

# NPR-4RSL

## 4" Pearl 120V LED Round Adjustable Slot Aperture Retrofit

Source: 10W LED  
950lm

Type

Project

Catalog No.

Notes

### PRODUCT DESCRIPTION

Pearl LED Retrofit series is cULus classified for use in existing IC housings manufactured by Nora. The 4" retrofit luminaires deliver up to 950 lumens with an adjustable slot aperture to focus the beam spread through 2-5/8" x 2" opening.

### FEATURES

- Comfort Dim (warm dimming) is available in 550lm only
- 2700K, 3000K, 3500K, 4000K @ 90+ CRI
- Three field changeable optics included
- Integral dimmable driver
- 5-year limited warranty
- cULus classified for damp 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:** 950lm / 10W (550lm w/ Comfort Dim)

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

**Color Rendering Index:** 90+CRI

**Beam Spread:** 26° Spot, 35° Narrow Flood, 51° 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 550lm 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 HOUSING

Pearl adjustable slot aperture retrofit reflectors are compatible with 4" Max. Adjustability IC housing by Nora only.

#### New Construction

[NSIC-4LMRAT](#) Max. Adjustability ICAT Dedicated LED

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



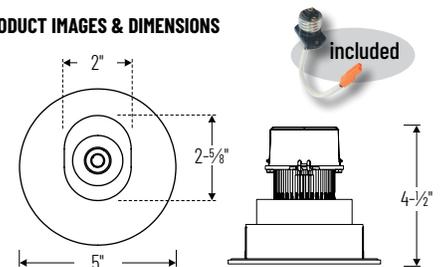
## 4" Pearl 120V LED Round Adjustable Slot Aperture Retrofit

Color Temperature	Finish
<b>NPR-4RSL27X</b> = 2700K	<b>BB</b> = Black
<b>NPR-4RSL30X</b> = 3000K	<b>BMPW</b> = Black Slot Aperture / Bright White Flange
<b>NPR-4RSL35X</b> = 3500K	<b>HZMPW</b> = Haze Slot Aperture / Bright White Flange
<b>NPR-4RSL40X</b> = 4000K	<b>MPW</b> = Bright White
<b>NPR-4RSLCDX</b> = Comfort Dim	

Performance Data			
Part Number	Lumens	CCT	Optic
<b>NPR-4RSL40XMPW</b>	976lm	4000K	Spot
<b>NPR-4RSL40XMPW</b>	981lm	4000K	Narrow
<b>NPR-4RSL40XMPW</b>	977lm	4000K	Flood

Delivered lumens will vary depending on CCT, optic and finish

### PRODUCT IMAGES & DIMENSIONS

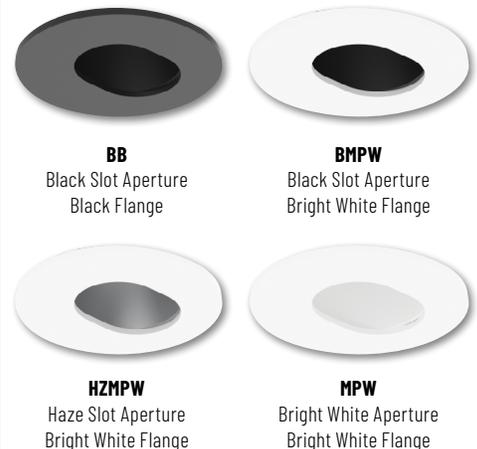


### NPR-4RSL

Round Adjustable Slot Aperture

30° Adjustable (varies by housing)

\* For maximum adjustment use [NSIC-4LMRAT](#) \*



Example: **NPR-4RSL27XMPW** = 4" Pearl 120V LED Round Adjustable Slot Aperture Retrofit, 2700K, Bright White finish

# ACCESSORIES

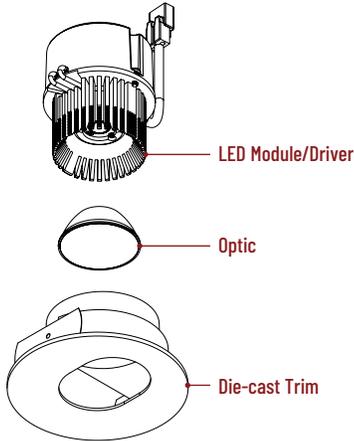
## 4" Pearl 120V LED Round Adjustable Slot Aperture Retrofit

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### 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

<b>NIO-REFL38FR</b>	60° Optic
<b>NIO-REFL60FR</b>	73° Optic

Replaces optics that are included with each LED module.



Premium TIR Optics

<b>NIO-REFLTIR15</b>	22° Optic
<b>NIO-REFLTIR25</b>	26° Optic

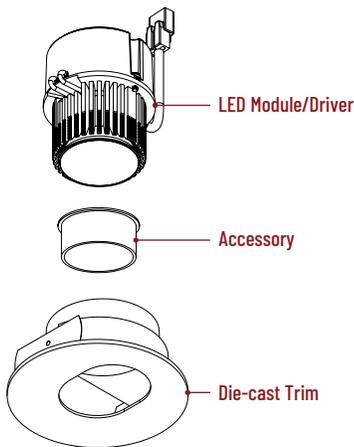
Premium TIR (total internal reflection) optics create optimal spot and narrow flood beam spread.

**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

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

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

Opaque snoot greatly reduces aperture brightness while preserving light output.



Hex Cell Louver

<b>NIO-HC</b>	Black
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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 Round Adjustable Slot Aperture Retrofit

Type

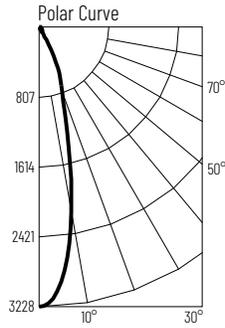
Project

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Notes

### Test Information

Test Number: NTR2928R1  
 Part Number: NPR-4RSL40XMPW  
 Beam Spread: 26° Spot  
 Lumens: 976lm  
 Wattage: 9.86W  
 Efficacy: 99lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.44  
 Spacing Criteria (90°-270°): 0.44



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	202fc	1'-10"
6'	89.7fc	2'-10"
8'	50.4fc	3'-8"
10'	32.3fc	4'-7"
12'	22.4fc	5'-6"

### Zonal Lumen Summary

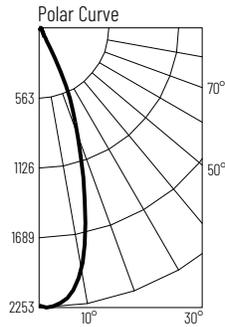
Zone	Lumens	% Luminaire
0-30	834	85.5
0-40	884	90.6
0-60	937	96.1
0-90	976	100
90-180	0	0
0-180	976	100

### Candela Table

Vertical Angles	Candela
0	3228
5	2952
15	1267
25	519
35	68
45	41

### Test Information

Test Number: NTR2927R1  
 Part Number: NPR-4RSL40XMPW  
 Beam Spread: 35° Narrow Flood  
 Lumens: 981lm  
 Wattage: 9.86W  
 Efficacy: 100lpw  
 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'	140fc	2'-6"
6'	62.1fc	3'-10"
8'	34.9fc	5'-1"
10'	22.4fc	6'-5"
12'	15.5fc	7'-7"

### Zonal Lumen Summary

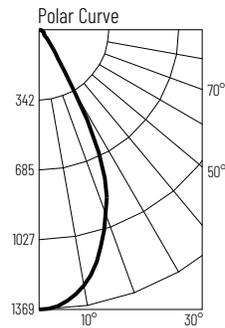
Zone	Lumens	% Luminaire
0-30	830	84.6
0-40	878	89.5
0-60	939	95.7
0-90	981	100
90-180	0	0
0-180	981	100

### Candela Table

Vertical Angles	Candela
0	2236
5	2210
15	1435
25	547
35	71
45	41

### Test Information

Test Number: NTR2926R1  
 Part Number: NPR-4RSL40XMPW  
 Beam Spread: 51° Flood  
 Lumens: 977lm  
 Wattage: 9.86W  
 Efficacy: 99lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.84  
 Spacing Criteria (90°-270°): 0.84



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	85.6fc	3'-10"
6'	38fc	5'-10"
8'	21.4fc	7'-8"
10'	13.7fc	9'-7"
12'	9.5fc	11'-6"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	757	77.5
0-40	863	88.3
0-60	929	95.1
0-90	977	100
90-180	0	0
0-180	977	100

### Candela Table

Vertical Angles	Candela
0	1369
5	1345
15	1138
25	733
35	152
45	48

### Lumen Output Multipliers

Color Temperature: 2700K (0.89), 3000K (0.94), 3500K (0.98), 4000K (1.00)

### Finish Multipliers

Finish: Black (0.84), Haze (0.95), Bright White (1.00), Warm White (1.03)