

# NFLAT

## 4" & 6" Can-less Non-Metallic Flat LED Downlight with Selectable CCT

Source: 10W or 13.5W

700lm or 1050lm

### PRODUCT DESCRIPTION

Boasting Selectable CCT ranging from 2700K to 5000K, our NFLAT recessed LED downlight provides a wide variety of color temperature options to suit your lighting preferences. This chic matte powder white luminaire exudes quality, yet is convenient and easy to install for any application. Tunable white luminaires include an integral tunable CCT switch located on the junction box of each luminaire with a quick connect that allows for easy disconnect and mounting in the ceiling.

### FEATURES

- No housing required - IC Air-Tight rated
- Easy installation for remodel or new construction applications
- Aluminum back plate for effective heat dissipation
- Quick disconnect allows for extended lengths
- Delivering up to 1050 lumens
- Five color temperatures in each fixture (2700K / 3000K / 3500K / 4000K / 5000K)
- 120Vac input; Triac or ELV dimming
- 5-year limited warranty
- cETLus Listed for Wet Locations

### SPECIFICATION

**Construction:** Dead front (non-metallic) flat LED 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 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:** Pre-wired junction box includes quick connect to LED fixtures for ease of installation. Junction box includes two 1/2" and two 3/8" trade size knockouts and snap on cover with 10" quick connect wire. Luminaire includes 6" quick connect wire. Maximum of 4 No. 12 AWG through branch circuit conductor suitable for 90°C permitted in box.

**Mounting:** No housing is required, two tensions steel spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 15/16". New construction frames are available.

### ELECTRICAL

**Input Voltage:** 120Vac

**Lumens / Wattage:** 700lm / 10W or 1050lm / 13.5W

**Color Temperature:** Selectable CCT: 2700K / 3000K / 3500K / 4000K / 5000K (Note: Preset to 3000K)

**Color Rendering Index:** 90+ CRI

**Beam Spread:** 113° Wide Flood

**Operating Temperature:** 0-40°C

**Dimming:** Triac or ELV

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

### OPTIONAL ACCESSORIES

[NEFLINTW-EW-4](#): 4' Extension Cable

[NEFLINTW-EW-20](#): 20' Extension Cable

[NF-R246](#): Universal New Construction Frame-In for 4" & 6"

[NFC-R430](#): New Construction Frame-In with Collar for 4"

[NFP-R413](#): New Construction Plate for NFLAT-R4TWMPW

[NFP-R613](#): New Construction Plate for NFLAT-R6TWMPW

### LABELS AND LISTINGS

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



Type

Project

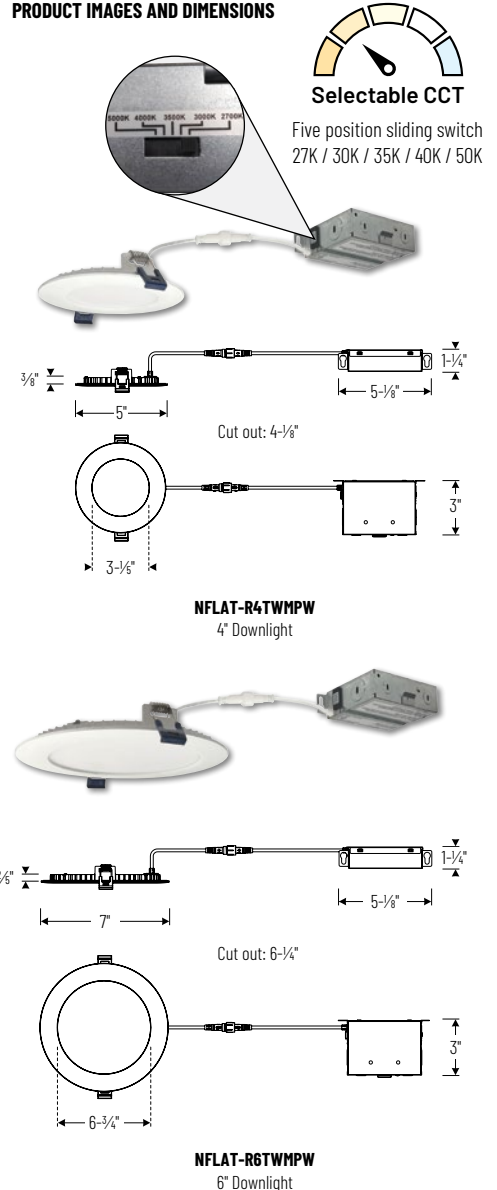
Catalog No.

Notes

### Performance Data

Part Number	4" Lumens	6" Lumens	CCT
NFLAT-RXTWMPW	640lm	958lm	2700K
NFLAT-RXTWMPW	681lm	1060lm	3000K
NFLAT-RXTWMPW	726lm	1090lm	3500K
NFLAT-RXTWMPW	740lm	1088lm	4000K
NFLAT-RXTWMPW	708lm	1059lm	5000K

### PRODUCT IMAGES AND DIMENSIONS



## 4" & 6" Can-less Non-Metallic Flat LED Downlight with Selectable CCT

Description

**NFLAT-R4TWMPW** = 4" LED Downlight with Selectable CCT, 700lm / 10W, Matte Powder White Finish

**NFLAT-R6TWMPW** = 6" LED Downlight with Selectable CCT, 1050lm / 13.5W, Matte Powder White Finish

## Optional Accessories

Description

**NEFLINTW-EW-4** = 4' Extension Cable

**NEFLINTW-EW-20** = 20' Extension Cable

**NF-R246** = Universal New Construction Frame-In for 4" & 6"

**NFC-R430** = New Construction Frame-In with Collar for NFLAT-R4TWMPW

**NFP-R413** = New Construction Plate for NFLAT-R4TWMPW

**NFP-R613** = New Construction Plate for NFLAT-R6TWMPW

Example: **NFLAT-R6TWMPW** = 6" Can-less Non-Metallic Flat LED Downlight with Selectable CCT, 1050lm / 13.5W, Matte Powder White Finish

# PHOTOMETRICS

## 4" Can-less Non-Metallic Flat LED Downlight with Selectable CCT

Type

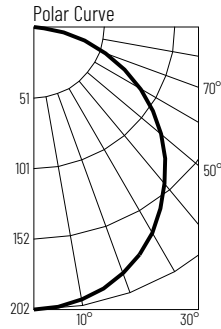
Project

Catalog No.

Notes

### Test Information

Test Number: NTS211R1  
 Part Number: NFLAT-R4TWMPW  
 Beam Spread: 114° Wide Flood  
 Lumens: 640lm  
 Wattage: 9.26W  
 Efficacy: 69lpw  
 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'	13.9fc	12'-0"
6'	6.2fc	18'-1"
8'	3.5fc	24'-1"
10'	2.2fc	30'-1"
12'	1.5fc	36'-1"

### Zonal Lumen Summary

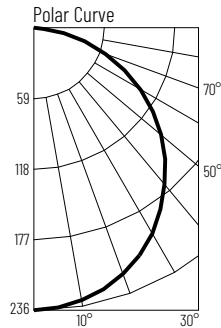
Zone	Lumens	% Luminaire
0-30	172	26.9
0-40	281	44
0-60	498	77.8
0-90	640	100
90-180	0	0
0-180	640	100

### Candela Table

Vertical Angles	Candela
0	222
5	220
15	212
25	197
35	174
45	145

### Test Information

Test Number: NTS212R1  
 Part Number: NFLAT-R4TWMPW  
 Beam Spread: 113° Wide Flood  
 Lumens: 681lm  
 Wattage: 9.12W  
 Efficacy: 75lpw  
 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'	14.7fc	12'-0"
6'	6.6fc	18'-1"
8'	3.7fc	24'-1"
10'	2.4fc	30'-1"
12'	1.6fc	36'-1"

### Zonal Lumen Summary

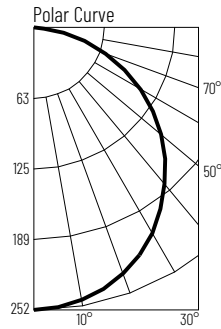
Zone	Lumens	% Luminaire
0-30	183	26.9
0-40	300	44
0-60	530	77.9
0-90	681	100
90-180	0	0
0-180	681	100

### Candela Table

Vertical Angles	Candela
0	236
5	235
15	226
25	209
35	185
45	154

### Test Information

Test Number: NTS213R1  
 Part Number: NFLAT-R4TWMPW  
 Beam Spread: 113° Wide Flood  
 Lumens: 726lm  
 Wattage: 8.91W  
 Efficacy: 81lpw  
 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'	15.7	12'-0"
6'	7.0fc	18'-0"
8'	3.9fc	24'-1"
10'	2.5fc	30'-1"
12'	1.8fc	36'-1"

### Zonal Lumen Summary

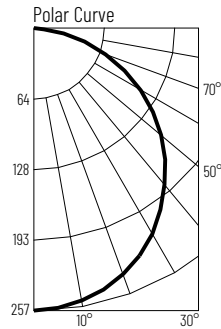
Zone	Lumens	% Luminaire
0-30	161	26.9
0-40	268	44.1
0-60	549	78.2
0-90	726	100
90-180	0	0
0-180	726	100

### Candela Table

Vertical Angles	Candela
0	252
5	251
15	241
25	223
35	197
45	165

### Test Information

Test Number: NTS214R1  
 Part Number: NFLAT-R4TWMPW  
 Beam Spread: 113° Wide Flood  
 Lumens: 740lm  
 Wattage: 8.95W  
 Efficacy: 83lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	16fc	12'-0"
6'	7.1fc	18'-0"
8'	4.0fc	24'-1"
10'	2.6fc	30'-1"
12'	1.8fc	36'-1"

### Zonal Lumen Summary

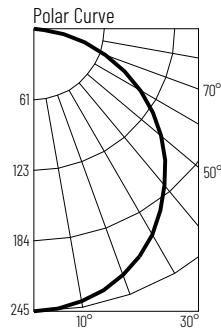
Zone	Lumens	% Luminaire
0-30	199	26.9
0-40	326	44.1
0-60	576	77.9
0-90	740	100
90-180	0	0
0-180	740	100

### Candela Table

Vertical Angles	Candela
0	257
5	255
15	245
25	228
35	201
45	168

### Test Information

Test Number: NTS215R1  
 Part Number: NFLAT-R4TWMPW  
 Beam Spread: 113° Wide Flood  
 Lumens: 708lm  
 Wattage: 9.32W  
 Efficacy: 76lpw  
 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'	15.3fc	12'-0"
6'	6.8fc	18'-0"
8'	3.8fc	24'-1"
10'	2.5fc	30'-1"
12'	1.7fc	36'-1"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	157	22.2
0-40	262	37
0-60	535	75.6
0-90	708	100
90-180	0	0
0-180	708	100

### Candela Table

Vertical Angles	Candela
0	245
5	244
15	235
25	217
35	192
45	161

# PHOTOMETRICS

## 6" Can-less Non-Metallic Flat LED Downlight with Selectable CCT

Type

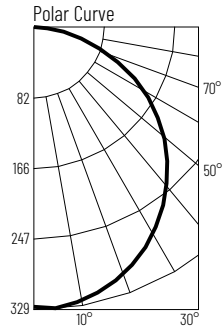
Project

Catalog No.

Notes

### Test Information

Test Number: NTS216R1  
 Part Number: NFLAT-R6TWPW  
 Beam Spread: 113° Wide Flood  
 Lumens: 958lm  
 Wattage: 12.7W  
 Efficacy: 75lpw  
 CCT / CRI: 2700K / 90 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	20.6fc	12"-2"
6'	9.1fc	18"-4"
8'	5.1fc	24"-5"
10'	3.3fc	30"-6"
12'	2.3fc	36"-7"

### Zonal Lumen Summary

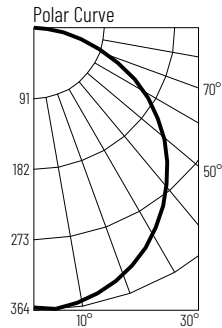
Zone	Lumens	% Luminaire
0-30	256	26.7
0-40	419	43.7
0-60	743	77.5
0-90	958	100
90-180	0	0
0-180	958	100

### Candela Table

Vertical Angles	Candela
0	329
5	328
15	316
25	294
35	261
45	219

### Test Information

Test Number: NTS217R1  
 Part Number: NFLAT-R6TWPW  
 Beam Spread: 113° Wide Flood  
 Lumens: 1060lm  
 Wattage: 12.3 W  
 Efficacy: 86lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	22.8fc	12"-2"
6'	10.1fc	18"-4"
8'	5.7fc	24"-5"
10'	3.6fc	30"-6"
12'	2.5fc	36"-7"

### Zonal Lumen Summary

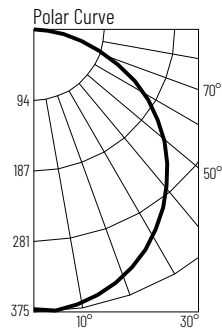
Zone	Lumens	% Luminaire
0-30	283	26.7
0-40	464	43.7
0-60	822	77.5
0-90	1060	100
90-180	0	0
0-180	1060	100

### Candela Table

Vertical Angles	Candela
0	364
5	363
15	350
25	326
35	289
45	242

### Test Information

Test Number: NTS218R1  
 Part Number: NFLAT-R6TWPW  
 Beam Spread: 114° Wide Flood  
 Lumens: 1090lm  
 Wattage: 12.2W  
 Efficacy: 89lpw  
 CCT / CRI: 3500K / 90 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	23.4fc	12"-2"
6'	10.4fc	18"-4"
8'	5.9fc	24"-4"
10'	3.8fc	30"-5"
12'	2.6fc	36"-6"

### Zonal Lumen Summary

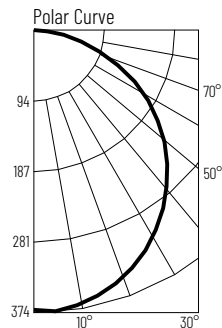
Zone	Lumens	% Luminaire
0-30	241	22.1
0-40	400	36.7
0-60	821	75.3
0-90	1090	100
90-180	0	0
0-180	1090	100

### Candela Table

Vertical Angles	Candela
0	375
5	373
15	360
25	334
35	297
45	249

### Test Information

Test Number: NTS219R1  
 Part Number: NFLAT-R6TWPW  
 Beam Spread: 114° Wide Flood  
 Lumens: 1088lm  
 Wattage: 12.51W  
 Efficacy: 87lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	23.4fc	12"-2"
6'	10.4fc	18"-4"
8'	5.8fc	24"-5"
10'	3.7fc	30"-6"
12'	2.6fc	36"-7"

### Zonal Lumen Summary

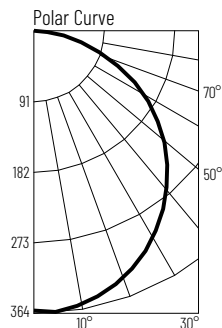
Zone	Lumens	% Luminaire
0-30	291	26.7
0-40	476	43.8
0-60	844	77.5
0-90	1088	100
90-180	0	0
0-180	1088	100

### Candela Table

Vertical Angles	Candela
0	374
5	372
15	359
25	334
35	296
45	249

### Test Information

Test Number: NTS220R1  
 Part Number: NFLAT-R6TWPW  
 Beam Spread: 114° Wide Flood  
 Lumens: 1059lm  
 Wattage: 12.754W  
 Efficacy: 83lpw  
 CCT / CRI: 5000K / 90 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	22.7fc	12"-2"
6'	10.1fc	18"-4"
8'	5.7fc	24"-5"
10'	3.6fc	30"-6"
12'	2.5fc	36"-7"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	233.5	22.1
0-40	389	36.7
0-60	797	75.3
0-90	1059	100
90-180	0	0
0-180	1059	100

### Candela Table

Vertical Angles	Candela
0	364
5	362
15	349
25	325
35	288
45	242