

Type \_\_\_\_\_  
 Project \_\_\_\_\_  
 Catalog No. \_\_\_\_\_  
 Lamp/Wattage \_\_\_\_\_

**NHIC-6LEDAT**  
**6" LED IC/Airtight New Construction Housing**

Source: 14W LED

**PRODUCT DESCRIPTION**

Dedicated new construction housings for use in insulated ceilings can be in direct contact with thermal insulation. Airtight construction provides energy savings by reducing the flow of air through the ceiling. Each LED housing requires a Nora Lighting LED Trim. The LED driver is attached to the housing to allow easy of installation. Integrating Osram® 1.2W LEDs and exceeding Title 24 high efficacy requirements with savings of over 75% when compared with a 65W BR30.

**Features**

- IC rated for direct contact with insulation.
- Quick connect provided for electrical connection to the LED Trim.
- ASTM E283 for Air Tight.
- Title 24 Compliant.
- UL listed for through branch circuit wiring.
- UL listed for Wet Location.
- Economical 2-wire dimming down to 3%.
- 50,000 hours at 70% lumen maintenance rated life.
- Modular Design; Install Housing w/ Driver, then finish with the LED Trim.
- Three year limited warranty.

**CONSTRUCTION**

**Plaster Frame**

High quality 0.040 steel die cut one piece frame.

**Housing**

0.040 steel housing adjusts to maximum ceiling thickness of 1-5/8" (41mm). Spring brackets accept torsion wing trim springs; slots on socket plate surface accept standard coil springs.

**Clearance**

"IC" Insulated Ceiling housings are direct contact rated; no minimum clearance is required.

**Bar Hangers**

Two 13-3/4" to 24-1/2" adjustable bar hangers with nails are included on frame. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. Bar hanger foot contoured to align to bottom of construction joist. A T-Bar notch allow for easy installation in a suspended ceiling.

**ELECTRICAL**

**LED Driver**

120V AC, 60Hz, Power factor > 0.9 at 120V. Dimmable with most incandescent 2-wire dimmers. Mounted on the junction box for cool operation and easy access. Class 2 driver.

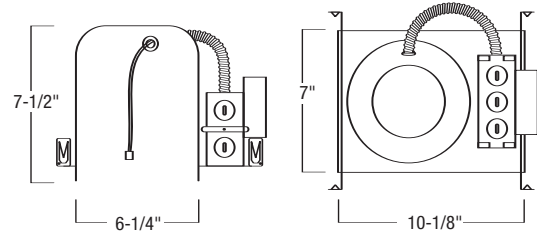
**Junction Box**

Plaster frame integrated 25 cubic inch .064" thick galvanized steel, with seven 1/2" NPT knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

**Thermal Protector**

Standard UL thermal protector rated for 90°C is affixed to inner top surface of housing.

**DIMENSIONS**



Cut out: 6-3/8"  
 ID: 6"  
 OD: 7-1/8"  
 Housing Length: 10-1/8"  
 Housing Width: 7"  
 Height: 7-1/2"

**Compatibility**

The NHIC-6LEDAT is compatible with:

- NTR-6LED: 6" (5-1/2" aperture) LED Reflector Trim with Self-Flanged die-cast trim ring.

**LED Source**

12 LEDs at 1.2W each.

**Trim - Ordered Separately**

Self-flanged die-cast trim ring with scientifically designed lens diffuses the LED image while providing high lumen output. Available in two color temperatures, 3000K and 4200K, to accommodate different appearances.

**Optional Dimming**

A variety of incandescent and electronic low voltage dimmers are compatible with Nora's LED trims. Incandescent dimmers have a minimum circuit load of 4 LED Recessed fixtures. Electronic Low Voltage dimmers do not have a minimum load requirement.

Incandescent Dimmer

Lutron MAESTRO (MAW-600)  
 Lutron DIVA (DV-600P)

Electronic Low Voltage Dimmer

Lutron MAESTRO (MAELV-600)  
 Lutron DIVA (DVELV-300P)  
 Lutron SKYLARK (SELV-300P)

**Optional Accessories**

NRA-28 27" Flat Bar Hanger

**Labels and Listings**

UL Listed for Damp Location w/ Feed Through  
 UL Listed for Wet Location  
 Washington State Energy Code ASTM-E283 for Air Tight  
 Title 24 Compliant



Create a complete fixture/trim catalog number: Example: NHIC-6LEDAT / NTR-6LED30PP

**Housing - select one box from each column**

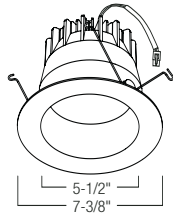
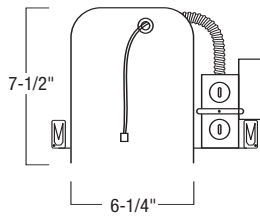
Catalog No.	Light Source	Airtight
NHIC-6	LED	AT

**Trim - select one box from each column**

Catalog No.	Color Temperature	Reflector Finish	Flange Finish
NTR-6LED	30 = 3000K	B = Black	P = Platinum Diffused
	42 = 4200K	P = Platinum Diffused	W = White
		W = White	

## NHIC-6LEDAT REFLECTOR TRIM

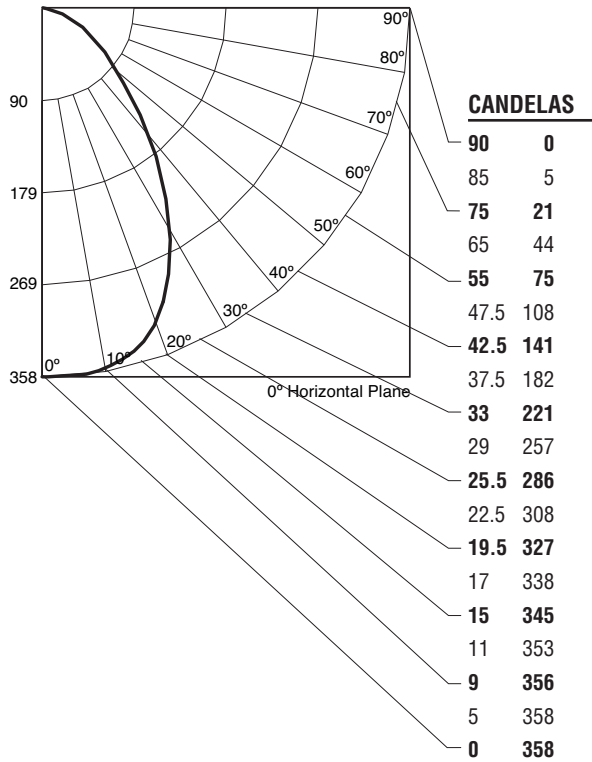
**NTR-6LED** 14W, 6", Self Flanged Reflector Trim  
(5-1/2" Aperture)



Color Temp: 3000K (30), 4200K (42)  
Reflector: Black (B), Platinum Diffused (P),  
White (W)  
Flange: Platinum Diffused (P), White (W)  
Aperture: 5-1/2"  
Trim OD: 7-1/8"  
Lamp: 12 LEDs  
UL Wet Location Listed  
\* Refer to Trim Spec Sheet for more info.\*

# NHIC-6LEDAT / NTR-6LED30WW White Self Flanged Reflector Trim

Lab: Light Laboratory Inc. Test No. LLI 0909-04A Spacing Criteria: 1.08 LPW: 44 Lamp: 12 3000K LEDs Total Watts: 14.4W Lumens: 630



## ZONAL LUMEN SUMMARY

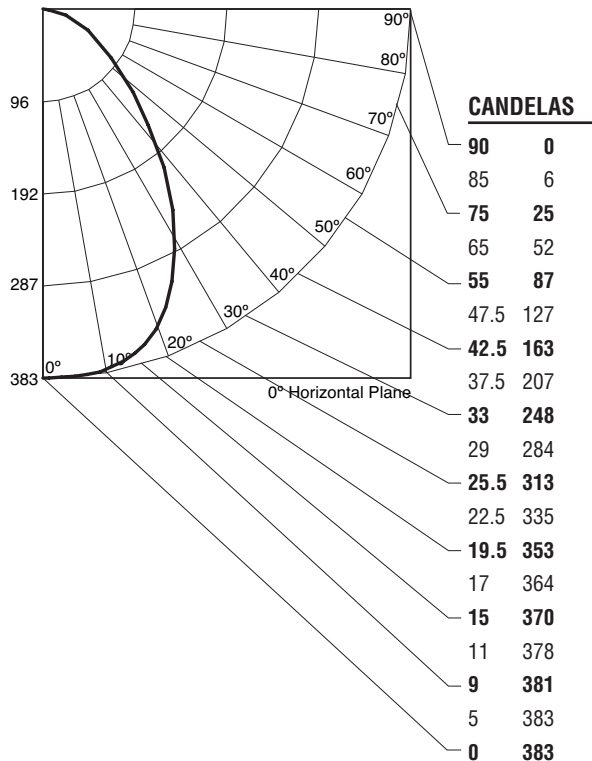
Zone	Lumens	%Lamp	%Fixture
0-30°	249.69	N.A.	39.6
0-40°	361.05	N.A.	57.3
0-60°	524.85	N.A.	83.3
0-90°	630.13	N.A.	100
90-120°	0	N.A.	0
90-130°	0	N.A.	0
90-150°	0	N.A.	0
90-180°	0	N.A.	0
0-180°	630.13	N.A.	100

## BEAM & CONE DATA

Mounting Height	F.C. at Center	Circle Diameter
4'	22.4	4.3'
6'	9.9	6.5'
8'	5.6	8.6'
9'	4.4	9.7'
10'	3.6	10.8'

# NHIC-6LEDAT / NTR-6LED42WW White Self Flanged Reflector Trim

Lab: Light Laboratory Inc. Test No. LLI 0809-13A Spacing Criteria: 1.12 LPW: 52 Lamp: 12 4200K LEDs Total Watts: 13.65W Lumens: 709



## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	270.27	N.A.	38.1
0-40°	395.13	N.A.	55.7
0-60°	585.1	N.A.	82.5
0-90°	709	N.A.	100
90-120°	0	N.A.	0
90-130°	0	N.A.	0
90-150°	0	N.A.	0
90-180°	0	N.A.	0
0-180°	709	N.A.	100

## BEAM & CONE DATA

Mounting Height	F.C. at Center	Circle Diameter
4'	23.6	4.5'
6'	10.5	6.7'
8'	5.9	9.0'
9'	4.7	10.1'
10'	3.8	11.2'