

# JUNIPER®

JUNIPERDESIGN.COM

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# JUNIPER®

# MULTIVERSE®

S Y S T E M  
A NEW GENERATION OF INDOOR POWER DISTRIBUTION

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Juniper's MULTIVERSE® System\* is a revolutionary, low-voltage power distribution system that redefines the aesthetic and technical capabilities of ribbon lighting. Ribbon segments and connectors are combined to create striking visual motifs spanning as far as 150 linear feet on a single driver, while effortlessly navigating varying topography, corners, and changing planes.

The MULTIVERSE® System's ultra-low, ribbon-like profile conceals its 24 V high-efficiency dual circuitry, which is easily installed on nearly any flat surface and can be painted on site to match — or to specification in advance — which allows MULTIVERSE® to discreetly recede into its surroundings or create a bold graphic statement. An intuitive magnetic system connects up to 15 miniature spot modules, which can be rotated, repositioned anywhere along the system's length, or flipped 180° for independent dimming capabilities on the second circuit.

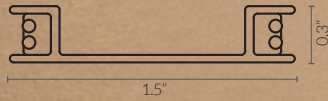
As part of the greater Juniper collection, the patented MULTIVERSE® System can mount most Juniper products via magnetic adaptors, eliminating the need to run internal wiring and turning a fixed lighting plan into a flexible, user-tailored system. Like all Juniper products, MULTIVERSE® is manufactured at the company's Connecticut factory, where each system can be customized to meet any design specification.

\* MULTIVERSE® System U.S. Patent No. 11,137,132

Patent Notice — this product is protected by patent(s) and/or pending patent application(s) and their corresponding national rights. Information regarding the patent(s) and/or pending patent application(s) can be found at [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/).

## MULTIVERSE® SYSTEM AT A GLANCE

### FEATURES AND BENEFITS



#### ULTRA-LOW PROFILE RIBBON

Magnetic connection.  
Surface mounts to almost any material.

#### SPOTLIGHTS & CYLINDERS

500, 1000, 1500 LM output.  
Field-replaceable beam angles — narrow, medium, wide, and extra wide.  
A range of optical accessories — softening lens, hex louver, snoot, wall wash — for onsite adjustment.  
Precision-machined aluminum.  
Full 360° rotation and 0–90° tilt for spotlights.

#### DIMMING

2 circuits.  
0–10 V or phase.  
Casambi wireless available.  
1% and 0.1% dimming.



#### POWER SUPPLIES

24 VDC.  
Remote and surface mounted options available.

#### CONNECTORS

Inline, 90 Degree Corner, 3-Way, 4-Way, and Out-of-Plane.  
Inline/In-Plane connectors can be easily converted onsite into power feeds.

#### SUSPENDED RIBBON SYSTEM

Suspended backing rail allows the MULTIVERSE® to take to the air.  
Up to 4 circuits total, 2 up and 2 down, or optional indirect uplight.

#### LUMINAIRE FINISHES

High-performance coatings.  
Matte White, Matte Black, Satin Aluminum, Satin Brass, Custom colors.

#### VOLTAGE DROP CORRECTION

Integrated onboard electronics guarantee spotlight output is even across long ribbon runs.  
150' of ribbon can be powered via a single 96 W power supply.  
Add power supplies for longer runs with seamless continuity and no reduction in brightness.

#### SIMPLE INSTALLATION

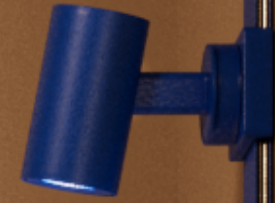
Easy install clip system, field-cutable.  
Junction box covers.  
Surface-mounted power supplies.

#### RIBBON AND CONNECTOR FINISHES

High performance coatings.  
Primer is field paintable.  
Matte White, Matte Black, Satin Aluminum, Satin Brass, Custom colors.  
Conductor insulation coordinates with the ribbon finish.

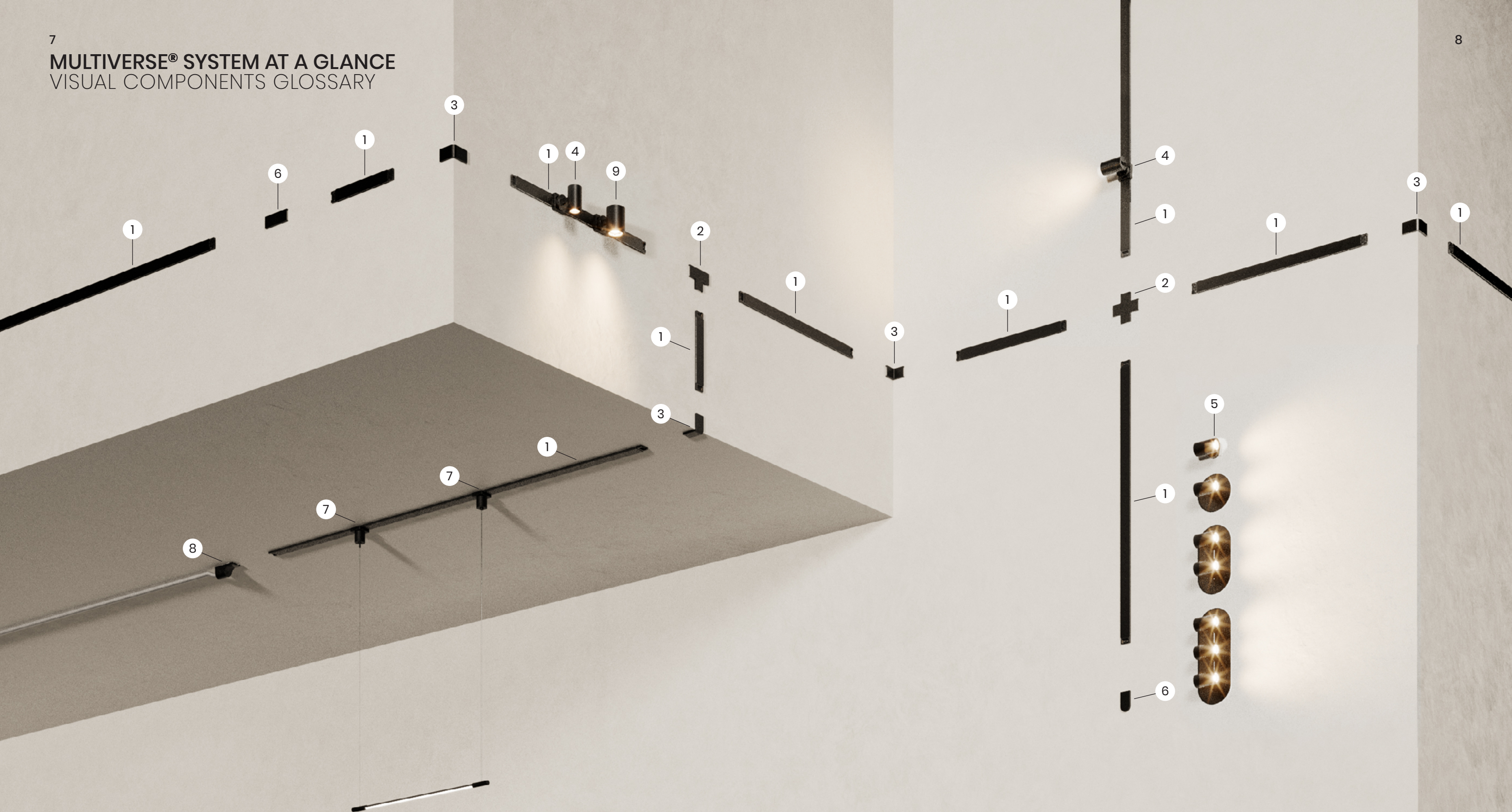
#### ILLUMINATED RIBBON

An opal-glow 1:1 replacement for the MULTIVERSE® Ribbon.  
Ultra-minimal profile for uninterrupted use with the ribbon.  
3.3 W/FT provides a soft, functional accent.



# MULTIVERSE® SYSTEM AT A GLANCE

## VISUAL COMPONENTS GLOSSARY



Ribbon adaptors allow for the use of other Juniper fixtures.  
[Inquire](#) for details.

**1 RIBBON**

**2 RIBBON CONNECTORS IN-PLANE**

**3 RIBBON CONNECTORS OUT-OF-PLANE**

**4 SPOTLIGHTS 45 MM RIBBON-MOUNTED**

**5 SPOTLIGHTS MONOPOINT**

**6 RIBBON POWER FEEDS SURFACE**

**7 RIBBON ADAPTORS SUSPENSION**

**8 POWER FEED CONDUIT**

**9 SPOTLIGHTS 60 MM RIBBON-MOUNTED**

**POWER SUPPLIES REMOTE (NOT SHOWN)**

**MINIMAL**

At just 1.5" wide by 0.3" thin, the MULTIVERSE® ribbon works in almost any setting.

**DESIGNED FOR DESIGNERS**

2 circuits standard, surface mount with easy-to-position installation clips.

**CAN GO ANYWHERE**

A series of pivot elements make for easy installation on nearly any flat surface and allow the system's segments to effortlessly change planes and navigate corners.

**FIELD PAINTABLE**

Blend the ribbon seamlessly into a design by painting it to match existing surfaces.

**STANDALONE AESTHETICS**

Beautiful on its own, the ribbon is designed to add architectural detail to a space.

**POWER FEED FREEDOM**

Any In-Plane connector can become a power feed onsite with modular wire harnesses.

### **MULTIPLE POWER FEED OPTIONS**

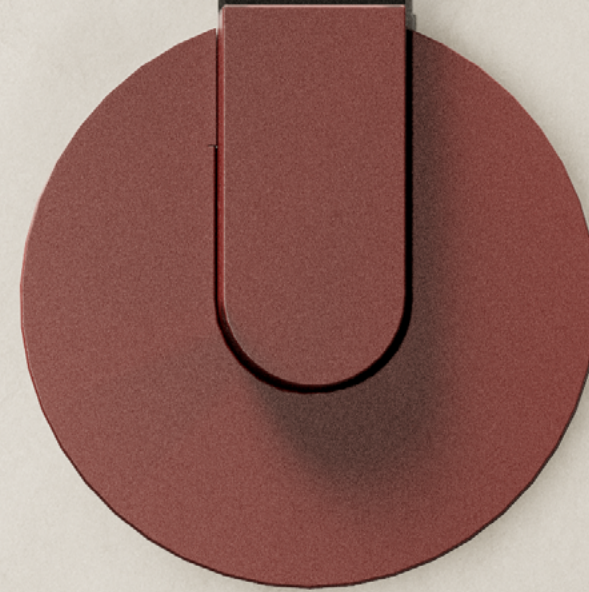
Connect the system with or without junction boxes, for inline, corner, and end feeds.

### **DIMMABLE**

Standard options include 120–277 VAC input, forward-phase, reverse-phase, and 0–10 V dimming to 1% or 0.1%.

### **EFFICIENT**

96 W of power allows for up to 15 spotlights and/or cylinders on one circuit; simply add more power supplies to expand the system.



# MULTIVERSE® SYSTEM — RIBBON & CONNECTORS FINISHES

## EXCEPTIONAL FINISHES

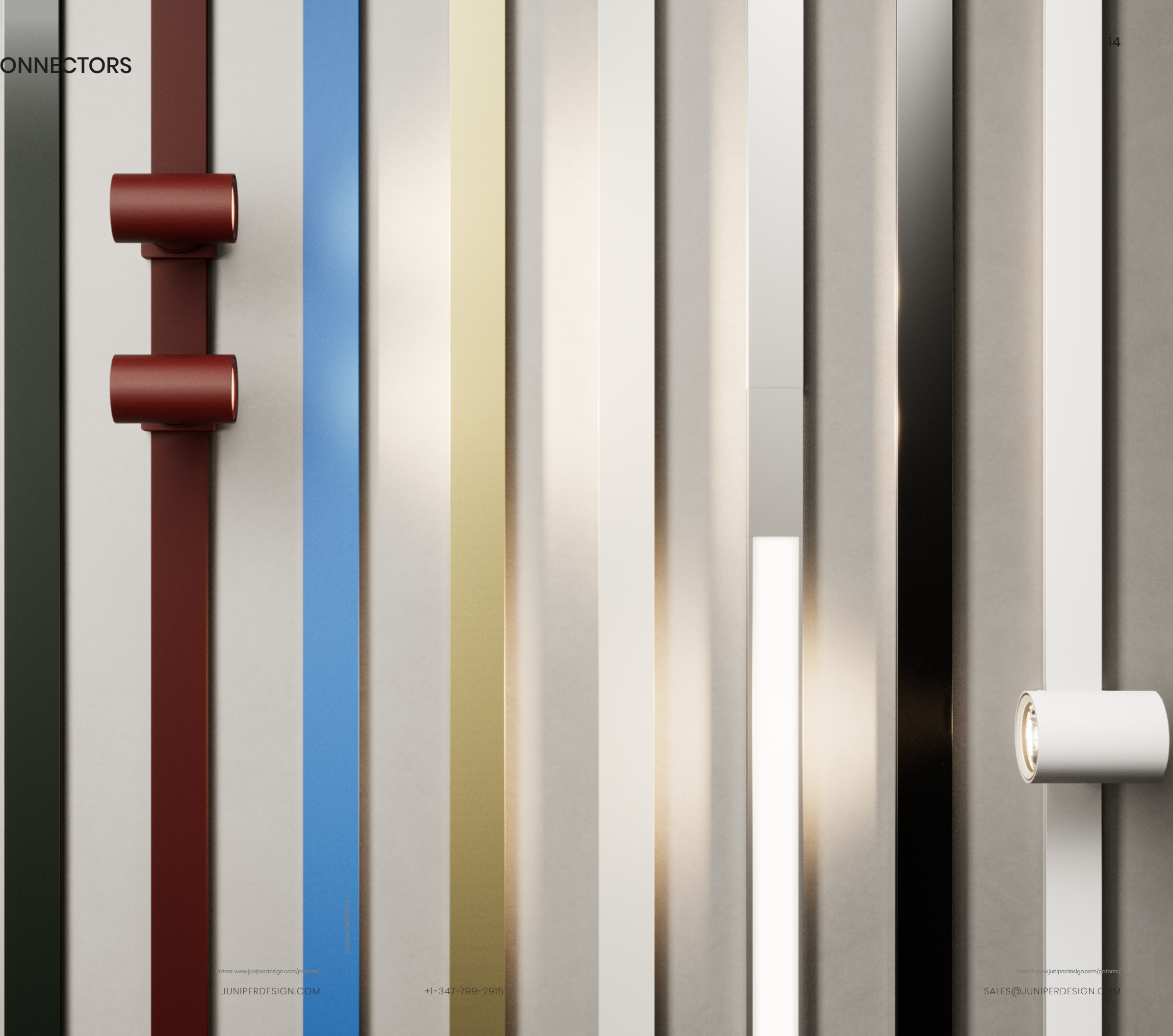
High performance coatings, powder coats, and plated metallics.

Primer field-paintable ribbon and connectors.

Matte White, Matte Black, Satin Aluminum, Satin Brass and Custom colors — see [Finishes](#) section for details.

## CONDUCTOR COLORS

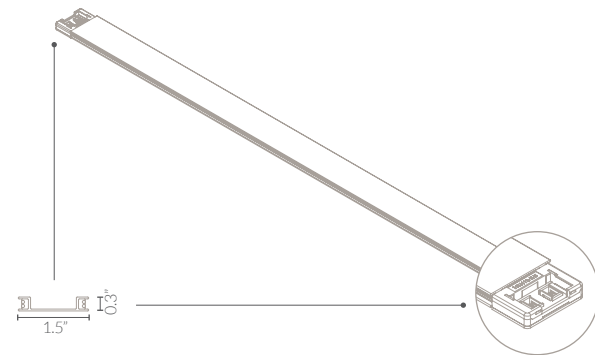
Ninimal side-mounted conductors are black or white to complement the specific ribbon color.

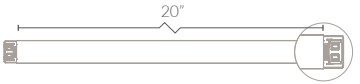

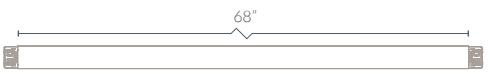
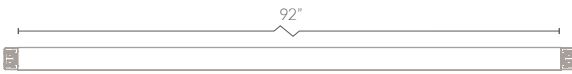


# SYSTEM SPECIFICATIONS

## RIBBON

- The low profile heart of the MULTIVERSE® System
- Field cuttable (see [Layout Guide](#) for details)
- 2 circuits standard – change circuit by reversing fixture on the ribbon
- All components must be ordered separately except where noted
- Primer is field-paintable
- See [Finishes](#) page for full finish selection options
- Each ribbon comes with one Ribbon End Coupler Interface on each end; must be removed before field cutting



ITEM	INCL. CLIPS QTY	FINISH	PART NUMBER
<b>2 FT RIBBON</b> 	2	32 BLACK	JPR-MLTV-TRK3-200-32
		33 SATIN ALUMINUM	JPR-MLTV-TRK3-200-33
		30 WHITE	JPR-MLTV-TRK3-200-30
		36 SATIN BRASS	JPR-MLTV-TRK3-200-36
		31 PRIMER	JPR-MLTV-TRK3-200-31
<b>4 FT RIBBON</b> 	3	32 BLACK	JPR-MLTV-TRK3-440-32
		33 SATIN ALUMINUM	JPR-MLTV-TRK3-440-33
		30 WHITE	JPR-MLTV-TRK3-440-30
		36 SATIN BRASS	JPR-MLTV-TRK3-440-36
		31 PRIMER	JPR-MLTV-TRK3-440-31
<b>6 FT RIBBON</b> 	4	32 BLACK	JPR-MLTV-TRK3-680-32
		33 SATIN ALUMINUM	JPR-MLTV-TRK3-680-33
		30 WHITE	JPR-MLTV-TRK3-680-30
		36 SATIN BRASS	JPR-MLTV-TRK3-680-36
		31 PRIMER	JPR-MLTV-TRK3-680-31
<b>8 FT RIBBON</b> 	5	32 BLACK	JPR-MLTV-TRK3-920-32
		33 SATIN ALUMINUM	JPR-MLTV-TRK3-920-33
		30 WHITE	JPR-MLTV-TRK3-920-30
		36 SATIN BRASS	JPR-MLTV-TRK3-920-36
		31 PRIMER	JPR-MLTV-TRK3-920-31


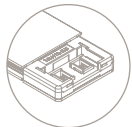
Each ribbon segment includes an appropriate amount of clips determined by the length – clips should be mounted within 3 inches of each end of the ribbon segment, with no more than 18 inches between clips.

# SYSTEM SPECIFICATIONS

## RIBBON MOUNTING HARDWARE

The surface mounting clip takes a #6 pan-head screw and can be attached to any horizontal or vertical surface (with appropriate anchoring hardware). Ribbon segments then snap onto the clip, and can be released by inserting a flat-head screwdriver (or the provided tool) under the ribbon to depress the catch mechanism.

The appropriate quantity of hardware is included with each ribbon length. Additional clips may be purchased separately if needed. If cutting one piece of ribbon into two, additional Ribbon End Couplers will be required to terminate the ribbon.

ITEM	PART NUMBER
<b>SURFACE MOUNT CLIP</b>  <p>Mounts the ribbon to any flat surface with a #6 pan-head screw</p>	RAS-0112-WM
<b>RIBBON END COUPLER (Z-END)</b>  <p>Distributes power between ribbon and connectors/ power feeds. Two pieces are included with each ribbon segment</p>	RAS-0245

For more details, see [Layout Guide](#).

# SYSTEM SPECIFICATIONS

## RIBBON CONNECTORS / POWER FEEDS IN-PLANE

- A connector is required at the end of all ribbon segments. All connectors allow for pass-through of the circuit.
- To isolate the ends of the ribbon, add provided Isolating Tape to the ribbon ends (see [Layout Guide](#) section for more details).
- A power feed is required to bring low-voltage 24 VDC power to the ribbon.
- Each feed can accommodate connections for up to (2) 96 W circuits.
- Junction box cover plates are available, though not required.
- Any in-plane connector below can be easily converted onsite into a power feed if needed, by attaching provided 4-conductor 24 V wire harnesses to onboard sockets within each connector. Minimum 14 AWG feeder cable is recommended to minimize voltage drop – see [Power Supply](#) section for details.

ITEM	FINISH	PART NUMBER
<b>ROUND END</b>  Terminates one end of a ribbon segment  Power Feed Capability: Direct wire with low voltage cable; feeds in one direction; can be mounted to surface; requires 4-conductor wire harness to be a power feed Cannot mount to 4" octagon box – requires jbox cover plate	32 BLACK	JPR-MLTV-CON2-EF-32
	33 SATIN ALUMINUM	JPR-MLTV-CON2-EF-33
	30 WHITE	JPR-MLTV-CON2-EF-30
	36 SATIN BRASS	JPR-MLTV-CON2-EF-36
	31 PRIMER	JPR-MLTV-CON2-EF-31
<b>INLINE</b>  Connects two ribbon segments  Power Feed Capability: Direct wire with low voltage cable; can feed in both directions; can be mounted to surface; requires 4-conductor wire harness to be a power feed	32 BLACK	JPR-MLTV-CON2-IL-32
	33 SATIN ALUMINUM	JPR-MLTV-CON2-IL-33
	30 WHITE	JPR-MLTV-CON2-IL-30
	36 SATIN BRASS	JRR-MLTV-CON2-IL-36
	31 PRIMER	JPR-MLTV-CON2-IL-31
<b>90 DEGREE CORNER</b>  Connects two ribbon segments at 90°  Power Feed Capability: Direct wire with low voltage cable; can feed in both directions; can be mounted to surface; requires 4-conductor wire harness to be a power feed	32 BLACK	JPR-MLTV-CON2-90-32
	33 SATIN ALUMINUM	JPR-MLTV-CON2-90-33
	30 WHITE	JPR-MLTV-CON2-90-30
	36 SATIN BRASS	JPR-MLTV-CON2-90-36
	31 PRIMER	JPR-MLTV-CON2-90-31
<b>3-WAY</b>  Connects three ribbon segments at 90°  Power Feed Capability: Direct wire with low voltage cable; can feed in 3 directions; mounts to surface; requires 4-conductor wire harness to be a power feed	32 BLACK	JPR-MLTV-CON2-3W-32
	33 SATIN ALUMINUM	JPR-MLTV-CON2-3W-33
	30 WHITE	JPR-MLTV-CON2-3W-30
	36 SATIN BRASS	JPR-MLTV-CON2-3W-36
	31 PRIMER	JPR-MLTV-CON2-3W-31
<b>4-WAY</b>  Connects four ribbon segments at 90°  Power Feed Capability: Direct wire with low voltage cable; can feed in 4 directions; mounts to surface; requires 4-conductor wire harness to be a power feed	32 BLACK	JPR-MLTV-CON2-4W-32
	33 SATIN ALUMINUM	JPR-MLTV-CON2-4W-33
	30 WHITE	JPR-MLTV-CON2-4W-30
	36 SATIN BRASS	JPR-MLTV-CON2-4W-36
	31 PRIMER	JPR-MLTV-CON2-4W-31

\*A square end connector (instead of rounded) can be provided upon request.

# SYSTEM SPECIFICATIONS

## RIBBON FEED CONNECTORS CONDUIT FEED / WIRE HARNESS / J-BOX COVER PLATES



ITEM	FINISH	PART NUMBER
<b>CONDUIT (POWER FEED)</b>  Accepts conduit via 1/2" knockout, feeds in one direction	32 BLACK	JPR-MLTV-CON2-CF-32
	33 SATIN ALUMINUM	JPR-MLTV-CON2-CF-33
	30 WHITE	JPR-MLTV-CON2-CF-30
	36 SATIN BRASS	JPR-MLTV-CON2-CF-36
	31 PRIMER	JPR-MLTV-CON2-CF-31
<b>4-CONDUCTOR WIRE HARNESS</b>  24 VDC, 22 AWG 4-conductor cable assembly, for converting in-plane connectors into power feeds		CBL-0071
<b>CONNECTOR ACCESSORIES – 4" OCTAGON JUNCTION BOX COVER PLATES</b>	32 BLACK	JPR-MLTV-JCN2-IL-32
	33 SATIN ALUMINUM	JPR-MLTV-JCN2-IL-33
	30 WHITE	JPR-MLTV-JCN2-IL-30
	36 SATIN BRASS	JPR-MLTV-JCN2-IL-36
	31 PRIMER	JPR-MLTV-JCN2-IL-31
<b>END</b>  For end connectors  Available upon request Includes junction box mounting hardware	32 BLACK	JPR-MLTV-JCN2-EF-32
	33 SATIN ALUMINUM	JPR-MLTV-JCN2-EF-33
	30 WHITE	JPR-MLTV-JCN2-EF-30
	36 SATIN BRASS	JPR-MLTV-JCN2-EF-36
	31 PRIMER	JPR-MLTV-JCN2-EF-31
<b>90 DEGREE CORNER</b>  For 90° corner connectors  Available upon request Includes junction box mounting hardware	32 BLACK	JPR-MLTV-JCN2-90-32
	33 SATIN ALUMINUM	JPR-MLTV-JCN2-90-33
	30 WHITE	JPR-MLTV-JCN2-90-30
	36 SATIN BRASS	JPR-MLTV-JCN2-90-36
	31 PRIMER	JPR-MLTV-JCN2-90-31

# SYSTEM SPECIFICATIONS

## RIBBON CONNECTORS (NON-POWERED)

### OUT-OF-PLANE

For additional mounting and dimension information, see [Minimum Dimensions](#).

ITEM	FINISH	PART NUMBER
<b>INSIDE CORNER</b>		
<p>Connects two ribbon segments at 90°, as in the intersection of a wall and a ceiling</p> 	32 BLACK	JPR-MLTV-CON1-IC-32
	33 SATIN ALUMINUM	JPR-MLTV-CON1-IC-33
	30 WHITE	JPR-MLTV-CON1-IC-30
	36 SATIN BRASS	JPR-MLTV-CON1-IC-36
	31 PRIMER	JPR-MLTV-CON1-IC-31
<b>OUTSIDE CORNER</b>		
<p>Connects two ribbon segments at 90°, as in the intersection of two walls</p> 	32 BLACK	JPR-MLTV-CON1-OC-32
	33 SATIN ALUMINUM	JPR-MLTV-CON1-OC-33
	30 WHITE	JPR-MLTV-CON1-OC-30
	36 SATIN BRASS	JPR-MLTV-CON1-OC-36
	31 PRIMER	JPR-MLTV-CON1-OC-31

All connectors allow for pass through of the circuit; to isolate the ends of the ribbon, add provided Isolating Tape to the ribbon ends.

Please contact Juniper for alternate configurations.

# SYSTEM SPECIFICATIONS

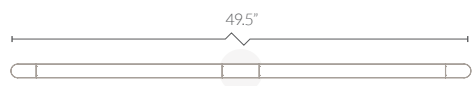
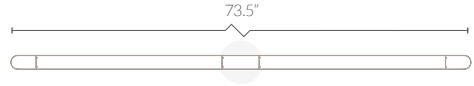
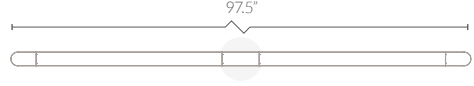
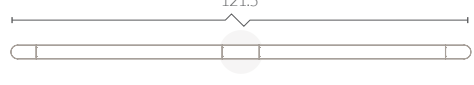
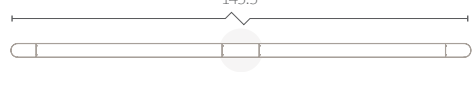
## STANDARD KITS

### CONFIGURATION EXAMPLES

Examples of standard MULTIVERSE® ribbon kits are provided below, for surface-mounting (wired to remote LED drivers).

The rounded end or inline connectors listed here can be converted to power feeds onsite by attaching the provided 4-conductor 24 VDC wire harnesses to the onboard connector sockets.

Spotlights and power supplies (with wire harness) are purchased separately.

ITEM	PARTS INCLUDED	PART NUMBER	UNITS
<b>4 FT KIT</b>			
For 2 × 2 ft ribbon segments	RIBBON 2' – 2 CLIPS	JPR-MLTV-TRK2-002-XX	2
 <p>J-Box Cover Plate ordered separately</p>	ROUNDED END CONNECTOR	JPR-MLTV-CON2-EF-XX	2
	INLINE CONNECTOR	JPR-MLTV-CON2-IL-XX	1
<b>6 FT KIT</b>			
For 2 × 3 ft ribbon segments	RIBBON 3' – 3 CLIPS	JPR-MLTV-TRK2-CU3-XX	2
 <p>J-Box Cover Plate ordered separately</p>	ROUNDED END CONNECTOR	JPR-MLTV-CON2-EF-XX	2
	INLINE CONNECTOR	JPR-MLTV-CON2-IL-XX	1
<b>8 FT KIT</b>			
For 2 × 4 ft ribbon segments	RIBBON 4' – 3 CLIPS	JPR-MLTV-TRK2-004-XX	2
 <p>J-Box Cover Plate ordered separately</p>	ROUNDED END CONNECTOR	JPR-MLTV-CON2-EF-XX	2
	INLINE CONNECTOR	JPR-MLTV-CON2-IL-XX	1
<b>10 FT KIT</b>			
For 2 × 5 ft ribbon segments	RIBBON 5' – 4 CLIPS	JPR-MLTV-TRK2-CU5-XX	2
 <p>J-Box Cover Plate ordered separately</p>	ROUNDED END CONNECTOR	JPR-MLTV-CON2-EF-XX	2
	INLINE CONNECTOR	JPR-MLTV-CON2-IL-XX	1
<b>12 FT KIT</b>			
For 2 × 6 ft ribbon segments	RIBBON 6' – 4 CLIPS	JPR-MLTV-TRK2-006-XX	2
 <p>J-Box Cover Plate ordered separately</p>	ROUNDED END CONNECTOR	JPR-MLTV-CON2-EF-XX	2
	INLINE CONNECTOR	JPR-MLTV-CON2-IL-XX	1

# SYSTEM SPECIFICATIONS

## POWER SUPPLIES

### POWER CALCULATIONS — MONOPOINTS

Quantity of monopoints per driver (15 ft or less of power feed cable)

NOMINAL POWER SUPPLY WATTAGE (W)	AVAILABLE POWER (W)	500 LM (5.5 W)	1000 LM (11.7 W)	1500 LM (18.4 W)
30	26.5	5	2	1
60	51.8	9	4	2
96	80.8	15	7	4

### POWER CALCULATIONS — RIBBON MOUNTED SPOTLIGHTS

Quantity of spotlights per driver

NOMINAL DRIVER POWER (W)	POWER FEED + RIBBON LENGTH (FT)	AVAILABLE POWER (W)	500 LM		1000 LM		1500 LM	
			1% DIMMING	0.1% DIMMING	1% DIMMING	0.1% DIMMING	1% DIMMING	0.1% DIMMING
			5.5 W	5.7 W	11.7 W	12.2 W	18.7 W	18.8 W
30	15	26.7	4	4	2	2	1	1
	75	26.4	4	4	2	2	1	1
	150	25.7	4	4	2	2	1	1
60	15	53	9	9	4	4	2	2
	75	51.6	9	9	4	4	2	2
	150	49.7	9	8	4	4	2	2
96	15	84	15	14	7	6	4	4
	36	82	14	14	7	6	4	4
	75	79.7	14	13	6	6	4	4
	150	51.5	9	9	4	4	2	2

**Note 1:** 6' ribbon segments assumed for 15' calculations, 8' ribbon segments assumed for 75' and 150' calculations.

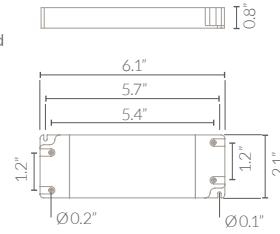
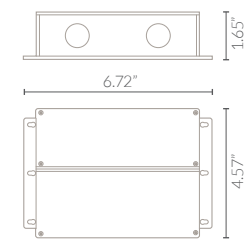
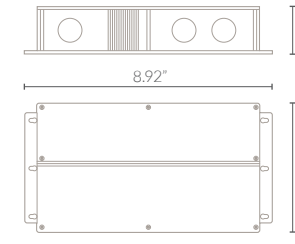
**Note 2:** assumes all spotlights are evenly spaced throughout the track run.

# SYSTEM SPECIFICATIONS

## POWER SUPPLIES

- The MULTIVERSE® System power supplies are 120–277 VAC input, forward-phase, reverse-phase, and 0–10 V dimming to 1% or 0.1%\* in one package
- UL Listed power supplies are available for remote applications
- Use chart to determine the best wattage for the required layout and run length
- Two circuits are available – to maximize power and/or for separate circuit control, two power supplies are required

\* dimming level is set by spotlight/cylinder specification

ITEM	WATTAGE	INPUT VOLTAGE	DIMMING	PART NUMBER
<b>POWER SUPPLY</b> 24 VDC, Triac/ELV/0–10 V 1% or 0.1% Dimming, Remote, UL Listed 	30 W	120–277 VAC	Forward-phase, Reverse-phase, 0–10 V	PWR-0141
	30 W	120–277 VAC	Forward-phase, Reverse-phase, 0–10 V	PWR-0127
	60 W			PWR-0128
	96 W	120–277 VAC	Forward-phase, Reverse-phase, 0–10 V	PWR-0129

# SYSTEM SPECIFICATIONS

## MULTIVERSE POWER HUB

- MULTIVERSE Power Hub is 120–277 VAC input, forward-phase, reverse-phase, and 0–10V dimming to 1% or 0.1% in one package
- MULTIVERSE Power Hub mounts to a typical 4" fixture octagon junction box or mud ring (by others) and can be mounted to the wall or the ceiling
- One MULTIVERSE Power Hub can power both ribbon circuits. For individual 2-circuit control, a second power supply is required. The second power supply would need a separate location on the ribbon, or remote power supplies can be used
- See [Power Supply Spec Sheet](#) for additional info detailed power supply specifications and dimming compatibility
- UL Listed power supplies are available for remote applications\*

### FINISH EXAMPLES



**BK** BLACK  
**32** MATTE BLACK



**WT** WHITE  
**36** SATIN BRASS



**WT** WHITE  
**33** SATIN ALUMINUM

### SPECIFICATION BUILDER



MODEL	1. NOMINAL POWER SUPPLY WATTAGE	2. ENCLOSURE FINISH	3. DECORATIVE PLATE FINISH
JPR-MLTV-ECL1	<b>30</b> 30W	<b>WT</b> WHITE	<b>30</b> MATTE PURE WHITE
	<b>60</b> 60W	<b>BK</b> BLACK	<b>32</b> BLACK
	<b>96</b> 96W		<b>33</b> SATIN ALUMINUM
			<b>36</b> SATIN BRASS
			<b>37</b> POLISHED ALUMINUM
			<b>CU</b> CUSTOM

\* Juniper offers a range of power supply solutions to meet various site conditions – please see our Power Supply page for alternatives.



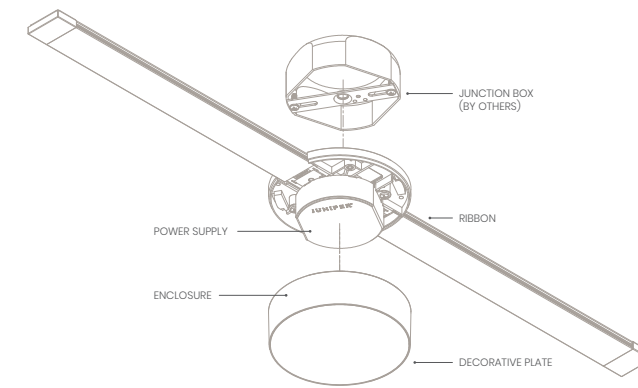
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# SYSTEM SPECIFICATIONS

## MULTIVERSE POWER HUB

### APPLICATION: ANY FLAT SURFACE

#### CEILING INSTALLATION (EXPLODED VIEW)



#### WALL INSTALLATION



### APPLICATION: FEEDING ONE RIBBON

#### TOP VIEW WITHOUT ENCLOSURE

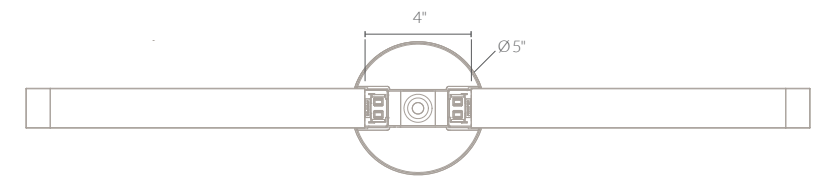


#### SIDE VIEW WITH ENCLOSURE



### APPLICATION: FEEDING TWO RIBBONS

#### TOP VIEW WITHOUT ENCLOSURE



#### SIDE VIEW WITH ENCLOSURE



NOMINAL DRIVER POWER (W)	POWER FEED + RIBBON LENGTH (FT)	AVAILABLE POWER (W)	500 LM		1000 LM		1500 LM	
			1% DIMMING	0.1% DIMMING	1% DIMMING	0.1% DIMMING	1% DIMMING	0.1% DIMMING
			5.5 W	5.7 W	11.7 W	12.2 W	18.7 W	18.8 W
30	15	26.7	4	4	2	2	1	1
	75	26.4	4	4	2	2	1	1
	150	25.7	4	4	2	2	1	1
60	15	53	9	9	4	4	2	2
	75	51.6	9	9	4	4	2	2
	150	49.7	9	8	4	4	2	2
96	15	84	15	14	7	6	4	4
	36	82	14	14	7	6	4	4
	75	79.7	14	13	6	6	4	4
	150	51.5	9	9	4	4	2	2

**Note 1:** 6' ribbon segments assumed for 15' calculations, 8' ribbon segments assumed for 75' and 150' calculations.

**Note 2:** assumes all spotlights are evenly spaced throughout the track run.



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# SYSTEM SPECIFICATIONS FINISHES

The MULTIVERSE® System is available in a range of finishes including powder coating, metal plating, and a highly durable heat-cured urethane lacquer applied in our own state-of-the-art finishing department at our Southington Factory.

Custom system finishes are available on request. Lot charges apply.

For all finishes except primer, all ribbon, connectors, and luminaires will have a matching finish.

Primer is available on ribbon and ribbon connector components only. It is intended to be field painted with quality latex acrylic paints to match existing ceiling or wall finishes. Masking of conductors is required with provided masking.



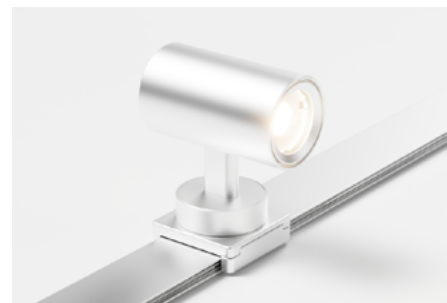
Matte Black 32



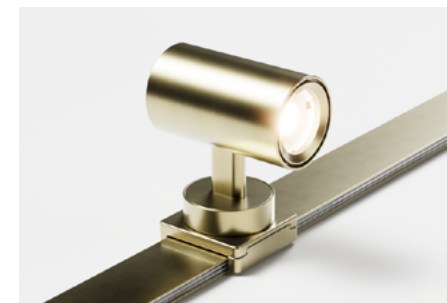
Matte Pure White (RAL 9016) 30



Primer 31 — Ribbon and Connectors only



Satin Aluminum 33



Satin Brass 36

### Custom CU



## LIGHTING COMPONENTS — SPOTLIGHTS & CYLINDERS

### SPOTLIGHTS

#### EASY MAGNETIC POSITIONING

No tools required to move the spotlight — and simply flip it 180° to select between the two standard circuits.

#### WIDE RANGE OF FINISHES AND CUSTOM COLORS

Between the exceptional standard finishes and custom color capability, the MULTIVERSE® luminaires are design-ready.

#### SUPPORT FOR MANY LUMINAIRES

Up to 30 spotlights from a single power feed and more can be added with seamless in-line power feeds.

#### INDUSTRY-LEADING LIGHT QUALITY AND DIMMING

95+ CRI, 90+ R9, 85 LM/Watt delivered average, and flicker free dimming to 0.1%.

#### TINY MODULES WITH HIGH OUTPUT

500, 1000, 1500 LM output, featuring field replaceable beam angles, full 360° rotation, and 0–90° tilt.

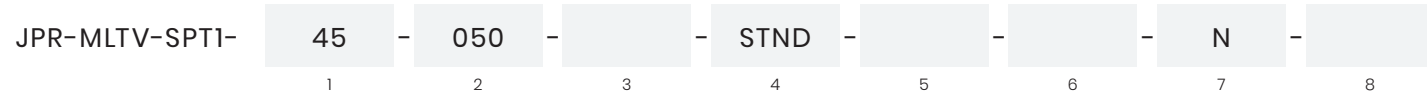


# SYSTEM SPECIFICATIONS

## SPOTLIGHTS RIBBON-MOUNT

### 45 MM, STANDARD STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-SPT1	45 45 MM DIAMETER	050 500 LM / 5.5 W	A 1% B 0.1%	STND STANDARD

5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH
27 2700 K	NR NARROW (22)	N NONE (SPACER RING)	30 MATTE PURE WHITE
30 3000 K	ME MEDIUM (29)	Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories:	32 MATTE BLACK
35 3500 K	WI WIDE (38)		33 SATIN ALUMINUM
40 4000 K	XW EXTRA WIDE (65)		36 SATIN BRASS
	See <a href="#">lens kits</a> for additional field replaceable lenses	HEX LOUVER SOFTENING LENS SNOOT	Stock finishes shown. See <a href="#">Finishes</a> for additional options.

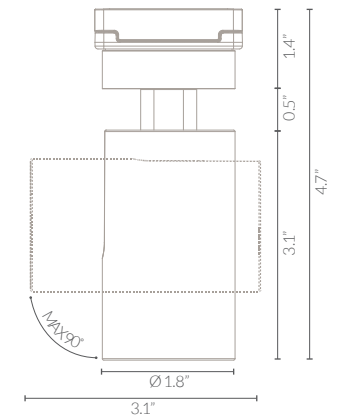
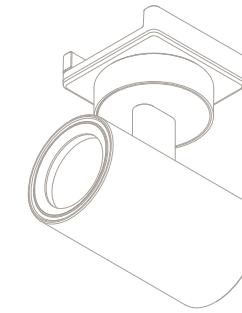
# SYSTEM SPECIFICATIONS

## SPOTLIGHTS RIBBON-MOUNT

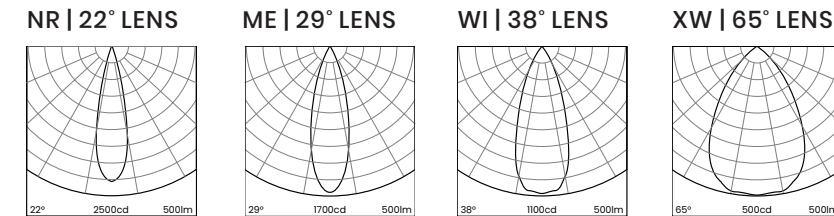
### 45 MM, STANDARD STEM

**CRI**                      **TM-30**  
 CRI 95-98              Rf 96-98  
 R9 94-99                Rg 99-102

- 85-90 LM/W delivered efficacy
- Standard ribbon-mounted spotlight
- Features proprietary one-handed side-load clamp mechanism
- Change between ribbon circuits by reversing orientation on the ribbon
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### SPOTLIGHT 500 LM | 3000 K



For additional lenses and accessories, see [Lenses and Optical Accessories](#).

For detailed photometrics, see [Photometrics Guide](#).

[IES files](#) available.



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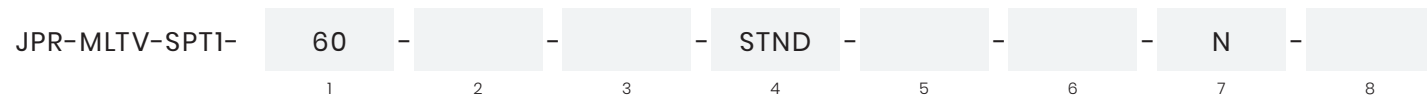
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# SYSTEM SPECIFICATIONS

## SPOTLIGHTS RIBBON-MOUNT

### 60 MM, STANDARD STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-SPT1	60 60 MM DIAMETER	100 1000 LM / 11.7 W	A 1%	STND STANDARD
		150 1500 LM / 18.7 W	B 0.1%	

5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH
27 2700 K	NR NARROW (20)	N NONE (SPACER RING)  Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories: HEX LOUVER SOFTENING LENS SNOOT	30 MATTE PURE WHITE
30 3000 K	ME MEDIUM (28)		32 MATTE BLACK
35 3500 K	WI WIDE (39)		33 SATIN ALUMINUM
40 4000 K	XW EXTRA WIDE (64)  See <a href="#">lens kits</a> for additional field replaceable lenses		36 SATIN BRASS  Stock finishes shown. See <a href="#">Finishes</a> for additional options.

For additional lenses and accessories, see [Lenses and Optical Accessories](#).

For detailed photometrics, see [Photometrics Guide](#).

[IES files](#) available.



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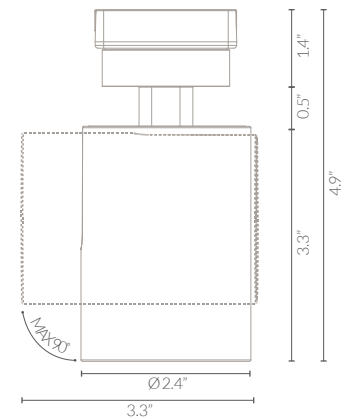
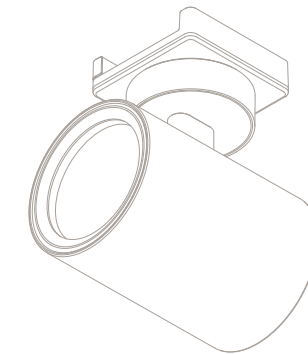
# SYSTEM SPECIFICATIONS

## SPOTLIGHTS RIBBON-MOUNT

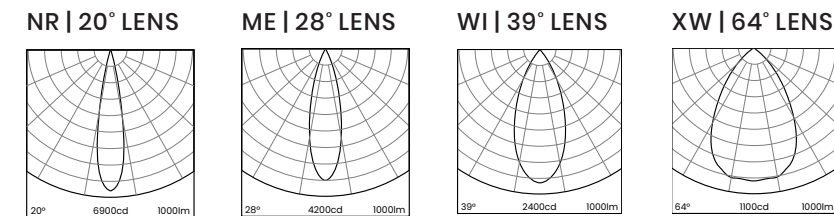
### 60 MM, STANDARD STEM

CRI	TM-30
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

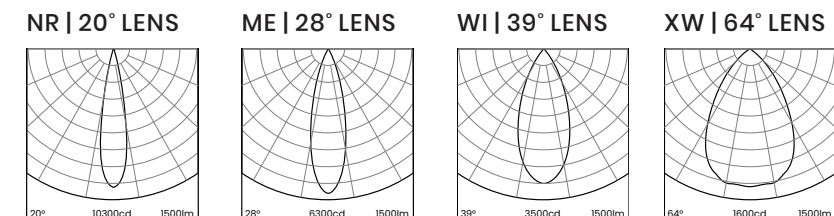
- 85-90 LM/W delivered efficacy
- Standard ribbon-mounted spotlight
- Features proprietary one-handed side-load clamp mechanism
- Change between ribbon circuits by reversing orientation on the ribbon
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### SPOTLIGHT 1000 LM | 3000 K



#### SPOTLIGHT 1500LM | 3000K



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# SYSTEM SPECIFICATIONS

## SPOTLIGHTS RIBBON-MOUNT

### 45 MM, LONG STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-SPT1	45 45 MM DIAMETER	050 500 LM / 5.5 W	A 1% B 0.1%	0006 6" 0012 12" 0018 18" 0024 24" CUXX CUSTOM Maximum length 24"
5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH	
27 2700 K	NR NARROW (22)	N NONE (SPACER RING)	30 MATTE PURE WHITE	
30 3000 K	ME MEDIUM (29)	Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories: HEX LOUVER SOFTENING LENS SNOOT	32 MATTE BLACK	
35 3500 K	WI WIDE (38)		33 SATIN ALUMINUM	
40 4000 K	XW EXTRA WIDE (65)		36 SATIN BRASS	
See <a href="#">lens kits</a> for additional field replaceable lenses		Stock finishes shown. See <a href="#">Finishes</a> for additional options.		

For additional lenses and accessories, see [Lenses and Optical Accessories](#).

For detailed photometrics, see [Photometrics Guide](#).

[IES files](#) available.



# SYSTEM SPECIFICATIONS

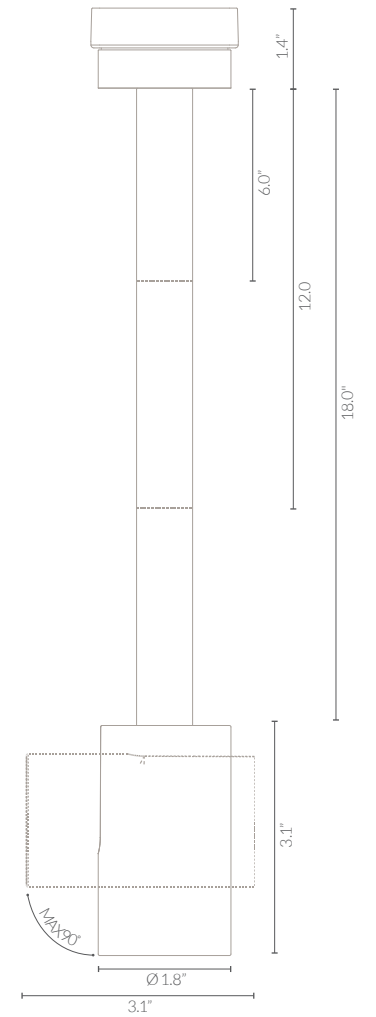
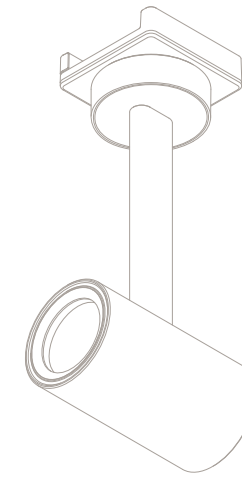
## SPOTLIGHTS RIBBON-MOUNT

### 45 MM, LONG STEM

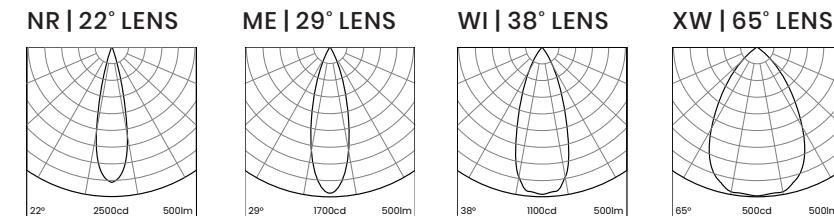
**CRI**  
CRI 95-98  
R9 94-99

**TM-30**  
Rf 96-98  
Rg 99-102

- 85-90 LM/W delivered efficacy
- Standard ribbon-mounted spotlight
- Features proprietary one-handed side-load clamp mechanism
- Change between ribbon circuits by reversing orientation on the ribbon
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### SPOTLIGHT 500 LM | 3000 K



# SYSTEM SPECIFICATIONS

## SPOTLIGHTS RIBBON-MOUNT

### 60 MM, LONG STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-SPT1	<b>60</b> 60 MM DIAMETER	<b>100</b> 1000 LM / 11.7 W <b>150</b> 1500 LM / 18.7 W	<b>A</b> 1% <b>B</b> 0.1%	<b>0006</b> 6" <b>0012</b> 12" <b>0018</b> 18" <b>0024</b> 24" <b>CUXX</b> CUSTOM  Maximum length 24"
5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH	
<b>27</b> 2700 K <b>30</b> 3000 K <b>35</b> 3500 K <b>40</b> 4000 K	<b>NR</b> NARROW (20) <b>ME</b> MEDIUM (28) <b>WI</b> WIDE (39) <b>XW</b> EXTRA WIDE (64)  See <a href="#">lens kits</a> for additional field replaceable lenses	<b>N</b> NONE (SPACER RING)  Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories: HEX LOUVER SOFTENING LENS SNOOT	<b>30</b> MATTE PURE WHITE <b>32</b> MATTE BLACK <b>33</b> SATIN ALUMINUM <b>36</b> SATIN BRASS  Stock finishes shown. See <a href="#">Finishes</a> for additional options.	

For additional lenses and accessories, see [Lenses and Optical Accessories](#).

For detailed photometrics, see [Photometrics Guide](#).

[IES files](#) available.



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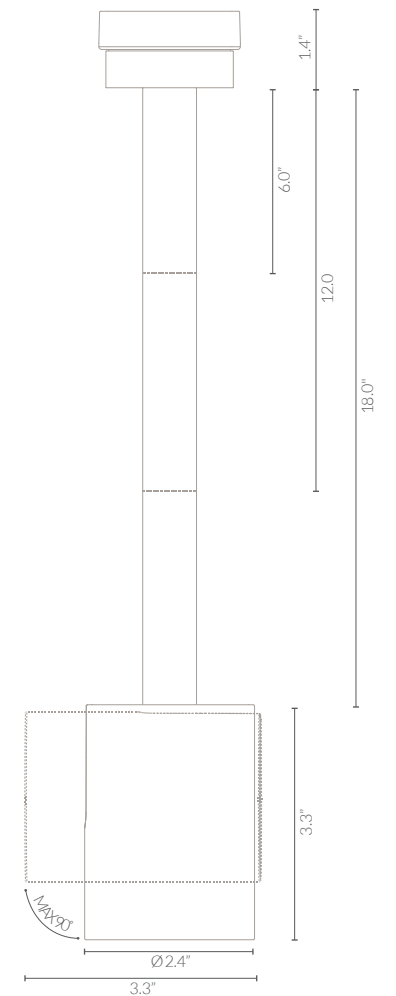
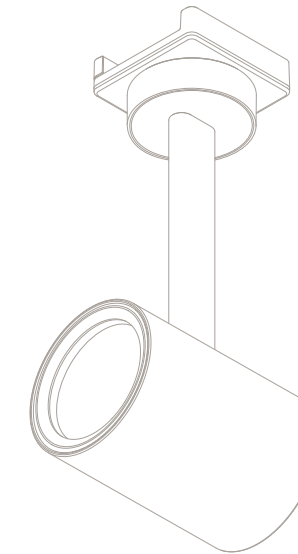
# SYSTEM SPECIFICATIONS

## SPOTLIGHTS RIBBON-MOUNT

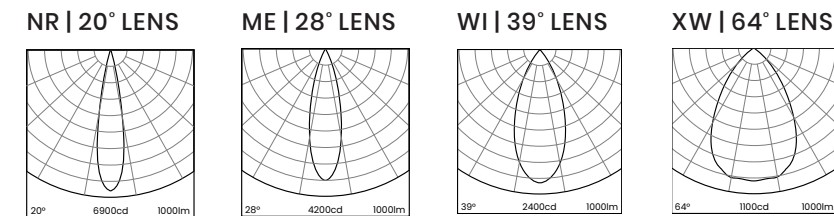
### 60 MM, LONG STEM

<b>CRI</b>	<b>TM-30</b>
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

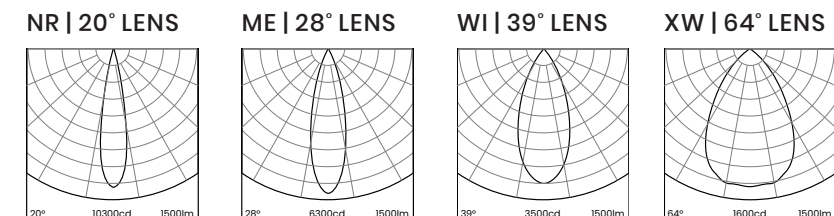
- 85-90 LM/W delivered efficacy
- Standard ribbon-mounted spotlight
- Features proprietary one-handed side-load clamp mechanism
- Change between ribbon circuits by reversing orientation on the ribbon
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### SPOTLIGHT 1000 LM | 3000 K



#### SPOTLIGHT 1500 LM | 3000 K



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## LIGHTING COMPONENTS — SPOTLIGHTS & CYLINDERS

### RIBBON-MOUNT CYLINDERS

#### POWERFUL AND MINIMAL

45 mm and 60 mm diameters.  
500 LM, 1000 LM, and 1500 LM delivered outputs.  
Precision machined aluminum.

#### EXACTING OPTICS

Field-replaceable beam angles — narrow, medium, wide, and extra-wide.  
A range of optical accessories — softening lens, hex louver — for on-site adjustment.

#### FLEXIBLE POWER SUPPLY OPTIONS

24 VDC.  
Remote and surface mounted options available for virtually any installation condition.

#### SUPERIOR LIGHT QUALITY

95+ CRI standard.  
85 LM/Watt delivered average.  
Flicker free dimming to 0.1%.

#### SIMPLE INSTALLATION

Ribbon mount in pendant and direct for Multiverse integration.  
5" canopy mount to any standard junction box.  
Juniper mini-canopy for ultra-minimal installation.





### EXPANDABLE

The 24 VDC system also allows the use of select THIN System fixtures to coordinate across Juniper's collections.

### POWERFUL

Use one circuit for spots and the other with linear suspension luminaires for complex layers of light.

### DESIGNED FOR CREATING

The luminaire adaptors combined with Juniper's exceptional finishes make this an infinitely expressive system.

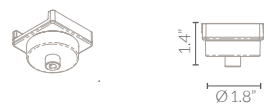

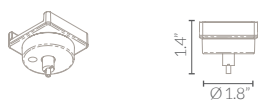
Updated: 08/20/2024

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# SYSTEM SPECIFICATIONS

## SUSPENSION ADAPTORS

Suspension Adaptors allow for select 24 VDC Juniper lighting to be suspended from the ribbon — a powered adaptor is required for the power feed, and a non-powered adaptor is required for additional aircraft cable mounting points.

ITEM		FINISH	PART NUMBER
<b>SUSPENSION ADAPTOR POWERED</b>  Connects 24 VDC suspension luminaires < 5lbs to the MULTIVERSE® ribbon — accepts Juniper coaxial cable		32 BLACK	JPR-MLTV-ADP1-P-32
		33 SATIN ALUMINUM	JPR-MLTV-ADP1-P-33
		36 SATIN BRASS	JPR-MLTV-ADP1-P-36
		30 WHITE	JPR-MLTV-ADP1-P-30
<b>SUSPENSION ADAPTOR LOAD   NON-POWERED</b>  Connects 24 VDC suspension luminaires < 5lbs to the MULTIVERSE® ribbon — accepts 3/64 aircraft cable		32 BLACK	JPR-MLTV-ADP1-L-32
		33 SATIN ALUMINUM	JPR-MLTV-ADP1-L-33
		36 SATIN BRASS	JPR-MLTV-ADP1-L-36
		30 WHITE	JPR-MLTV-ADP1-L-30
<b>SUSPENSION ADAPTOR LOAD   POWERED</b>  Connects 24 VDC suspension luminaires < 5lbs to the MULTIVERSE® ribbon — accepts 3/64 aircraft cable and Juniper coaxial cable		32 BLACK	JPR-MLTV-ADP1-D-32
		33 SATIN ALUMINUM	JPR-MLTV-ADP1-D-33
		36 SATIN BRASS	JPR-MLTV-ADP1-D-36
		30 WHITE	JPR-MLTV-ADP1-D-30

# SYSTEM SPECIFICATIONS

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# SYSTEM SPECIFICATIONS

## PENDANT RIBBON MOUNT

### 45 MM & 60 MM

#### SPECIFICATION BUILDER



MODEL	1. MOUNTING	2. SIZE	3. OUTPUT	4. DIMMING
JPR-CYLD-MLP1	PD RIBBON MOUNTED PENDANT	<b>45</b> 1.8"   45 MM DIAMETER <b>60</b> 2.4"   60 MM DIAMETER	<b>050</b> 500 LM / 5.5 W (45 MM) <b>100</b> 1000 LM / 11.7 W (60 MM) <b>150</b> 1500 LM / 18.7 W (60 MM)	<b>A</b> 1% STANDARD <b>B</b> 0.1% PRO

5. PENDANT LENGTH	6. CCT	7. BEAM SPREAD	8. ACCESSORY SLOT	9. FINISH
<b>06</b> 6 INCHES <b>12</b> 12 INCHES <b>18</b> 18 INCHES <b>24</b> 24 INCHES <b>CU</b> CUSTOM Maximum Length 24", Minimum Length 6".	<b>27</b> 2700 K <b>30</b> 3000 K <b>35</b> 3500 K <b>40</b> 4000 K	<b>NR</b> NARROW <b>ME</b> MEDIUM <b>WI</b> WIDE <b>XW</b> EXTRA WIDE	<b>N</b> NONE (SPACER RING) Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories: HEX LOUVER SOFTENING LENS SNOOT DECORATIVE TRIM	<b>30</b> MATTE PURE WHITE <b>32</b> MATTE BLACK <b>33</b> SATIN ALUMINUM <b>36</b> SATIN BRASS Stock finishes shown. See <a href="#">Finishes</a> for additional options. Finish of the Powered Suspension Adaptor will match the cylinder pendant.

For additional lenses and accessories, see [Lenses and Optical Accessories](#).  
 For detailed photometrics, see [Photometrics Guide](#).  
[IES files](#) available.



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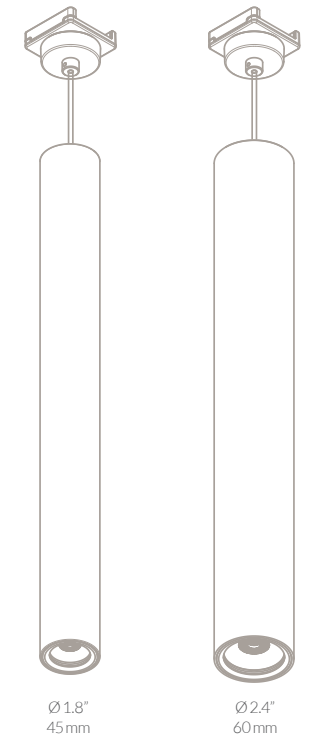
# SYSTEM SPECIFICATIONS

## PENDANT RIBBON MOUNT

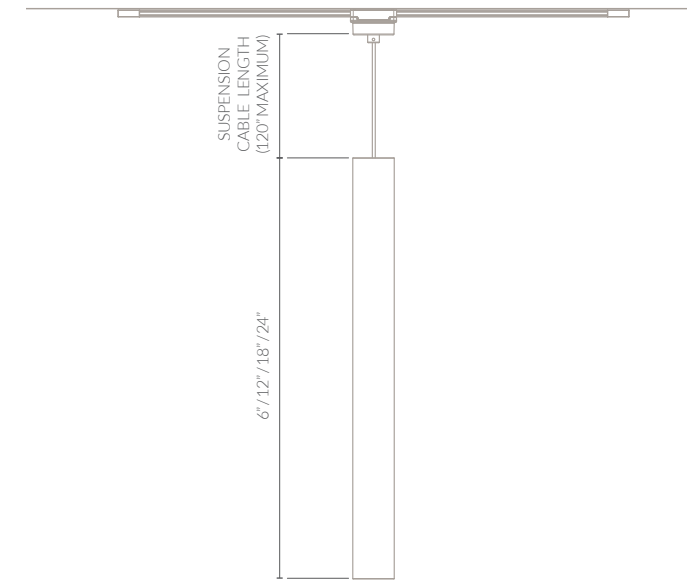
### 45 MM & 60 MM

<b>CRI</b>	<b>TM-30</b>
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

- 85-90 LM/W delivered efficacy
- Juniper Cylinder pendant ribbon mount is suspended from the Multiverse Ribbon and powered by 24 VDC via the powered suspension adaptor on the ribbon
- Change between ribbon circuits by reversing orientation of the powered suspension adaptor on the ribbon
- Field-replaceable lenses and accessories available
- Suspension cable length is adjusted during installation



#### MOUNTING OPTION



PD RIBBON MOUNTED PENDANT



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Updated: 08/20/2024

# SYSTEM SPECIFICATIONS

## DIRECT RIBBON MOUNT

### 45 MM & 60 MM

#### SPECIFICATION BUILDER



MODEL	1. MOUNTING	2. SIZE	3. OUTPUT	4. DIMMING
JPR-CYLD-MLS1	RM RIBBON MOUNTED	<b>45</b> 1.8"   45 MM DIAMETER <b>60</b> 2.4"   60 MM DIAMETER	<b>050</b> 500 LM / 5.5 W (45 MM) <b>100</b> 1000 LM / 11.7 W (60 MM) <b>150</b> 1500 LM / 18.7 W (60 MM)	<b>A</b> 1% STANDARD <b>B</b> 0.1% PRO

5. CYLINDER LENGTH	6. CCT	7. BEAM SPREAD	8. ACCESSORY SLOT	9. FINISH
<b>06</b> 6 INCHES <b>12</b> 12 INCHES <b>18</b> 18 INCHES <b>24</b> 24 INCHES <b>CU</b> CUSTOM Maximum Length 24", Minimum Length 6".	<b>27</b> 2700 K <b>30</b> 3000 K <b>35</b> 3500 K <b>40</b> 4000 K	<b>NR</b> NARROW <b>ME</b> MEDIUM <b>WI</b> WIDE <b>XW</b> EXTRA WIDE	<b>N</b> NONE (SPACER RING) Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories: HEX LOUVER SOFTENING LENS SNOOT DECORATIVE TRIM RING	<b>30</b> MATTE PURE WHITE <b>32</b> MATTE BLACK <b>33</b> SATIN ALUMINUM <b>36</b> SATIN BRASS Stock finishes shown. See <a href="#">Finishes</a> for additional options.

For additional lenses and accessories, see Lenses and Optical Accessories.

For detailed photometrics, see [Photometrics Guide](#).

[IES files](#) available.



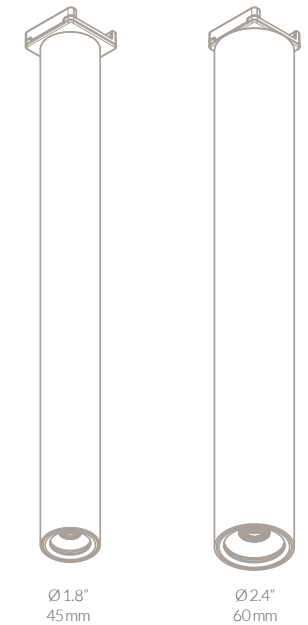
# SYSTEM SPECIFICATIONS

## DIRECT RIBBON MOUNT

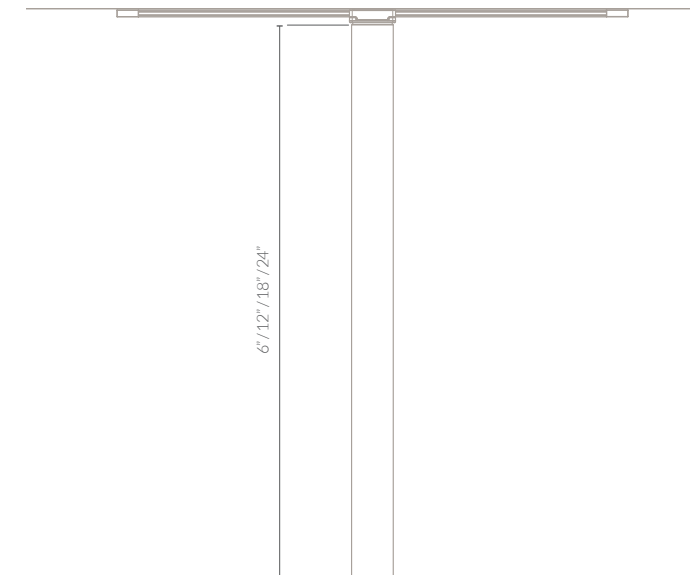
### 45 MM & 60 MM

<b>CRI</b>	<b>TM-30</b>
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

- 85-90 LM/W delivered efficacy
- Juniper Cylinder direct ribbon mount attached to the Multiverse Ribbon and powered by 24 VDC via the ribbon
- Change between ribbon circuits by reversing orientation of the cylinder column on the ribbon
- Field-replaceable lenses and accessories available



#### MOUNTING OPTION



RM RIBBON MOUNTED





**ULTRA SMALL  
MONOPOINTS**

Miniature adjustable lighting that enhance the architecture.

**EASY  
MOUNTING**

Available with and without cover plates for J-Box mounting or low-voltage direct power.

**INCREDIBLE  
FINISHES**

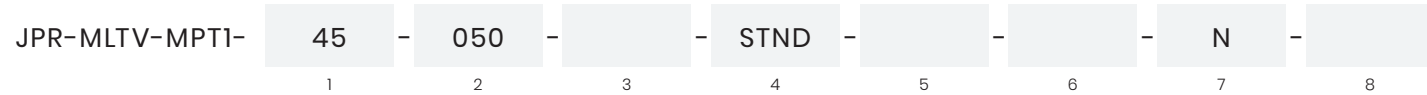
Architectural grade materials and finishes create exceptional projects.

# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

### 45 MM, STANDARD STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-MPT1	45 45 MM DIAMETER	050 500 LM / 5.5 W	A 1% B 0.1%	STND STANDARD

5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH
27 2700 K	NR NARROW (22)	N NONE (SPACER RING)	30 MATTE PURE WHITE
30 3000 K	ME MEDIUM (29)	Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories:	32 MATTE BLACK
35 3500 K	WI WIDE (38)		33 SATIN ALUMINUM
40 4000 K	XW EXTRA WIDE (65)		36 SATIN BRASS
	See <a href="#">lens kits</a> for additional field replaceable lenses	HEX LOUVER SOFTENING LENS SNOOT	Stock finishes shown. See <a href="#">Finishes</a> for additional options.

ITEM	PART NUMBER
<b>SINGLE PLATE</b> 	JPR-MLTV-MPP1-01-XX
<b>DOUBLE PLATE</b> 	JPR-MLTV-MPP1-02-XX
<b>TRIPLE PLATE</b> 	JPR-MLTV-MPP1-03-XX

Plate includes cross bar for mounting to 4" junction box.

For detailed photometrics, see [Photometrics Guide](#).

[IES files](#) available.



Patent [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/)

JUNIPERDESIGN.COM

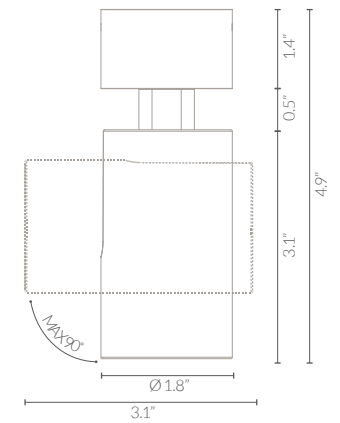
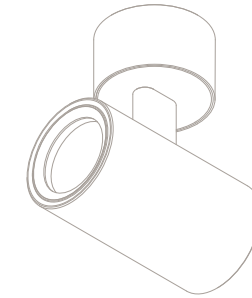
# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

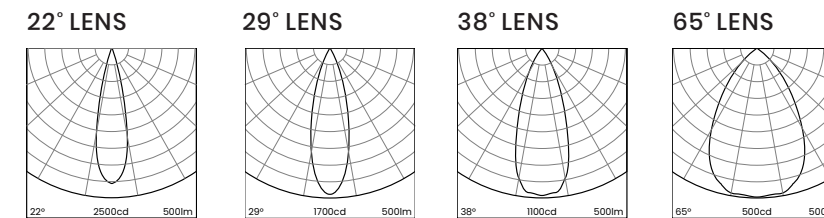
### 45 MM, STANDARD STEM

CRI	TM-30
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

- 85-90 LM/W delivered efficacy
- Standard accent luminaire powered via 24 VDC low voltage power supply
- Hardware included for mounting: #8 toggle bolt for direct mount to surface
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### MONOPOINT 500 LM | 3000 K



Updated: 08/20/2024

Updated: 08/20/2024



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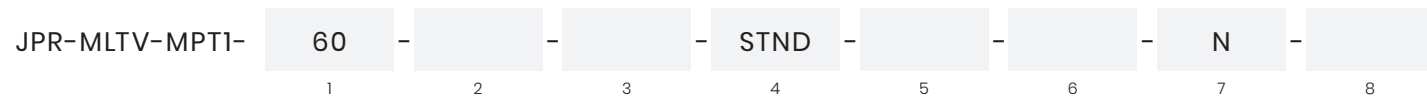
SALES@JUNIPERDESIGN.COM

# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

### 60 MM, STANDARD STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-MPT1	<b>60</b> 60 MM DIAMETER	<b>100</b> 1000 LM / 11.7 W <b>150</b> 1500 LM / 18.7 W	<b>A</b> 1% <b>B</b> 0.1%	<b>STND</b> STANDARD

5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH
<b>27</b> 2700 K <b>30</b> 3000 K <b>35</b> 3500 K <b>40</b> 4000 K	<b>NR</b> NARROW (20) <b>ME</b> MEDIUM (28) <b>WI</b> WIDE (39) <b>XW</b> EXTRA WIDE (64)  See <a href="#">lens kits</a> for additional field replaceable lenses	<b>N</b> NONE (SPACER RING)  Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories: HEX LOUVER SOFTENING LENS SNOOT	<b>30</b> MATTE PURE WHITE <b>32</b> MATTE BLACK <b>33</b> SATIN ALUMINUM <b>36</b> SATIN BRASS  Stock finishes shown. See <a href="#">Finishes</a> for additional options.

ITEM	PART NUMBER
<b>SINGLE PLATE</b> 	JPR-MLTV-MPP1-01-XX
<b>DOUBLE PLATE</b> 	JPR-MLTV-MPP1-02-XX
<b>TRIPLE PLATE</b> 	JPR-MLTV-MPP1-03-XX

Plate includes cross bar for mounting to 4" junction box.

For detailed photometrics, see [Photometrics Guide](#).

[IES files](#) available.



Patent [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/)

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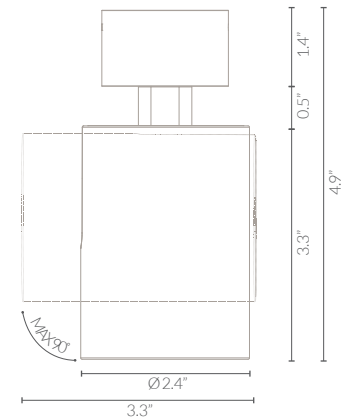
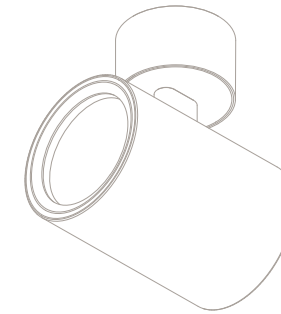
# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

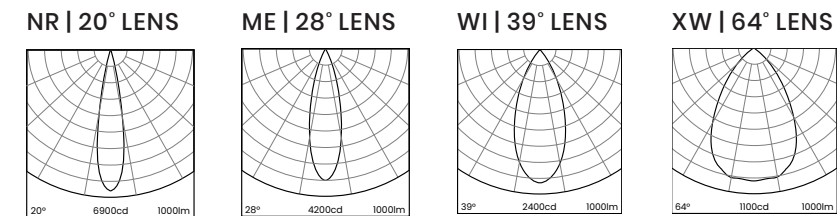
### 60 MM, STANDARD STEM

CRI	TM-30
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

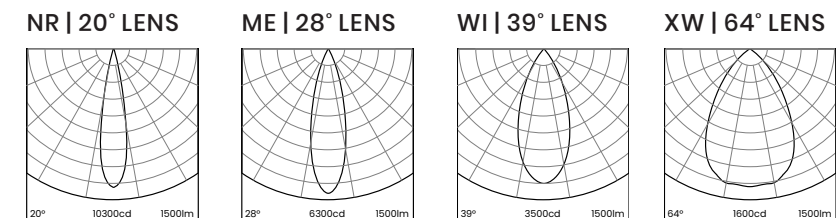
- 85-90 LM/W delivered efficacy
- Standard accent luminaire powered via 24 VDC low voltage power supply
- Hardware included for mounting: #8 toggle bolt for direct mount to surface
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### MONOPOINT 1000 LM | 3000 K



#### MONOPOINT 1500LM | 3000K



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# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

### 45 MM, LONG STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-MPT1	45 45 MM DIAMETER	050 500 LM / 5.5 W	A 1% B 0.1%	0006 6" 0012 12" 0018 18" 0024 24" CUXX CUSTOM Maximum length 24"
5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH	
27 2700 K 30 3000 K 35 3500 K 40 4000 K	NR NARROW (22) ME MEDIUM (29) WI WIDE (38) XW EXTRA WIDE (65)  See <a href="#">lens kits</a> for additional field replaceable lenses	N NONE (SPACER RING)  Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories: HEX LOUVER SOFTENING LENS SNOOT	30 MATTE PURE WHITE 32 MATTE BLACK 33 SATIN ALUMINUM 36 SATIN BRASS  Stock finishes shown. See <a href="#">Finishes</a> for additional options.	

ITEM		PART NUMBER
SINGLE PLATE		JPR-MLTV-MPP1-01-XX
DOUBLE PLATE		JPR-MLTV-MPP1-02-XX
TRIPLE PLATE		JPR-MLTV-MPP1-03-XX

Plate includes cross bar for mounting to 4" junction box.

For detailed photometrics, see [Photometrics Guide](#).

IES files available.



Patent [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/)

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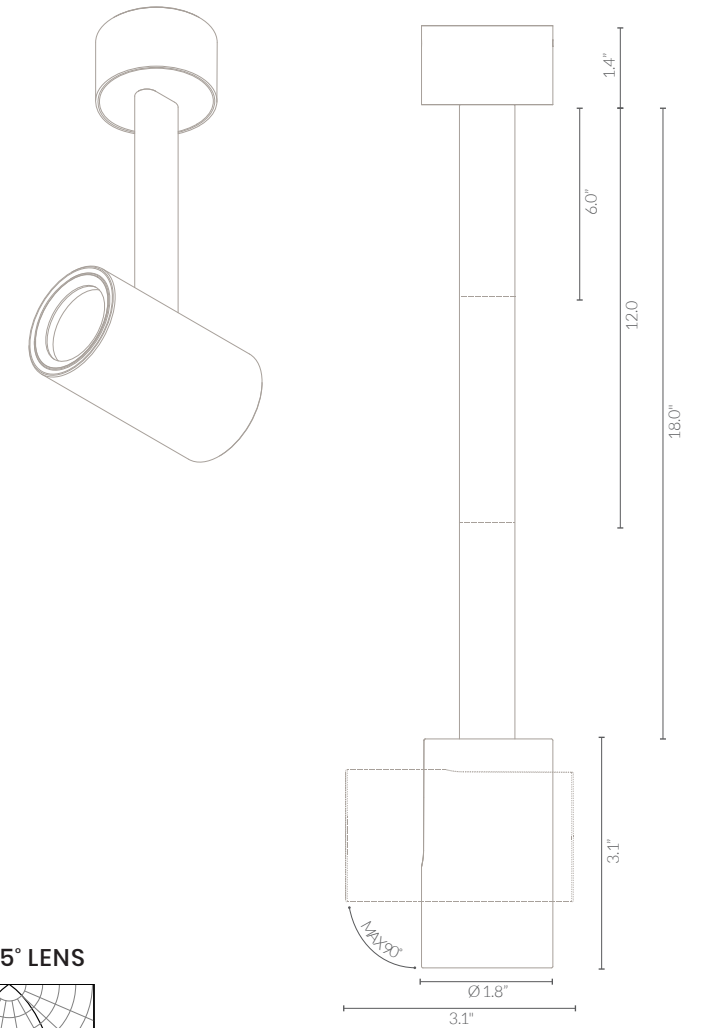
# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

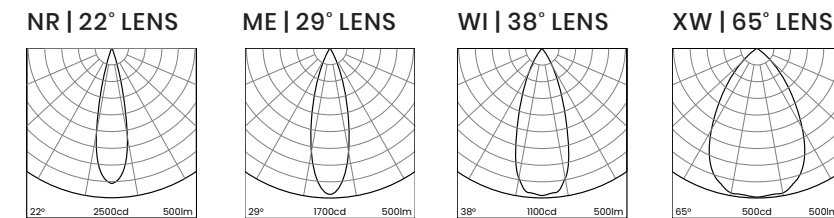
### 45 MM, LONG STEM

<b>CRI</b>	<b>TM-30</b>
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

- 85-90 LM/W delivered efficacy
- Standard accent luminaire powered via 24 VDC low voltage power supply
- Hardware included for mounting: #8 toggle bolt for direct mount to surface
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### MONOPOINT 500 LM | 3000 K



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# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

### 60 MM, LONG STEM

#### SPECIFICATION BUILDER



MODEL	1. SIZE	2. OUTPUT	3. DIMMING	4. STEM
JPR-MLTV-MPT1	<b>60</b> 60 MM DIAMETER	<b>100</b> 1000 LM / 11.7 W <b>150</b> 1500 LM / 18.7 W	<b>A</b> 1% <b>B</b> 0.1%	<b>0006</b> 6" <b>0012</b> 12" <b>0018</b> 18" <b>0024</b> 24" <b>CUXX</b> CUSTOM  Maximum length 24"
5. CCT	6. BEAM SPREAD	7. ACCESSORY SLOT	8. FINISH	
<b>27</b> 2700 K <b>30</b> 3000 K <b>35</b> 3500 K <b>40</b> 4000 K	<b>NR</b> NARROW (20) <b>ME</b> MEDIUM (28) <b>WI</b> WIDE (39) <b>XW</b> EXTRA WIDE (64)  See <a href="#">lens kits</a> for additional field replaceable lenses	<b>N</b> NONE (SPACER RING)  Spacer ring comes standard. See <a href="#">optical accessory kits</a> for field replaceable accessories:  HEX LOUVER SOFTENING LENS SNOOT	<b>30</b> MATTE PURE WHITE <b>32</b> MATTE BLACK <b>33</b> SATIN ALUMINUM <b>36</b> SATIN BRASS  Stock finishes shown. See <a href="#">Finishes</a> for additional options.	

ITEM		PART NUMBER
SINGLE PLATE		JPR-MLTV-MPP1-01-XX
DOUBLE PLATE		JPR-MLTV-MPP1-02-XX
TRIPLE PLATE		JPR-MLTV-MPP1-03-XX

Plate includes cross bar for mounting to 4" junction box.

For detailed photometrics, see [Photometrics Guide](#).

IES files available.



Patent [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/)

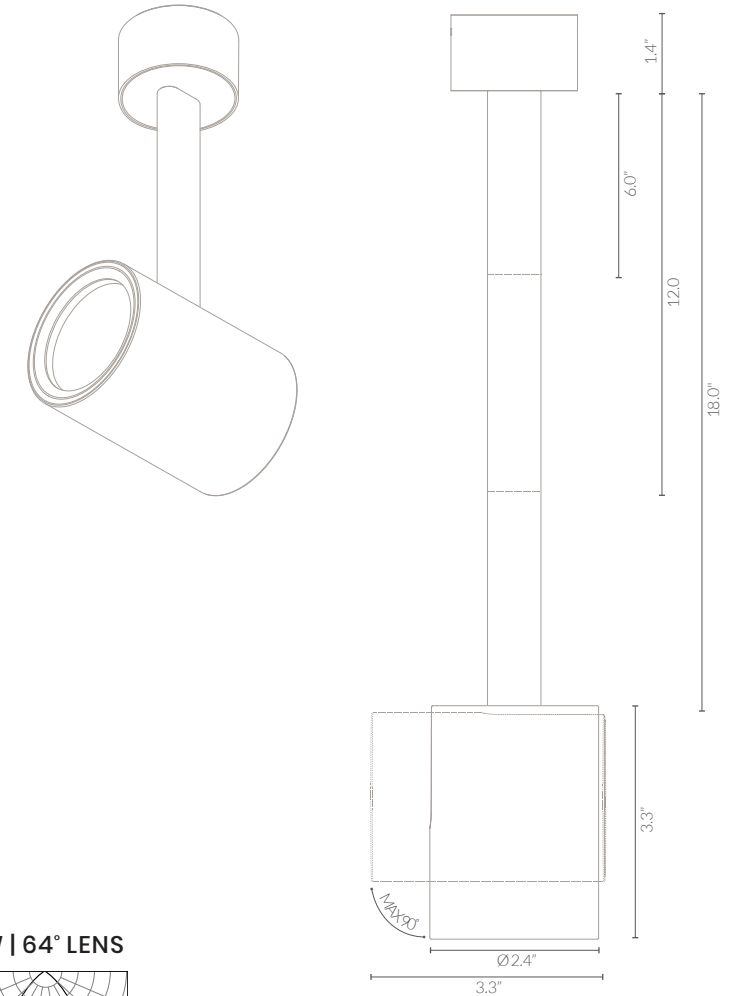
# SYSTEM SPECIFICATIONS

## SPOTLIGHTS MONOPOINT

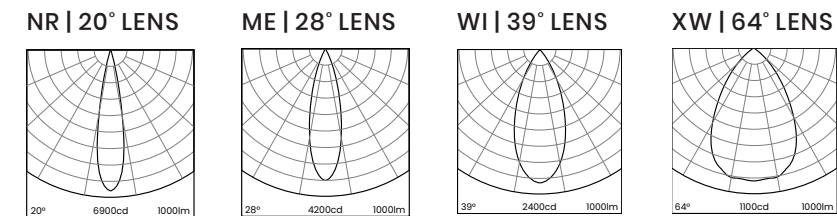
### 60 MM, LONG STEM

CRI	TM-30
CRI 95-98	Rf 96-98
R9 94-99	Rg 99-102

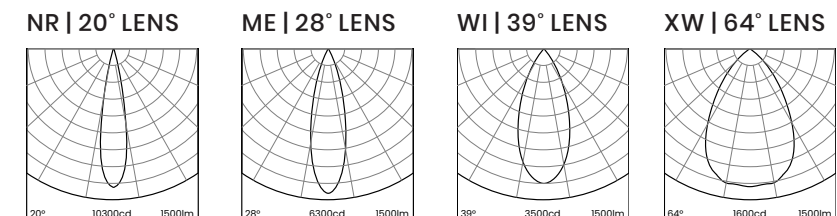
- 85-90 LM/W delivered efficacy
- Standard accent luminaire powered via 24 VDC low voltage power supply
- Hardware included for mounting: #8 toggle bolt for direct mount to surface
- Field-replaceable lenses and accessories available
- Fully 360 degree/0-90 degree adjustable



#### MONOPOINT 1000 LM | 3000 K



#### MONOPOINT 1500 LM | 3000 K



Updated: 08/20/2024

Updated: 08/20/2024



Patent [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/)

# OPTICS AND PHOTOMETRICS FEATURES AND BENEFITS

## SUPERIOR LIGHT QUALITY

95+ CRI.  
85 LM/Watt delivered average.  
Flicker-free dimming to 0.1%.

## COLOR TEMPERATURES

2700 K, 3000 K, 3500 K, 4000 K.



Upactec 08/20/2024

Upactec 08/20/2024

Patent [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/)

Patent [www.juniperdesign.com/patents/](http://www.juniperdesign.com/patents/)

# SPOTLIGHT/CYLINDER SPECIFICATIONS

## LENSES AND OPTICAL ACCESSORIES

### 45 MM

ITEM	PART NUMBER
<b>45 MM OPTICAL LENS KIT</b> Narrow 22°, Medium 29°, Wide 38°, and Extra Wide 65° beam angle lenses; comes with a lens removal tool	JPR-MLTV-ACS1-45-L

<b>45 MM OPTICAL ACCESSORIES KIT</b> Softening glass, hex louver; comes with a lens removal tool	JPR-MLTV-ACS1-45-A
---	--------------------

ITEM	FINISH	PART NUMBER
<b>45 MM SNOOT</b> 50° glare cutoff for visual comfort	30 MATTE PURE WHITE	JPR-MLTV-ACS1-45-T-32
	32 MATTE BLACK	JPR-MLTV-ACS1-45-T-33
	33 SATIN ALUMINUM	JPR-MLTV-ACS1-45-T-36
	36 SATIN BRASS	JPR-MLTV-ACS1-45-T-30

Stock finishes shown. See [Finishes](#) for additional options.

Updated: 08/20/2024

# SPOTLIGHT/CYLINDER SPECIFICATIONS

## LENSES AND OPTICAL ACCESSORIES

### 45 MM

ITEM	PART NUMBER
<b>45 MM NARROW LENS (22°)</b>	JPR-PMC-0187
<b>45 MM MEDIUM LENS (29°)</b>	JPR-PMC-0188
<b>45 MM WIDE LENS (38°)</b>	JPR-PMC-0189
<b>45 MM EXTRA WIDE LENS (65°)</b>	JPR-PMC-0190
<b>45 MM SOFTENING GLASS</b> Softens beam edges	JPR-MLTV-ACS1-45-S
<b>45 MM HEX LOUVER</b> 28° glare cutoff for visual comfort	JPR-MLTV-ACS1-45-H

Updated: 08/20/2024

# SPOTLIGHT/CYLINDER SPECIFICATIONS

## LENSES AND OPTICAL ACCESSORIES

### 60 MM

ITEM	PART NUMBER
<b>60 MM OPTICAL LENS KIT</b> Narrow 20°, Medium 28°, Wide 39°, and Extra Wide 64° beam angle lenses; comes with a lens removal tool	JPR-MLTV-ACS1-60-L

ITEM	PART NUMBER
<b>60 MM OPTICAL ACCESSORIES KIT</b> Softening glass, hex louver; comes with a lens removal tool	JPR-MLTV-ACS1-60-A

ITEM	FINISH	PART NUMBER
<b>60 MM SNOOT</b> 50° glare cutoff for visual comfort	30 MATTE PURE WHITE	JPR-MLTV-ACS1-60-T-32
	32 MATTE BLACK	JPR-MLTV-ACS1-60-T-33
	33 SATIN ALUMINUM	JPR-MLTV-ACS1-60-T-36
	36 SATIN BRASS	JPR-MLTV-ACS1-60-T-30

Stock finishes shown. See [Finishes](#) for additional options.

Updated: 08/20/2024

# SPOTLIGHT/CYLINDER SPECIFICATIONS

## LENSES AND OPTICAL ACCESSORIES

### 60 MM

ITEM	PART NUMBER
<b>60 MM NARROW LENS (20°)</b>	JPR-PMC-0192
<b>60 MM MEDIUM LENS (28°)</b>	JPR-PMC-0193
<b>60 MM WIDE LENS (39°)</b>	JPR-PMC-0194
<b>60 MM EXTRA WIDE LENS (64°)</b>	JPR-PMC-0195
<b>60 MM SOFTENING GLASS</b> Softens beam edges	JPR-MLTV-ACS1-60-S
<b>60 MM HEX LOUVER</b> 28° glare cutoff for visual comfort	JPR-MLTV-ACS1-60-H

Updated: 08/20/2024

# SPOTLIGHT/CYLINDER SPECIFICATIONS

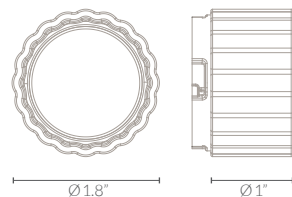
## LENSES AND OPTICAL ACCESSORIES

### 45 MM

ITEM PART NUMBER

#### 45 MM FLUTED TRIM (FOR CYLINDERS)

Glare control cutoff for visual comfort



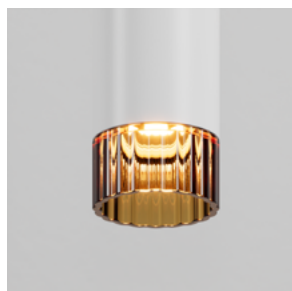
JPR-CYLD-ACS1-45-D

#### OPAL FLUTED TRIM



JPR-PAS-0274-92

#### AMBER FLUTED TRIM



JPR-PAS-0274-93

#### SMOKE FLUTED TRIM



JPR-PAS-0274-94

# SPOTLIGHT/CYLINDER SPECIFICATIONS

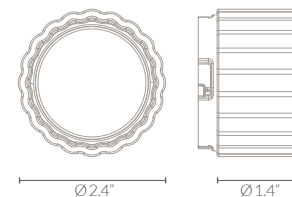
## LENSES AND OPTICAL ACCESSORIES

### 60 MM

ITEM PART NUMBER

#### 60 MM FLUTED TRIM (FOR CYLINDERS)

Glare control cutoff for visual comfort



JPR-CYLD-ACS1-60-D

#### OPAL FLUTED TRIM



JPR-PAS-0275-92

#### AMBER FLUTED TRIM



JPR-PAS-0275-93

#### SMOKE FLUTED TRIM



JPR-PAS-0275-94

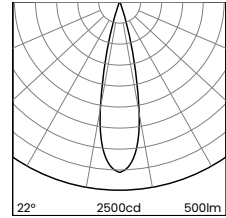
# SPOTLIGHT/CYLINDER SPECIFICATIONS

## PHOTOMETRICS DATA

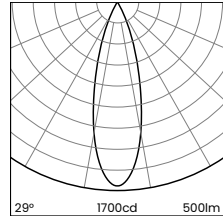
### 45 MM

500 LM | 3000 K

NR | 22° LENS



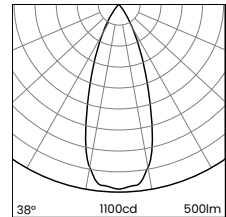
ME | 29° LENS



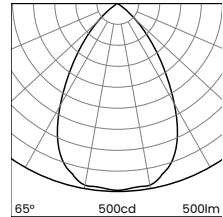
H (F)	FC	DIA (F)
3	274	1.1
6	69	2.3
8	39	3.1
10	25	3.8
12	18	4.6
14	13	5.3
16	10	6.1

H (F)	FC	DIA (F)
3	192	1.5
6	48	3.0
8	27	4.0
10	17	5.0
12	12	6.0
14	9	7.0
16	7	8.0

WI | 38° LENS



XW | 65° LENS



H (F)	FC	DIA (F)
3	122	2.0
6	31	3.9
8	17	5.2
10	11	6.5
12	8	7.8
14	6	9.1
16	4	10.4

H (F)	FC	DIA (F)
3	55	3.2
6	14	6.4
8	8	8.6
10	5	10.7
12	3	12.9
14	3	15.0
16	2	17.2

MULTIVERSE® Spotlights, Monopoints, and Cylinders include all 4 lenses. See cone of light data table for approximate footcandles. IES files are available for download on our website.

H (F) – height of luminaire above surface in feet

FC – footcandles

DIA (F) – diameter of lit area.

**TYPICAL LIGHT LEVELS**

OFFICE DESK | 30 FC

DINING | 7-15 FC

KITCHEN COUNTER | 30 FC

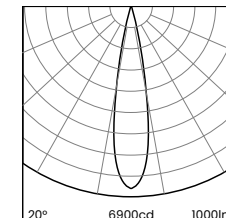
# SPOTLIGHT/CYLINDER SPECIFICATIONS

## PHOTOMETRICS DATA

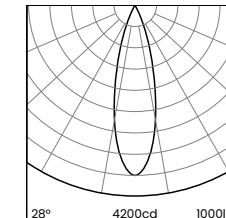
### 60 MM

1000 LM | 3000 K

NR | 20° LENS



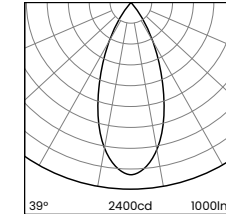
ME | 28° LENS



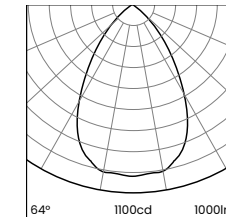
H (F)	FC	DIA (F)
3	763	1.0
6	191	2.1
8	107	2.8
10	69	3.5
12	48	4.2
14	35	4.9
16	27	5.6

H (F)	FC	DIA (F)
3	472	1.5
6	118	2.9
8	66	3.9
10	42	4.8
12	29	5.8
14	22	6.8
16	17	7.7

WI | 39° LENS



XW | 64° LENS



H (F)	FC	DIA (F)
3	262	2
6	66	4
8	37	5.3
10	24	6.7
12	16	8
14	12	9.3
16	9	10.7

H (F)	FC	DIA (F)
3	119	3.2
6	30	6.4
8	17	8.5
10	11	10.6
12	7	12.7
14	5	14.8
16	4	17

H (F) – height of luminaire above surface in feet

FC – footcandles

DIA (F) – diameter of lit area.

**TYPICAL LIGHT LEVELS**

OFFICE DESK | 30 FC

DINING | 7-15 FC

KITCHEN COUNTER | 30 FC

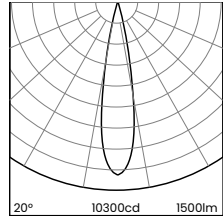
# SPOTLIGHT/CYLINDER SPECIFICATIONS

## PHOTOMETRICS DATA

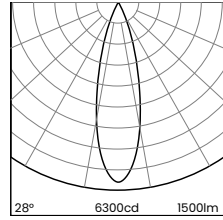
### 60 MM

#### 1500 LM | 3000 K

21° LENS



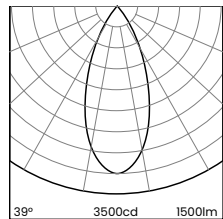
28° LENS



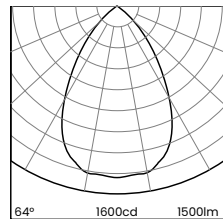
H (F)	FC	DIA (F)
3	1144	1
6	286	2.1
8	161	2.8
10	103	3.5
12	71	4.2
14	53	4.9
16	40	5.6

H (F)	FC	DIA (F)
3	696	1.5
6	174	2.9
8	98	3.9
10	63	4.8
12	43	5.8
14	32	6.8
16	24	7.7

39° LENS



64° LENS



H (F)	FC	DIA (F)
3	393	2
6	98	4
8	55	5.3
10	35	6.7
12	25	8
14	18	9.3
16	14	10.7

H (F)	FC	DIA (F)
3	178	3.2
6	45	6.4
8	25	8.5
10	16	10.6
12	11	12.7
14	8	14.8
16	6	17

**H (F)** – height of luminaire above surface in feet

**FC** – footcandles

**DIA (F)** – diameter of lit area.

**TYPICAL LIGHT LEVELS**

OFFICE DESK | **30 FC**

DINING | **7-15 FC**

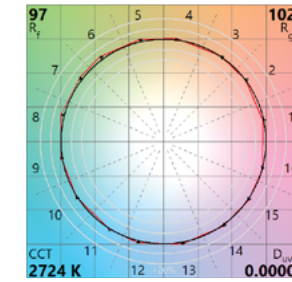
KITCHEN COUNTER | **30 FC**

# SPOTLIGHT/CYLINDER SPECIFICATIONS

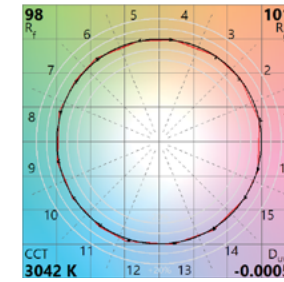
## PHOTOMETRICS DATA

### TM-30 REPORTS | COLOR QUALITY

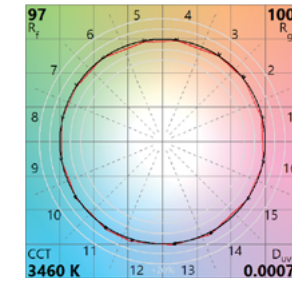
#### 500 LM



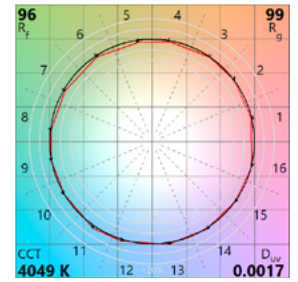
2700 K 500 LM



3000 K 500 LM

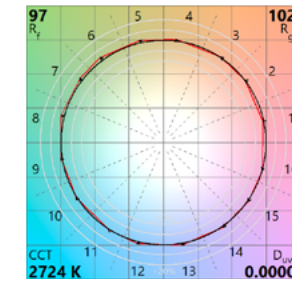


3500 K 500 LM

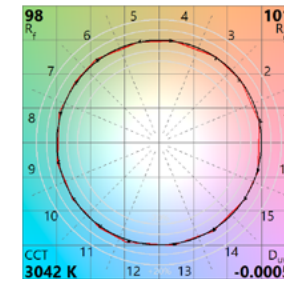


4000 K 500 LM

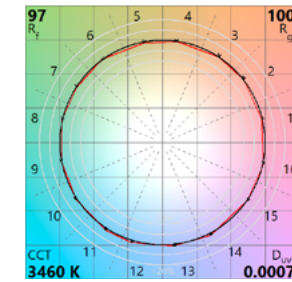
#### 1000 LM / 1500 LM



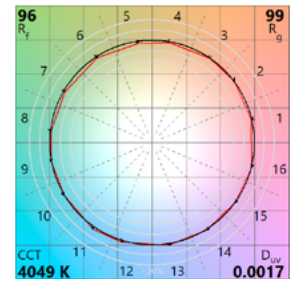
2700 K 1000 / 1500 LM



3000 K 1000 / 1500 LM



3500 K 1000 / 1500 LM



4000 K 1000 / 1500 LM

## LIGHTING COMPONENTS — ILLUMINATED RIBBON FEATURES AND BENEFITS

### ULTRA-LOW-PROFILE AMBIENT LIGHTING

A unique lighting tool that replaces runs of ribbon with an ultra-flat light source.

It provides general illumination within its minimal form factor at 300 LM/ft (3.3 W/ft).

### INTEGRATES WITH ANY RIBBON DESIGN

Available in lengths up to 6' nominal (68") and customizable in length (within 2" increments).

### CREATE ANOTHER LAYER OF LIGHT

Combining sections of **Ribbon with Spots** and **Illuminated Ribbon** creates a "dot-dash" approach, allowing for maximum lighting design flexibility.

**Note:** Spotlights cannot be mounted on Illuminated Ribbon segments.

### HIGH QUALITY ILLUMINATION

Innovative edge-lit, pixel-free technology with best-in-class 95-98 CRI.



# SYSTEM SPECIFICATIONS

## ILLUMINATED RIBBON

### SPECIFICATION BUILDER



MODEL	1. LENGTH	2. CCT	3. DIMMING	4. FINISH
JPR-MLTV-AMB1	080 1 FT NOMINAL (8") – MINIMUM LENGTH	27 2700 K	B 0.1%	32 BLACK
	200 2 FT NOMINAL (20")	30 3000 K		33 SATIN ALUMINUM
	320 3 FT NOMINAL (32")	35 3500 K		30 WHITE
	440 4 FT NOMINAL (44")	40 4000 K		36 SATIN BRASS
	560 5 FT NOMINAL (56")			CU CUSTOM
	680 6 FT NOMINAL (68") – MAXIMUM LENGTH			
	CU CUSTOM (2" INCREMENTS)			

ITEM	INCL. CLIPS QTY
<b>1 FT ILLUMINATED RIBBON</b> 	1
<b>2 FT ILLUMINATED RIBBON</b> 	2
<b>3 FT ILLUMINATED RIBBON</b> 	3
<b>4 FT ILLUMINATED RIBBON</b> 	4
<b>5 FT ILLUMINATED RIBBON</b> 	5
<b>6 FT ILLUMINATED RIBBON</b> 	6



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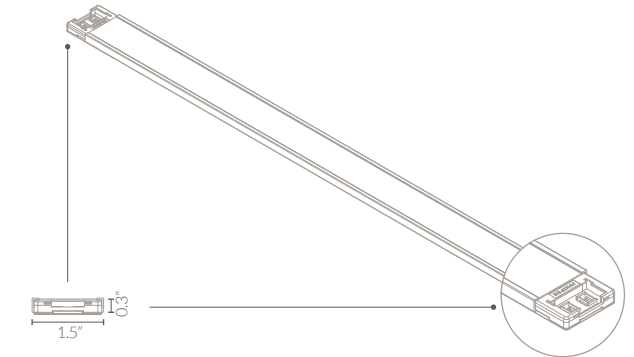
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# SYSTEM SPECIFICATIONS

## ILLUMINATED RIBBON

<b>CRI</b>	<b>TM-30</b>
CRI-97 (at 3000 K)	Rf 95 (at 3000 K)
R9-98 (at 3000 K)	Rg 102 (at 3000 K)

- 60 LM/W delivered efficacy
- 200 LM (3.3 W) per linear foot
- Beam angle: 112°
- Minimum dimming level: 0.1%
- Replaces a piece of ribbon in MULTIVERSE® layout
- Linear ambient downlight luminaire, powered via 24 VDC low voltage power supply
- Mates to the MULTIVERSE® connector (similar to the Ribbon)
- Magnetic clips for direct mounting to surface in-line with track during installation
- Utilizes one of the two MULTIVERSE® circuits, to create a separate and distinct layer of light – from the MLTV spotlights and cylinders – on the same run (flip the ribbon luminaire to register to the other circuit)
- An inline connector with pass-through power connects to the ribbon and continues the MLTV circuitry



ITEM
<b>MAGNETIC MOUNT CLIP</b> 

Mounts the ribbon to any flat surface with a #6 screw

Each illuminated ribbon segment includes an appropriate amount of clips determined by the length. The clips should be mounted within 3 inches of each end of the ribbon segment, with no more than 18 inches between clips.

Custom lengths are available in 2 in. increments. Contact Juniper for more details.

Stock finishes shown. See Finishes for additional options. Finishes are NOT field-paintable.



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**SYSTEM SPECIFICATIONS**  
ILLUMINATED RIBBON  
SYSTEM AND DRIVER MATRIX

NOMINAL LENGTH (FT)	ACTUAL FIXURE LENGTH (IN)	TOTAL WATTS (W)
1	8	2.2
2	20	5.5
3	32	8.8
4	44	12.1
5	56	15.4
6	68	18.7
Custom	Custom Length	Custom Length × 3.3 W



**SYSTEM SPECIFICATIONS**  
ILLUMINATED RIBBON  
CONFIGURATION EXAMPLES

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## LIGHTING COMPONENTS — SUSPENDED RIBBON

### FEATURES AND BENEFITS

#### EXPERIENCE THE POSSIBILITIES WITH RIBBON

Hung via adjustable cables, Suspended Ribbon can be cut to any length and connected with corner, 3-way, or 4-way connectors. Offered in all of our signature finishes.

#### ELEVATE YOUR SPACE

Ideal for tall spaces, Suspended Ribbon and Spots bring light exactly where it's needed most.

#### OPTIONAL UPLIGHT

A modular uplight component is available for ceiling illumination, operating on its own dedicated circuit for seamless control.

# SYSTEM SPECIFICATIONS

## SUSPENDED RIBBON

### DOWN-FACING

#### SPECIFICATION BUILDER



MODEL	1. RAIL PROFILE	2. LIGHTING SYSTEM			
JPR-MLTV	DN DOWN	<b>U1</b>	UPLIGHT STRIP, DOWN-FACING RIBBON TRACK		
		<b>D1</b>	NO UPLIGHT, DOWN-FACING RIBBON TRACK		
3. CONFIGURATION	4. MOUNTING	5. CCT*	6. FINISH		
<b>SR</b> STRAIGHT RAIL	<b>MC</b> MINI CANOPY	<b>27</b> 2700 K	<b>32</b> BLACK		
<b>LS</b> L-SHAPED	<b>5C</b> 5 INCH CANOPY	<b>30</b> 3000 K	<b>33</b> SATIN ALUMINUM		
<b>RQ</b> RECTANGULAR		<b>35</b> 3500 K	<b>30</b> WHITE		
		<b>40</b> 4000 K	<b>36</b> SATIN BRASS		

\* For Uplight Strip (U1) option. Uplight Strip (U1) always comes with mini-canopy.

Stock finishes shown. See [Finishes](#) for additional options.

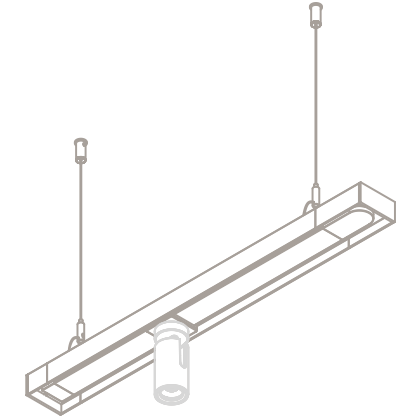


# SYSTEM SPECIFICATIONS

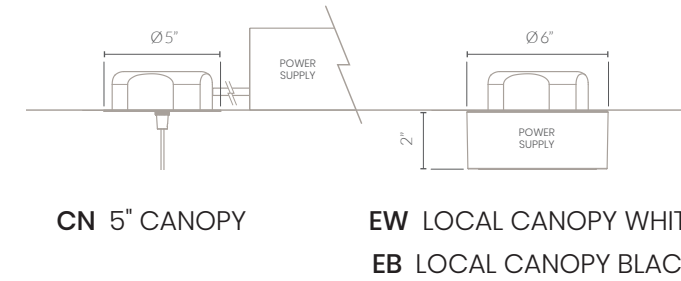
## SUSPENDED RIBBON

### DOWN-FACING

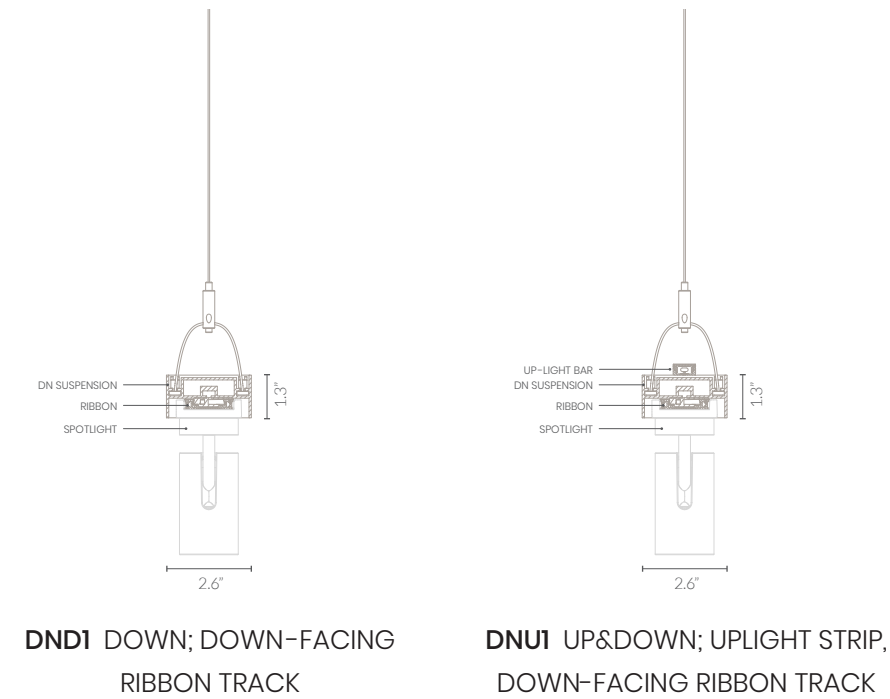
- MULTIVERSE down-facing suspension rail with ribbon track
- Accepts standard Juniper spotlights on down-facing ribbon track
- The maximum standard suspension height for the rail is 10 ft (from the ceiling plane)



#### POWER FEED MOUNTING OPTIONS — RIBBON



#### MOUNTING OPTION

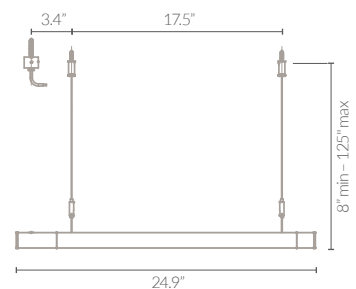


# SYSTEM SPECIFICATIONS

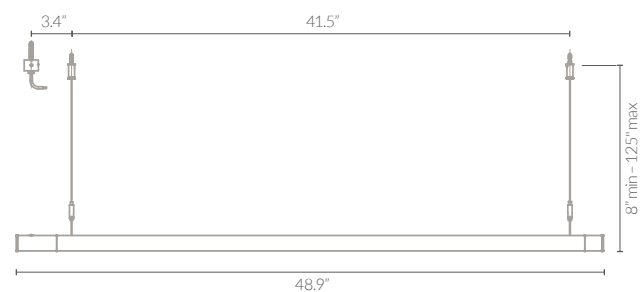
## SUSPENDED RIBBON

### OVERALL DIMENSIONS

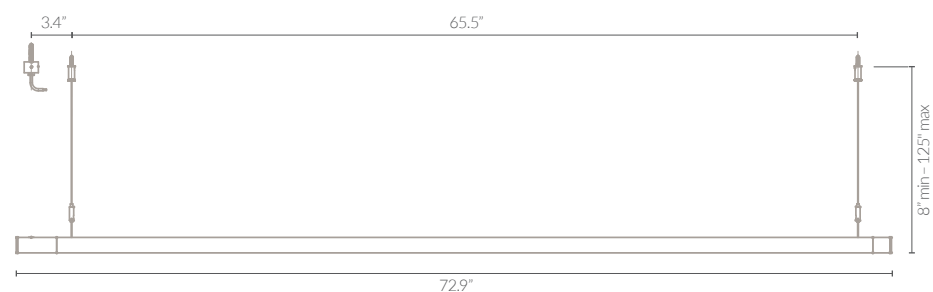
#### SUSPENDED RIBBON DOWN 2 FT



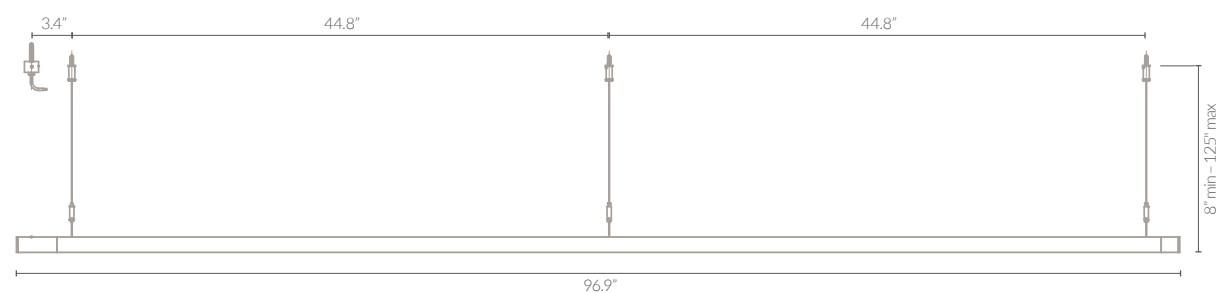
#### SUSPENDED RIBBON DOWN 4 FT



#### SUSPENDED RIBBON DOWN 6 FT



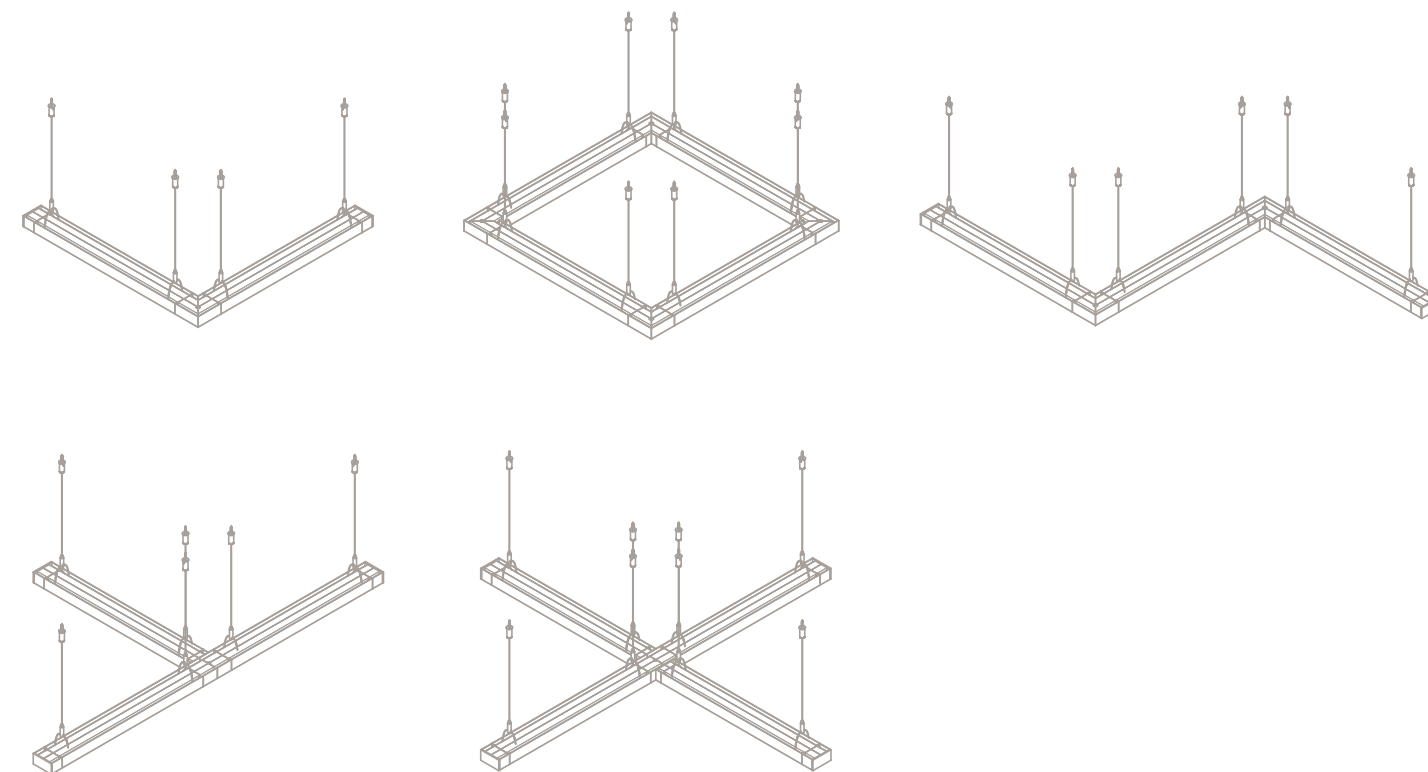
#### SUSPENDED RIBBON DOWN 8 FT



# SYSTEM SPECIFICATIONS

## SUSPENDED RIBBON

### OVERALL DIMENSIONS



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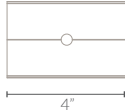
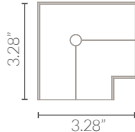
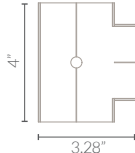
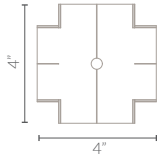
Updated: 08/20/2024

# SYSTEM SPECIFICATIONS

## SUSPENDED RIBBON CONNECTORS/FEEDS

A connector is required at the end of all suspension rail segments. All connectors allow for pass-through of the circuit. To isolate the ends of the track, add provided Isolating Tape to the track ends (see [Layout Guide](#) section for more details).

All of the rail connectors below are provided with pass-through power feed holes for the ribbon track's 4-conductor 24 V wire harnesses, as needed. Minimum 14 AWG feeder cable is recommended to minimize voltage drop — see [Power Supply](#) section for details.

ITEM	FINISH	PART NUMBER
<b>END</b>  Terminates one end of a suspended rail segment  Power Feed Capability: Allows pass-through of direct wire with low voltage cable from ribbon track; feeds in one direction; cable can be mounted to surface, or to a standard 4" octagon box 	32 BLACK	JPR-MLTV-PSU1-DN-EF-32
	33 SATIN ALUMINUM	JPR-MLTV-PSU1-DN-EF-33
	30 WHITE	JPR-MLTV-PSU1-DN-EF-30
	36 SATIN BRASS	JPR-MLTV-PSU1-DN-EF-36
<b>INLINE</b>  Connects two suspended rail segments  Power Feed Capability: Allows pass-through of direct wire with low voltage cable from ribbon track; can feed in both directions; cable can be mounted to surface, or to a standard 4" octagon box mounted to surface; requires 4-conductor wire harness to be a power feed 	32 BLACK	JPR-MLTV-PSU1-DN-IL-32
	33 SATIN ALUMINUM	JPR-MLTV-PSU1-DN-IL-33
	30 WHITE	JPR-MLTV-PSU1-DN-IL-30
	36 SATIN BRASS	JPR-MLTV-PSU1-DN-IL-36
<b>90 DEGREE CORNER</b>  Connects two suspended rail segments at 90°  Power Feed Capability: Allows pass-through of direct wire with low voltage cable from ribbon track; can feed in both directions; cable can be mounted to surface, or to a standard 4" octagon box 	32 BLACK	JPR-MLTV-PSU1-DN-90-32
	33 SATIN ALUMINUM	JPR-MLTV-PSU1-DN-90-33
	30 WHITE	JPR-MLTV-PSU1-DN-90-30
	36 SATIN BRASS	JPR-MLTV-PSU1-DN-90-36
<b>3-WAY</b>  Connects three suspended rail segments at 90°  Power Feed Capability: Allows pass-through of direct wire with low voltage cable from ribbon track; can feed in three directions; cable can be mounted to surface, or to a standard 4" octagon box 	32 BLACK	JPR-MLTV-PSU1-DN-3W-32
	33 SATIN ALUMINUM	JPR-MLTV-PSU1-DN-3W-33
	30 WHITE	JPR-MLTV-PSU1-DN-3W-30
	36 SATIN BRASS	JPR-MLTV-PSU1-DN-3W-36
<b>4-WAY</b>  Connects four suspended rail segments at 90°  Power Feed Capability: Allows pass-through of direct wire with low voltage cable from ribbon track; can feed in 4 directions; cable can be mounted to surface, or to a standard 4" octagon box 	32 BLACK	JPR-MLTV-PSU1-DN-4W-32
	33 SATIN ALUMINUM	JPR-MLTV-PSU1-DN-4W-33
	30 WHITE	JPR-MLTV-PSU1-DN-4W-30
	36 SATIN BRASS	JPR-MLTV-PSU1-DN-4W-36

See [Finishes](#) for a complete list of finish options



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# SYSTEM SPECIFICATIONS

## SUSPENDED RIBBON CONFIGURATION EXAMPLES

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# MULTIVERSE® SYSTEM LAYOUT GUIDE

## EXAMPLE PLAN

Ribbon segments come in stock sizes — to calculate overall lengths, combine segment dimensions with all connector components. Connector dimensions are available in the System Specifications section.

Connect long runs with in line connectors. All runs must be terminated with a Rounded End.

Connectors allow for pass through of circuit; the ends can be isolated by installing the provided Isolating Tape to the ribbon ends (see example layout on the next page). See [Spec Sheets](#).

Any in-plane connector (rounded end, inline, 90 degree, 3-way, and -way) can be easily converted onsite into a power feed as and when needed — even after installation — by attaching a Juniper-provided 4-conductor 24 V wire harness to an onboard socket within each connector. See wire harness details in the System Specifications section.

A minimum of two mounting clips are provided with each ribbon segment. Mounting clips must be a maximum of 18" apart. Additional mounting clips can be added to support the ribbon where needed in special cases (for example, when mounting specific heavier lighting fixtures which are suspended from the ribbon).

### FIELD CUTTING

The ribbon segments may be cut to length. Field cutting should be done with a sharp saw — high-tooth-count miter saw recommended. The field cutting process is covered in detail in the installation guide. Additional length can be requested during the specification process if site dimensions are not certain.



- |                                     |  |   |
|-------------------------------------|--|---|
| <b>1</b> ROUNDED END, J-BOX MOUNTED | <b>4</b> 90 DEGREE CORNER CONNECTOR / FEED | <b>7</b> INLINE CONNECTOR / FEED                |
| <b>2</b> ROUNDED END                | <b>5</b> 4-WAY CONNECTOR / FEED            | <b>8</b> INLINE CONNECTOR / FEED, J-BOX MOUNTED |
| <b>3</b> CONDUIT FEED               | <b>6</b> 3-WAY CONNECTOR / FEED            | <b>9</b> ISOLATING TAPE                         |

# MULTIVERSE® SYSTEM LAYOUT GUIDE

## BASICS OF THE MULTIVERSE SYSTEM

### SPECIFICATION NOTES

1. Determine remote power feed locations and select connector / power feed type. Identify if/where the circuit(s) need to be isolated.

**When using more than one connector as a power feed, circuits must be isolated. See step 7.**

2. Select ribbon segments and connectors necessary for desired layout.

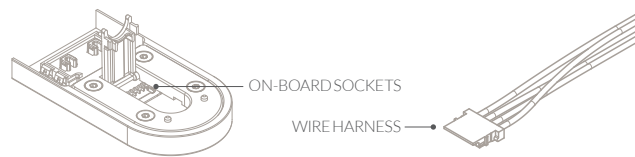
3. Select your desired accent luminaires.

4. Determine wattage and select power supplies — use Power Supply section for reference.

### INSTALLATION NOTES

5. Attach the 4-conductor 24 VDC wire harnesses to the on-board sockets within those in-plane connectors that you wish to use as power feeds. All end connectors, inline connectors, in-plane 90, 3-way and 4-way connectors can be a power feed via the addition of the wire harness.

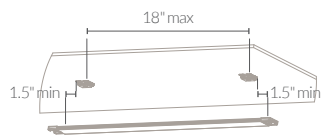
**Note: A conduit connector is always a power feed.**



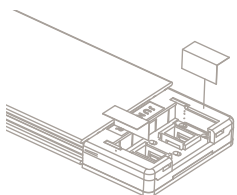
6. Complete wiring of the power feeds to the Power Supplies. Refer to the MULTIVERSE® Remote Installation Guide for detailed instructions.

**Note: Two power supplies are required in order to maximize power and/or for separate control of the two available circuits.**

7. Surface mount clips should be installed at least 1.5 inches from the edge of the ribbon/track and with a maximum clip-to-clip spacing of 18".



Isolation tape is provided separately, and can be applied to the track end couplers to terminate the power and isolate the connector ends. Make sure contact pads are completely covered for good isolation. See installation guide for details.

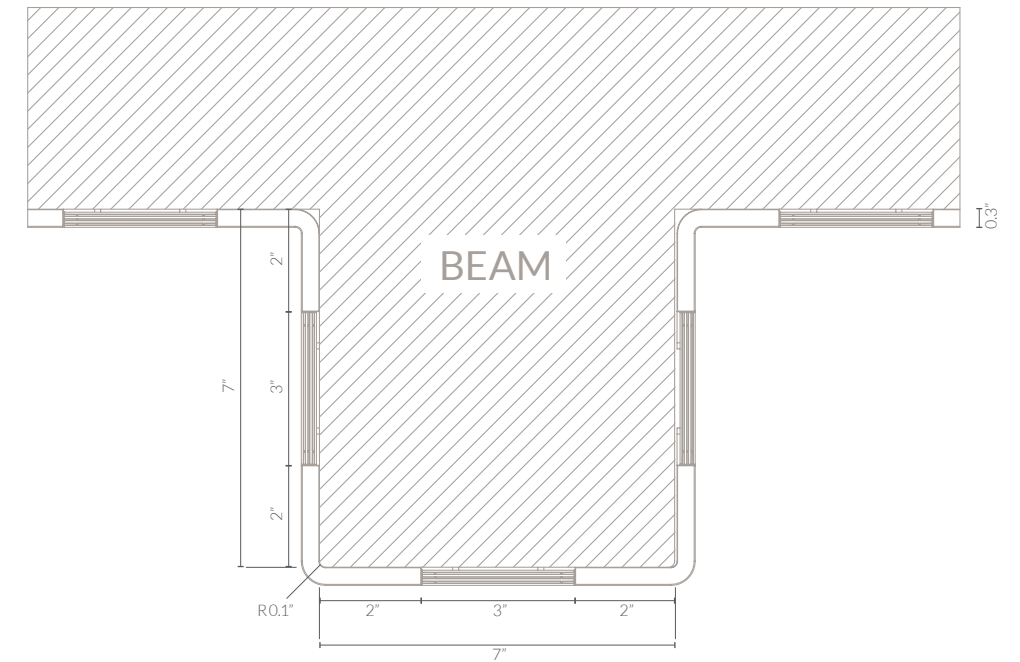


# MULTIVERSE® SYSTEM LAYOUT GUIDE

## SPECIAL MOUNTING CONDITIONS

### MINIMUM DIMENSIONS

### WRAPPING AROUND BEAMS



### WRAPPING AROUND COLUMNS

