

# NPR-4SNDSQ

## 4" Pearl 120V LED Square Retrofit Reflector with Square Aperture

Source: 10W LED  
1150lm

Type

Project

Catalog No.

Notes

### 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 1150 lumens with deep regressed cone reflector for optimal visual cut-off.

### FEATURES

- Medium base socket adapter included
- Retrofit existing 4" recessed housings
- Comfort Dim (warm dimming) is available in 700lm only
- 2700K, 3000K, 3500K, 4000K @ 90+ CRI
- Three field changeable optics included
- Integral dimmable driver
- 5-year limited warranty
- cULus classified for wet locations

### SPECIFICATION

**Construction:** Trims are constructed of heat-dissipating die-cast aluminum. A threaded aluminum LED heat sink integrates directly with the trim for optimal heat transfer, while a heat-resistant polycarbonate blend plate enhances overall temperature control and performance.

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

### OPTICS

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

### ELECTRICAL

**Input Voltage:** 120V

**Lumens / Wattage:** 1150lm / 10W (700lm w/ Comfort Dim)

**Color Temperature:** 2700K, 3000K, 3500K, 4000K

**Color Rendering Index:** 90+ CRI

**Beam Spread:** 26° Spot, 36° Narrow Flood, 58° Flood

**Operating Temperature:** 0°C to 25°C

**Lifetime:** 50,000 hours @ L70

**Comfort Dim:** Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 700lm only.

**Dimming:** Triac (leading edge) or ELV (trailing edge)

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://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-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)

**NSIC-401QAT** ICAT Line Voltage

**NS-401QAT** AT Line Voltage

**NHIC-4G24AT** ICAT GU24

#### Remodel

**NHRIC-4LMRAT\*** 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:** A medium base screw-socket adapter is included for retrofitting into existing housings. Medium base sockets may require removal, dependent on trim and housing height. A GU24 socket adapter is also available, ordered separately (NRA-2125M).

**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

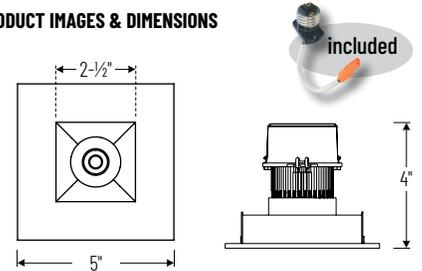
- cULus classified for Wet Locations
- RoHS compliant
- [5-Year Limited Warranty](#)
- Certified to the high efficacy requirements of California Title 24 JA8-2025
- Patent Pending



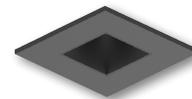
Performance Data			
Part Number	Lumens	CCT	Optic
<b>NPR-4SNDQ40XMPW</b>	1158lm	4000K	Spot
<b>NPR-4SNDQ40XMPW</b>	1164lm	4000K	Narrow
<b>NPR-4SNDQ40XMPW</b>	1160lm	4000K	Flood

Delivered lumens will vary depending on CCT, optic and finish

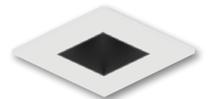
### PRODUCT IMAGES & DIMENSIONS



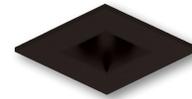
**NPR-4SNDSQ**  
Square Reflector with Square Aperture  
Non-Adjustable



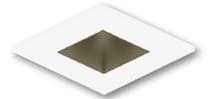
**BB**  
Black Reflector  
Black Flange



**BW**  
Black Reflector  
Warm White Flange



**BZ**  
Bronze Reflector  
Bronze Flange



**CHMPW**  
Champagne Haze Reflector  
Bright White Flange



**HN**  
Haze Reflector  
Natural Metal Flange



**HW**  
Haze Reflector  
Warm White Flange



**HZMPW**  
Haze Reflector  
Bright White Flange



**MPW**  
Bright White Reflector  
Bright White Flange



**WW**  
Warm White Reflector  
Warm White Flange

## 4" Pearl 120V LED Square Retrofit Reflector with Square Aperture

Color Temperature	Finish
<b>NPR-4SNDQ27X</b> = 2700K	<b>BB</b> = Black
<b>NPR-4SNDQ30X</b> = 3000K	<b>BW</b> = Black Reflector / Warm White Flange
<b>NPR-4SNDQ35X</b> = 3500K	<b>BZ</b> = Bronze
<b>NPR-4SNDQ40X</b> = 4000K	<b>CHMPW</b> = Champagne Haze Reflector / Bright White Flange
<b>NPR-4SNDQCDX</b> = Comfort Dim	<b>HN</b> = Haze Reflector/ Natural Metal Flange
	<b>HW</b> = Haze Reflector/ Warm White Flange
	<b>HZMPW</b> = Haze Reflector/ Bright White Flange
	<b>MPW</b> = Bright White
	<b>WW</b> = Warm White

Example: **NPR-4SNDQ40XMPW** = 4" Pearl 120V LED Square Retrofit Reflector with Square Aperture, 4000K, Bright White finish

# ACCESSORIES

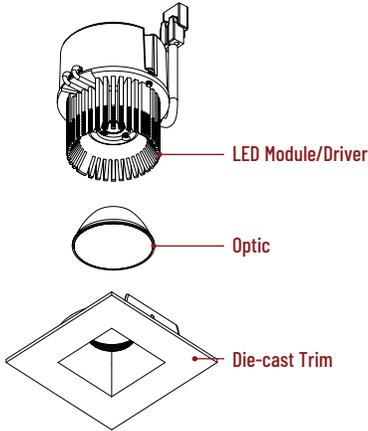
## 4" Pearl 120V LED Square Retrofit Reflector with Square Aperture

Type
Project
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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.

**Note:** Premium TIR optics are not compatible with Comfort Dim LED modules.



Frosted Optics

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

Replaces optics that are included with each LED module.



Premium TIR Optics

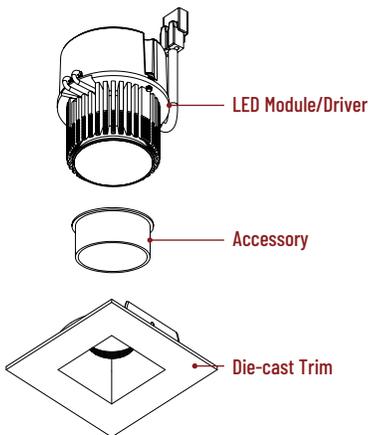
- NIO-REFLTIR15 22° Optic
- NIO-REFLTIR25 26° Optic

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.



Translucent Decorative Collar

- NIO-AS14(color) 5/8" length
  - NIO-AS19(color) 3/4" length
  - NIO-AS26(color) 1" length
- Color:**  
AM (amber), BLU (blue), FR (frosted), R (red)

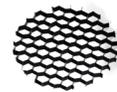
Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.



Opaque Collar Snoot

- NIO-AS14WH 5/8" length / warm white finish
- NIO-AS19MPW 3/4" length / bright white finish
- NIO-AS19WH 3/4" length / warm white finish
- NIO-AS26WH 1" length / warm white finish

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%.

Hex cell louver is not compatible with TIR optics.

# PHOTOMETRICS

## 4" Pearl 120V LED Square Retrofit Reflector with Square Aperture

Type

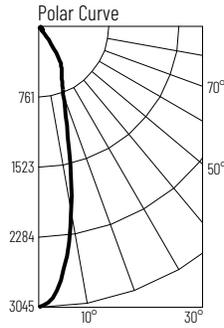
Project

Catalog No.

Notes

### Test Information

Test Number: NTR2964R1  
 Part Number: NPR-4SNDQ40XMPW  
 Beam Spread: 26° Spot  
 Lumens: 1158lm  
 Wattage: 9.9W  
 Efficacy: 117pw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.46  
 Spacing Criteria (90°-270°): 0.46



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	190fc	1'-11"
6'	84.6fc	2'-10"
8'	47.6fc	3'-8"
10'	30.5fc	4'-8"
12'	21.1fc	5'-7"

### Zonal Lumen Summary

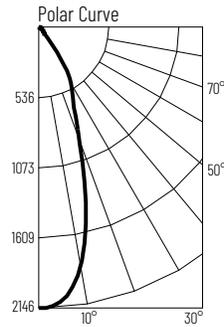
Zone	Lumens	% Luminaire
0-30	869	75
0-40	1044	90.2
0-60	1125	97.2
0-90	1158	100
90-180	0	0
0-180	1158	100

### Candela Table

Vertical Angles	Candela
0	3045
5	2764
15	1237
25	594
35	289
45	61

### Test Information

Test Number: NTR2963R1  
 Part Number: NPR-4SNDQ40XMPW  
 Beam Spread: 36° Narrow Flood  
 Lumens: 1164lm  
 Wattage: 9.9W  
 Efficacy: 118pw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.6  
 Spacing Criteria (90°-270°): 0.6



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	134fc	2'-7"
6'	59.6fc	3'-11"
8'	33.5fc	5'-4"
10'	21.5fc	6'-7"
12'	14.9fc	7'-11"

### Zonal Lumen Summary

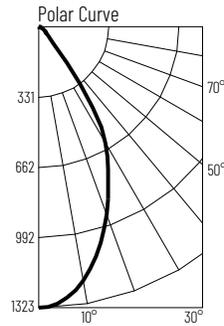
Zone	Lumens	% Luminaire
0-30	869	74.6
0-40	1039	89.2
0-60	1129	97
0-90	1164	100
90-180	0	0
0-180	1164	100

### Candela Table

Vertical Angles	Candela
0	2146
5	2093
15	1391
25	629
35	292
45	62

### Test Information

Test Number: NTR2962R1  
 Part Number: NPR-4SNDQ40XMPW  
 Beam Spread: 58° Flood  
 Lumens: 1160lm  
 Wattage: 9.9W  
 Efficacy: 117pw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.86  
 Spacing Criteria (90°-270°): 0.86



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	82.7fc	4'-5"
6'	36.8fc	6'-8"
8'	20.7fc	8'-11"
10'	13.2fc	11'-1"
12'	9.2fc	13'-4"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	782	67.4
0-40	1020	88
0-60	1119	96.5
0-90	1160	100
90-180	0	0
0-180	1160	100

### Candela Table

Vertical Angles	Candela
0	1323
5	1294
15	1088
25	779
35	395
45	73

### Lumen Output Multipliers

Color Temperature: 2700K (0.97), 3000K (1.00), 3500K (1.05), 4000K (1.09)