

NFRC-R4W1TW / NFRC-R6W1TW

4" & 6" Fire Rated Can-less Flat LED Downlight with Selectable CCT

Listed to UL 263 and ASTM E119 for 2-Hour Fire Rating

Source: 12W or 15W
1200lm or 1550lm

PRODUCT DESCRIPTION

Fire-rated can-less recessed LED downlights are ETL listed, tested and certified to UL 263 & ASTM E119 for 2-hour fire rating. Wafer design allows luminaires to be installed in shallow plenums and includes a selectable five color temperature switch. Multi-piece construction provides an extra layer of protection to prevent the spread of fire above the ceiling within a two-hour rating.

FEATURES

- ETL Listed and Certified to UL 263 & ASTM E119 for 2-Hour Fire Rating
- Multi-piece construction provides an extra layer of protection and prevents the spread of fire
- No housing required - IC Air-Tight rated
- Easy installation for remodel or new construction applications
- Quick disconnect for easy installation and wiring
- Delivering up to 1550 lumens
- Five color temperatures in each fixture (2700K / 3000K / 3500K / 4000K / 5000K)
- 120V input; Triac or ELV dimming
- 5-year limited warranty
- cETLus Listed for Wet Locations

SPECIFICATION

Construction: Steel construction with powder coated finish. Luminaire with spring clips for easy installation. Gasket included for air-tight and wet location listing without additional caulking.

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

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

Junction Box: Pre-wired 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 6" quick connect wire. Luminaire includes 10" quick connect wire. Maximum of 4 No. 12 AWG through branch circuit conductor suitable for 75°C permitted in box.

Mounting: No housing is required, two tensions steel spring clips secure luminaire to ceiling. Accommodates ceiling thicknesses from 1/2" to 1-1/2". Listed for use in two hour fire-rated ceilings.

ELECTRICAL

Input Voltage: 120VAC
Lumens / Wattage: 1200lm / 12W or 1550lm / 15W
Color Temperature: Selectable CCT: 2700K / 3000K / 3500K / 4000K / 5000K (Note: Preset to 3000K)
Color Rendering Index: 90+ CRI
Beam Spread: 110° Wide Flood
Operating Temperature: 0-25°C
Dimming: Dimmable down to 10% with phase (Triac or ELV dimmer)
[Click Here](#) or check complete dimmer list at [www.Nora-Lighting.com](#) in the "Compatibility" page under "Resources" tab.

OPTIONAL ACCESSORIES

NF-R246: Universal New Construction Frame-In for 4" & 6"
NFC-R430: New Construction Frame-In with Collar for 4"
NFRC-EW-4: 4' Extension Cable
NFRC-EW-20: 20' Extension Cable
NEPK-20LEDUNV: 20W Emergency with Remote Test Switch
NEPK-23LEDUNV: 23W Emergency with Remote Test Switch

LABELS AND LISTINGS

- cETLus Listed to UL 1598, CAN/CSA C22.2, & Wet Locations
- cETLus Listed and Certified for 2-Hour Fire Rating to UL 263, ASTM E119, & CAN/ULC S101
- 5-Year Limited Warranty
- Certified to the high efficacy requirements of California Title 24 JA8-2022



Type
Project
Catalog No.
Notes

Performance Data			
Part Number	4" Lumens	6" Lumens	CCT
NFRC-RXW1TW	1130lm	1428lm	2700K
NFRC-RXW1TW	1168lm	1466lm	3000K
NFRC-RXW1TW	1211lm	1522lm	3500K
NFRC-RXW1TW	1231lm	1566lm	4000K
NFRC-RXW1TW	1219lm	1568lm	5000K

PRODUCT IMAGES AND DIMENSIONS

Selectable CCT
Five position sliding switch
27K / 30K / 35K / 40K / 50K

NFRC-R4W1TWMPW
4" Fire Rated Can-less Flat Downlight

NFRC-R6W1TWMPW
6" Fire Rated Can-less Flat Downlight

4" & 6" Fire Rated Can-less Flat LED Downlight with Selectable CCT

Description
NFRC-R4W1TWMPW = 4" Flat LED Downlight with Selectable CCT, 1200lm / 12W, Matte Powder White Finish
NFRC-R6W1TWMPW = 6" Flat LED Downlight with Selectable CCT, 1550lm / 15W, Matte Powder White Finish

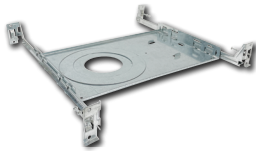
Optional Accessories

Description
NF-R246 = Universal New Construction Frame-In for 4" & 6"
NFC-R430 = New Construction Frame-In with Collar for 4" only
NFRC-EW-4 = 4' Extension Cable
NFRC-EW-20 = 20' Extension Cable
NEPK-20LEDUNV = 20W Emergency LED Driver w/ Remote Test Switch
NEPK-23LEDUNV = 23W Emergency LED Driver w/ Remote Test Switch

Example: NFRC-R6W1TWMPW = 6" Fire Rated Can-less Flat LED Downlight with Selectable CCT, 1550lm / 15W, Matte Powder White Finish

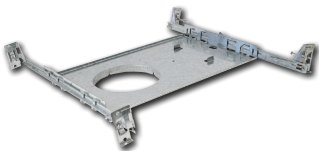
NFRC-R4W1TW / NFRC-R6W1TW
4" & 6" Fire Rated Can-less Flat LED Downlight with Selectable CCT Accessories

Type	
Project	
Catalog No.	
Notes	



Universal New Construction Frame-In for 4" & 6" Downlights

NF-R246
New construction frame-in can be used to assist installing can-less recessed downlighting. Helps indicate location and cutting guide.



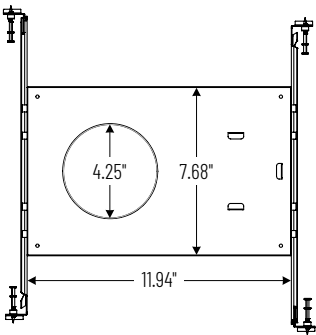
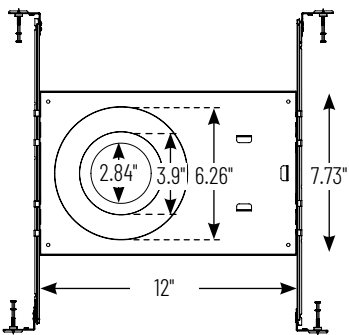
New Construction Frame-In with Collar for 4" Downlight

NFC-R430
New construction frame-in can be used to assist installing can-less recessed downlighting.



Quick Connect Extension Linkable Cables

NFRC-EW-4 4' Cable
NFRC-EW-20 20' 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.



20W Emergency LED Driver with Remote Test Switch

NEPK-20LEDUNV
120-277V Emergency LED driver operates luminaire for 90 minute emergency operation with a fully charged battery. Requires 24 hours to for full charge.



23W Emergency LED Driver with Remote Test Switch

NEPK-23LEDUNV
120-277V Emergency LED driver operates luminaire for 90 minute emergency operation with a fully charged battery. Requires 24 hours to for full charge.



Ribbon Test Switch for Remote Emergency Drivers

NEPKA-20/23LEDRTS
Ribbon test switch replaces remote test switch included with emergency driver. Compatible with NEPK-20LEDUNV and NEPK-23LEDUNV. Double sided tape is pre-installed.

PHOTOMETRICS

4" Fire Rated Can-less Flat LED Downlight with Selectable CCT

Type

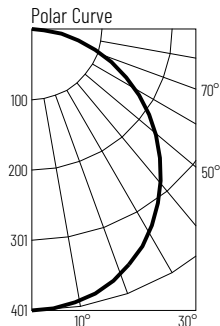
Project

Catalog No.

Notes

Test Information

Test Number: NTRA2676R2
Part Number: NFRC-R4WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1130lm
Wattage: 11.83W
Efficacy: 96lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	25fc	11'-6"
6'	11.1fc	17'-4"
8'	6.3fc	23'
10'	4fc	28'-10"
12'	2.8fc	34'-6"

Zonal Lumen Summary

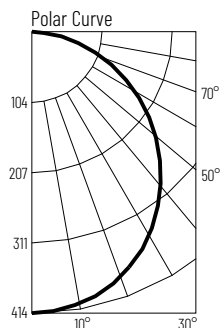
Zone	Lumens	% Luminaire
0-30	256	22.7
0-40	425	37.6
0-60	863	76.3
0-90	1130	100
90-180	0	0
0-180	1130	100

Candela Table

Vertical Angles	Candela
0	401
5	399
15	384
25	357
35	316
45	263

Test Information

Test Number: NTRA2677R2
Part Number: NFRC-R4WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1168lm
Wattage: 11.83W
Efficacy: 99lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	25.9fc	11'-6"
6'	11.5fc	17'-4"
8'	6.5fc	23'
10'	4.1fc	28'-10"
12'	2.9fc	34'-6"

Zonal Lumen Summary

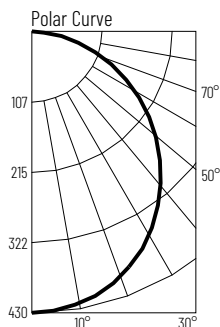
Zone	Lumens	% Luminaire
0-30	265	22.7
0-40	440	37.6
0-60	892	76.3
0-90	1168	100
90-180	0	0
0-180	1168	100

Candela Table

Vertical Angles	Candela
0	414
5	412
15	397
25	369
35	326
45	272

Test Information

Test Number: NTRA2678R2
Part Number: NFRC-R4WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1211lm
Wattage: 11.83W
Efficacy: 102lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26.8fc	11'-6"
6'	11.9fc	17'-4"
8'	6.7fc	23'
10'	4.3fc	28'-10"
12'	3fc	34'-6"

Zonal Lumen Summary

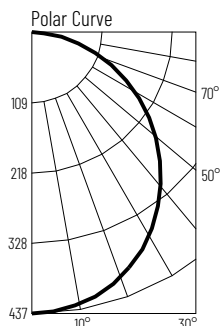
Zone	Lumens	% Luminaire
0-30	275	22.7
0-40	456	37.6
0-60	925	76.3
0-90	1211	100
90-180	0	0
0-180	1211	100

Candela Table

Vertical Angles	Candela
0	429
5	427
15	412
25	382
35	339
45	282

Test Information

Test Number: NTRA2679R2
Part Number: NFRC-R4WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1231lm
Wattage: 11.83W
Efficacy: 104lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	27.3fc	11'-6"
6'	12.1fc	17'-4"
8'	6.8fc	23'
10'	4.4fc	28'-10"
12'	3fc	34'-6"

Zonal Lumen Summary

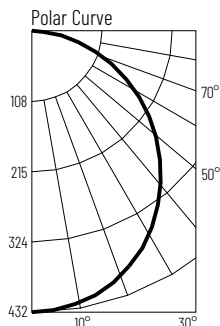
Zone	Lumens	% Luminaire
0-30	279	22.7
0-40	463	37.6
0-60	940	76.3
0-90	1231	100
90-180	0	0
0-180	1231	100

Candela Table

Vertical Angles	Candela
0	437
5	434
15	418
25	389
35	344
45	287

Test Information

Test Number: NTRA2680R2
Part Number: NFRC-R4WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1219lm
Wattage: 11.83W
Efficacy: 103lpw
CCT / CRI: 5000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	27fc	11'-6"
6'	12fc	17'-4"
8'	6.8fc	23'
10'	4.3fc	28'-10"
12'	3fc	34'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	276	22.7
0-40	459	37.6
0-60	931	76.3
0-90	1219	100
90-180	0	0
0-180	1219	100

Candela Table

Vertical Angles	Candela
0	432
5	430
15	414
25	385
35	341
45	284

PHOTOMETRICS

6" Fire Rated Can-less Flat LED Downlight with Selectable CCT

Type

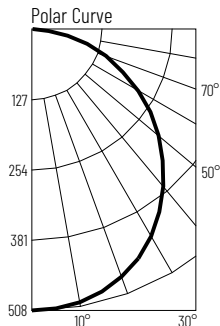
Project

Catalog No.

Notes

Test Information

Test Number: NTRA2681R2
Part Number: NFRC-R6WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1428lm
Wattage: 14.93W
Efficacy: 98lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	31.8fc	11'-6"
6'	14.1fc	17'-4"
8'	7.9fc	23'-1"
10'	5.1fc	28'-10"
12'	3.5fc	34'-7"

Zonal Lumen Summary

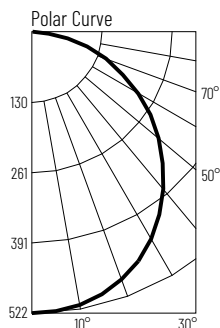
Zone	Lumens	% Luminaire
0-30	393	27.5
0-40	641	44.9
0-60	1123	78.7
0-90	1428	100
90-180	0	0
0-180	1428	100

Candela Table

Vertical Angles	Candela
0	508
5	503
15	487
25	451
35	398
45	330

Test Information

Test Number: NTRA2682R2
Part Number: NFRC-R6WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1466lm
Wattage: 14.55W
Efficacy: 101lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	32.6fc	11'-6"
6'	14.5fc	17'-4"
8'	8.2fc	23'-1"
10'	5.2fc	28'-10"
12'	3.6fc	34'-7"

Zonal Lumen Summary

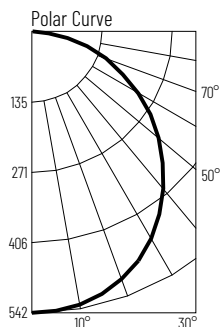
Zone	Lumens	% Luminaire
0-30	403	27.5
0-40	658	44.9
0-60	1153	78.7
0-90	1466	100
90-180	0	0
0-180	1466	100

Candela Table

Vertical Angles	Candela
0	522
5	516
15	500
25	463
35	408
45	339

Test Information

Test Number: NTRA2683R2
Part Number: NFRC-R6WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1522lm
Wattage: 14.55W
Efficacy: 105lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	33.8fc	11'-6"
6'	15fc	17'-4"
8'	8.5fc	23'-1"
10'	5.4fc	28'-10"
12'	3.8fc	34'-7"

Zonal Lumen Summary

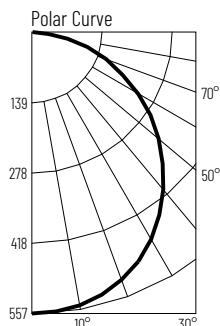
Zone	Lumens	% Luminaire
0-30	419	27.5
0-40	683	44.9
0-60	1197	78.7
0-90	1522	100
90-180	0	0
0-180	1522	100

Candela Table

Vertical Angles	Candela
0	542
5	536
15	519
25	480
35	424
45	352

Test Information

Test Number: NTRA2684R2
Part Number: NFRC-R6WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1566lm
Wattage: 14.55W
Efficacy: 108lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	34.8fc	11'-6"
6'	15.5fc	17'-4"
8'	8.7fc	23'-1"
10'	5.6fc	28'-10"
12'	3.9fc	34'-7"

Zonal Lumen Summary

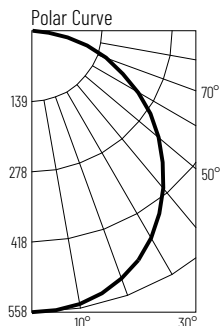
Zone	Lumens	% Luminaire
0-30	431	27.5
0-40	703	44.9
0-60	1232	78.7
0-90	1566	100
90-180	0	0
0-180	1566	100

Candela Table

Vertical Angles	Candela
0	557
5	551
15	534
25	494
35	436
45	362

Test Information

Test Number: NTRA2685R2
Part Number: NFRC-R6WITWMPW
Beam Spread: 110° Wide Flood
Lumens: 1568lm
Wattage: 14.55W
Efficacy: 108lpw
CCT / CRI: 5000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	34.9fc	11'-6"
6'	15.5fc	17'-4"
8'	8.7fc	23'-1"
10'	5.6fc	28'-10"
12'	3.9fc	34'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	432	27.5
0-40	704	44.9
0-60	1233	78.7
0-90	1568	100
90-180	0	0
0-180	1568	100

Candela Table

Vertical Angles	Candela
0	558
5	552
15	535
25	495
35	437
45	362