NPR-4RSL

4" Pearl LED Round Adjustable Slot Aperture Retrofit
Source: 12W LED
1000lm

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 1-3/4" x 1-3/8" opening.

FEATURES
· 1000lm LED output
· Comfort Dim (warm dimming) also available in 800lm only
· 2700K, 3000K, 3500K, 4000K @ 90+ CRI
· Field changeable optics included (Spot, Narrow Flood and Flood - installed)
· Integral dimmable driver
· 5-year limited warranty
· ENERGY STAR certified
· cULus classified for damp locations

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

Mounting: Reflector includes friction blades to mount securely to housing.

OPTICS
Each reflector includes field changeable optics (28° spot, 36° narrow flood and 47° flood - preinstalled). Premium 15° and 25° TIR optics are also available.

ELECTRICAL
Input Voltage: 120V
Lumens / Wattage: 1000lm / 12W (800lm w/ Comfort Dim)
Color Temperature: 2700K, 3000K, 3500K, 4000K
CRI: 90+CRI
Operating Temp.: 0°C to 25°C ambient temperature
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 800lm only.
Dimming: Triac or ELV
Click Here or check complete dimmer list at 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
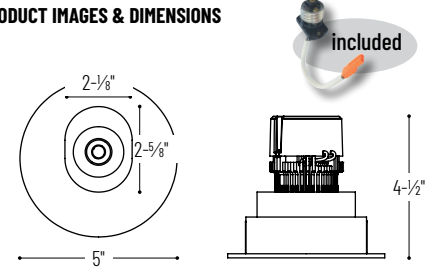NSIC-4LMRAT   Max. Adjustability ICAT Dedicated LED

Accessories: Reflectors will 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 JA8-2019

PRODUCT IMAGES & DIMENSIONS

included

2-1/8"
2-5/8"
5"
4-1/2"

NPR-4RSL
Round Adjustable Slot Aperture
30° Adjustable (varies by housing)
For maximum adjustment use NSIC-4LMRAT

BB
Black Slot Aperture
Black Flange

BMPW
Black Slot Aperture
Matte Powder White Flange

HZMPW
Haze Slot Aperture
Matte Powder White Flange

MPW
Matte Powder White Aperture
Matte Powder White Flange

4" Pearl LED Round Adjustable Slot Aperture Retrofit

Reflector Type	Color Temperature / Lumens	Finish
NPR-4RSL = Round Adjustable Slot Aperture	**27X** = 2700K / 1000lm	**BB** = Black / Black
	30X = 3000K / 1000lm	**BMPW** = Black / Matte Powder White
	35X = 3500K / 1000lm	**HZMPW** = Haze / Matte Powder White
	40X = 4000K / 1000lm	**MPW** = Matte Powder White
	CDX = Comfort Dim / 800lm	

Example: **NPR-4RSL27XMPW** = 4" Pearl LED Round Adjustable Slot Aperture Retrofit, 2700K / 1000lm, Matte Powder White finish
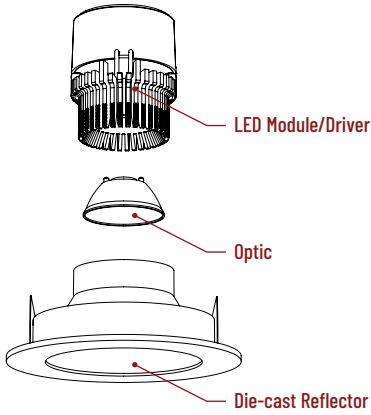
Pearl LED Retrofit Accessories
4" Pearl LED Round Adjustable Slot Aperture Retrofit

FIELD CHANGEABLE OPTICS

Pearl reflectors include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast reflector. 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 Reflector

Frosted Filter-Optic

NIO-REFL15FR	15° Optic
NIO-REFL25FR	28° Optic
NIO-REFL38FR	36° Optic
NIO-REFL60FR	47° Optic

Optic assemblies includes specified optic and optional frosted lens. 28°, 36° and 47° optics are included with each reflector.
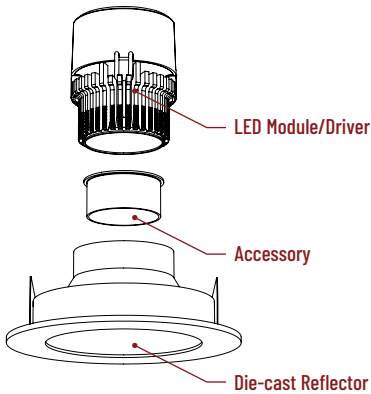
Premium TIR Optics

NIO-REFLTIR15	15° Optic
NIO-REFLTIR25	25° 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 reflector. Luminaire will accommodate (1) hex louver and (1) collar accessory, no accessory holder required.

LED Module/Driver

Accessory

Die-cast Reflector

Translucent Decorative Collar

NIO-AS14(color)	5/8" length
NIO-AS19(color)	3/4" 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)	5/8" length
NIO-AS19(color)	3/4" length
NIO-AS26(color)	1" length

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

Opaque snoot greatly reduces aperture brightness while preserving light output. (Note: Black snoot will reduce light)

Hex Cell Louver

NIO-HC   Black

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

PHOTOMETRICS
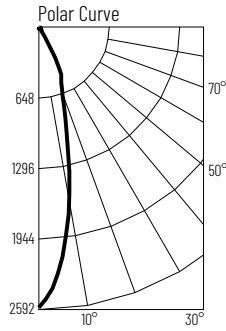## 4" Pearl LED Round Adjustable Slot Aperture Retrofit

Type

Project

Catalog No.

092221P3

Notes

Test Information
Test Number: NTR1539
Part Number: NPR-4RSL30XWW
Beam Spread: 28° Spot
Lumens: 884lm
Wattage: 11.69W
Efficacy: 76pw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.48
Spacing Criteria (90º–270): 0.4

Polar Curve

648, 1296, 1944, 2592 — 10° 30° 50° 70°

Illuminance at a Distance

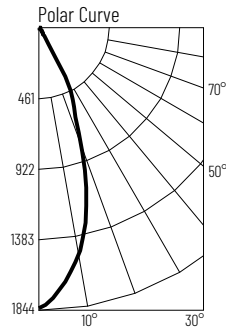| Distance from Luminaire	FC at Nadir	Beam Diameter
4'	161fc	2'
6'	71.5fc	3'-1"
8'	40.2fc	4'-1"
10'	25.7fc	5'-1"
12'	17.9fc	6'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	743	84
0-40	787	89
0-60	843	95.3
0-90	882	99.7
90-180	3	0.3
0-180	884	100

Candela Table

Vertical Angles	Candela
0	2573
5	2375
15	1147
25	523
35	62
45	31

Test Information
Test Number: NTR1540
Part Number: NPR-4RSL30XWW
Beam Spread: 36° Narrow Flood
Lumens: 872lm
Wattage: 11.72W
Efficacy: 74pw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.62
Spacing Criteria (90º–270): 0.54

Polar Curve

461, 922, 1383, 1844 — 10° 30° 50° 70°

Illuminance at a Distance

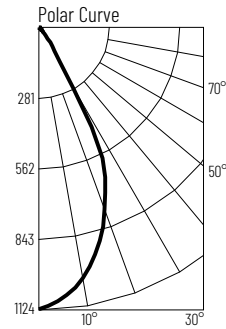| Distance from Luminaire	FC at Nadir	Beam Diameter
4'	115fc	2'-11"
6'	50.9fc	4'-4"
8'	28.6fc	5'-8"
10'	18.3fc	7'-2"
12'	12.7fc	8'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	728	83.5
0-40	773	88.6
0-60	828	95
0-90	870	99.7
90-180	2	0.3
0-180	872	100

Candela Table

Vertical Angles	Candela
0	1832
5	1723
15	1213
25	547
35	54
45	29

Test Information
Test Number: NTR1541
Part Number: NPR-4RSL30XWW
Beam Spread: 47° Flood
Lumens: 821lm
Wattage: 11.67W
Efficacy: 70pw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0º–180): 0.86
Spacing Criteria (90º–270): 0.74

Polar Curve

281, 562, 843, 1124 — 10° 30° 50° 70°

Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	70fc	4'-4"
6'	31.1fc	6'-5"
8'	17.5fc	8'-6"
10'	11.2fc	10'-7"
12'	7.8fc	12'-10"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	624	76
0-40	712	86.8
0-60	774	94.3
0-90	819	99.7
90-180	2	0.3
0-180	821	100

Candela Table

Vertical Angles	Candela
0	1120
5	1095
15	929
25	674
35	137
45	35

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