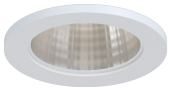
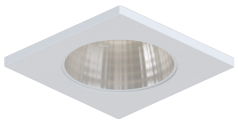
L421

INTERIOR

Recessed Downlight | For ceilings, soffits

- Damp and Dry location





Ordering Information

Clear Form

Date : _____

Project : _____

Type : _____

Quantity : _____

Note : _____

Specifications

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

Product	Mounting	Dimming	Version	CCT & CRI	Beam Angle [2]	Reflector Colour [3]	Trim Shape [3]	Trim Finish [3]
L421			**13**					
	NI non-insulated **R** retrofit driver	**M** MLV dimming (120V) **D** 0-10V dimming (120-277V)	**13** 13W	**W27H** 2700K 90+ CRI **W30H** 3000K 90+ CRI **W35H** 3500K 90+ CRI **W27V** 2700K 97+ CRI **W30V** 3000K 97+ CRI **WD** warm dimming (1800-3000K, 95+ CRI) [1]	**S** spot 15° **N** narrow flood 30° **W** wide flood 60°	**S** silver specular **B** black specular **G** gold specular	**C** circular **S** square [4]	**Aluminum Finishes:** **WH** white powder coated **BK** black powder coated

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. *Spot beam angle for Warm Dimming tested at 20° and Narrow Flood beam angle tested at 35°.*
3. *Refer to Appendix or MP Lighting website for complete look of luminaire with different finish options.*
4. *Square Trim only available with* **N** *(narrow flood, 30°) beam angle.*

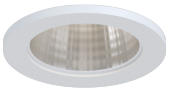
Warranty Notes & Disclaimer

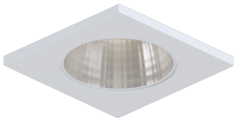
Malfunction and damage to product due to incompatible dimming system or misuse will not be covered under warranty. Consult MP Lighting for recommended drivers. If the fixture has an option to be installed with a dimming control system, consult a dimming system manufacturer with minimum load before installing. 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	16W	1430 lm	1117-1136.9 lm
(WD) 13W	350mA	16W	1430 lm	709.1-721.1 lm

Application

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

Electrical

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

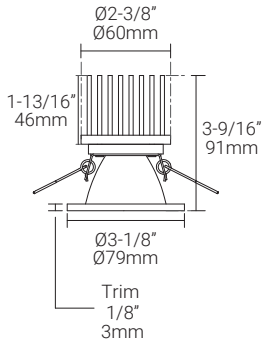
Luminaire Construction

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

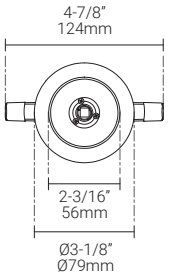
Mounting Options & Dimensions

LED Fixture Dimensions

Fixture



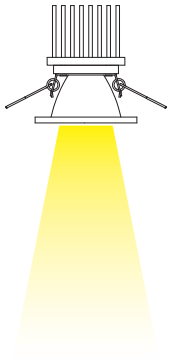
Top View



3D View

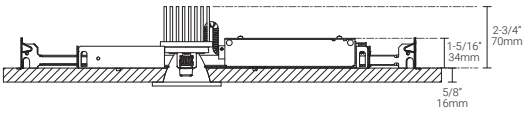


Beam

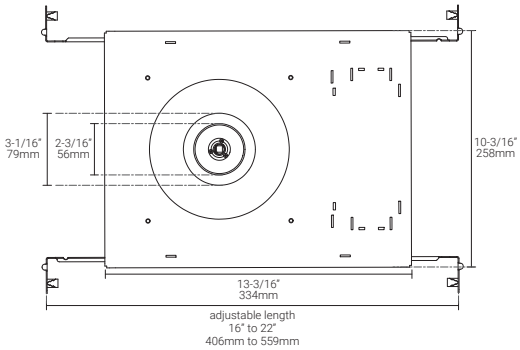


Non-insulated housing with driver

Side View



Bottom View

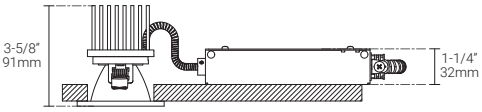


3D View

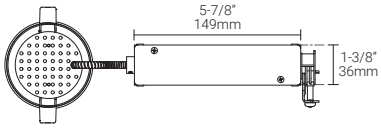


Retrofit housing with driver

Side View



Top View

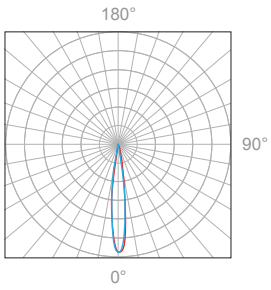


3D View



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

Polar Candela Distribution



Beam Width: 15°



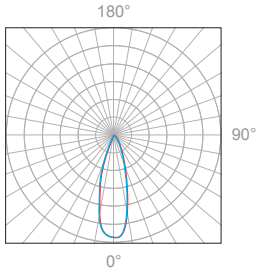
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	974fc	0.8ft	0.24m	0.8ft	0.24m
6.0ft	1.83m	244fc	1.6ft	0.48m	1.6ft	0.48m
9.0ft	2.74m	108fc	2.5ft	0.76m	2.4ft	0.73m
12.0ft	3.66m	60.9fc	3.3ft	1.00m	3.2ft	0.97m
15.0ft	4.57m	39.0fc	4.1ft	1.25m	4.0ft	1.22m
18.0ft	5.49m	27.1fc	4.9ft	1.49m	4.8ft	1.46m

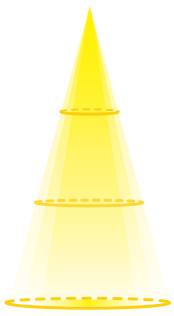
Delivered Lumen: 1117 lm
Vertical Beam Spread: 15.5°
Horizontal Beam Spread: 15.3°

Tested on 07/11/2025

Polar Candela Distribution



Beam Width: 30°



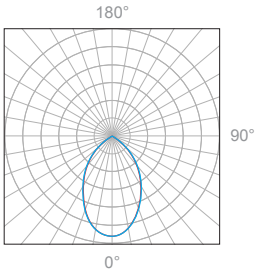
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	407fc	1.5ft	0.45m	1.5ft	0.45m
6.0ft	1.83m	102fc	3.0ft	1.00m	2.9ft	0.97m
9.0ft	2.74m	45.3fc	4.5ft	1.37m	4.4ft	1.34m
12.0ft	3.66m	25.5fc	5.9ft	1.79m	5.9ft	1.79m
15.0ft	4.57m	16.3fc	7.4ft	2.25m	7.3ft	2.22m
18.0ft	5.49m	11.3fc	8.9ft	2.71m	8.8ft	2.68m

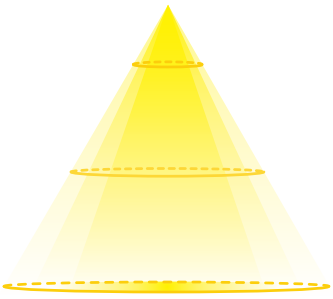
Delivered Lumen: 1136.9 lm
Vertical Beam Spread: 27.8°
Horizontal Beam Spread: 27.4°

Tested on 07/11/2025

Polar Candela Distribution



Beam Width: 60°



Illuminance at a Distance

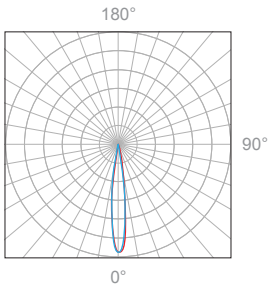
Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	162fc	3.3ft	1.00m	3.3ft	1.00m
6.0ft	1.83m	40.5fc	6.7ft	2.04m	6.6ft	2.01m
9.0ft	2.74m	18.0fc	10.0ft	3.04m	9.9ft	3.01m
12.0ft	3.66m	10.1fc	13.3ft	4.05m	13.1ft	3.99m
15.0ft	4.57m	6.48fc	16.7ft	5.09m	16.4ft	4.99m
18.0ft	5.49m	4.50fc	20.0ft	6.09m	19.7ft	6.00m

Delivered Lumen: 1122.9 lm
Vertical Beam Spread: 58.1°
Horizontal Beam Spread: 57.4°

Tested on 07/11/2025

13W, Warm Dimming, Silver Reflector

Polar Candela Distribution



Beam Width: 20°



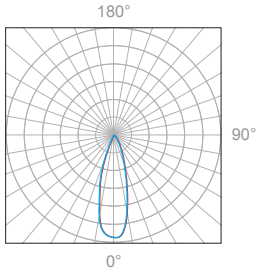
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	413fc	1.0ft	0.31m	1.1ft	0.34m
6.0ft	1.83m	103fc	2.1ft	0.64m	2.3ft	0.70m
9.0ft	2.74m	45.9fc	3.1ft	0.94m	3.2ft	0.97m
12.0ft	3.66m	25.8fc	4.1ft	1.25m	4.2ft	1.28m
15.0ft	4.57m	16.5fc	5.1ft	1.55m	5.3ft	1.61m
18.0ft	5.49m	11.5fc	6.2ft	1.89m	6.3ft	1.92m

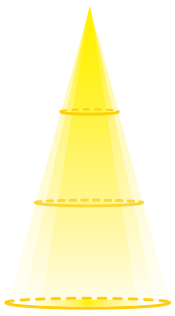
Delivered Lumen: 721.1 lm
Vertical Beam Spread: 19.4°
Horizontal Beam Spread: 19.9°

Tested on 07/11/2025

Polar Candela Distribution



Beam Width: 35°



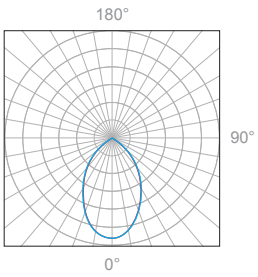
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	165fc	2.0ft	0.61m	1.9ft	0.58m
6.0ft	1.83m	41.2fc	4.1ft	1.25m	3.9ft	1.18m
9.0ft	2.74m	18.3fc	6.1ft	1.86m	5.8ft	1.76m
12.0ft	3.66m	10.3fc	8.2ft	2.50m	7.8ft	2.37m
15.0ft	4.57m	6.60fc	10.2ft	3.11m	9.7ft	2.95m
18.0ft	5.49m	4.58fc	12.3ft	3.75m	11.6ft	3.53m

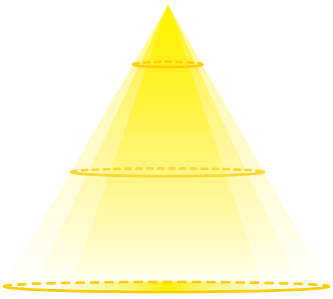
Delivered Lumen: 713.6 lm
Vertical Beam Spread: 37.7°
Horizontal Beam Spread: 35.8°

Tested on 07/11/2025

Polar Candela Distribution



Beam Width: 60°



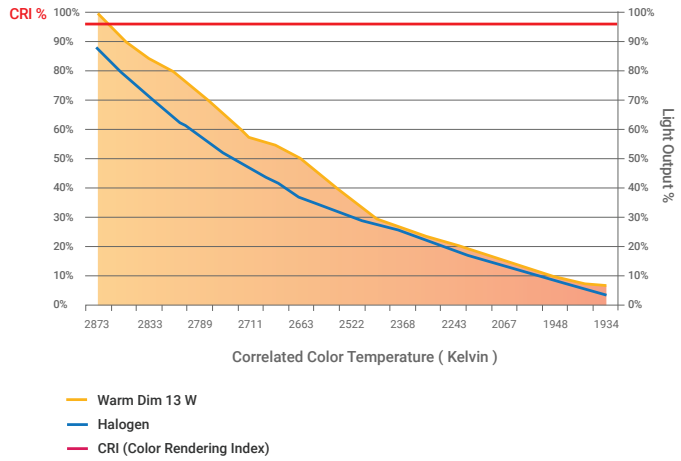
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	81.3fc	3.5ft	1.06m	3.7ft	1.12m
6.0ft	1.83m	20.3fc	6.9ft	2.10m	7.4ft	2.25m
9.0ft	2.74m	9.03fc	10.4ft	3.17m	11.1ft	3.38m
12.0ft	3.66m	5.08fc	13.9ft	4.23m	14.8ft	4.51m
15.0ft	4.57m	3.25fc	17.3ft	5.27m	18.5ft	5.63m
18.0ft	5.49m	2.26fc	20.8ft	6.34m	22.2ft	6.76m

Delivered Lumen: 709.1 lm
Vertical Beam Spread: 60.1°
Horizontal Beam Spread: 63.4°

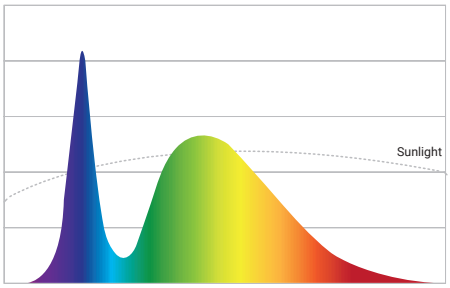
Tested on 07/11/2025

Warm Dimming VS. Halogen

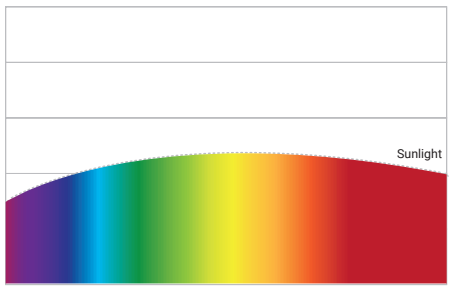


LED Colour Spectrum Comparison

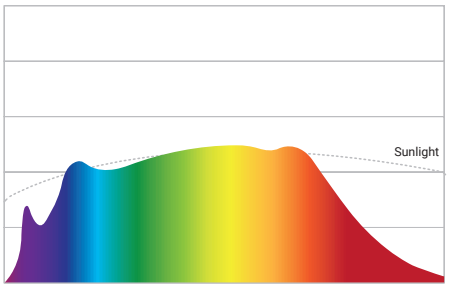
Coventional LED



Sunlight



MP Dimmable Full Spectrum LED

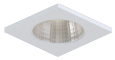


Appendix

Trim Finish (Aluminum) | Trim Shape | Relector Colour



WH white powder coat
C circular
S silver specular



WH white powder coat
S square
S silver specular



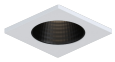
BK black powder coat
C circular
S silver specular



BK black powder coat
S square
S silver specular



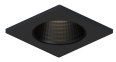
WH white powder coat
C circular
B black specular



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