# L109

**INTERIOR**

Linear | For coves, wall slots, shelves & cabinets

- Dry location

## Ordering Information

Clear Form

Date : _____

Project : _____

Type : _____

Quantity : _____

Note : _____

## Specifications

**Luminaire |** Example Code: L109-A-X-W30H-W-P-MA

| Product | Version | Fixture Length [1] | CCT & CRI [2] | Beam Angle | Lens | Finish [ft] |
|---|---|---|---|---|---|---|
| **L109** | | | | | | |
| | **A** 2W/ft<br>**B** 6W/ft | **X** custom | **W22S** 2200K 80+<br>**W27H** 2700K 90+<br>**W30H** 3000K 90+<br>**W35H** 3500K 90+<br>**W41H** 4100K 90+ | **N** narrow 30°<br>**F** flood 60°<br>**W** wide 120° | **F** frosted<br>**P** prismatic | **Aluminum Finishes:**<br>**MA** matte clear anodized<br>**BA** black anodized<br>**BZ** bronze |

### System Components (Ordered Separately)

Remote Driver : _____

Control System : _____

**On/Off | Dimming** ELV or 0-10 dimming
**Other options (consult factory)** TRIAC/MLV, DMX, DALI, Casambi, PoE

## Important Notes

Specification

1. ***Minimum:*** *1' (305mm)* ***Maximum:*** *8' (2438mm), 6" (152.4mm) increments for N and F beams, 3" (76mm) increments for W beam only.*
2. *Refer to pg.02 - Electrical for Colour Consistency details.*
3. *Different finish options are only applicable to LED rail. Refer to Appendix or MP Lighting website for complete look of luminaire with different finish options.*

Warranty Notes & Disclaimer

*Malfunction and damage to product due to incompatible dimming system or misuse will not be covered under warranty. Consult MP Lighting for recommended drivers. If the fixture has an option to be installed with a dimming control system, consult a dimming system manufacturer with minimum load before installing. MP Lighting reserves the right, at its sole discretion, at any time and without notice, to make design changes to any of our products. Consult MP Lighting website for most updated documentation.*

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## Performance

| Wattage | Forward Current | Power Consumption Budget per fixture (including driver) | LED output (Source) | Fixture Output (Delivered) |
|---|---|---|---|---|
| 2W/ft | 84mA | 2.5W/ft | 220 lm/ft | 209-242.2 lm/ft |
| 6W/ft | 250mA | 7W/ft | 660 lm/ft | 550-656.2 lm/ft |

## Application

| | |
|---|---|
| Environment | Dry Location approved. IP 50. |
| Mounting | **Surface-mounted/Recessed:** Mounts directly to surface or recessed mount with friction fit spring clips. Comes with 3'(914mm) wire lead |

## Electrical

| | |
|---|---|
| LED Light Source | **Colour Consistency:** 3-step MacAdam |
| Power Supplies | Remote LED drivers (120-277V AC input, **constant voltage output**): Fixtures to be wired in parallel. |
| Control | **Dimming:** ELV or 0-10V dimming with appropriate drivers<br>**Other options (consult factory):** TRIAC/MLV, DMX, DALI, Casambi, Power over Ethernet |

## Luminaire Construction

| | |
|---|---|
| Weight | 0.20 lbs per ft (0.09 kg per ft). Typical Aluminum Fixture. |
| Material | **Fixture:** extruded marine-grade aluminum with polycarbonate lens |
| Supplied with | **Standard installation housing:** Comes with friction fit spring clips<br>**Cable:** 3' (914mm) factory-installed wire lead |
| Warranty & LED Life | 5 years limited warranty<br>Estimated useful life of LED is 50,000 hours. |

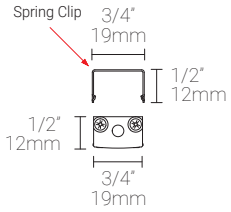
## Ordered Separately

| | |
|---|---|
| System Components | **Power supplies:** remote driver<br>Please consult factory or visit Recommended Drivers for available driver options. |

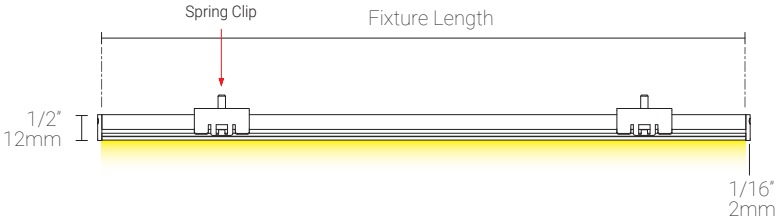
## Mounting Options & Dimensions

### LED Fixture Dimensions

Fixture



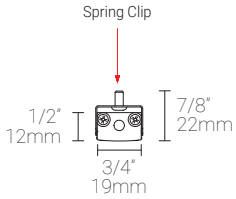

Side View

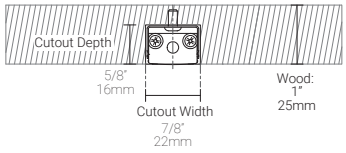



3D View

### Recessed Installation with Friction fit spring clip

Fixture with spring clips

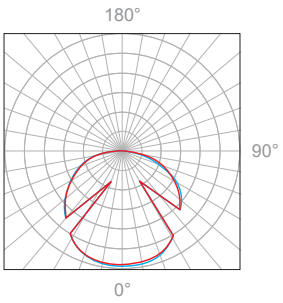


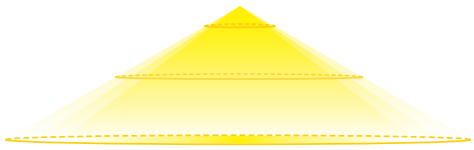
## 2W, 1' (305mm), 3000K, 90+ CRI

### Frosted Lens

**Polar Candela Distribution**




**Beam Width: 120°**



**Illuminance at a Distance**

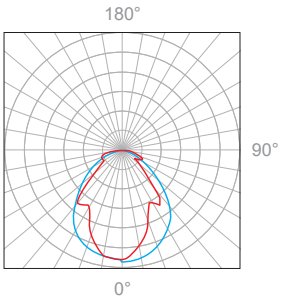
| Distance | | Center Beam fc | Beam Width | | | |
|---|---|---|---|---|---|---|
| 3.0ft | 0.91m | 8.58fc | 3.1ft | 0.94m | 3.1ft | 0.94m |
| 6.0ft | 1.83m | 2.14fc | 6.2ft | 1.89m | 6.2ft | 1.89m |
| 9.0ft | 2.74m | 0.95fc | 9.3ft | 2.83m | 9.3ft | 2.83m |
| 12.0ft | 3.66m | 0.54fc | 12.4ft | 3.78m | 12.4ft | 3.78m |
| 15.0ft | 4.57m | 0.34fc | 15.5ft | 4.72m | 15.6ft | 4.75m |
| 18.0ft | 5.49m | 0.24fc | 18.6ft | 5.67m | 18.7ft | 5.70m |

**Delivered Lumen: 209 lm**
Vertical Beam Spread : 54.6°
Horizontal Beam Spread : 54.8°

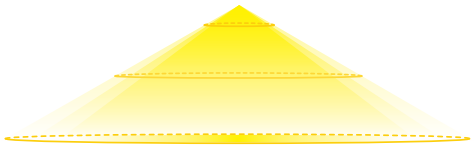
*Tested on 03/27/2026*

### Prismatic Lens

**Polar Candela Distribution**




**Beam Width: 120°**



**Illuminance at a Distance**

| Distance | | Center Beam fc | Beam Width | | | |
|---|---|---|---|---|---|---|
| 3.0ft | 0.91m | 13.6fc | 6.5ft | 1.98m | 5.4ft | 1.64m |
| 6.0ft | 1.83m | 3.39fc | 13.0ft | 3.96m | 10.9ft | 3.32m |
| 9.0ft | 2.74m | 1.51fc | 19.4ft | 5.91m | 16.3ft | 4.96m |
| 12.0ft | 3.66m | 0.85fc | 25.9ft | 7.89m | 21.7ft | 6.61m |
| 15.0ft | 4.57m | 0.54fc | 32.4ft | 9.87m | 27.2ft | 8.29m |
| 18.0ft | 5.49m | 0.38fc | 38.9ft | 11.85m | 32.6ft | 7.19m |

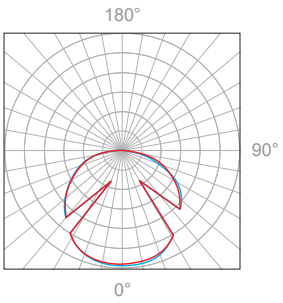
**Delivered Lumen: 243.2 lm**
Vertical Beam Spread : 94.4°
Horizontal Beam Spread : 84.3°

*Tested on 03/27/2026*

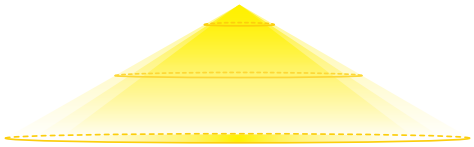
## 6W, 1' (305mm), 3000K, 90+ CRI

### Frosted Lens

**Polar Candela Distribution**




**Beam Width: 120°**



**Illuminance at a Distance**

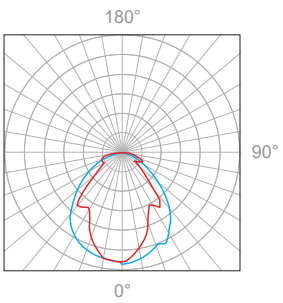
| Distance | | Center Beam fc | Beam Width | | | |
|---|---|---|---|---|---|---|
| 3.0ft | 0.91m | 22.9fc | 3.1ft | 0.94m | 3.1ft | 0.94m |
| 6.0ft | 1.83m | 5.72fc | 6.2ft | 1.89m | 6.2ft | 1.89m |
| 9.0ft | 2.74m | 2.54fc | 9.3ft | 2.83m | 9.3ft | 2.83m |
| 12.0ft | 3.66m | 1.43fc | 12.4ft | 3.78m | 12.4ft | 3.78m |
| 15.0ft | 4.57m | 0.91fc | 15.5ft | 4.72m | 15.5ft | 4.72m |
| 18.0ft | 5.49m | 0.64fc | 18.6ft | 5.67m | 18.6ft | 5.67m |

**Delivered Lumen: 550 lm**
Vertical Beam Spread : 54.7°
Horizontal Beam Spread : 54.8°

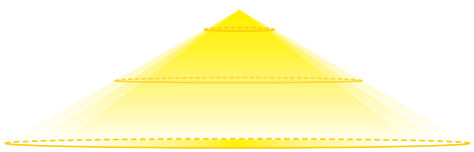
*Tested on 03/27/2026*

### Prismatic Lens

**Polar Candela Distribution**




**Beam Width: 120°**



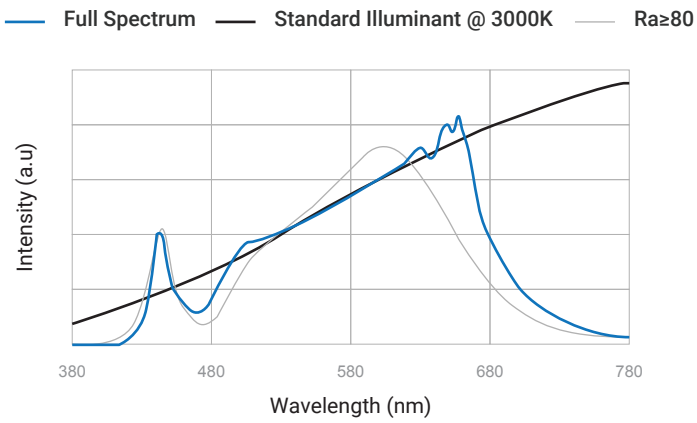
**Illuminance at a Distance**

| Distance | | Center Beam fc | Beam Width | | | |
|---|---|---|---|---|---|---|
| 3.0ft | 0.91m | 36.6fc | 6.4ft | 1.95m | 5.3ft | 1.61m |
| 6.0ft | 1.83m | 9.16fc | 12.8ft | 3.90m | 10.5ft | 3.20m |
| 9.0ft | 2.74m | 4.07fc | 19.2ft | 5.85m | 15.8ft | 4.81m |
| 12.0ft | 3.66m | 2.29fc | 25.6ft | 7.80m | 21.1ft | 6.43m |
| 15.0ft | 4.57m | 1.46fc | 32.0ft | 9.75m | 26.4ft | 8.04m |
| 18.0ft | 5.49m | 1.02fc | 38.4ft | 11.70m | 31.6ft | 9.63m |

**Delivered Lumen: 656.2 lm**
Vertical Beam Spread : 93.7°
Horizontal Beam Spread : 82.6°

*Tested on 03/27/2026*

## Full Spectrum




## Appendix

### Aluminum Finishes

**MA** matte clear anodized

**BA** black anodized

**BZ** bronze anodized