

NM2-2RDC

2" M2 Round LED Recessed Downlight

Source: 6W, 8W or 10W LED

400lm, 600lm or 850lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

M2 downlight series features quality and convenience with easy installation for insulated or non-insulated applications. Luminaires can be configured into multiple options with trim accessories and produces over 850 lumens.

FEATURES

- No housing required - IC Air-Tight rated
- Easy installation for remodel or new construction applications
- Variety of trim accessories to configure desired appearance
- Quick disconnect allows for extended lengths
- 400lm, 600lm or 850lm LED packages
- 2700K, 3000K or 4000K @ 90+ CRI
- Triac or ELV dimming
- 5-year limited warranty
- cETLus Listed for Wet Locations

SPECIFICATION

Construction: Die-cast aluminum trims available in matte black or matte powder white finish. Open downlight includes a reflector with the same finish as trim; optional field changeable accessories are available; square trim, pinhole trim, wall wash trim, reflector inserts or baffle inserts.

Air Flow Restriction: Luminaire has factory installed gasket to restrict 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 (400lm/600lm) or four (850lm) 1/2" trade size knockouts and snap on cover with 7" quick connect wire. Luminaire includes 5" (400lm/600lm) or 4" (850lm) quick connect wire.

Maximum length between luminaire and driver is 40'. For longer remote driver remote run length, consult factory.

Mounting: No housing is required, two tensions steel spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 3/4". New construction frame-in kits are available, see accessories.

Trims: M2 series is available in three lumen outputs with LED driver. Round trims can be converted to baffles, pinholes or wall wash in the field with optional trims and inserts.

ELECTRICAL	40	60	85
Input Voltage	120V		
Input Power	6W	8W	10W
Color Temperature	2700K or 3000K	2700K, 3000K, 4000K	
CRI	90+ CRI		
Dimming	Triac / ELV		
Operating Temp.	40°C max.		25°C max.
Beam Spread	36° Flood		
Lifetime	60,000 hours @ L70		

OPTIONAL TRIM ACCESSORIES

NM2-2REFL: Reflector Insert for NM2-2RDC, Black or Haze
NM2-2BAF: Baffle Insert for NM2-2RDC, Black or White
NM2-2RPH: Round Pinhole Trim for NM2-2RDC, Black or White
NM2-2RW: Round Wall Wash Trim for NM2-2RDC, Black or White
NM2-2SDT: Square Trim for NM2-2RDC, Black or White

OPTIONAL MOUNTING ACCESSORIES

NM2-MLS1: One Head Multiple Lighting System Plate
NM2-MLS2: Two Head Multiple Lighting System Plate
NM2-MLS3: Three Head Multiple Lighting System Plate
NF-R246: Universal New Construction Frame-In
NFC-R275: New Construction Frame-In with Collar
NM2-EW-4: 4' Quick Connect Linkable Extension Cable
NM2-EW-10: 10' Quick Connect Linkable Extension Cable
NEPK-23LEDUNV: 23W Emergency with Remote Test Switch
NEPKA-20/23LEDRTS: Ribbon Test Switch for NEPK-23LEDUNV

Emergency: Luminaire is compatible with NEPK-23LEDUNV (ordered separately). Remote mounted battery operates luminaire for 90 minute emergency operation with a fully charged battery. Emergency includes remote test switch, ribbon test switch accessory (NEPKA-20/23LEDRTS) ordered separately.

LABELS AND LISTINGS

- cETLus Listed for Wet Locations
- 5-Year Limited Warranty
- FCC compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022

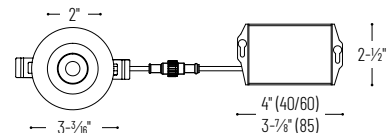
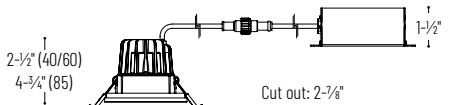


PRODUCT IMAGES AND DIMENSIONS



NM2-2RDCXXBB
400lm or 600lm
Matte Black

NM2-2RDC85XXMPW
850lm
Matte Powder White



NM2-2REFL
Reflector Insert

NM2-2BAF
Baffle Insert



NM2-2RPH
Round Pinhole Trim

NM2-2RW
Round Wall Wash Trim



NM2-2SDT
Square Trim

NM2-EW
Extension Cables

2" M2 Round LED Recessed Downlight

Lumens / Wattage	Color Temperature	Finish
NM2-2RDC40 = 400lm / 6W	27 = 2700K	BB = Matte Black
	30 = 3000K	MPW = Matte Powder White
NM2-2RDC60 = 600lm / 8W	27 = 2700K	BB = Matte Black
	30 = 3000K	MPW = Matte Powder White
NM2-2RDC85 ¹ = 850lm / 10W	30 = 3000K	MPW = Matte Powder White
	40 = 4000K	

Note:

¹ 4000K only available in Matte Black

M2 Trim Accessories

Accessory Type	Finish
NM2-2REFL = Reflector for NM2-2RDC	B = Matte Black HZ = Haze
NM2-2BAF = Baffle for NM2-2RDC	B = Matte Black
NM2-2RPH = Round Pinhole Trim for NM2-2RDC	MPW = Matte Powder White
NM2-2RW = Round Wall Wash Trim for NM2-2RDC	
NM2-2SDT = Square Trim for NM2-2RDC	

Optional Mounting Accessories

Accessory Type	Finish
NM2-MLS1 = One Head MLS Plate	BB = Matte Black
NM2-MLS2 = Two Head MLS Plate	MPW = Matte Powder White
NM2-MLS3 = Three Head MLS Plate	
NF-R246 = Universal New Construction Frame-In	
NFC-R275 = New Construction Frame-In with Collar	
NM2-EW-4 = 4' Quick Connect Extension Cable	
NM2-EW-10 = 10' Quick Connect Extension Cable	
NEPK-23LEDUNV = 23W Emergency LED Driver w/ Remote Test Switch	
NEPKA-20/23LEDRTS = Ribbon Test Switch for NEPK-23LEDUNV	

Example: **NM2-2RDC6030MPW** = 2" M2 Round LED Recessed Downlight, 600lm / 8W, 3000K, Matte Powder White

NM2-2RDC

2" M2 Round LED Recessed Downlight Accessories

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Reflector/Baffle Insert for NM2-2RDC

NM2-2REFLB

Matte Black Reflector

NM2-2REFLHZ

Haze Reflector

NM2-2BAFB

Matte Black Baffle

NM2-2BAFMPW

Matte Powder White Baffle

Replaces the reflector included with NM2-2RDC downlight



Multiple Lighting System Plates

NM2-MLS1B

1 Head / Matte Black

NM2-MLS1MPW

1 Head / Matte Powder White

NM2-MLS2B

2 Head / Matte Black

NM2-MLS2MPW

2 Head / Matte Powder White

NM2-MLS3B

3 Head / Matte Black

NM2-MLS3MPW

3 Head / Matte Powder White

Converts multiple round LED luminaires into multiple lighting system without a large housing.



Square Trim for NM2-2RDC

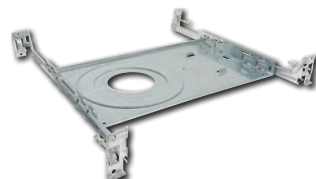
NM2-2SDTB

Matte Black

NM2-2SDTMPW

Matte Powder White

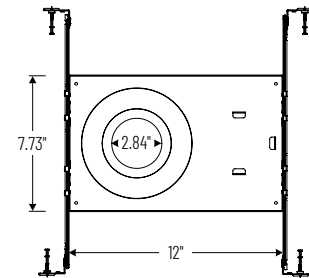
Converts the round trim included with NM2-2RDC downlight into a square trim



Universal New Construction Frame-In

NF-R246

Universal new construction frame-in can be used to assist installing can-less recessed downlighting.



Round Pinhole Trim for NM2-2RDC

NM2-2RPHB

Matte Black

NM2-2RPHMPW

Matte Powder White

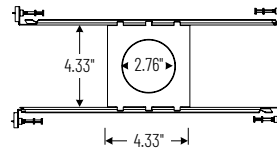
Converts the round trim included with NM2-2RDC downlight into a round pinhole



New Construction Frame-In with Collar

NFC-R275

New construction frame-in can be used to assist installing can-less recessed downlighting.



Round Wall Wash Trim for NM2-2RDC

NM2-2RWB

Matte Black

NM2-2RWMPW

Matte Powder White

Converts the round trim included with NM2-2RDC downlight into a round wall wash



Quick Connect Extension Linkable Cables

NM2-EW-4

4' Cable

NM2-EW-10

10' Cable

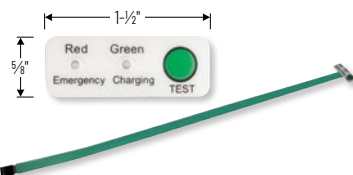
Use to extend the length between luminaire and driver enclosure. Can be connected together to create custom lengths. Maximum length between luminaire and driver is 40'. For longer remote driver remote run length, consult factory.



23W Emergency LED Driver with Remote Test Switch

NEPK-23LEDUNV

120-277V. Emergency battery operates luminaire for 90 minute emergency operation with a fully charged battery. Requires 24 hours to charge the battery.



Ribbon Test Switch for NEPK-23LEDUNV

NEPKA-20/23LEDRTS

Ribbon test switch replaces remote test switch included with emergency driver. Double sided tape is pre-installed.

NM2-2RDC

2" M2 Round LED Recessed Downlight Accessories

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Luminaire Examples



PHOTOMETRICS

2" M2 Round LED Recessed Downlight

Type

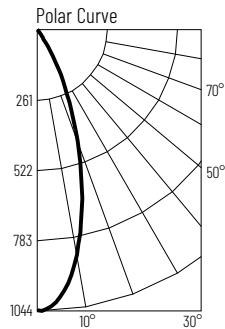
Project

Catalog No.

Notes

Test Information

Test Number: NTR11363
Part Number: NM2-2RDC4027MPW
Beam Spread: 36° Flood
Lumens: 445lm
Wattage: 6.2W
Efficacy: 72lpw
CCT / CRI: 2700K / 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
2'	261fc	1'-4"
4'	65.3fc	2'-7"
6'	29fc	3'-11"
8'	16.3fc	5'-2"
10'	10.4fc	6'-6"

Zonal Lumen Summary

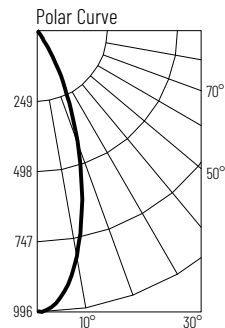
Zone	Lumens	% Luminaire
0-30	387	86.8
0-40	418	93.7
0-60	436	97.9
0-90	443	99.6
90-180	2	0.4
0-180	445	100

Candela Table

Vertical Angles	Candela
0	1044
5	993
15	645
25	264
35	42
45	14

Test Information

Test Number: NTR11350
Part Number: NM2-2RDC4030MPW
Beam Spread: 37° Flood
Lumens: 464lm
Wattage: 6.23W
Efficacy: 75lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.62



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
2'	248fc	1'-4"
4'	61.9fc	2'-8"
6'	27.5fc	4'
8'	15.5fc	5'-5"
10'	9.9fc	6'-8"

Zonal Lumen Summary

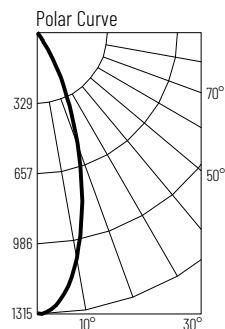
Zone	Lumens	% Luminaire
0-30	393	84.7
0-40	434	93.5
0-60	455	98
0-90	464	99.9
90-180	1	0.1
0-180	464	100

Candela Table

Vertical Angles	Candela
0	990
5	950
15	639
25	272
35	51
45	15

Test Information

Test Number: NTR11351
Part Number: NM2-2RDC6027MPW
Beam Spread: 37° Flood
Lumens: 594lm
Wattage: 7.8W
Efficacy: 76lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.6



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
2'	327fc	1'-4"
4'	81.9fc	2'-8"
6'	36.4fc	4'
8'	20.5fc	5'-5"
10'	13.1fc	6'-8"

Zonal Lumen Summary

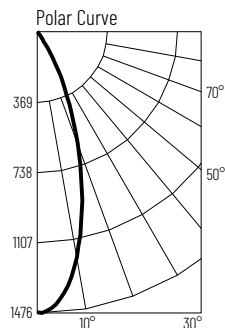
Zone	Lumens	% Luminaire
0-30	505	85
0-40	557	93.7
0-60	582	97.9
0-90	593	99.8
90-180	1	0.2
0-180	594	100

Candela Table

Vertical Angles	Candela
0	1310
5	1251
15	847
25	359
35	85
45	19

Test Information

Test Number: NTR11351
Part Number: NM2-2RDC6030MPW
Beam Spread: 36° Flood
Lumens: 641lm
Wattage: 8.1W
Efficacy: 79lpw
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
2'	368fc	1'-4"
4'	92.1fc	2'-7"
6'	40.9fc	3'-11"
8'	23fc	5'-2"
10'	14.7fc	6'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	547	85.4
0-40	597	93.2
0-60	626	97.8
0-90	639	99.8
90-180	1	0.2
0-180	641	100

Candela Table

Vertical Angles	Candela
0	1473
5	1403
15	909
25	372
35	67
45	21

PHOTOMETRICS

2" M2 Round LED Recessed Downlight

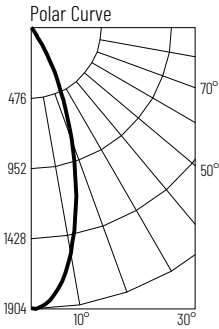
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Notes

Test Information
Test Number: NTR1431
Part Number: NM2-2RDC8530MPW
Beam Spread: 38° Flood
Lumens: 882lm
Wattage: 10.18W
Efficacy: 87lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.62



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
2'	476fc	1'-5"
4'	119fc	2'-8"
6'	52.9fc	4'-1"
8'	29.7fc	5'-6"
10'	19fc	6'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	757	85.9
0-40	824	93.4
0-60	864	98
0-90	880	99.8
90-180	2	0.2
0-180	882	100

Candela Table

Vertical Angles	Candela
0	1904
5	1824
15	1246
25	540
35	88
45	27