

# NMW

## M-Wave Can-less Adjustable LED Downlight

Source: 9W or 14W LED

750lm or 1250lm

### PRODUCT DESCRIPTION

M-Wave adjustable downlights are unique and functional. Luminaires extend up to 90° and can be rotated 350° to illuminate any surface. Can-less recessed luminaires require no housing, while maintaining air-tight requirements in IC or Non-IC applications.

### FEATURES

- No housing required - IC Air-Tight rated
- Easy installation for remodel or new construction applications
- 90° Tilt & 350° Rotation
- Quick disconnect allows for extended lengths
- Delivering over 1250lm
- 2700K or 3000K @ 90+ CRI
- Triac or ELV dimming
- 5-year limited warranty
- ENERGY STAR certified
- cETLus Listed for Wet Locations

### SPECIFICATION

**Construction:** Die-cast aluminum trims available in matte black or matte powder white finish. Luminaires include a flood optic, optional field changeable optics are available.

**Air Flow Restriction:** Luminaire restricts airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Clearance:** IC rated luminaires are rated for direct contact with insulation (not spray foam insulation), no minimum clearance is required.

**Junction Box:** Prewired junction box includes quick connect to LED fixtures for ease of installation. Junction box includes two 1/2" trade size knockouts and snap on cover with 18" quick connect wire. Luminaire includes 6" quick connect wire.

**Mounting:** No housing is required, two tensions steel spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 5/8". New construction frame-in is available, see accessories.

**Optics:** Luminaires include a flood optic installed. Replacement optics (spot or narrow flood) can be ordered separately and installed in the field without any tools.

### ELECTRICAL

**Input Voltage:** 120VAC

**Lumens / Wattage:** 750lm / 9W or 1250lm / 14W

**Color Temperature:** 2700K or 3000K

**Color Rendering Index:** 90+ CRI

**Operating Temperature:** 0-35°C

**Dimming:** Triac or ELV

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

### OPTIONAL FIELD CHANGEABLE OPTICS

**NMWA-2OPTSP:** Spot Optic for NMW-2

**NMWA-2OPTNFL:** Narrow Flood Optic for NMW-2

**NMWA-4OPTSP:** Spot Optic for NMW-4

**NMWA-4OPTNFL:** Narrow Flood Optic for NMW-4

### OPTIONAL MOUNTING ACCESSORIES

**NF-R124:** New Construction Frame-In for NMW-4

**NCA-EW-4:** 4' Quick Connect Linkable Extension Cable

**NCA-EW-10:** 10' Quick Connect Linkable Extension Cable

### LABELS AND LISTINGS

- cULus Listed for Wet Locations
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- FCC compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022



Type

Project

Catalog No.

Notes

### Performance Data

Part Number	Spot	NFL	Flood	CCT
<b>NMW-230MPW</b>	745lm	787lm	775lm	3000K
<b>NMW-430MPW</b>	1310lm	1276lm	1274lm	3000K

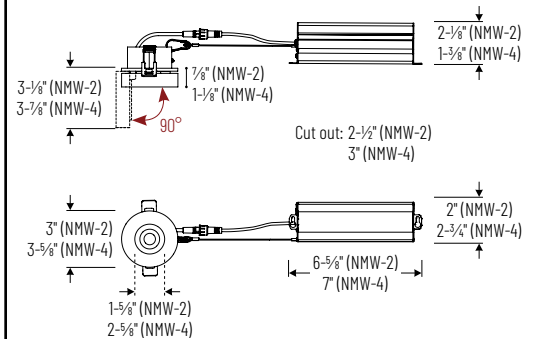
*Delivered lumens will vary depending on CCT and finish*

### PRODUCT IMAGES AND DIMENSIONS



**NMW-2**  
2" Adjustable  
750lm

**NMW-4**  
4" Adjustable  
1250lm



**NMWA-2OPT**  
Replacement Optic  
for NMW-2



**NMWA-4OPT**  
Replacement Optic  
for NMW-4

## M-Wave Can-less Adjustable LED Downlight

Aperture Size	Color Temperature / CRI	Finish
<b>NMW-2</b> = 2" M-Wave	<b>27</b> = 2700K / 90 CRI	<b>B</b> = Matte Black
<b>NMW-4</b> = 4" M-Wave	<b>30</b> = 3000K / 90 CRI	<b>MPW</b> = Matte Powder White

## Optional Mounting Accessories

### Accessory Type

**NF-R124** = New Construction Frame-In for NMW-4

**NCA-EW-4** = 4' Quick Connect Extension Cable

**NCA-EW-10** = 10' Quick Connect Extension Cable

**NMWA-2OPTSP** = Spot Optic for NMW-2

**NMWA-2OPTNFL** = Narrow Flood Optic for NMW-2

**NMWA-4OPTSP** = Spot Optic for NMW-4

**NMWA-4OPTNFL** = Narrow Flood Optic for NMW-4

Example: **NMW-230MPW** = 2" M-Wave Can-less Adjustable LED Downlight, 750lm / 9W, 3000K, Matte Powder White

# PHOTOMETRICS

## 2" M-Wave Can-less Adjustable LED Downlight

Type

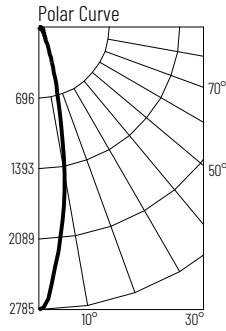
Project

Catalog No.

Notes

### Test Information

Test Number: NTR2018R1  
 Part Number: NMW-230MPW  
 Beam Spread: 21° Spot  
 Lumens: 745lm  
 Wattage: 9.29W  
 Efficacy: 80lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.36  
 Spacing Criteria (90°-270°): 0.36



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	174fc	1'-6"
6'	77.4fc	2'-2"
8'	43.5fc	3'
10'	27.9fc	3'-8"
12'	19.3fc	4'-5"

### Zonal Lumen Summary

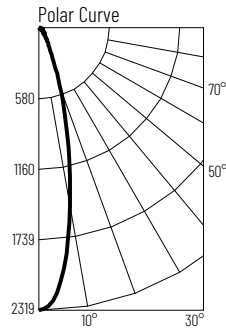
Zone	Lumens	% Luminaire
0-30	522	70.2
0-40	589	79.1
0-60	685	92
0-90	745	100
90-180	0	0
0-180	745	100

### Candela Table

Vertical Angles	Candela
0	2785
5	2225
15	764
25	223
35	102
45	71

### Test Information

Test Number: NTR2017R1  
 Part Number: NMW-230MPW  
 Beam Spread: 26° Narrow Flood  
 Lumens: 787lm  
 Wattage: 9.31W  
 Efficacy: 84lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.44  
 Spacing Criteria (90°-270°): 0.44



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	145fc	1'-10"
6'	64.4fc	2'-10"
8'	36.2fc	3'-8"
10'	23.2fc	4'-7"
12'	16.1fc	5'-6"

### Zonal Lumen Summary

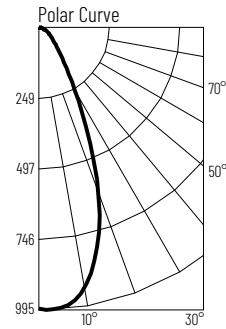
Zone	Lumens	% Luminaire
0-30	571	72.6
0-40	643	81.8
0-60	735	93.4
0-90	787	100
90-180	0	0
0-180	787	100

### Candela Table

Vertical Angles	Candela
0	2318
5	2119
15	931
25	266
35	109
45	65

### Test Information

Test Number: NTR2016R1  
 Part Number: NMW-230MPW  
 Beam Spread: 45° Flood  
 Lumens: 775lm  
 Wattage: 9.32W  
 Efficacy: 83lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.74  
 Spacing Criteria (90°-270°): 0.76



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	61.9fc	3'-4"
6'	27.5fc	5'
8'	15.5fc	6'-8"
10'	9.9fc	8'-4"
12'	6.9fc	10'

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	501	64
0-40	610	78
0-60	725	92.7
0-90	782	100
90-180	0	0
0-180	782	100

### Candela Table

Vertical Angles	Candela
0	990
5	978
15	792
25	409
35	167
45	87

### Lumen Output Multipliers

Color Temperature: 2700K (0.96), 3000K (1.00)

# PHOTOMETRICS

## 4" M-Wave Can-less Adjustable LED Downlight

Type

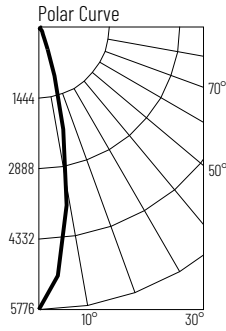
Project

Catalog No.

Notes

### Test Information

Test Number: NTR2030R1  
 Part Number: NMW-430MPW  
 Beam Spread: 23° Spot  
 Lumens: 1310lm  
 Wattage: 13.86W  
 Efficacy: 95lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.4  
 Spacing Criteria (90°-270°): 0.4



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	361fc	1'-7"
6'	160fc	2'-5"
8'	90.2fc	3'-2"
10'	57.8fc	4'
12'	40.1fc	4'-10"

### Zonal Lumen Summary

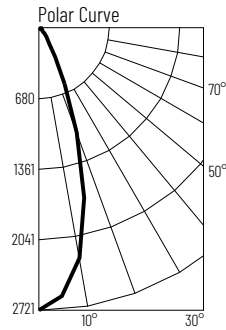
Zone	Lumens	% Luminaire
0-30	1063	81.2
0-40	1155	88.1
0-60	1262	96.4
0-90	1310	100
90-180	0	0
0-180	1310	100

### Candela Table

Vertical Angles	Candela
0	5776
5	4937
15	1776
25	367
35	129
45	65

### Test Information

Test Number: NTR2029R1  
 Part Number: NMW-430MPW  
 Beam Spread: 35° Narrow Flood  
 Lumens: 1276lm  
 Wattage: 13.85W  
 Efficacy: 92lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.6  
 Spacing Criteria (90°-270°): 0.6



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	170fc	2'-7"
6'	75.6fc	3'-10"
8'	42.5fc	5'-1"
10'	27.2fc	6'-5"
12'	18.9fc	7'-8"

### Zonal Lumen Summary

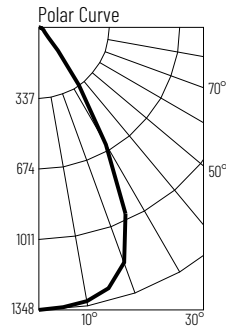
Zone	Lumens	% Luminaire
0-30	995	78
0-40	1118	87.6
0-60	1220	95.6
0-90	1276	100
90-180	0	0
0-180	1276	100

### Candela Table

Vertical Angles	Candela
0	2721
5	2595
15	1692
25	597
35	180
45	74

### Test Information

Test Number: NTR2028R1  
 Part Number: NMW-430MPW  
 Beam Spread: 59° Flood  
 Lumens: 1274lm  
 Wattage: 13.87W  
 Efficacy: 92lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.98  
 Spacing Criteria (90°-270°): 0.98



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	84.2fc	4'-6"
6'	37.4fc	6'-10"
8'	21.1fc	9'-1"
10'	13.5fc	11'-4"
12'	9.4fc	13'-7"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	920	72.2
0-40	1142	89.6
0-60	1231	96.7
0-90	1274	100
90-180	0	0
0-180	1274	100

### Candela Table

Vertical Angles	Candela
0	1348
5	1340
15	1290
25	979
35	334
45	67

### Lumen Output Multipliers

Color Temperature: 2700K (0.98), 3000K (1.00)