees				60 degrees						
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
20W T4 GU6.5 Ceramic Metal Halide 	SP	13°	12000	8301	10	83	2.3	2.3	54	3.1	2.6	4	65	6.9	3.8	1.8	183	4.0	1.8	1.3	6	150	3.5	1.2	1.1
					12	58	2.7	2.7	37	3.7	3.2	6	29	10.4	5.7	2.7	82	6.0	2.8	1.9	9	67	5.2	1.8	1.6
					14	42	3.2	3.2	28	4.3	3.7	8	16	13.9	7.6	3.6	46	8.0	3.7	2.6	12	37	6.9	2.4	2.1
					16	32	3.6	3.6	21	4.9	4.2	10	10	17.3	9.5	4.6	29	10.0	4.6	3.2	15	24	8.7	3.1	2.6
					18	26	4.1	4.1	17	5.5	4.7	12	7	20.8	11.4	5.5	20	12.0	5.5	3.9	18	17	10.4	3.7	3.2
	NFL	25°	12000	3447	8	54	3.5	3.5	35	4.8	4.1	2	108	3.5	4.2	1.8	305	2.0	1.9	1.3	4	140	2.3	1.2	1.0
					10	34	4.4	4.4	22	6.0	5.1	4	27	6.9	8.3	3.5	76	4.0	3.7	2.5	6	62	3.5	2.4	2.0
					12	24	5.3	5.3	16	7.2	6.1	6	12	10.4	12.5	5.3	34	6.0	5.6	3.8	8	35	4.6	3.6	3.1
					14	18	6.2	6.2	11	8.4	7.2	8	7	13.9	16.6	7.1	19	8.0	7.5	5.0	10	22	5.8	4.8	4.1
					16	13	7.1	7.1	9	9.6	8.2	10	4	17.3	20.8	8.9	12	10.0	9.3	6.3	12	16	6.9	6.0	5.1
	FL	38°	12000	1910	8	30	5.5	5.5	19	7.6	6.4	2	60	3.5	8.6	2.8	169	2.0	3.1	1.9	2	310	1.2	1.9	1.6
					10	19	6.9	6.9	12	9.6	8.0	3	27	5.2	12.8	4.1	75	3.0	4.7	2.9	3	138	1.7	2.9	2.4
12					13	8.3	8.3	9	11.5	9.5	4	15	6.9	17.1	5.5	42	4.0	6.3	3.9	4	78	2.3	3.8	3.2	
14					10	9.6	9.6	6	13.4	11.1	5	10	8.7	21.4	6.9	27	5.0	7.8	4.9	5	50	2.9	4.8	4.0	
16					7	11.0	11.0	5	15.3	12.7	6	7	10.4	**	8.3	19	6.0	9.4	5.8	6	34	3.5	5.7	4.8	

For 15W lamps, use 0.75 multiplier; for 39W lamps, use 2.10 multiplier.

CMH Cyindra™ Spotlights BT-5/T3.5 PGJ5 Lamps (SP255MLBT)


Lamp	Beam Type	Beam Spread	Rated Life	CBCP	Horizontal Surface										Vertical Surface										
					0 degrees				30 degrees			30 degrees			45 degrees				60 degrees						
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
39W Mini MasterColor BT-5/T3.5 Ceramic Metal Halide 	SP	10°	12000	26302	10	263	1.7	1.7	171	2.3	2.0	4	205	6.9	2.9	1.4	581	4.0	1.4	1.0	6	475	3.5	0.9	0.8
					12	184	2.1	2.1	119	2.8	2.4	6	91	10.4	4.3	2.1	258	6.0	2.1	1.5	9	211	5.2	1.4	1.2
					14	134	2.4	2.4	87	3.3	2.8	8	51	13.9	5.7	2.8	145	8.0	2.8	2.0	12	119	6.9	1.9	1.6
					16	103	2.8	2.8	67	3.7	3.2	10	33	17.3	7.2	3.5	93	10.0	3.5	2.5	15	76	8.7	2.3	2.0
					18	81	3.1	3.1	53	4.2	3.6	12	23	20.8	8.6	4.2	65	12.0	4.2	3.0	18	53	10.4	2.8	2.4
	NFL	20°	12000	10295	8	161	2.8	2.8	104	3.8	3.3	2	322	3.5	3.1	1.4	910	2.0	1.5	1.0	4	418	2.3	1.0	0.8
					10	103	3.5	3.5	67	4.8	4.1	4	80	6.9	6.2	2.8	227	4.0	2.9	2.0	6	186	3.5	1.9	1.6
					12	71	4.2	4.2	46	5.7	4.9	6	36	10.4	9.3	4.2	101	6.0	4.4	3.0	8	104	4.6	2.9	2.4
					14	53	4.9	4.9	34	6.7	5.7	8	20	13.9	12.4	5.6	57	8.0	5.8	4.0	10	67	5.8	3.8	3.3
					16	40	5.6	5.6	26	7.6	6.5	10	13	17.3	15.6	7.1	36	10.0	7.3	5.0	12	46	6.9	4.8	4.1
	FL	28°	12000	5827	8	91	4.0	4.0	59	5.4	4.6	2	182	3.5	4.9	2.0	515	2.0	2.1	1.4	2	946	1.2	1.4	1.2
					10	58	5.0	5.0	38	6.8	5.8	3	81	5.2	7.4	3.0	229	3.0	3.2	2.1	3	421	1.7	2.0	1.7
12					40	6.0	6.0	26	8.1	6.9	4	46	6.9	9.8	4.0	129	4.0	4.3	2.8	4	237	2.3	2.7	2.3	
14					30	7.0	7.0	19	9.5	8.1	5	29	8.7	12.3	5.0	82	5.0	5.3	3.5	5	151	2.9	3.4	2.9	
16					23	8.0	8.0	15	10.9	9.2	6	20	10.4	14.7	6.0	57	6.0	6.4	4.2	6	105	3.5	4.1	3.5	

For 20W lamps use 0.55 multiplier.

**Due to steep aiming angle, length of beam extends beyond 25'. Each angle listed is measured from 0° vertical.


Ceramic Metal Halide Directional Fixtures, cont.

CMH Concentric Cylinder Spotlights T4 G8.5 Lamps (SP232MLT4)

Lamp	Beam Type	Beam Spread	Rated Life	CBCP	Horizontal Surface										Vertical Surface										
					0 degrees			30 degrees			30 degrees				45 degrees				60 degrees						
					MH	FC	L W	FC	L W	D	FC	X	L W	FC	X	L W	D	FC	X	L W					
39W T4 G8.5 Ceramic Metal Halide 	SP	10°	12000	28630	10	286	1.7	1.7	186	2.3	2.0	4	244	6.9	2.9	1.4	633	4.0	1.4	1.0	6	517	3.5	0.9	1.0
					12	199	2.1	2.1	129	2.8	2.4	6	99	10.4	4.3	2.1	281	6.0	2.1	1.5	9	230	5.2	1.4	0.8
					14	146	2.4	2.4	95	3.3	2.8	8	56	13.9	5.7	2.8	158	8.0	2.8	2.0	12	129	6.9	1.9	1.6
					16	112	2.8	2.8	73	3.7	3.2	10	36	17.3	7.2	3.5	101	10.0	3.5	2.5	15	83	8.7	2.3	2.0
					18	88	3.1	3.1	57	4.2	3.6	12	25	20.8	8.6	4.2	70	12.0	4.2	3.0	18	57	10.4	2.8	2.4
					8	159	3.3	3.3	103	4.4	3.8	2	318	3.5	3.7	1.6	899	2.0	1.7	1.2	4	413	2.3	1.1	0.9
	NFL	23°	12000	10174	10	102	4.1	4.1	66	5.5	4.7	4	79	6.9	7.4	3.3	225	4.0	3.4	2.3	6	184	3.5	2.2	1.9
					12	71	4.9	4.9	46	6.6	5.6	6	35	10.4	11.2	4.9	100	6.0	5.1	3.5	8	103	4.6	3.2	2.8
					14	52	5.7	5.7	34	7.7	6.6	8	20	13.9	14.9	6.5	56	8.0	6.8	4.6	10	66	5.8	4.4	3.8
					16	40	6.5	6.5	26	8.8	7.5	10	13	17.3	18.6	8.1	36	10.0	8.5	5.8	12	46	6.9	5.5	4.7
					8	91	4.6	4.6	59	6.3	5.3	2	181	3.5	6.1	2.3	513	2.0	2.5	1.6	2	942	1.2	1.6	1.3
					10	58	5.7	5.7	38	7.9	6.6	3	81	5.2	9.1	3.4	228	3.0	3.7	2.4	3	419	1.7	2.4	2.0
FL	32°	12000	5799	12	40	6.9	6.9	26	9.4	7.9	4	45	6.9	12.2	4.6	128	4.0	5.0	3.2	4	235	2.3	3.1	2.6	
				14	30	8.0	8.0	19	11.0	9.3	5	29	8.7	15.2	5.7	82	5.0	6.2	4.1	5	151	2.9	3.9	3.3	
				16	23	9.2	9.2	15	12.6	10.6	6	20	10.4	18.3	6.9	57	6.0	7.5	4.9	6	105	3.5	4.7	4.0	

For 20W lamps use 0.47 multiplier; for 70W lamps use 1.82 multiplier.

CMH Concentric Cylinder Spotlights BT-5/T3.5 PGJ5 Lamps (SP233MLBT)

Lamp	Beam Type	Beam Spread	Rated Life	CBCP	Horizontal Surface										Vertical Surface										
					0 degrees			30 degrees			30 degrees				45 degrees				60 degrees						
					MH	FC	L W	FC	L W	D	FC	X	L W	FC	X	L W	D	FC	X	L W					
39W Mini MasterColor BT-5/T3.5 Ceramic Metal Halide 	SP	10°	12000	30016	10	300	1.7	1.7	195	2.3	2.0	4	235	6.9	2.9	1.4	663	4.0	1.4	1.0	6	542	3.5	0.9	0.8
					12	208	2.1	2.1	135	2.8	2.4	6	104	10.4	4.3	2.1	295	6.0	2.1	1.5	9	241	5.2	1.4	1.2
					14	153	2.4	2.4	99	3.3	2.8	8	59	13.9	5.7	2.8	166	8.0	2.8	2.0	12	135	6.9	1.9	1.6
					16	117	2.8	2.8	76	3.7	3.2	10	38	17.3	7.2	3.5	106	10.0	3.5	2.5	15	87	8.7	2.3	2.0
					18	93	3.1	3.1	60	4.2	3.6	12	26	20.8	8.6	4.2	74	12.0	4.2	3.0	18	60	10.4	2.8	2.4
					8	168	2.8	2.8	109	3.8	3.3	2	336	3.5	3.1	1.4	950	2.0	1.5	1.0	4	436	2.3	1.0	0.8
	NFL	20°	12000	10745	10	107	3.5	3.5	70	4.8	4.1	4	84	6.9	6.2	2.8	237	4.0	2.9	2.0	6	194	3.5	1.9	1.6
					12	75	4.2	4.2	48	5.7	4.9	6	37	10.4	9.3	4.2	106	6.0	4.4	3.0	8	109	4.6	2.9	2.4
					14	55	4.9	4.9	36	6.7	5.7	8	21	13.9	12.4	5.6	59	8.0	5.8	4.0	10	70	5.8	3.8	3.3
					16	42	5.6	5.6	27	7.6	6.5	10	13	17.3	15.6	7.1	38	10.0	7.3	5.0	12	48	6.9	4.8	4.1
					8	96	4.0	4.0	62	5.4	4.6	2	192	3.5	4.9	2.0	543	2.0	2.1	1.4	2	998	1.2	1.4	1.2
					10	61	5.0	5.0	40	6.8	5.8	3	85	5.2	7.4	3.0	241	3.0	3.2	2.1	3	444	1.7	2.0	1.7
FL	28°	12000	6147	12	43	6.0	6.0	28	8.1	6.9	4	48	6.9	9.8	4.0	136	4.0	4.3	2.8	4	250	2.3	2.7	2.3	
				14	31	7.0	7.0	20	9.5	8.1	5	31	8.7	12.3	5.0	87	5.0	5.3	3.5	5	160	2.9	3.4	2.9	
				16	24	8.0	8.0	16	10.9	9.2	6	21	10.4	14.7	6.0	60	6.0	6.4	4.2	6	111	3.5	4.1	3.5	

For 20W lamps use 0.55 multiplier.

T5HO Flood/Wall Washer Footcandles on Wall from Multiple Units

2 x 24W T5HO Flood/Wall Wash (SW5ML)

Distance From Ceiling	Single Fixture Performance							Multiple Fixture Performance					
	0	1'	2'	3'	4'	5'	4'		6'				
Trac 2' from Wall	1'	167	116	43	13	4	1	176	88	176	169	34	169
	2'	108	83	42	17	6	3	121	86	121	111	26	111
	3'	54	45	28	15	7	3	69	59	69	57	30	57
	4'	29	25	18	11	6	3	42	39	42	33	22	33
	5'	17	15	11	8	5	3	28	27	28	21	17	21
	6'	10	9	8	6	4	3	20	19	20	14	12	14
	7'	7	6	5	4	3	2	14	14	14	10	9	10
	8'	5	4	4	3	2	2	11	10	11	7	7	7
	9'	3	3	3	2	2	2	8	8	8	6	5	6



Two 24W T5HO Lamps 3520 Total Lumens

Distance From Ceiling	Single Fixture Performance							Multiple Fixture Performance					
	0	1'	2'	3'	4'	5'	4'		6'				
Trac 3' from Wall	1'	77	60	32	14	6	3	89	67	89	77	39	77
	2'	72	60	37	19	9	4	92	78	92	79	29	79
	3'	51	44	30	18	10	5	73	67	73	57	37	57
	4'	33	30	22	15	9	5	53	50	53	39	30	39
	5'	20	18	15	11	7	5	37	36	37	26	23	26
	6'	13	12	10	8	6	4	27	27	27	20	18	20
	7'	9	9	7	6	5	3	21	20	21	15	14	14
	8'	6	6	5	5	4	3	16	16	16	11	11	11
	9'	5	4	4	3	3	2	12	12	12	9	9	9



Two 24W T5HO Lamps 3520 Total Lumens

Line Voltage MR16 Halogen Lamps

MR16/GU10

Lamp	Beam Type	Beam Spread	Rated Life	CBCP	Horizontal Surface										Vertical Surface										
					0 degrees				30 degrees			30 degrees			45 degrees				60 degrees						
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
50W MR16 GU10 Halogen	NFL	25°	6000	700	2	175	0.9	0.9	114	1.2	1.0	1	88	1.7	2.1	0.9	247	1.0	0.9	0.6	2	114	1.2	1.2	1.0
					3	78	1.3	1.3	51	1.8	1.5	1.5	39	2.6	3.1	1.3	110	1.5	1.4	0.9	2.5	73	1.4	1.5	1.3
					4	44	1.8	1.8	28	2.4	2.0	2	22	3.5	4.2	1.8	62	2.0	1.9	1.3	3	51	1.7	1.8	1.5
					5	28	2.2	2.2	18	3.0	2.6	2.5	14	4.3	5.2	2.2	40	2.5	2.3	1.6	3.5	37	2.0	2.1	1.8
					6	19	2.7	2.7	13	3.6	3.1	3	10	5.2	6.2	2.7	27	3.0	2.8	1.9	4	28	2.3	2.4	2.0



Product Index

JLG-B100	36	MLP112	35	P45	18	SP403MLP	10	T595.....	12
ML4.....	30	MLP140	35	P47	18	SP407MLP	10	T596.....	12
ML8.....	30	MLP14x.....	35	P52	19	SP852MLP	10	T597.....	12
MLE	30	MLP150	35	P61	19	SP853MLP	10	T598.....	12
MLE2	30	MLP164	33	P68	19	SP892MLP	11	T741.....	12
MLF-EXT	36	MLP165	33	P88	19	SP893MLP	11	T742.....	12
MLJ1.....	30	MLP166	33	P95	20	SP992	14	T743.....	12
MLJ2.....	30	MLS1	31	P136	20	SP995	14	T744.....	12
MLJ3.....	31	MLS2	31	P160	20	SW1ML	6	T745.....	12
MLJ4.....	31	MLS3	31	RSE.....	36	SW2ML	7	T746.....	12
MLJ6.....	31	MLS10	32	SP10MLU.....	15	SW5ML	11	T853MC-BL	12
MLKD1.....	39	MLS11	32	SP11MLU.....	15	T561.....	12	T893MC-BL	12
MLKD2.....	41	MLS14	32	SP12MLU.....	15	T562.....	12	T5618.....	12
MLKD3.....	41	MLS16	32	SP95MLU.....	15	T563.....	12	T5619.....	12
MLKD4.....	41	MLS30	32	SP207MLXP.....	7	T564.....	12	T5621.....	12
MLKS1	38	MLS31	32	SP232MLT4	7	T565.....	12	T5622.....	12
MLKS2.....	38	MLS50	33	SP233MLBT.....	7	T566.....	12	T5677.....	12
MLKS3.....	39	MLS61	33	SP241MLXM.....	8	T569BL	12	T5678.....	12
MLKSA.....	39	MLS64	33	SP244MLXP.....	8	T591.....	12	T569BL	12
MLP1J1.....	35	MLTQJ75	36	SP254MLL	6	T592.....	12	T5918.....	12
MLP1J4.....	35	MLTQJL75	36	SP254MLT4	8	T593.....	12	T5919.....	12
MLP104	35	P38	18	SP255MLBT.....	8	T594.....	12	T5921.....	12

T5922.....	12	TLP314	22
T5928BL	12	TLP315	23
T7401.....	12	TLP316	24
T7402.....	12	TLP318	23
T7403.....	12	TLP320	23
T7404.....	12	TLP322	23
T7405.....	12	TLP324	24
T7406.....	12	TLP326	24
T7416.....	12	TLP328	24
T7418.....	12	TLQJP78.....	25
T7419.....	12	TLQJP144.....	25
T7420.....	12	TLQJPLED78....	25
T7421.....	12	TLQJPLED144..	25
T7422.....	12	TM530BL	12
T7459BL	12	TQJ114.....	14
T7477.....	12	TQJ252L	6
T7478.....	12	TQJPL.....	27
TL925.....	25		
TL926.....	25		
TLP310	22		
TLP311	22		
TLP312	22		



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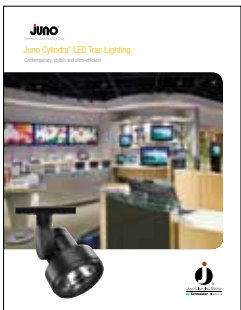
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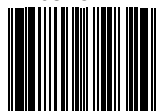


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