



A creative and versatile luminaire, MADELINE is sleek and beautiful as a standalone fixture or let your imagination run free to design shapes, circles, and ovals able to fit any space. Using uniquely illuminated convex and concave radial sections, Madeline easily generates dynamic, flowing undulations. The Free-Form configuration tool prompts creation of endless shapes combining curved and straight forms, all elegantly joined by precision-engineered connecting hardware. Constructed of heavy gauge extruded aluminum and featuring our highest quality precision machined aluminum end-caps.

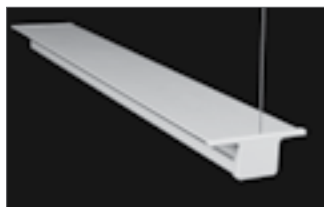
A variety of configurations allows MADELINE the flexibility to be utilized in applications such as: offices, corridors, hospitality or retail establishments.



Concave



Convex



Straight

## FIXTURE SPECIFICATIONS

### Construction

Heavy gauge extruded aluminum housing, high quality precision-machined aluminum end-caps.

### Mounting Options

(CSS) Cable Suspension System field-adjustable 1/8" aircraft cable, or (SM) Surface Mount.

### Fixture Length

Fixtures are available in 2' or 4' nominal lengths at 30°, 60° or 120° arcs or as 2', 4', 6', and 8' straight segments. Continuous run mounting available featuring internal adjoining mounting hardware enabling the creation of various linear shapes, ovals or circles.

See the Free-Form Configuration tool for more details. [FFC Configurator Tool](#)

### Light Output

Intensity levels are available as HLO (High Lumen Output) and SLO (Standard Lumen Output) providing efficient illumination. CLO (Custom Lumen Output) allows for end user specified lumen output or tailored wattage consumption for certain models. Consult factory for details.

### Dimming

Dimming is available with a variety of control protocols and options. Consult factory for availability and specifications.

### Powder Coat Finish

(MW) Matte White standard, other powder coat finishes available. Consult factory for details

### Optics

Refracting diffuser creating smooth light distribution and increased uniformity.

### Custom and Mods

We proudly specialize in manufacturing custom and modified luminaires and have the ability to modify most of our standard fixtures. Please contact factory with any inquiries.

 UL and c-UL listed for dry and damp locations.



Made in the USA

## SPECIFICATION CODE

CSS selections only<sup>3</sup>

model	light output	color temp	forms	Nominal Arc	finish	voltage	driver	mounting orientation	standard cable length	standard cord color	standard canopy	standard canopy finish	options	options
For free form, use: <b>MAD-FFC</b>														

Model	Light Output	Color Temp	Forms	Nominal Arc <sup>3</sup> (length)	Finish	Voltage	Driver	Mounting/Orientation	Options
<b>MAD-EX</b> - convex standalone section	<b>SLO</b> - Standard <b>HLO</b> - Lumen Output <b>HLO</b> - High	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K	<b>24R</b> - 24" radius <b>48R</b> - 48" radius <b>ST</b> - straight	<b>24"</b> radius 60 - 60° <sup>(2)</sup> 120 - 120° <sup>(4)</sup>  <b>48"</b> radius 30 - 30° <sup>(2)</sup> 60 - 60° <sup>(4)</sup>	<b>Powder Coat</b> <b>MW</b> - Matte White  <b>CUP</b> - Custom <sup>4</sup>	<b>120</b> <b>277</b> <b>347</b> <sup>5</sup>	<b>EB</b> - Electronic (standard)  <b>Dimming</b> <b>D1</b> - 1% (nom) 0-10V <b>HLA2</b> <sup>6</sup> - LITEA2W Lutron <b>HL</b> - H-Lume 1%, 2 wire <b>LDE1</b> Lutron <b>Hi-Lume</b> 1% <b>EcoSystem</b> <b>HL5</b> - LDE5 Lutron 5 series <b>EcoSystem</b> <b>DALI</b> - DALI	<b>CSS-DR</b> - Cable Suspended Direct (36" standard)  <b>CSS-IN</b> - Cable Suspended Indirect (36" standard)  <b>CSS-DRIN</b> - Cable Suspended Direct/Indirect (36" standard)  <b>SM-DR</b> <sup>7</sup> - Surface Mount Direct (Straight Only)  <b>SM-IN</b> <sup>7</sup> - Surface Mount Indirect (Straight Only)	<b>Cable Length</b> <sup>8</sup> <b>Cord Color</b> <sup>9</sup> <b>Canopy</b> <sup>8</sup> <b>Canopy Finish</b> <sup>4</sup>  <b>EM</b> <sup>9</sup> - Emergency Battery Pack
<b>MAD-AV</b> - concave standalone section	<b>CLO</b> <sup>2</sup> - Custom Lumen Output		<b>FFC</b> <sup>2</sup> - Free-Form Configuration	<b>048</b> - 48" straight <b>072</b> - 72" straight <b>096</b> - 96" straight					
<b>MAD-ST</b> <sup>1</sup> - straight section	<a href="#">CLO Calculator</a>								
<b>MAD-FFC</b> <sup>2</sup> - Free Form Configuration				<b>CR</b> <sup>1</sup> Continuous <b>Straight</b> Run <b>FFC</b> <sup>2</sup> - Free-Form Configuration					

## CSS Options

<b>Cable Length</b> 36 - 36" (standard) 72 - 72" 120 - 120"	<b>Power Cord Color</b> <b>W</b> - White (standard) <b>B</b> - Black <b>G</b> - Gray
<b>Canopy</b> <b>STND</b> - Bracket bar w/5" round canopy <b>NC</b> - No canopy 1/4"-20 side exit cable gripper (1/4"-20 stud provided by others) <b>CU</b> - Custom (contact factory)	<b>Canopy Finish</b> <b>MW</b> - Matte White <b>CUP</b> - Custom (contact factory)

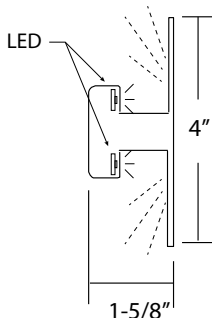
## Option Code

### Options

**2CKT** - 2 Circuit

**EM**<sup>2</sup> - Remote Inverter

### Profile



### NOTES

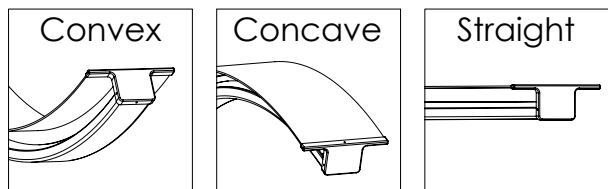
- 0'R straight option only
- use online configurator to design fixture, fill out all specs values
- refer to CLO Calculator for code selection
- contact factory for custom finish, not all parts can be painted.
- available for EB, D1, D10 drivers only
- 120V only
- Straight sections only
- see CSS options for selections
- remote only, consult factory for EM options

### LED

#### MAD-LED-400 (based on 2' segment)

**AV-SLO** - 56.2 lm/watt delivered @ 8.8 w/ft fixture input watts, 491 lm/ft.  
**AV-HLO** - 49.2 lm/watt delivered @ 17.6 w/ft fixture input watts, 866 lm/ft.  
**EX-SLO** - 72.2 lm/watt delivered @ 8.8 w/ft fixture input watts, 635 lm/ft.  
**EX-HLO** - 61.7 lm/watt delivered @ 17.5 w/ft fixture input watts, 1080 lm/ft.  
**ST-SLO** - TBD  
**ST-HLO** - 61.6 lm/watt delivered @ 17.5 w/ft fixture input watts, 1078 lm/ft.

## Radial Form Configurations - "Rings"



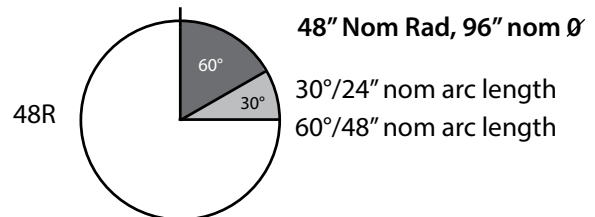
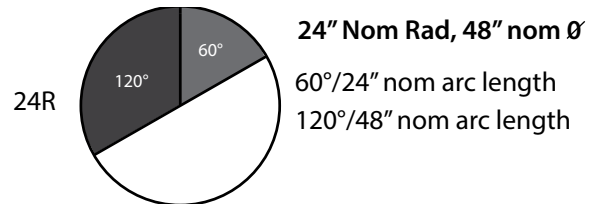
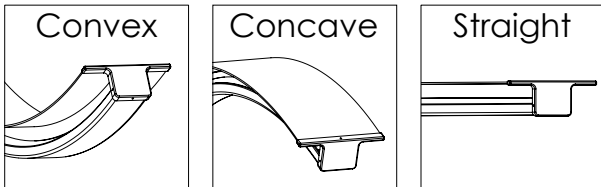
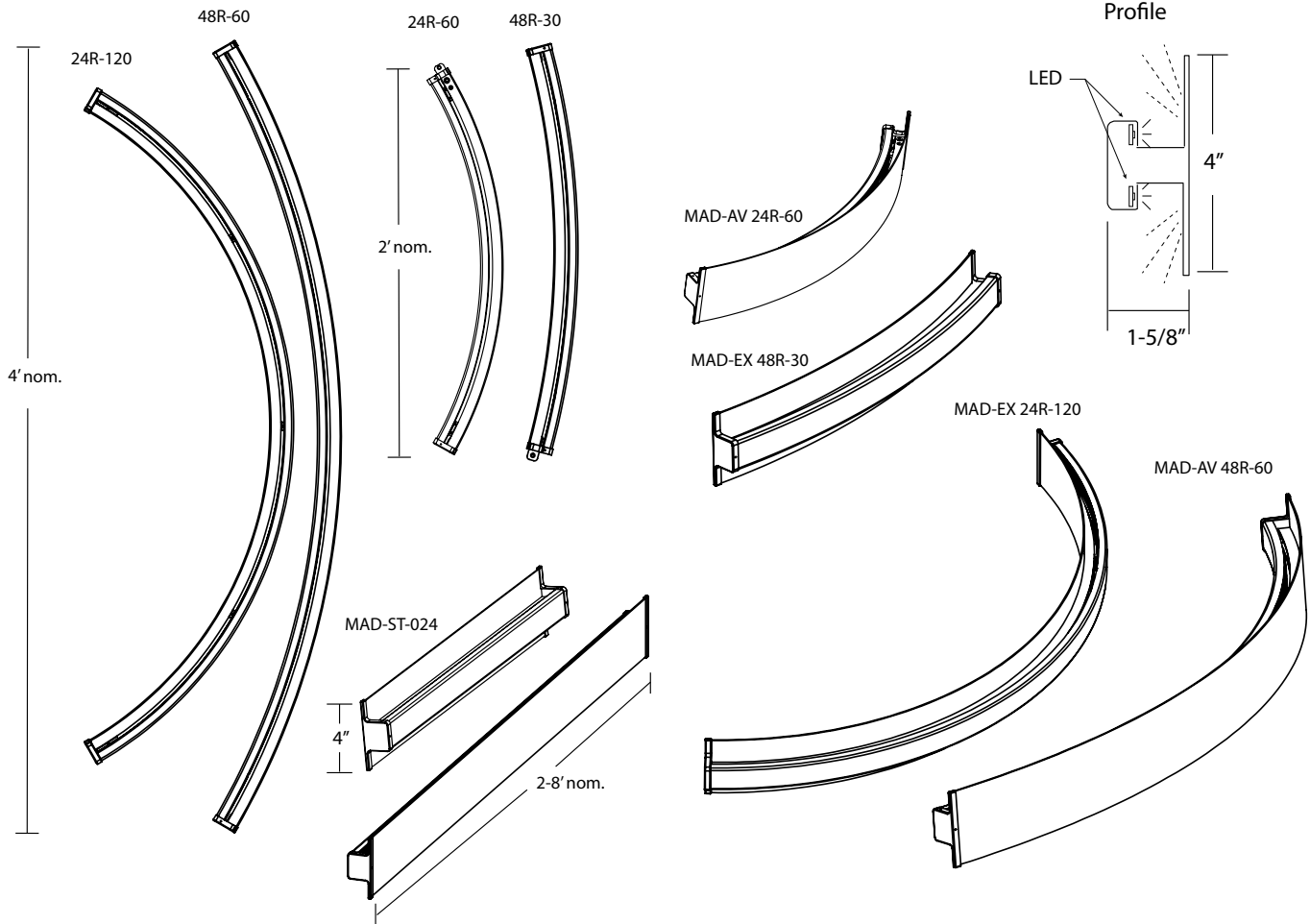
Model	Form	Nominal Diameters	Nominal Arc	Nominal Length
<b>MAD-EX - RING</b> 4.00" profile interior illumination	<b>24R</b> - 24" radius	<b>4 - 4'</b>	<b>120 - 120°</b>	<b>R24-120-4'</b>
<b>MAD-AV - RING</b> 4.00" profile exterior illumination	<b>48R</b> - 48" radius	<b>8 - 8'</b>	<b>30 - 30°</b> <b>60 - 60°</b>	<b>R48-60 - 4'</b>

www.birchwoodlighting.com

Type: Job Name:

CSS | SM

**Dimensions**



**Free-Form Configuration and CSS Mounting Examples**

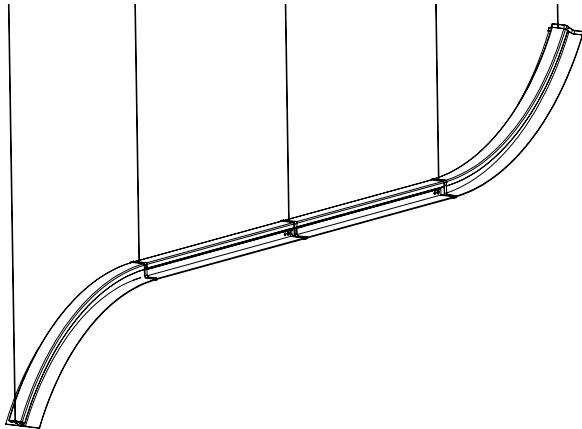
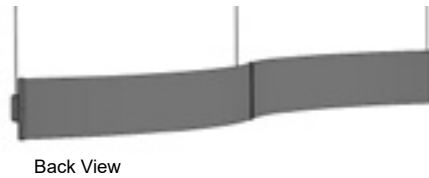
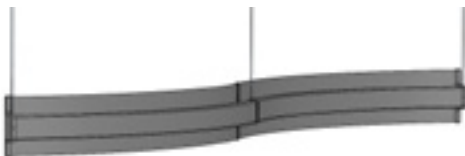
**Indirect** (1) AV-IN / (1) EX-IN  
2' sections Free-Form



**Direct** (1) AV-DR / (1) EX-DR  
2' sections Free-Form



**Direct/Indirect** (1) AV-DRIN / (1) EX-DRIN  
2' sections Free-Form DR/IN

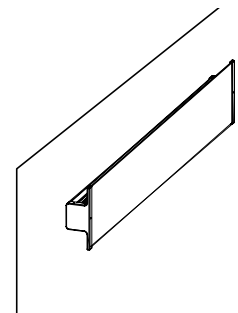


The Free-Form Configuration Tool is available for real-time 3D layouts that can be downloaded for easy-to-use specifications

[FFC Configurator Tool](#)

**Free-Form Run Work Sheet Example**

CSS	EX-IN-24R-60	ST-IN-024	ST-IN-024	AV-IN-24R-60
mounting	starter			



**SM-IN Surface Mount**

**Continuous Run Work Sheet**

\_\_\_\_\_ mounting \_\_\_\_\_ starter \_\_\_\_\_ end \_\_\_\_\_

**Straight Run Work Sheet Example**

SM-IN 048 048 048 048 = 16' nominal run, surface mounted indirect wall or ceiling  
mounting starter



A creative and versatile luminaire, MADELINE is sleek and beautiful as a continuous run wavy serpentine fixture that is available in various continuous run lengths. Using uniquely illuminated convex and concave 24" and 48" radial sections, Madeline easily generates dynamic, flowing undulations all elegantly joined by precision-engineered connecting hardware. Constructed of heavy gauge extruded aluminum and featuring our highest quality precision machined aluminum end-caps.

A variety of configurations allows MADELINE the flexibility to be utilized in applications such as: offices, corridors, hospitality or retail establishments.



Concave



Convex

## FIXTURE SPECIFICATIONS

### Construction

Heavy gauge extruded aluminum housing, high quality precision-machined aluminum end-caps.

### Mounting Options

(CSS) Cable Suspension System field-adjustable 1/8" aircraft cable

### Fixture Length

Combine either 2' or 4' segments with either the 24" or 48" radius to create a continuous run from 4'-100'+. The standard would be the same radius throughout for these standard serpentine configurations.

24" Radius:	48" Radius:
60 deg = 2'	30 deg = 2'
120 deg = 4'	60 deg = 4'

### Light Output

Intensity levels are available as HLO (High Lumen Output) and SLO (Standard Lumen Output) providing efficient illumination. CLO (Custom Lumen Output) allows for end user specified lumen output or tailored wattage consumption for certain models. Consult factory for details.

### Dimming

Dimming is available with a variety of control protocols and options. Consult factory for availability and specifications.

### Powder Coat Finish


(MW) Matte White standard, other powder coat finishes available. Consult factory for details

### Optics

Refracting diffuser creating smooth light distribution and increased uniformity.

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 UL and c-UL listed for dry and damp locations.



Made in the USA

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Type: \_\_\_\_\_ Job Name: \_\_\_\_\_ **CSS**

**SPECIFICATION CODE**

CSS selections only<sup>3</sup>

model	light output	color temp	radius type/ segment length	total non length	starter	finish	voltage	driver	mounting orientation	standard cable length	standard cord color	standard canopy	standard canopy finish	options	options
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Model	Light Output	Color Temp	Radius Type/ Segment Length	Nominal Total Length	Starter	Finish	Voltage	Remote Driver	Mounting/ Orientation	Options																																												
<b>MAD-SRP - Madeline Serpentine</b>	<b>SLO - Standard Lumen Output</b> <b>HLO - High Lumen Output</b> <b>CLO<sup>3</sup> - Custom Lumen Output</b>	<b>27 - 2700K</b> <b>30 - 3000K</b> <b>35 - 3500K</b> <b>40 - 4000K</b>	<b>24" radius</b> <b>24/60 - 60° (2' nom)</b> <b>24/120 - 120° (4' nom)</b>	<b>24/60 segments:</b> <b>CR<sup>1</sup></b> Continuous Run 2' increments  <b>24/120 segments:</b> <b>CR<sup>1</sup></b> Continuous Run 4' increments	<b>AV - Concave</b> <b>EX - Convex</b>	<b>Powder Coat</b> <b>MW - Matte White (Standard)</b> <b>CUP - Custom<sup>4</sup></b>	<b>120</b> <b>277</b> <b>347<sup>5</sup></b>	<b>EB - Electronic (standard)</b>  Dimming <b>D1 - 1% (nom) 0-10V</b> <b>HLA2<sup>6</sup> - LTEA2W</b> Lutron H-Lume 1%, 2 wire <b>HL - LDE1 Lutron</b> Hi-Lume 1% EcoSystem <b>HL5 - LDE5</b> Lutron 5 series EcoSystem <b>DALI - DALI</b>	<b>CSS-DR - Cable Suspended Direct (36" standard)</b>  <b>CSS-IN - Cable Suspended Indirect (36" standard)</b>  <b>CSS-DRIN - Cable Suspended Direct/Indirect (36" standard)</b>	<b>Cable Length<sup>7</sup></b> <b>Cord Color<sup>7</sup></b> <b>Canopy<sup>7</sup></b> <b>Canopy Finish<sup>3</sup></b>  <b>EM<sup>8</sup> - Emergency Battery Pack</b>																																												
			<b>48" radius</b> <b>48/30 - 30° (2' nom)</b> <b>48/60 - 60° (4' nom)</b>	<b>48/30 radius:</b> <b>CR<sup>1</sup></b> Continuous Run 2' increments  <b>48/60 segments:</b> <b>CR<sup>1</sup></b> Continuous Run 4' increments	<table border="1"> <thead> <tr> <th colspan="4">Run Configurations</th> </tr> <tr> <th>24/60</th> <th>24/120</th> <th>48/30</th> <th>48/60</th> </tr> </thead> <tbody> <tr> <td>4'</td> <td>8'</td> <td>4'</td> <td>8'</td> </tr> <tr> <td>6'</td> <td>12'</td> <td>6'</td> <td>12'</td> </tr> <tr> <td>8'</td> <td>16'</td> <td>8'</td> <td>16'</td> </tr> <tr> <td>10'</td> <td>20'</td> <td>10'</td> <td>20'</td> </tr> <tr> <td>12'</td> <td>24'</td> <td>12'</td> <td>24'</td> </tr> <tr> <td>14'</td> <td>28'</td> <td>14'</td> <td>28'</td> </tr> <tr> <td>16'</td> <td>32'</td> <td>16'</td> <td>32'</td> </tr> <tr> <td>18'</td> <td>36'</td> <td>18'</td> <td>36'</td> </tr> <tr> <td>20'</td> <td>40'</td> <td>20'</td> <td>40'</td> </tr> </tbody> </table>				Run Configurations				24/60	24/120	48/30	48/60	4'	8'	4'	8'	6'	12'	6'	12'	8'	16'	8'	16'	10'	20'	10'	20'	12'	24'	12'	24'	14'	28'	14'	28'	16'	32'	16'	32'	18'	36'	18'	36'	20'	40'	20'	40'	Lengths not limited to longest listed	
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[CLO Calculator](#)

**CSS Options**

<b>Cable Length</b> 36 - 36" (standard) 72 - 72" 120 - 120"	<b>Power Cord Color</b> W - White (standard) B - Black G - Gray
<b>Canopy</b> STND - Bracket bar w/5" round canopy NC - No canopy 1/4-20 side exit cable gripper (1/4-20 stud provided by others) CU - Custom (contact factory)	<b>Canopy Finish</b> MW - Matte White CUP - Custom (contact factory)

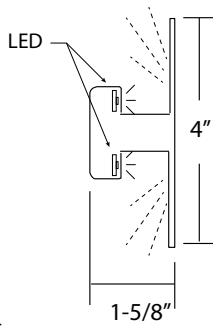
**Option Code**

**Options**

**2CKT - 2 Circuit**

**EM<sup>8</sup> - Remote Inverter**

**Profile**



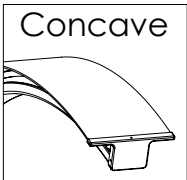
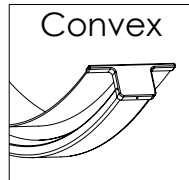
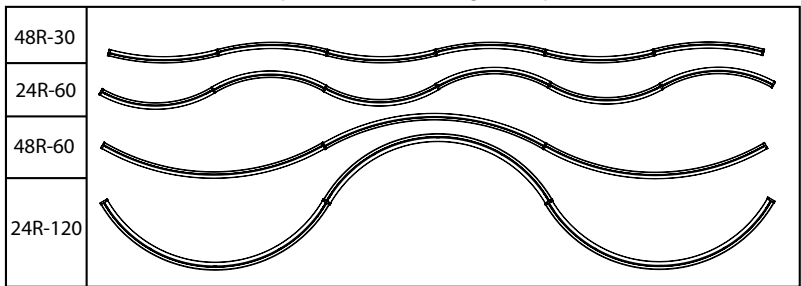
**LED**

**MAD-LED-400 (based on 2' segment)**

<b>AV-SLO</b> - 56.2 lm/watt delivered @ 8.8 w/ft fixture input watts, 491 lm/ft.
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- NOTES**
- 1 Add CR + total length to spec
  - 2 available for EB, D1, D10 drivers only
  - 3 refer to CLO Calculator for code selection
  - 4 contact factory for custom finish, not all parts can be painted.
  - 5 available for EB, D1, D10 drivers only
  - 6 120V only
  - 7 see CSS options for selections
  - 8 remote only, consult factory for EM options

MADLINE serpentine radius and segment options





The MADELINE Ring is sleek and beautiful as a standalone fixture that is available in 4' and 8' diameter rings. Using uniquely illuminated convex and concave radial sections, Madeline easily generates a dynamic ring of light. The Free-Form configuration tool can help you envision the fixture in a 3D space. All segments elegantly joined by precision-engineered connecting hardware. Constructed of heavy gauge extruded aluminum and featuring our highest quality precision machined aluminum end-caps.

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Concave



Convex

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### Fixture Length

Fixtures segments are available in 2' or 4' nominal lengths at 30°, 60° for the 24" radius or 30° and 120° for the 48" radius. The curves are based on a 24" and 48" radius. Continuous run mounting available featuring internal adjoining mounting hardware enabling the creation of various linear shapes, ovals or circles. See the [Free-Form Configuration tool](#) for more details.

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