

NFLIN
FLIN Thin Regressed LED Downlight Series

Source: 12W to 33W
750lm to 2350lm

PRODUCT DESCRIPTION

Thin recessed LED designed for easy installation into new construction or remodel applications. Luminaire includes a quick connect that allows the junction box to easily disconnect and mounted in the ceiling. Junction box measures under 2" for shallow plenum ceilings where access above the ceiling is limited.

FEATURES

- Thin construction measures under 2" height
- IC Air-Tight rated
- Quick disconnect allows for easy installation
- Up to 2350lm LED packages
- 2700K, 3000K, 3500K and 4000K @ 90+ CRI
- Triac or ELV dimming
- cULus Listed for Wet Locations
- 5-year limited warranty

SPECIFICATION

Construction: Thin construction measures 1.25" in height (8" LE4 measures 1.625" thick)

Lens: Regressed lens with sharp baffle cuts reduces aperture brightness.

Junction Box: Prewired junction box includes quick connect to LED fixtures for ease of installation. Junction box includes four knockouts and snap on cover with 22" connector length. Through branch circuit wiring, (2-in, 2-out).

Mounting: No housing is required, two tensions steel spring clips secure luminaires to the ceiling. LE3 luminaires accept ceiling thicknesses from 3/8" to 15/16". LE4 luminaires accept ceiling thicknesses from 3/8" to 1-1/4". New construction frame-in kits are available, see accessories.

Minimum clearance: "IC" Insulated ceiling housings are direct contact rated; no minimum clearance is required. Air-tight gasket provided.

ELECTRICAL

Voltage: 120VAC

Lumens / Wattage:

R407 = 800lm / 12W; **S407** = 750lm / 12W;
R610 = 1450lm / 16W; **S610** = 1150lm / 16W;
R815 = 1900lm / 20W; **S815** = 1400lm / 20W;
R822 = 2350lm / 33W; **S822** = 2350lm / 33W

Color Temperature:

2700K, 3000K, 3500K, 4000K, 5000K

CRI: 90+CRI

Operating Temp.:

407, 610, 815 = 0°C to 40°C ambient temperature

822 = 0°C to 25°C ambient temperature

Dimming: Triac or ELV

[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

FRAME-IN KITS FOR NEW CONSTRUCTION

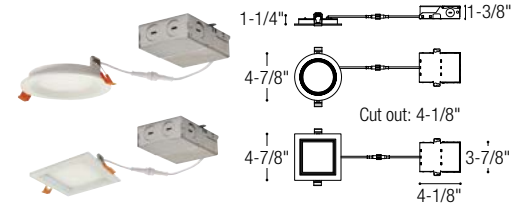
CATALOG NO.	DESCRIPTION
NFLIN-4R-F	4" Round Flat Frame-In Kit
NFLIN-4S-F	4" Square Flat Frame-In Kit
NFLIN-6R-F	6" Round Flat Frame-In Kit
NFLIN-6S-F	6" Square Flat Frame-In Kit
NFLIN-8R-F	8" Round Flat Frame-In Kit
NFLIN-8S-F	8" Square Flat Frame-In Kit

LABELS AND LISTINGS

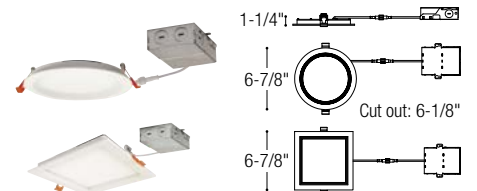
- cULus Listed for Wet location
- ENERGY STAR® Certified
- Can be used to comply with 2016 Title 24 Part 6 high efficacy LED light source requirements
- 5-Year Limited Warranty
- FCC Compliant



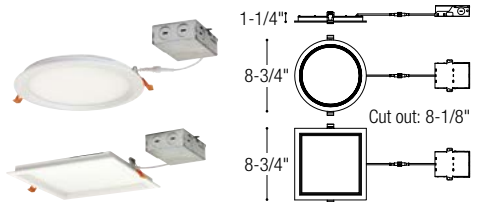
PRODUCT IMAGES AND DIMENSIONS



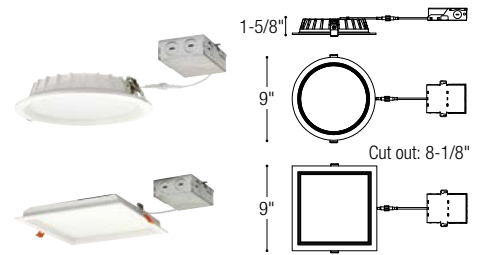
NFLIN-407
4" FLIN Thin Recessed LED



NFLIN-610
6" FLIN Thin Recessed LED



NFLIN-815
8" FLIN Thin Recessed LED



NFLIN-822
8" FLIN Thin Recessed LED

FLIN Thin Recessed LED

Size / Lumens / Wattage	CCT	Finish	Input Voltage / Dimming
NFLIN-R407 = 4" Round / 800lm / 12W	27 = 2700K	WW = White	LE3 = 120V; Triac/ELV dimming
NFLIN-S407 = 4" Square / 750lm / 12W	30 = 3000K		
NFLIN-R610 = 6" Round / 1450lm / 16W	40 = 4000K		
NFLIN-S610 = 6" Square / 1150lm / 16W	50 = 5000K		
NFLIN-R815 = 8" Round / 1900lm / 20W	30 = 3000K	WW = White	LE3 = 120V; Triac/ELV dimming
NFLIN-S815 = 8" Square / 1400lm / 20W	35 = 3500K		
	40 = 4000K		
	50 = 5000K		
NFLIN-R822 = 8" Round / 2350lm / 33W	30 = 3000K	WW = White	LE4 = 120 / 277V; 120V Triac/ELV dimming
NFLIN-S822 = 8" Square / 2350lm / 33W	35 = 3500K		
	40 = 4000K		
	50 = 5000K		

Frame-In Kits for New Construction

Description
NFLIN-4R-F = 4" Round Flat Frame-In Kit
NFLIN-4S-F = 4" Square Flat Frame-In Kit
NFLIN-6R-F = 6" Round Flat Frame-In Kit
NFLIN-6S-F = 6" Square Flat Frame-In Kit
NFLIN-8R-F = 8" Round Flat Frame-In Kit
NFLIN-8S-F = 8" Square Flat Frame-In Kit



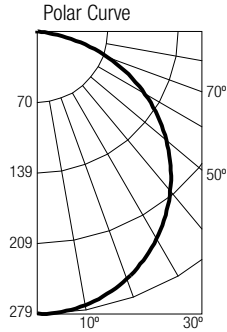
Example: **NFLIN-R61030WWLE3** = 6" Round FLIN, 1450lm / 16W, 3000K, White finish, 120V input

PHOTOMETRICS

4" & 6" FLIN Series

Test Information

Test Number: NTR11325R1
 Part Number: NFLIN-R40730LE3
 Lumens: 795lm
 Wattage: 10.2W
 Efficacy: 78lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.28
 Spacing Criteria (90°-270): 1.28



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	17.4fc	12'
6'	7.7fc	18'
8'	4.4fc	24'-1"
10'	2.8fc	30'-1"
12'	1.9fc	36'-1"

Zonal Lumen Summary

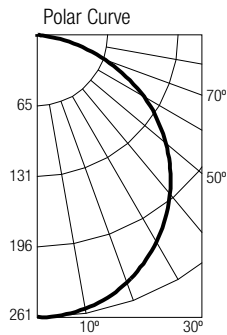
Zone	Lumens	% Luminaire
0-30	217	27.3
0-40	356	44.7
0-60	630	79.2
0-90	793	99.7
90-180	3	0.3
0-180	795	100

Candela Table

Vertical Angles	Candela
0	278
5	278
15	269
25	249
35	222
45	187

Test Information

Test Number: NTR11328R1
 Part Number: NFLIN-S40730LE3
 Lumens: 740lm
 Wattage: 10.2W
 Efficacy: 73lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.28
 Spacing Criteria (90°-270): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	16.3fc	12'
6'	7.2fc	18'
8'	4.1fc	24'
10'	2.6fc	30'
12'	1.8fc	36'

Zonal Lumen Summary

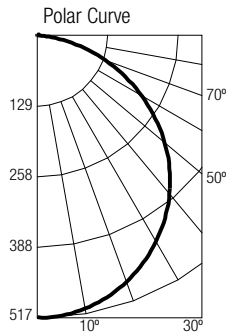
Zone	Lumens	% Luminaire
0-30	203	27.4
0-40	333	45
0-60	589	79.6
0-90	738	99.7
90-180	2	0.3
0-180	740	100

Candela Table

Vertical Angles	Candela
0	260
5	260
15	252
25	235
35	209
45	176

Test Information

Test Number: NTR11326R1
 Part Number: NFLIN-R61030LE3
 Lumens: 1454lm
 Wattage: 15.5W
 Efficacy: 94lpw
 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'	32.2fc	11'-8"
6'	14.3fc	17'-6"
8'	8.1fc	23'-4"
10'	5.2fc	29'-2"
12'	3.6fc	35'

Zonal Lumen Summary

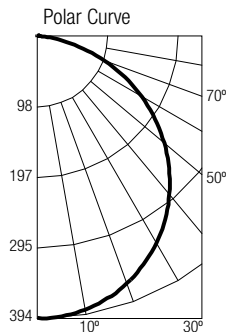
Zone	Lumens	% Luminaire
0-30	400	27.5
0-40	655	45.1
0-60	1154	79.3
0-90	1445	99.4
90-180	9	0.6
0-180	1454	100

Candela Table

Vertical Angles	Candela
0	515
5	513
15	495
25	460
35	407
45	341

Test Information

Test Number: NTR11329R1
 Part Number: NFLIN-S61030LE3
 Lumens: 1113lm
 Wattage: 16W
 Efficacy: 70lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.28
 Spacing Criteria (90°-270): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	24.6fc	11'-10"
6'	10.9fc	17'-8"
8'	6.1fc	23'-7"
10'	3.9fc	29'-6"
12'	2.7fc	35'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	306	27.5
0-40	501	45
0-60	883	79.3
0-90	1106	99.3
90-180	7	0.7
0-180	1113	100

Candela Table

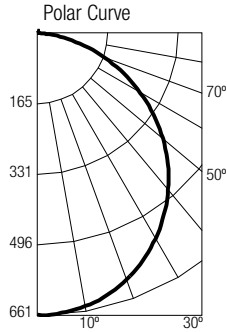
Vertical Angles	Candela
0	393
5	393
15	380
25	353
35	313
45	263

PHOTOMETRICS

8" FLIN Series

Test Information

Test Number: NTR11327R1
 Part Number: NFLIN-R81530LE3
 Lumens: 1862lm
 Wattage: 18.9W
 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'	41.3fc	11'-7"
6'	18.3fc	17'-5"
8'	10.3fc	23'-2"
10'	6.6fc	28'-11"
12'	4.6fc	34'-8"

Zonal Lumen Summary

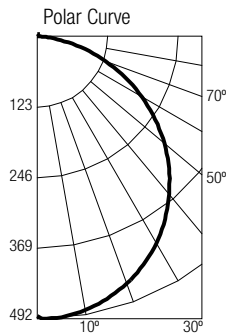
Zone	Lumens	% Luminaire
0-30	512	27.5
0-40	837	45
0-60	1469	78.9
0-90	1843	99
90-180	19	1
0-180	1862	100

Candela Table

Vertical Angles	Candela
0	660
5	657
15	634
25	587
35	519
45	434

Test Information

Test Number: NTR11330R1
 Part Number: NFLIN-S81530LE3
 Lumens: 1401lm
 Wattage: 19.8W
 Efficacy: 71lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.28
 Spacing Criteria (90°-270): 1.28



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	30.5fc	11'-11"
6'	13.6fc	17'-11"
8'	7.6fc	23'-10"
10'	4.9fc	29'-10"
12'	3.4fc	35'-8"

Zonal Lumen Summary

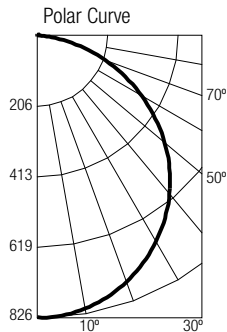
Zone	Lumens	% Luminaire
0-30	381	27.2
0-40	624	44.5
0-60	1101	78.6
0-90	1387	99
90-180	14	1
0-180	1401	100

Candela Table

Vertical Angles	Candela
0	488
5	490
15	473
25	441
35	393
45	330

Test Information

Test Number: NTR11331R1
 Part Number: NFLIN-R82230LE4
 Lumens: 2322lm
 Wattage: 30.4W
 Efficacy: 76lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.24
 Spacing Criteria (90°-270): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	51.4fc	11'-7"
6'	22.8fc	17'-5"
8'	12.9fc	23'-2"
10'	8.2fc	29'
12'	5.7fc	34'-8"

Zonal Lumen Summary

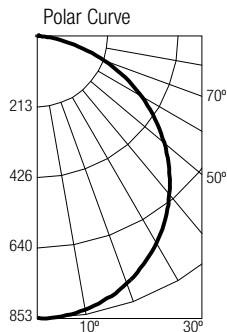
Zone	Lumens	% Luminaire
0-30	636	27.4
0-40	1038	44.7
0-60	1829	78.8
0-90	2300	99.1
90-180	22	0.9
0-180	2322	100

Candela Table

Vertical Angles	Candela
0	822
5	818
15	787
25	725
35	639
45	538

Test Information

Test Number: NTR11332R1
 Part Number: NFLIN-S82230LE4
 Lumens: 2347lm
 Wattage: 29.9W
 Efficacy: 79lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.24
 Spacing Criteria (90°-270): 1.24



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	53fc	11'-2"
6'	23.5fc	16'-10"
8'	13.2fc	22'-5"
10'	8.5fc	28'
12'	5.9fc	33'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	652	27.8
0-40	1060	45.2
0-60	1858	79.2
0-90	2326	99.1
90-180	21	0.9
0-180	2347	100

Candela Table

Vertical Angles	Candela
0	848
5	841
15	807
25	741
35	651
45	544