

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 narrow flood optic installed. Replacement optics (narrow spot or spot) 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 in the "Compatibility" page under "Resources" tab

OPTIONAL FIELD CHANGEABLE OPTICS

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

NMWA-2OPTNFL: Spot Optic for NMW-2

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

NMWA-4OPTNFL: Spot 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	Narrow	Spot	Flood	CCT
NMW-230MPW	745lm	787lm	775lm	3000K
NMW-430MPW	1310lm	1276lm	1274lm	3000K

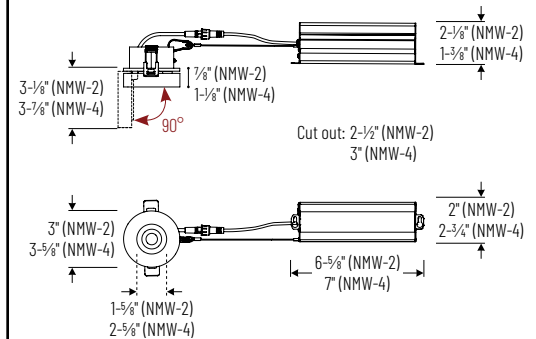
Delivered lumens will vary depending on CCT and finish

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
NMW-2 = 2" M-Wave	27 = 2700K / 90 CRI	B = Matte Black
NMW-4 = 4" M-Wave	30 = 3000K / 90 CRI	MPW = 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 = Narrow Spot Optic for NMW-2

NMWA-2OPTNFL = Spot Optic for NMW-2

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

NMWA-4OPTNFL = Spot 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

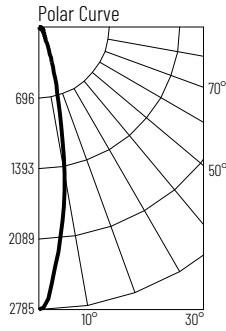
Project

Catalog No.

Notes

Test Information

Test Number: NTR2018R1
 Part Number: NMW-230MPW
 Beam Spread: 21° Narrow 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

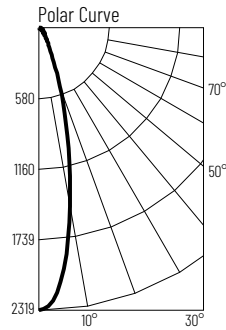
Zone	Lumens	% Luminaire
0-30	522	70.2
0-40	589	79.1
0-60	685	92
0-90	745	100
90-180	0	0
0-180	745	100

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° Spot
 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

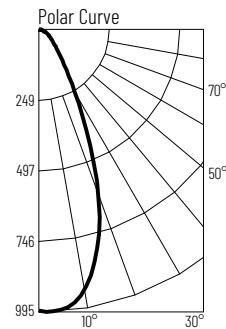
Zone	Lumens	% Luminaire
0-30	571	72.6
0-40	643	81.8
0-60	735	93.4
0-90	787	100
90-180	0	0
0-180	787	100

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° Narrow 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

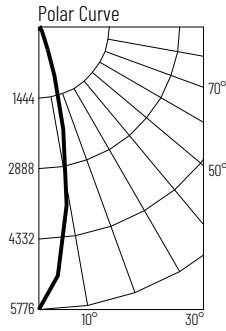
Project

Catalog No.

Notes

Test Information

Test Number: NTR2030R1
 Part Number: NMW-430MPW
 Beam Spread: 23° Narrow 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

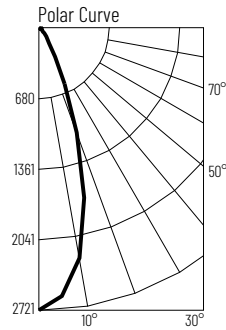
Zone	Lumens	% Luminaire
0-30	1063	81.2
0-40	1155	88.1
0-60	1262	96.4
0-90	1310	100
90-180	0	0
0-180	1310	100

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° Spot
 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

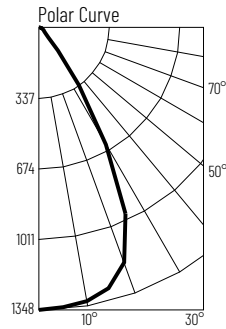
Zone	Lumens	% Luminaire
0-30	995	78
0-40	1118	87.6
0-60	1220	95.6
0-90	1276	100
90-180	0	0
0-180	1276	100

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° Narrow 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)