NM2-2R270

2" M2 Round LED Recessed Elbow
Source: 6W LED
         500lm

Type	
Project	
Catalog No.	
Notes	

PRODUCT DESCRIPTION
M2 downlight series features quality and convenience with easy installation for insulated or non-insulated applications. Luminaire can be configured into square trim with an accessory and produces over 500 lumens.

FEATURES
· Field changeable optics (spot and narrow flood included)
· No housing required - IC Air-Tight rated
· Easy installation for remodel or new construction applications
· Square trim available for an alternative appearance
· Quick disconnect allows for extended lengths
· 2700K or 3000K @ 90+ CRI
· Triac or ELV dimming
· 5-year limited warranty
· ENERGY STAR certified
· cETLus Listed for Damp Locations

SPECIFICATION
Construction: Die-cast aluminum trims available in matte black or matte powder white finish. Rotates 345° horizontally and extends up to 70°.

Field Changeable Optics: Each luminaire includes a spot (installed) and narrow flood optic. Optics can easily be replaced in the field.

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 1/2" trade size knockouts and snap on cover with 7" connector length. 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 3/4". New construction frame-in kit is available, see accessories.

ELECTRICAL
Input Voltage: 120V
Lumens / Wattage: 500lm / 6W
Color Temperature: 2700K or 3000K
CRI: 90+CRI
Beam Spread: 33° Spot and 48° Narrow Flood
Operating Temp.: 0°C to 40°C ambient temperature
Lifetime: 33,000 hours @ L70
Dimming: Dimmable down to 10% with Triac or ELV
Click Here or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

OPTIONAL TRIM ACCESSORY
NM2-2SET: Square Trim for NM2-2R270, 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
NM2-2R-F: New Construction Frame-In Plate
NM2-EW-4: 4' Quick Connect Linkable Extension Cable
NM2-EW-10: 10' Quick Connect Linkable Extension Cable

LABELS AND LISTINGS
· cETLus Listed for Damp Locations
· ENERGY STAR certified
· 5-Year Limited Warranty
· FCC compliant
· Certified to the high efficacy requirements of California Title 24 JA8-2019

PRODUCT IMAGES AND DIMENSIONS

NM2-2R270
Matte Powder White
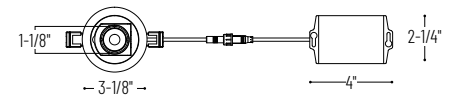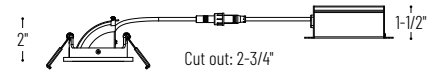
NM2-2R270 + NM2-2SET
Matte Powder White

NM2-2R270
Matte Black

NM2-2R270 + NM2-2SET
Matte Black

2" | 1-1/2" | Cut out: 2-3/4"

1-1/8" | 3-1/8" | 2-1/4" | 4"

NM2-2SET
Square Trim

2" M2 Round LED Recessed Elbow

Trim Type	Lumens / Wattage	Color Temperature / CRI	Finish
NM2-2R270 = 2" Round Elbow	**50** = 500lm / 6W	**27** = 2700K / 90 CRI **30** = 3000K / 90 CRI	**BB** = Matte Black **MPW** = Matte Powder White

M2 Trim Accessory

Accessory Type	Finish
NM2-2SET = Square Trim for NM2-2R270	**B** = Matte Black **MPW** = Matte Powder White

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	
NM2-2R-F = New Construction Frame-In Plate	
NM2-EW-4 = 4' Quick Connect Extension Cable	
NM2-EW-10 = 10' Quick Connect Extension Cable	

Example: **NM2-2R2705030MPW** = 2" M2 Round LED Recessed Elbow, 500lm / 6W, 3000K / 90 CRI, Matte Powder White

NM2-2R270
2" M2 Round LED Recessed Elbow Accessories


Square Trim for NM2-2R270

NM2-2SETB   Matte Black
NM2-2SETMPW   Matte Powder White
Converts the round trim included with
NM2-2R270 elbow into a square trim

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.
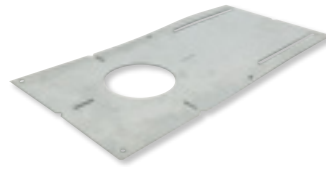
New Construction Frame-In Plate

NM2-2R-F
For new construction pre-wiring and easier layout
planning.
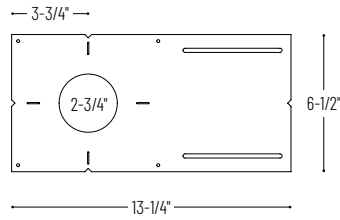
Quick Connect Extension Linkable Cables

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'.

3-3/4"

2-3/4"

6-1/2"

13-1/4"

PHOTOMETRICS
2" M2 Round LED Recessed Elbow
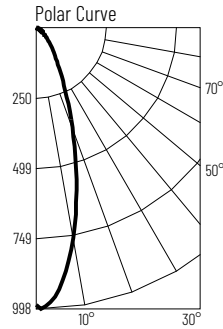
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Test Information

Test Number: NTR1571
Part Number: NM2-2R2705027MPW
Beam Spread: 33° Spot
Lumens: 513lm
Wattage: 5.68W
Efficacy: 90lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0º–180): 0.56
Spacing Criteria (90º–270): 0.56

Polar Curve

Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
2'	246fc	1'-2"
4'	61.6fc	2'-5"
6'	27.4fc	3'-7"
8'	15.4fc	4'-10"
10'	9.9fc	6'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	347	67.6
0-40	417	81.2
0-60	489	95.3
0-90	513	99.9
90-180	1	0.1
0-180	513	100

Candela Table

Vertical Angles	Candela
0	985
5	913
15	552
25	240
35	105
45	56

Test Information

Test Number: NTR1570
Part Number: NM2-2R2705027MPW
Beam Spread: 48° Narrow Flood
Lumens: 514lm
Wattage: 5.66W
Efficacy: 91lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0º–180): 0.78
Spacing Criteria (90º–270): 0.8

Polar Curve
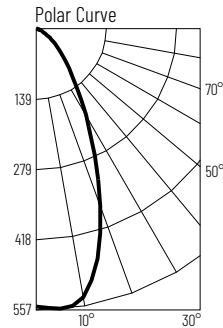
Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
2'	138fc	1'-10"
4'	34.4fc	3'-6"
6'	15.3fc	5'-4"
8'	8.6fc	7'-1"
10'	5.5fc	8'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	304	59.2
0-40	393	76.4
0-60	487	94.6
0-90	514	99.9
90-180	1	0.1
0-180	514	100

Candela Table

Vertical Angles	Candela
0	551
5	549
15	455
25	266
35	138
45	74

Test Information

Test Number: NTR1573
Part Number: NM2-2R2705027MPW
Beam Spread: 33° Spot
Lumens: 565lm
Wattage: 5.66W
Efficacy: 100lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.56
Spacing Criteria (90º–270): 0.56

Polar Curve
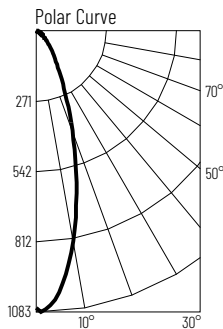
Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
2'	271fc	1'-2"
4'	67.7fc	2'-5"
6'	30.1fc	3'-7"
8'	16.9fc	4'-10"
10'	10.8fc	6'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	387	68.5
0-40	454	80.4
0-60	537	95.1
0-90	564	99.9
90-180	1	0.1
0-180	565	100

Candela Table

Vertical Angles	Candela
0	1083
5	1006
15	612
25	274
35	114
45	59

Test Information

Test Number: NTR1572
Part Number: NM2-2R2705027MPW
Beam Spread: 49° Narrow Flood
Lumens: 561lm
Wattage: 5.66W
Efficacy: 99lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.78
Spacing Criteria (90º–270): 0.8

Polar Curve
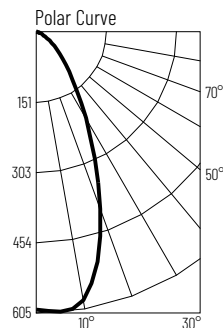
Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
2'	149fc	1'-10"
4'	37.3fc	3'-7"
6'	16.6fc	5'-5"
8'	9.3fc	7'-2"
10'	6fc	9'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	332	59.2
0-40	429	76.4
0-60	530	94.6
0-90	560	99.9
90-180	1	0.1
0-180	561	100

Candela Table

Vertical Angles	Candela
0	598
5	601
15	500
25	291
35	150
45	81