NPR-56RNDC

5"/6" Pearl 120V LED Round Retrofit Downlight
Source: 12W LED
1200lm

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. Retrofit luminaire delivers over 1200 lumens with deep regressed cone reflector for optimal visual cut-off.

FEATURES
· Medium base socket adapter included
· Retrofit existing 5" or 6" recessed housings
· Comfort Dim (warm dimming) is available in 900lm only
· 2700K, 3000K, 3500K, 4000K @ 90+ CRI
· Field changeable optics included (Spot, Narrow Flood and Flood - installed)
· Integral dimmable driver
· 5-year limited warranty
· cULus classified for wet locations

SPECIFICATION
Construction: Trims 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: 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.

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.

ELECTRICAL
Input Voltage: 120V
Lumens / Wattage: 1200lm / 12W (900lm w/ Comfort Dim)
Color Temperature: 2700K, 3000K, 3500K, 4000K
Color Rendering Index: 90+CRI
Beam Spread: 29° Spot, 44° Narrow Flood, 61° 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 900lm 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
Retrofit is compatible with most 5" & 6" IC and Non-IC housings by Nora and others.

Fire Box
NFBIC-5INCATA	5" ICAT Fire Box
NFBIC-5LMRATA*	5" ICAT Dedicated LED Fire Box
NFBIC-6INCATA	6" ICAT Fire Box
NFBIC-6LMRATA*	6" ICAT Dedicated LED Fire Box

New Construction
NHIC-5LMRAT*	5" ICAT Dedicated LED
NHIC-5LMRAT/277*[1]	5" ICAT Dedicated LED, 277V
NHIC-527LMRAT*	5" ICAT Shallow Dedicated LED
NHIC-501QAT	5" ICAT Line Voltage
NHIC-527QAT	5" ICAT Shallow Line Voltage
NHIC-6LMRAT*	6" ICAT Dedicated LED
NHIC-6LMRAT/277*[1]	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-17QNBAT	6" ICAT Line Volt (No Bracket)
NHIC-27QAT	6" ICAT Shallow Line Voltage
NH-26Q	6" Line Voltage
NH-27Q	6" Shallow Line Voltage
NHIC-6G24ATFL	6" ICAT GU24

Remodel
NHRIC-5LMRAT*	5" ICAT Dedicated LED
NHRIC-527LMRAT*	5" ICAT Shallow Dedicated LED
NHRIC-504QAT	5" ICAT Line Voltage
NHRIC-527QAT	5" ICAT Shallow Line Voltage
NHR-504Q	5" Line Voltage
NHRIC-6LMRAT*	6" ICAT Dedicated LED
NHRIC-27LMRAT*	6" ICAT Shallow Dedicated LED
NHRIC-17QAT	6" ICAT Line Voltage
NHRIC-17QNBAT	6" ICAT Line Volt (No Bracket)
NHRIC-27QAT	6" ICAT Shallow Line Voltage
NHR-26Q	6" Line Voltage
NHR-27Q	6" Shallow Line Voltage

* Nora LED Dedicated housings are cULus listed for use only with Nora LED Retrofits.
[1] Housings include a step down transformer

Accessories: Luminaire can accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see page 2.

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

Performance Data
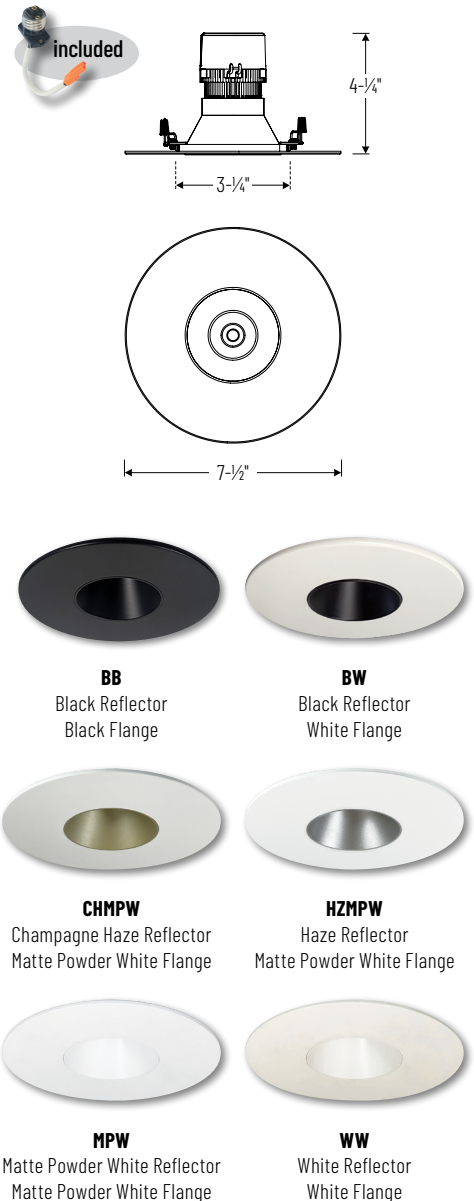| Part Number	Lumens	CCT	Optic
NPR-56RNDC40XMPW	1218lm	4000K	Spot
NPR-56RNDC40XMPW	1225lm	4000K	Narrow
NPR-56RNDC40XMPW	1200lm	4000K	Flood

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS

included

4-¼"
3-¼"
7-½"

BB
Black Reflector
Black Flange

BW
Black Reflector
White Flange

CHMPW
Champagne Haze Reflector
Matte Powder White Flange

HZMPW
Haze Reflector
Matte Powder White Flange

MPW
Matte Powder White Reflector
Matte Powder White Flange

WW
White Reflector
White Flange

5"/6" Pearl 120V LED Round Retrofit Reflector with Round Aperture

Color Temperature	Finish
NPR-56RNDC27X = 2700K	**BB** = Black / Black
NPR-56RNDC30X = 3000K	**BW** = Black / White
NPR-56RNDC35X = 3500K	**CHMPW** = Champagne / Matte Powder White
NPR-56RNDC40X = 4000K	**HZMPW** = Haze / Matte Powder White
NPR-56RNDCCDX = Comfort Dim	**MPW** = Matte Powder White
	WW = White / White

Example: **NPR-56RNDC27XWW** = 5"/6" Pearl 120V LED Round Retrofit Reflector with Round Aperture, 2700K, White finish
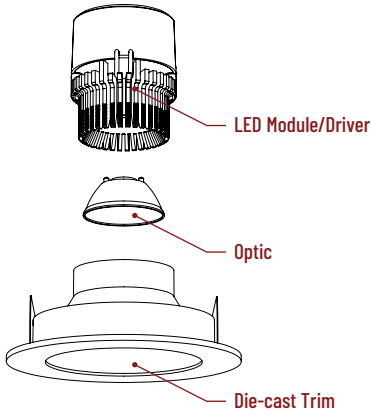
Pearl LED Retrofit Accessories
5"/6" Pearl LED Round Retrofit Downlight

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 Optics

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

Replaces optics that are included with each LED module.

Premium TIR Optics

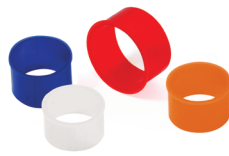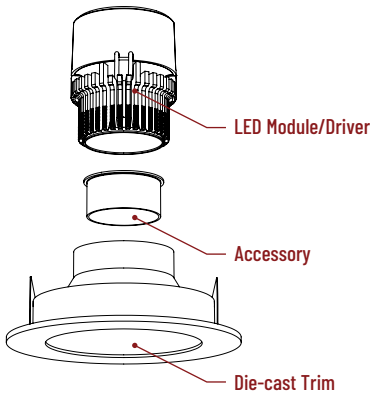|	
NIO-REFLTIR15	22° Optic
NIO-REFLTIR25	26° Optic

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.

- 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%.

PHOTOMETRICS
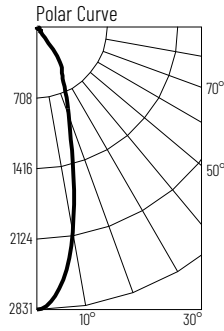## 5"/6" Pearl LED Round Retrofit Downlight

Type _____

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Catalog No. _____

Notes _____

Test Information
Test Number: NTR1885R1
Part Number: NPR-56RNDC40XWW
Beam Spread: 29° Spot
Lumens: 1218lm
Wattage: 11.89W
Efficacy: 102pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.48
Spacing Criteria (90°-270°): 0.48

Polar Curve

Illuminance at a Distance

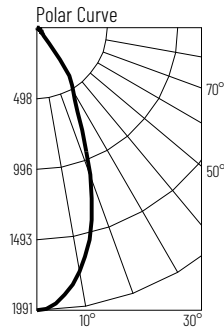| Distance from Luminaire	FC at Nadir	Beam Diameter
4'	177fc	2'
6'	78.7fc	3'
8'	44.2fc	4'-1"
10'	28.3fc	5'-1"
12'	19.7fc	6'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	928	76.2
0-40	1122	92.1
0-60	1194	98.1
0-90	1218	100
90-180	0	0
0-180	1218	100

Candela Table

Vertical Angles	Candela
0	2831
5	2547
15	1324
25	716
35	346
45	58

Test Information
Test Number: NTR1886R1
Part Number: NPR-56RNDC40XWW
Beam Spread: 44° Narrow Flood
Lumens: 1225lm
Wattage: 11.91W
Efficacy: 103pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.7
Spacing Criteria (90°-270°): 0.7

Polar Curve

Illuminance at a Distance

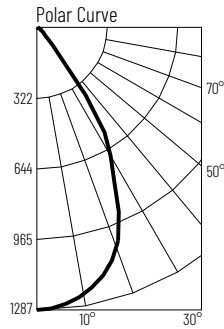| Distance from Luminaire	FC at Nadir	Beam Diameter
4'	124fc	3'-2"
6'	55.3fc	4'-10"
8'	31.1fc	6'-5"
10'	19.9fc	8'
12'	13.8fc	9'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	932	76.1
0-40	1128	92.1
0-60	1200	98
0-90	1225	100
90-180	0	0
0-180	1225	100

Candela Table

Vertical Angles	Candela
0	1991
5	1906
15	1444
25	771
35	338
45	55

Test Information
Test Number: NTR1887R1
Part Number: NPR-56RNDC40XWW
Beam Spread: 61° Flood
Lumens: 1200lm
Wattage: 11.94W
Efficacy: 100pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.94
Spacing Criteria (90°-270°): 0.94

Polar Curve

Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	80.5fc	4'-8"
6'	35.8fc	7'-1"
8'	20.1fc	9'-6"
10'	12.9fc	11'-11"
12'	8.9fc	14'-2"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	838	69.9
0-40	1089	90.8
0-60	1173	97.8
0-90	1200	100
90-180	0	0
0-180	1200	100

Candela Table

Vertical Angles	Candela
0	1287
5	1268
15	1146
25	875
35	431
45	65

Lumen Output Multipliers
Color Temperature: 2700K (0.9), 3000K (0.92), 3500K (0.97), 4000K (1.0)