# NPR-4SC
## 4" Pearl LED Square Adjustable Cone Retrofit
**Source:** 12W LED
1250lm

## PRODUCT DESCRIPTION
Pearl LED Retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The 4" retrofit luminaires deliver over 1250 lumens with die-cast adjustable cone for optimal visual cut-off and adjustability to aim the light source in desired direction.

## FEATURES
· Comfort Dim (warm dimming) is available in 950lm only
· 2700K, 3000K, 3500K, 4000K @ 90+ CRI
· Field changeable optics included
  (Spot, Narrow Flood and Flood - installed)
· Integral dimmable driver
· Includes medium base socket adapter for easy retrofitting in 4" recessed housings
· 5-year limited warranty
· ENERGY STAR certified
· cULus classified for damp locations

## SPECIFICATION
**Construction:** Trims are constructed of heat dissipating, die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the trim and transfer heat.

**Mounting:** Luminaire includes friction blades to mount securely to housing.

## OPTICS
Three field changeable optics (spot, narrow flood and flood) are included with each LED module. Premium 22° and 26° TIR optics are also available.

## ELECTRICAL
**Input Voltage:** 120V
**Lumens / Wattage:** 1250lm / 12W (950lm w/ Comfort Dim)
**Color Temperature:** 2700K, 3000K, 3500K, 4000K
**Color Rendering Index:** 90+CRI
**Beam Spread:** 27° Spot, 38° Narrow Flood, 63° Flood
**Operating Temperature:** 0°C to 25°C
**Lifetime:** 50,000 hours @ L70
**Comfort Dim:** Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 950lm only.
**Dimming:** Triac (leading edge) or ELV (trailing edge)
**Click Here** or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

## COMPATIBLE HOUSINGS
Pearl retrofits are compatible with most 4" IC and Non-IC housings by Nora and others.

### Fire Box
NFBIC-4LMRATA*     ICAT Dedicated LED
NFBIC-427LMRATA*   Shallow ICAT Dedicated LED
NFBIC-4INCATA      ICAT Line Voltage

### New Construction
NSIC-4LMRAT*          Max. Adjustability ICAT Dedicated LED
NHIC-4LMRAT*          ICAT Dedicated LED
NHIC-4LMRAT/277*      ICAT Dedicated LED, 277V
(includes step-down transformer)
NHIC-427LMRAT*        Shallow ICAT Dedicated LED
NSIC-401QAT           ICAT Line Voltage
NS-401QAT             AT Line Voltage
NHIC-4G24AT           ICAT GU24

### Remodel
NHRIC-4LMRAT*         ICAT Dedicated LED
NHRIC-427LMRAT*       Shallow ICAT Dedicated LED
NSRIC-404QAT          ICAT Line Voltage
NSR-404QAT            AT Line Voltage

* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

**Retrofit:** Pearl retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

**Accessories:** Luminaires can accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page.

## LABELS AND LISTINGS
· cULus classified for Damp Locations
· ENERGY STAR certified
· RoHS compliant
· 5-Year Limited Warranty
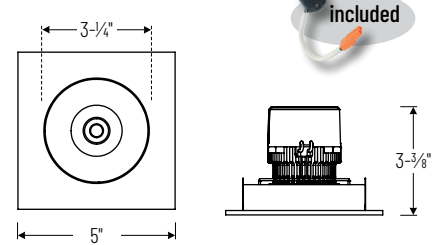· Certified to the high efficacy requirements of California Title 24 JA8-2022

### Performance Data

| Part Number | Lumens | CCT | Optic |
|---|---|---|---|
| **NPR-4SC30XWW** | 1266lm | 3000K | Spot |
| **NPR-4SC30XWW** | 1275lm | 3000K | Narrow |
| **NPR-4SC30XWW** | 1262lm | 3000K | Flood |

*Delivered lumens will vary depending on CCT, optic and finish*

## PRODUCT IMAGES & DIMENSIONS

included

3-¼"
5"
3-³⁄₈"

**NPR-4SC**
Square Adjustable Cone
Adjustability:
Max. Adjustability Housing: 35°
Standard Housings: 25°
Shallow Housings: 10°



**BB**
Black Reflector
Black Flange

**BW**
Black Reflector
White Flange

**BZ**
Bronze Reflector
Bronze Flange

**CMPW**
Specular Clear Reflector
Matte Powder White Flange

**HW**
Haze Reflector
White Flange

**HZMPW**
Haze Reflector
Matte Powder White Flange

**MPW**
Matte Powder White Reflector
Matte Powder White Flange

**NN**
Natural Metal Reflector
Natural Metal Flange

**WW**
White Reflector
White Flange

## 4" Pearl LED Square Adjustable Cone Retrofit

| Trim Type | Color Temperature | Finish |
|---|---|---|
| **NPR-4SC** = Square Adjustable Cone | **27X** = 2700K | **BB** = Black / Black |
| | **30X** = 3000K | **BW** = Black / White |
| | **35X** = 3500K | **BZ** = Bronze / Bronze |
| | **40X** = 4000K | **CMPW** = Specular Clear / Matte Powder White |
| | **CDX** = Comfort Dim | **HW** = Haze / White |
| | | **HZMPW** = Haze / Matte Powder White |
| | | **MPW** = Matte Powder White |
| | | **NN** = Natural Metal / Natural Metal |
| | | **WW** = White / White |

Example: **NPR-4SC27XWW** = 4" Pearl LED Square Adjustable Cone Retrofit, 2700K, White finish

# Pearl LED Retrofit Accessories
## 4" Pearl LED Square Adjustable Cone Retrofit

| | |
|---|---|
| Type | |
| Project | |
| Catalog No. | |
| Notes | |

## FIELD CHANGEABLE OPTICS

Pearl luminaires include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast trim. Replacement optics include an optional frosted lens.
<u>Note:</u> **Premium TIR optics are not compatible with Comfort Dim LED modules.**

- LED Module/Driver
- Optic
- Die-cast trim
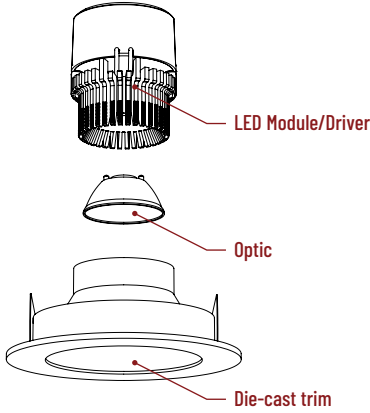
### Frosted Filter-Optic

| | |
|---|---|
| NIO-REFL38FR | 60° Optic |
| NIO-REFL60FR | 73° Optic |

Replaces optics that are included with each LED module.

### Premium TIR Optics

| | |
|---|---|
| NIO-REFLTIR15 | 22° Optic |
| NIO-REFLTIR25 | 26° Optic |

Premium TIR (total internal reflection) optics create optimal spot and narrow flood beam spread.
**Not compatible with Comfort Dim (CDX) LED module**

## ACCESSORIES

Pearl accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast trim.
Luminaire will accommodate (1) hex louver and (1) collar accessory, no accessory holder required.

- LED Module/Driver
- Accessory
- Die-cast trim
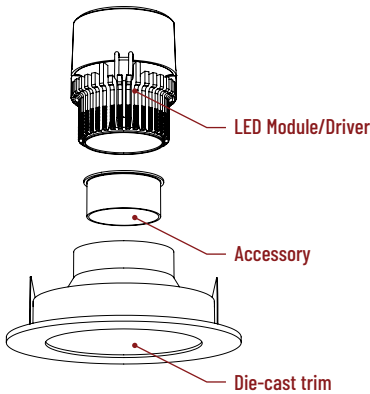
### Translucent Decorative Collar

| | |
|---|---|
| NIO-AS14(color) | ⅝" length |
| NIO-AS19(color) | ¾" length |
| NIO-AS26(color) | 1" length |

<u>Color:</u>
**AM** (amber), **BLU** (blue), **FR** (frosted), **R** (red)

Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.

### Opaque Collar Snoot

| | |
|---|---|
| NIO-AS14(color) | ⅝" length |
| NIO-AS19(color) | ¾" length |
| NIO-AS26(color) | 1" length |

<u>Color:</u>
**MPW** (matte powder white), **WH** (white)

Opaque snoot greatly reduces aperture brightness while preserving light output.

### Hex Cell Louver

| | |
|---|---|
| NIO-HC | Black |

Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

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# PHOTOMETRICS
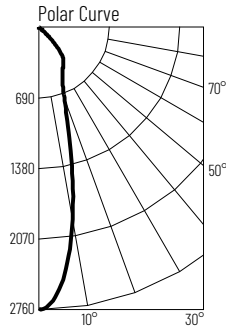## 4" Pearl LED Square Adjustable Cone Retrofit

Type

Project

Catalog No.

Notes

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### Test Information
Test Number: NTR1518
Part Number: NPR-4SC30XWW
Beam Spread: 27° Spot
Lumens: 1266lm
Wattage: 11.6W
Efficacy: 109pw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.48
Spacing Criteria (90º–270): 0.46

Polar Curve

#### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|---|---|---|
| 4' | 172fc | 2' |
| 6' | 76.5fc | 3' |
| 8' | 43fc | 3'-11" |
| 10' | 27.5fc | 4'-11" |
| 12' | 19.1fc | 5'-11" |

#### Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30 | 813 | 64.2 |
| 0-40 | 1074 | 84.8 |
| 0-60 | 1251 | 98.8 |
| 0-90 | 1263 | 99.8 |
| 90-180 | 3 | 0.2 |
| 0-180 | 1266 | 100 |

#### Candela Table

| Vertical Angles | Candela |
|---|---|
| 0 | 2753 |
| 5 | 2541 |
| 15 | 1205 |
| 25 | 544 |
| 35 | 421 |
| 45 | 209 |

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### Test Information
Test Number: NTR1519
Part Number: NPR-4SC30XWW
Beam Spread: 38° Narrow Flood
Lumens: 1275lm
Wattage: 11.63W
Efficacy: 110pw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.64
Spacing Criteria (90º–270): 0.64

Polar Curve
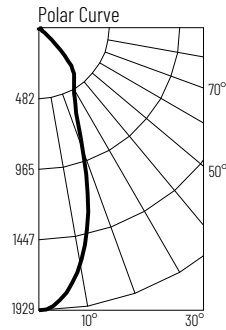
#### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|---|---|---|
| 4' | 121fc | 2'-10" |
| 6' | 53.6fc | 4'-1" |
| 8' | 30.1fc | 5'-6" |
| 10' | 19.3fc | 6'-11" |
| 12' | 13.4fc | 8'-4" |

#### Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30 | 810 | 63.5 |
| 0-40 | 1049 | 82.2 |
| 0-60 | 1256 | 98.5 |
| 0-90 | 1272 | 99.8 |
| 90-180 | 3 | 0.2 |
| 0-180 | 1275 | 100 |

#### Candela Table

| Vertical Angles | Candela |
|---|---|
| 0 | 1929 |
| 5 | 1850 |
| 15 | 1305 |
| 25 | 598 |
| 35 | 425 |
| 45 | 212 |

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### Test Information
Test Number: NTR1520
Part Number: NPR-4SC30XWW
Beam Spread: 63° Flood
Lumens: 1262lm
Wattage: 11.68W
Efficacy: 108pw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.88
Spacing Criteria (90º–270): 0.88

Polar Curve
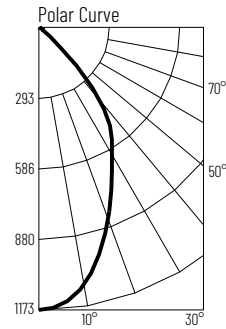
#### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|---|---|---|
| 4' | 73.3fc | 4'-11" |
| 6' | 32.6fc | 7'-4" |
| 8' | 18.3fc | 9'-8" |
| 10' | 11.7fc | 12'-2" |
| 12' | 8.1fc | 14'-7" |

#### Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30 | 711 | 56.3 |
| 0-40 | 1004 | 79.6 |
| 0-60 | 1238 | 98.1 |
| 0-90 | 1259 | 99.8 |
| 90-180 | 3 | 0.2 |
| 0-180 | 1262 | 100 |

#### Candela Table

| Vertical Angles | Candela |
|---|---|
| 0 | 1173 |
| 5 | 1151 |
| 15 | 974 |
| 25 | 716 |
| 35 | 522 |
| 45 | 225 |

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**Lumen Output Multipliers**
Color Temperature: 2700K (0.97), 3000K (1.00), 3500K (1.05), 4000K (1.09)