

# NPR-4RTLND

4" Pearl 120V Round LED Trimless Retrofit Downlight

Source: 10W LED

1150lm

## PRODUCT DESCRIPTION

4" Trimless Pearl retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. Each luminaire requires a trimless mud ring and will have no exposed trim flange or extend beyond the ceiling plane. Deep regressed cone reflectors optimize visual cut-off.

## FEATURES

- Medium base socket adapter included
- Retrofit existing 4" or 6" recessed housings
- Comfort Dim (warm dimming) is available in 650lm only
- 2700K, 3000K, 3500K, 4000K @ 90+ CRI
- Three field changeable optics included
- Integral dimmable driver
- 5-year limited warranty

## 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 stainless steel friction clips to mount securely to trimless mud ring. Mud ring is required per trimless downlight.

## 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:** 120VAC

**Lumens / Wattage:** 1150lm / 10W (650lm w/ Comfort Dim)

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

**Color Rendering Index:** 90+ CRI

**Beam Spread:** 27° Spot, 37° Narrow Flood, 58° Flood

**Operating Temperature:** Specified by housing

**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 650lm 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" ([NPR-TLMR-4R](#)) and 6" ([NPR-TLMR-6R](#)) housings by Nora and others.

[NSIC-4LMRAT\\*](#) 4" Max. Adjustability ICAT Dedicated LED  
[NHIC-4LMRAT\\*](#) 4" ICAT Dedicated LED  
[NHIC-4LMRAT/277\\*](#)<sup>1</sup> 4" ICAT Dedicated LED, 277V (includes step-down transformer)

[NHICCP-4LMRAT\\*](#) 4" CCEA Dedicated LED  
[NSIC-401QAT](#) 4" ICAT Line Voltage  
[NS-401QAT](#) 4" AT Line Voltage  
[NHIC-4624AT](#) 4" ICAT GU24  
[NHIC-6LMRAT\\*](#) 6" ICAT Dedicated LED  
[NHIC-6LMRAT/277\\*](#)<sup>1</sup> 6" ICAT Dedicated LED, 277V  
[NHICCP-6LMRAT\\*](#) 6" Chicago Plenum Dedicated LED  
[NHIC-27LMRAT\\*](#) 6" ICAT Shallow Dedicated LED  
[NHIC-17QAT](#) 6" ICAT Line Voltage  
[NHIC-17QBAT](#) 6" ICAT Line Voltage (No Bracket)  
[NHIC-27QAT](#) 6" ICAT Shallow Line Voltage  
[NH-260](#) 6" Line Voltage  
[NH-270](#) 6" Shallow Line Voltage  
[NHIC-6G24ATFL](#) 6" ICAT GU24

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

<sup>1</sup> Housings include a step down transformer.

**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. A mud ring is required per trimless.

## LABELS AND LISTINGS

- cULus Listed for Wet Locations
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the requirements of CA Title 24 JA8-2025
- Patent Pending



## 4" Pearl Round LED Trimless Retrofit Downlight

Color Temperature Finish

**NPR-4RTLND27X** = 2700K  
**NPR-4RTLND30X** = 3000K  
**NPR-4RTLND35X** = 3500K  
**NPR-4RTLND40X** = 4000K  
**NPR-4RTLNDCCDX** = Comfort Dim

**BB** = Black  
**BZ** = Bronze  
**HZ** = Haze  
**MPW** = Bright White  
**WW** = Warm White

## Type

Project

Catalog No.

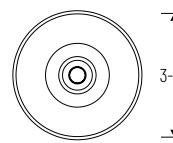
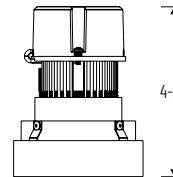
Notes

## Performance Data

Part Number	Lumens	CCT	Optic
<b>NPR-4RTLND40XMPW</b>	1146lm	4000K	Spot
<b>NPR-4RTLND40XMPW</b>	1152lm	4000K	Narrow
<b>NPR-4RTLND40XMPW</b>	1147lm	4000K	Flood

Delivered lumens will vary depending on CCT, optic and finish

## PRODUCT IMAGES AND DIMENSIONS



### NPR-4RTLND

Round Trimless Retrofit Downlight  
Non-Adjustable



### BB BZ

Black Reflector Bronze Reflector



### HZ MPW

Haze Reflector Bright White Reflector



### WW

Warm White Reflector

## Pearl Trimless Mud Rings

Description

**NPR-TLMR-4R** = Trimless Mud Ring for 4" Recessed Housings  
**NPR-TLMR-6R** = Trimless Mud Ring for 6" Recessed Housings

Example: **NPR-4RTLND40XMPW / NPR-TLMR-4R** = 4" Pearl Round LED Trimless Retrofit Downlight, 3000K, Bright White finish / Trimless Mud Ring for 4" Recessed Housings

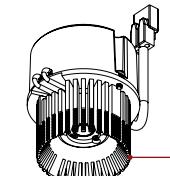
## ACCESSORIES

### 4" Pearl 120V Round LED Trimless Retrofit Downlight

Type	
Project	
Catalog No.	
Notes	

#### FIELD CHANGEABLE OPTICS

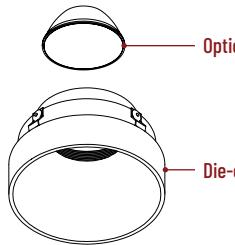
Pearl luminaires include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast trim. Optional frosted and TIR optics are also available. Note: Premium TIR optics are not compatible with Comfort Dim LED modules.



LED Module/Driver



Frosted Optics



Optic

Die-cast Trim

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

Replaces optics that are included with each LED module.



Premium TIR Optics

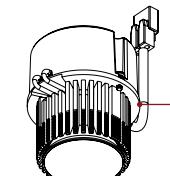
NIO-REFLTIR15      22° Optic  
NIO-REFLTIR25      26° Optic

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

**Not compatible with Comfort Dim (CDX) LED module**

#### ACCESSORIES

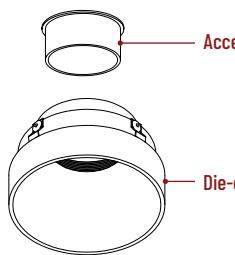
Pearl accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast trim. Luminaire will accommodate (1) hex louver and (1) collar accessory, no accessory holder required.



LED Module/Driver



Translucent Decorative Collar



Accessory

NIO-AS14(color)  
NIO-AS19(color)  
NIO-AS26(color)

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

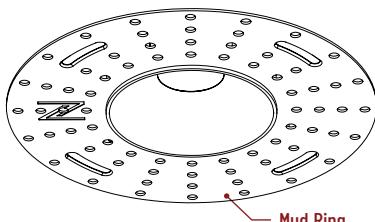
NIO-HC      Black

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

Hex cell louver is not compatible with TIR optics.

#### TRIMLESS

4" Pearl trimless reflectors have no exposed trim flange and the result is a minimalist knife edge appearance. A trimless mount mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



Mud Ring



Trimless Mount Mud Ring

NPR-TLMR-4R      for 4" recessed housings  
NPR-TLMR-6R      for 6" recessed housings

Mounts trimless reflector with no exposed flange and no extension beyond ceiling plane. Mud ring attaches to drywall. Diameter: 7.35" (NPR-TLMR-4R) or 8" (NPR-TLMR-6R)  
Thickness: 0.05"



Suction Cup for Removal

NIO-TLSUCTION

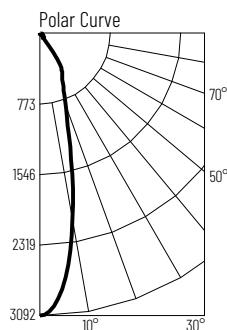
Assist removing trimless reflector from finished ceiling after installation. For maintenance on trimless reflector.

# PHOTOMETRICS

## 4" Pearl 120V LED Round Trimless Retrofit Downlight

### Test Information

Test Number: NTR2979R1  
 Part Number: NPR-4RTLND40XMPW  
 Beam Spread: 27° Spot  
 Lumens: 1146lm  
 Wattage: 9.87W  
 Efficacy: 116pw  
 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'	193fc	1'-11"
6'	85.9fc	2'-10"
8'	48.3fc	3'-10"
10'	30.9fc	4'-8"
12'	21.5fc	5'-8"

### Type

### Project

### Catalog No.

### Notes

### Zonal Lumen Summary

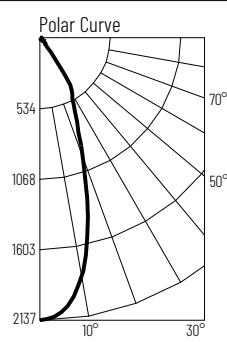
Zone	Lumens	% Luminaire
0-30	889	77.6
0-40	1052	91.8
0-60	1122	97.9
0-90	1146	100
90-180	0	0
0-180	1146	100

### Candela Table

Vertical Angles	Candela
0	3092
5	2810
15	1287
25	603
35	263
45	57

### Test Information

Test Number: NTR2978R1  
 Part Number: NPR-4RTLND40XMPW  
 Beam Spread: 37° Narrow Flood  
 Lumens: 1152lm  
 Wattage: 9.87W  
 Efficacy: 117pw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.62  
 Spacing Criteria (90°-270°): 0.62



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	134fc	2'-8"
6'	59.4fc	4'
8'	33.4fc	5'-5"
10'	21.4fc	6'-8"
12'	14.8fc	8'-1"

### Zonal Lumen Summary

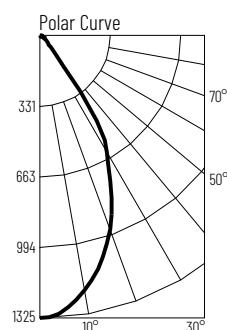
Zone	Lumens	% Luminaire
0-30	878	76.2
0-40	1048	91
0-60	1127	97.8
0-90	1152	100
90-180	0	0
0-180	1152	100

### Candela Table

Vertical Angles	Candela
0	2137
5	2069
15	1408
25	647
35	305
45	57

### Test Information

Test Number: NTR2977R1  
 Part Number: NPR-4RTLND40XMPW  
 Beam Spread: 58° Flood  
 Lumens: 1147lm  
 Wattage: 9.87W  
 Efficacy: 116pw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.88  
 Spacing Criteria (90°-270°): 0.88



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	82.8fc	4'-5"
6'	36.8fc	6'-8"
8'	20.7fc	8'-11"
10'	13.3fc	11'-1"
12'	9.2fc	13'-4"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	794	69.2
0-40	1031	89.8
0-60	1118	97.5
0-90	1147	100
90-180	0	0
0-180	1147	100

### Candela Table

Vertical Angles	Candela
0	1325
5	1295
15	1105
25	796
35	402
45	68

### Lumen Output Multipliers

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

### Finish Multipliers

Finish: Black (0.84), Bronze (0.85), Haze (0.95), Bright White (1.00), Warm White (1.03)