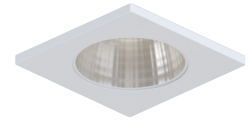
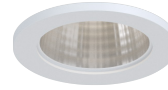


# L421

## INTERIOR

Recessed Downlight | For ceilings, soffits

○ Damp and Dry location



### Ordering Information

Clear Form

Date : \_\_\_\_\_ Quantity : \_\_\_\_\_

Project : \_\_\_\_\_ Note : \_\_\_\_\_

Type : \_\_\_\_\_

### Specifications

Luminaire | Example Code: L421-NI-M-13-W30H-N-S-C-WH

| Product     | Mounting  | Dimming  | Version       | CCT & CRI  | Beam Angle  | Reflector Colour <sup>2</sup>   | Trim Shape <sup>2</sup>                           | Trim Finish <sup>2</sup>  |
|-------------|---|--|---------------|--|---|---|---|---|
| <b>L421</b> |   |  | <b>13</b>     |  |   |   |   |   |
|             | <b>NI</b> non-insulated<br><b>R</b> retrofit driver | <b>M</b> MLV dimming (120V)<br><b>D</b> 0-10V dimming (120-277V) | <b>13</b> 13W | <b>W27H</b> 2700K 90+ CRI<br><b>W30H</b> 3000K 90+ CRI<br><b>W35H</b> 3500K 90+ CRI<br><br><b>W27V</b> 2700K 97+ CRI<br><b>W30V</b> 3000K 97+ CRI<br><br><b>WD</b> warm dimming (1800-3000K, 95+ CRI) <sup>1</sup> | <b>S</b> spot 15°<br><b>N</b> narrow flood 30°<br><b>W</b> wide flood 60° | <b>S</b> silver specular<br><b>B</b> black specular<br><b>G</b> gold specular | <b>C</b> circular<br><b>S</b> square <sup>3</sup> | <b>Aluminum Finishes:</b><br><b>WH</b> white powder coat<br><b>BK</b> black powder coat |

### System Components (Ordered Separately)

Remote Driver : \_\_\_\_\_

\* Consult MP Lighting Website or Factory.

### Important Notes

#### Specification

1. Refer to pg.5 or [Warm Dimming](#) for details.
2. Refer to Appendix or MP Lighting website for complete look of luminaire with different finish options.
3. Square Trim only available with **N** (narrow flood, 30°) beam angle.

#### Warranty Notes & Disclaimer

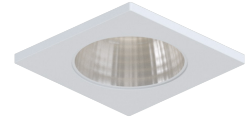
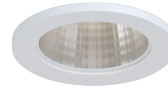
Malfunction and damage to product due to incompatible dimming system or misuse will not be covered under warranty. Consult MP Lighting for recommended drivers. If the fixture has an option to be installed with a dimming control system, consult a dimming system manufacturer with minimum load before installing. 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.

# L421

## INTERIOR

Recessed Downlight | For ceilings, soffits

○ Damp and Dry location



### Performance

| Wattage | Forward Current | Power Consumption Budget per fixture (including driver) | LED output (Source) | Fixture Output (Delivered) |
|---------|-----------------|---|---------------------|----------------------------|
| 13W     | 350mA           | 13W   | 1430 lm             | 919-922 lm                 |

### Application

|             |  |
|-------------|--|
| Environment | Damp and Dry Location approved. IP 54.   |
| Mounting    | Mounts with spring clips.<br><b>Cut-out size:</b> Ø 2-1/2" (63.5mm)<br><b>Cord Length:</b> 22-1/4" (565mm) |

### Electrical

|                |  |
|----------------|--|
| Power Supplies | <b>Comes with:</b><br>Remote LED drivers (120V AC input, MLV dimmable) <b>OR</b><br>Remote LED drivers (120-277V AC input, 0-10V dimmable)   |
| Control        | <b>On/off control</b><br><b>Dimming:</b> MLV or 0-10V dimming with appropriate drivers<br><b>Other options (consult factory):</b> TRIAC/MLV, DMX, DALI, Casambi, Power over Ethernet |

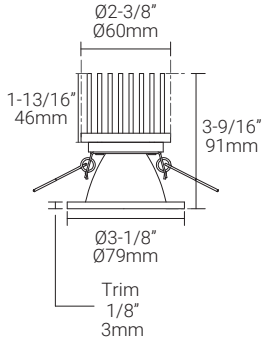
### Luminaire Construction

|                     |   |
|---------------------|---|
| LED Light Source    | <b>W27H</b> = CCT: 2700K, CRI (Ra): 90+, Colour Consistency: 2SDCM<br><b>W30H</b> = CCT: 3000K, CRI (Ra): 90+, Colour Consistency: 2SDCM<br><b>W35H</b> = CCT: 3500K, CRI (Ra): 90+, Colour Consistency: 2SDCM<br><b>W27V</b> = CCT: 2700K, CRI (Ra): 97+, Colour Consistency: 2SDCM<br><b>W30V</b> = CCT: 3000K, CRI (Ra): 97+, Colour Consistency: 2SDCM<br><b>WD</b> = CCT: 1800K-3000K, CRI (Ra): 95+ |
| Weight              | 2lbs (0.45kg) fixture only  |
| Material            | <b>Fixture:</b> machined marine-grade aluminum  |
| Supplied with       | <b>Non-insulated housing:</b> Comes with frame, built-in nailer, housing cover, and cord<br><b>Retrofit driver:</b> remote driver housing and cord  |
| Warranty & LED Life | 5 years limited warranty<br>Estimated useful life of LED is 50,000 hours.   |

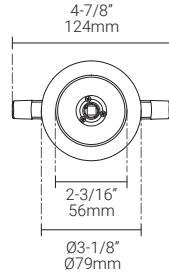
Mounting Options & Dimensions

LED Fixture Dimensions

Fixture



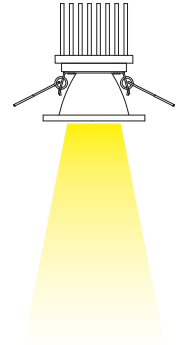
Top View



3D View

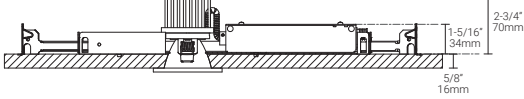


Beam

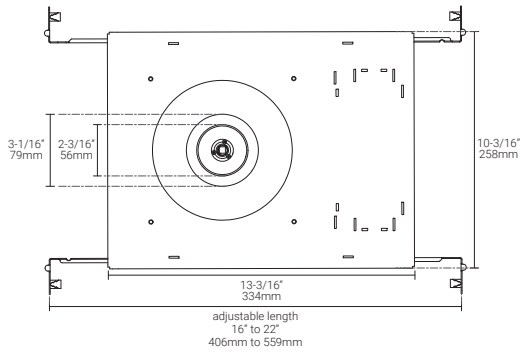


Non-insulated housing with driver

Side View



Bottom View

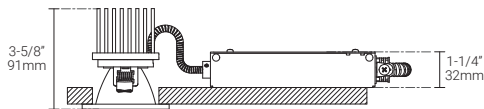


3D View

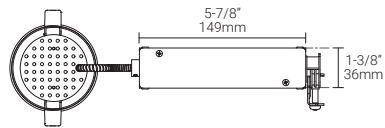


Retrofit housing with driver

Side View



Top View

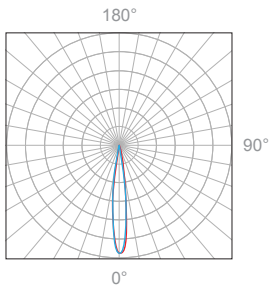


3D View



13W, 3000K, 90+ CRI, Silver Reflector

Polar Candela Distribution



Beam Width: 15°

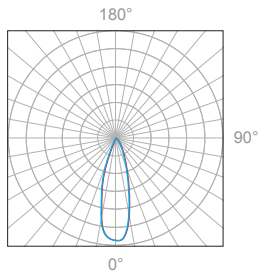


Illuminance at a Distance

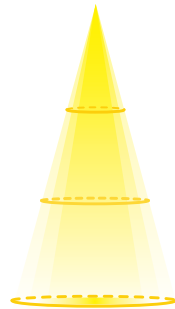
| Distance |       | Center Beam fc | Beam Width |       |       |       |
|----------|-------|----------------|------------|-------|-------|-------|
| 3.0ft    | 0.91m | 1281fc         | 0.4ft      | 0.12m | 0.4ft | 0.12m |
| 6.0ft    | 1.83m | 310fc          | 0.7ft      | 0.21m | 0.8ft | 0.24m |
| 9.0ft    | 2.74m | 135fc          | 1.1ft      | 0.34m | 1.1ft | 0.34m |
| 12.0ft   | 3.66m | 76fc           | 1.5ft      | 0.46m | 1.5ft | 0.46m |
| 15.0ft   | 4.57m | 48fc           | 1.8ft      | 0.55m | 1.9ft | 0.58m |
| 18.0ft   | 5.49m | 33fc           | 2.2ft      | 0.67m | 2.3ft | 0.70m |

Delivered Lumen: 976 lm  
 ■ Vertical Beam Spread: 17.1°  
 ■ Horizontal Beam Spread: 18.1°

Polar Candela Distribution



Beam Width: 30°

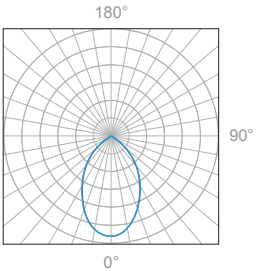


Illuminance at a Distance

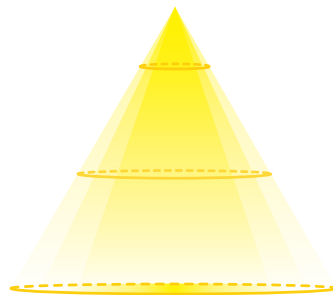
| Distance |       | Center Beam fc | Beam Width |       |       |       |
|----------|-------|----------------|------------|-------|-------|-------|
| 3.0ft    | 0.91m | 412fc          | 0.9ft      | 0.27m | 0.9ft | 0.27m |
| 6.0ft    | 1.83m | 98fc           | 1.7ft      | 0.52m | 1.7ft | 0.52m |
| 9.0ft    | 2.74m | 42fc           | 2.6ft      | 0.79m | 2.6ft | 0.79m |
| 12.0ft   | 3.66m | 24fc           | 3.5ft      | 1.07m | 3.5ft | 1.07m |
| 15.0ft   | 4.57m | 15fc           | 4.4ft      | 1.34m | 4.4ft | 1.34m |
| 18.0ft   | 5.49m | 11fc           | 5.2ft      | 1.58m | 5.2ft | 1.58m |

Delivered Lumen: 983 lm  
 ■ Vertical Beam Spread: 32.5°  
 ■ Horizontal Beam Spread: 32.1°

Polar Candela Distribution



Beam Width: 60°

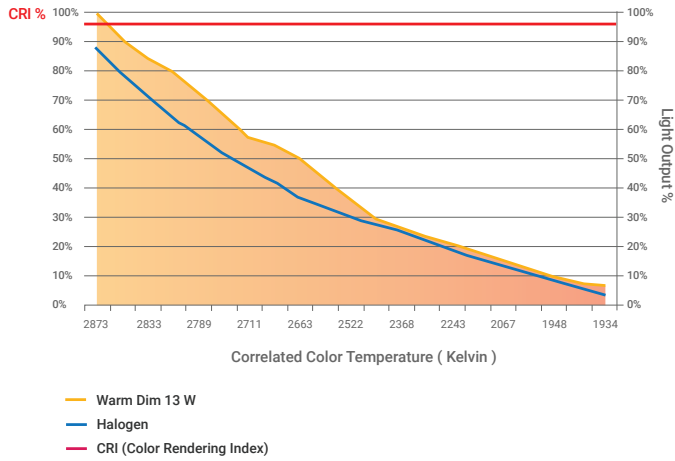


Illuminance at a Distance

| Distance |       | Center Beam fc | Beam Width |       |        |       |
|----------|-------|----------------|------------|-------|--------|-------|
| 3.0ft    | 0.91m | 90.7fc         | 3.5ft      | 1.07m | 3.4ft  | 1.36m |
| 6.0ft    | 1.83m | 22.7fc         | 6.9ft      | 2.10m | 6.9ft  | 2.10m |
| 9.0ft    | 2.74m | 10.1fc         | 10.4ft     | 3.17m | 10.3ft | 3.14m |
| 12.0ft   | 3.66m | 5.67fc         | 13.8ft     | 4.21m | 13.8ft | 4.21m |
| 15.0ft   | 4.57m | 3.63fc         | 17.3ft     | 5.27m | 17.2ft | 5.24m |
| 18.0ft   | 5.49m | 2.52fc         | 20.7ft     | 6.31m | 20.6ft | 6.28m |

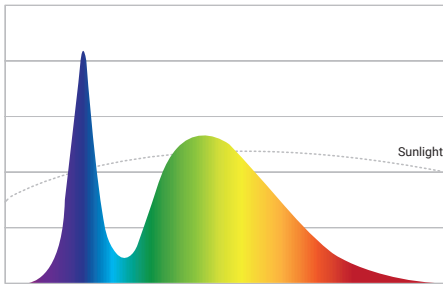
Delivered Lumen: 920 lm  
 ■ Vertical Beam Spread: 59.9°  
 ■ Horizontal Beam Spread: 59.7°

## Warm Dimming VS. Halogen

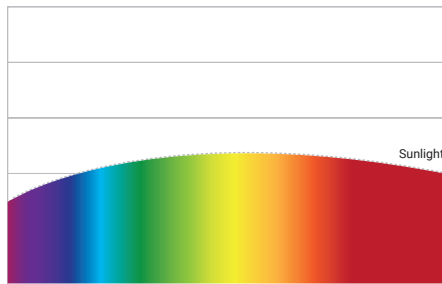


## LED Colour Spectrum Comparison

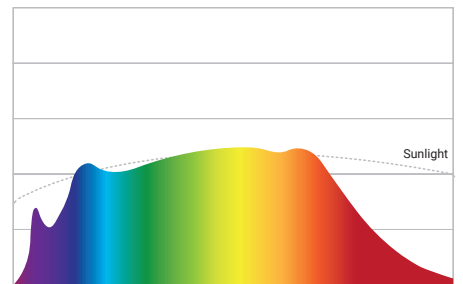
Coventional LED



Sunlight



MP Dimmable Full Spectrum LED

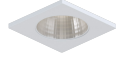


Appendix

Trim Finish (Aluminum) | Trim Shape | Reflector Colour



**WH** white powder coat  
**C** circular  
**S** silver specular



**WH** white powder coat  
**S** square  
**S** silver specular



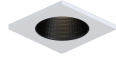
**BK** black powder coat  
**C** circular  
**S** silver specular



**BK** black powder coat  
**S** square  
**S** silver specular



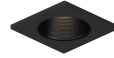
**WH** white powder coat  
**C** circular  
**B** black specular



**WH** white powder coat  
**S** square  
**B** black specular



**BK** black powder coat  
**C** circular  
**B** black specular



**BK** black powder coat  
**S** square  
**B** black specular



**WH** white powder coat  
**C** circular  
**G** gold specular



**WH** white powder coat  
**S** square  
**G** gold specular



**BK** black powder coat  
**C** circular  
**G** gold specular



**BK** black powder coat  
**S** square  
**G** gold specular