

Type _____
 Project _____
 Catalog No. _____
 Lamp/Wattage _____

NLEDC-421 / NLEDC-422 / NLEDC-428

4" LED Diamond II Reflector/Baffle trims

Lamp: LED 10.55 Watts 650 Lumen

PRODUCT DESCRIPTION

Nora Lighting's 4" LED Diamond II Recessed Luminaires are cULus listed for use in existing 4" IC or Non-IC housings manufactured by Nora and others. The units provide 650 lumen output, 10.55 Watts and 92CRI. Nora's 4" LED is designed with a deep cut-off and a 2" light source giving it the appearance of a designer accepted MR16. An obvious choice for Green Energy Efficient lighting in commercial and residential applications.

FEATURES

- 10.55 Watts
- Latest Cree® technology; integrated driver and ceramic LED package
- 55.7 Lumens per Watt and 65% efficacy
- 650 Lumen
- High color rendition - 90+CRI
- 2700K, 3000K, and 4000K
- Dimmable: 5% with electronic low voltage dimmer or 10% with 2-wire dimmer
- 5-Year limited warranty
- cULus listed for damp location

SPECIFICATION

TRIM

Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output (NLEDC-421/428). Aluminum spun baffle trim with deep grooves to reduce aperture glare while providing high lumen output (NLEDC-422). Available in three color temperatures, 2700K, 3000K or 4000K, to accommodate different appearances.

CONSTRUCTION

Scientifically and specifiable "Unitized Thermal Management" (UTM) provides exceptional cool operation exceeding all industry standards.

MOUNTING

Trim includes Friction Blades to mount trim securely to housing.

ELECTRICAL

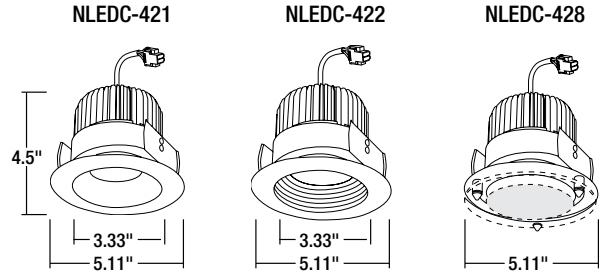
Voltage:	120VAC
Current:	100mA
Power Consumption:	10.55 Watts
Light Source:	Cree Integrated Platform
Lumens:	650 lm
CRI:	92 CRI
LED Driver:	Built-in driver
Operating Temperature:	0°C to 75°C ambient temperature
Life Expectancy:	50,000 hours

Diamond II Series - 4" LED Reflector / Baffle Trim

Catalog No.	Trim Style	CRI	Color Temp.	Finishes
NLEDC-	421 =	9 = 90+	27 = 2700K	BB = Specular Black Reflector & Flange
	Reflector		30 = 3000K	BW = Specular Black Reflector, White Flange
	428 =		40 = 4000K	BZ = Bronze Reflector & Flange
	Reflector for			CO = Copper Reflector & Flange
	Decorative			CW = Specular Clear Reflector, White Flange
	Glass			DW = Diffused Clear with White Flange
			HZW = Haze Reflector, White Flange	
			NN = Natural Metal Reflector & Flange	
			WW = White Reflector & Flange	
NLEDC-	422 =	9 = 90+	27 = 2700K	BW = Black Baffle, White Flange
	Baffle		30 = 3000K	BZ = Bronze Baffle & Flange
			40 = 4000K	CO = Copper Baffle & Flange
				NN = Natural Metal Baffle & Flange
			WW = White Baffle & Flange	

Create a complete item number: Example: NLEDC-421927BB

DIMENSIONS



SOCKET

Nora's 4" LED Diamond Series works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers are 5-100% and for trailing-edge dimmers 10-100%. Nora's 4" Diamond Series only requires 10.55 watts of power, it has much higher efficiency and efficacy than other standard lighting fixtures. There may be some cases that require more than one lighting fixture to be used to achieve the minimum dimmer load This will greatly depend on the particular dimmer used.

RETROFIT

NLEDC units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.



COMPATIBLE HOUSINGS

NLEDC-4 series is compatible with IC Air-Tight LED Diamond Series Dedicated housings listed below. NLEDC-4 series includes medium base screw-in and is compatible with Nora listed housing and housings by others. NLEDC-4XX includes male/female disconnect for converting housing in field to dedicated housing.

LABELS AND LISTINGS

Title 24 Compliant
 cULus Listed for wet location
 WSEC ASTM E283 for Air-Tight
 Energy Star Rated
 RoHS Compliant
 5 Year Limited Warranty



Compatible Housings

Catalog No.	Description
FireBox	
NFBIC-4LMRAT	4" LED Diamond 2-Hour Fire Rated IC / Non-IC Air-Tight, 120V
New Construction	
NSIC-401QAT	4" ICAT Line Voltage
NS-401QAT	4" AT Line Voltage
NHIC-4G24AT	4" ICAT GU24 (NRA-212)
NHIC-4LMRAT	4" ICAT Dedicated LED
Remodel	
NSR-404QAT	4" AT Line Voltage
NHRIC-4G24AT	4" ICAT GU24 (NRA-212)
NHRIC-4LMRAT	4" ICAT Dedicated LED

OPTIONAL ACCESSORY

NRA-212 ICAT GU24 Adapter

NLEDC-421 / NLEDC-422 / NLEDC-428

4" LED Diamond II Reflector/Baffle trims

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DECORATIVE GLASS OPTIONS - for NLEDC-428 Sold separately

- NTG-4B/80 4" Tempered Blue Glass with 3-1/8" Open Center
- NTG-4CF 4" Tempered Clear Glass with Frosted Center
- NTG-4FC 4" Tempered Frosted Glass with Clear Center
- NTG-4HC 4" Tempered Clear Glass with Frosted Center & 3-1/8" Open Center

Dimmer Compatibility

120-VAC Dimmer Compatibility

Manufacturer	Model/Series	Part Number	Type	Compatible with 1 LMR2	Compatible with 2 LMR2
Lutron	Ceana	CN-600P	600-W IND/HAL	•	
	Ceana	CNL-V-600P	600-W MLV	•	
	Centurion	C-600	600-W IND/HAL		
	Dial Dimmer	D-600	600-W IND	•	
	Diva	DV-100P	600-W IND	•	
	Diva	DV-600P	600-W IND	•	
	Diva	DVELV-300P	300-W ELV	•	
	Diva	DVF-103P	1000-W MLV	•	
	Diva	DVLP-600P	600-W MLV	•	
	Diva	DVWCL-153DH	150-W CFL/LED	•	
	Faendra	FAELV-500	300-W ELV	•	
	Glyder	GL-600H	600-W IND	•	
	Lumea	LG-603PG	600-W IND/HAL	•	
	Lyneo	LX-600PL	600-W IND/HAL	•	
	Maestro	MA-1000	1000-W IND		•
	Maestro	MACL-153M	150-W CFL/LED	•	
	Maestro	MAELV-600	600-W ELV	•	
	Maestro	MALV-1000	1000-W MLV		•
	Maestro	MAW-600	600-W IND	•	
	Nova	NLV-1503P	1200-W MLV		•
	Nova	N-600	600-W IND	•	
	Nova T	NT-603P	600-W IND/HAL	•	
	Nova T	NTB-600	600-W IND/HAL	•	
	Nova T	NTELV-600	600-W ELV	•	
	Radio	RA2 RRD-6NA	600-W MLV/EVL	•	
	Radio	RA2 RRD-10ND	1000-W MLV	•	
	Skylark	S-10P	1000-W IND	•	
	Skylark	S-600P	600-W IND	•	
	Skylark	SELV-300P	300-W ELV	•	
	Skylark	SL-2	1000-W UNI	•	
Skylark	SLV-600P	600-W MLV	•		
Sureslide	6673-P	600-W IND	•		
Toggler	TG-600PR-WH	600-W IND/HAL	•		
Pass and Seymore		LS600	600-W IND	•	
	WideSlide	90680-W	600-W IND	•	
Wattstopper			600-W UNI		•

- CFL** = Compact Fluorescent Dimmer
- ELV** = Electronic Low-Voltage Dimmer
- IND** = Incandescent Dimmer
- LED** = Light Emitting Diode Dimmer
- MLV** = Magnetic Low-Voltage Dimmer
- UNI** = Universal Dimmer

The presence of a dimmer in the compatibility tables is not a guarantee or warranty of the compatibility of the LMR2 product family in any particular installation. The absence of a dimmer from these tables does not necessarily imply incompatibility. Please reference the dimmer manufacturer's instructions for installation and further product information

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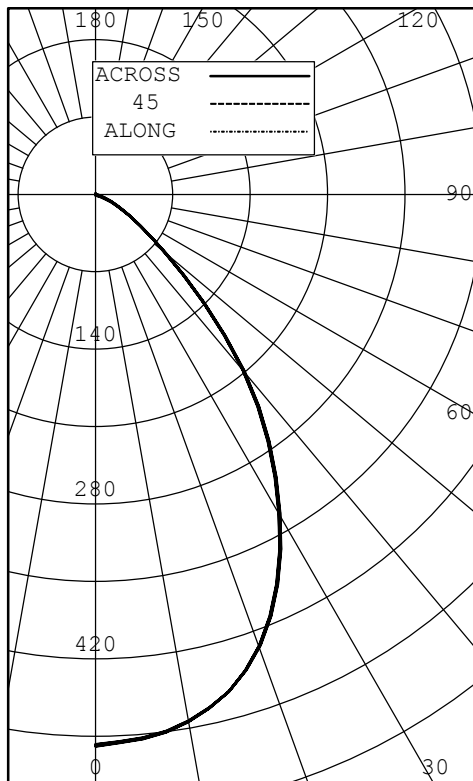
4" LED Diamond II Reflector/Baffle trims

Lamp: LED 10.55 Watts 650 Lumen

COEFFICIENTS OF UTILIZATION

CC	90				80				70				50				30				10				0				
	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR																													
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00
1	1.15	1.12	1.09	1.07	1.13	1.10	1.07	1.05	1.11	1.08	1.05	1.03	1.04	1.02	1.00	1.00	1.00	0.98	0.97	0.97	0.97	0.95	0.94	0.94	0.92	0.92	0.92	0.92	0.92
2	1.09	1.03	0.99	0.94	1.06	1.01	0.97	0.93	1.04	0.99	0.95	0.92	0.96	0.93	0.90	0.90	0.93	0.91	0.88	0.88	0.90	0.88	0.86	0.86	0.85	0.85	0.85	0.85	0.85
3	1.02	0.94	0.89	0.84	1.00	0.93	0.88	0.83	0.98	0.92	0.87	0.83	0.89	0.85	0.81	0.81	0.87	0.83	0.80	0.80	0.84	0.81	0.79	0.79	0.77	0.77	0.77	0.77	0.77
4	0.96	0.87	0.80	0.76	0.94	0.86	0.80	0.75	0.92	0.85	0.79	0.74	0.82	0.77	0.74	0.74	0.80	0.76	0.73	0.73	0.78	0.75	0.72	0.72	0.70	0.70	0.70	0.70	0.70
5	0.90	0.80	0.73	0.68	0.88	0.79	0.72	0.67	0.86	0.78	0.71	0.67	0.76	0.70	0.66	0.66	0.74	0.69	0.66	0.66	0.73	0.69	0.65	0.65	0.64	0.64	0.64	0.64	0.64
6	0.85	0.74	0.67	0.62	0.83	0.73	0.66	0.61	0.81	0.72	0.66	0.61	0.70	0.65	0.61	0.61	0.69	0.64	0.60	0.60	0.68	0.63	0.60	0.60	0.58	0.58	0.58	0.58	0.58
7	0.79	0.68	0.61	0.56	0.78	0.67	0.60	0.56	0.76	0.67	0.60	0.55	0.65	0.59	0.55	0.55	0.64	0.59	0.55	0.55	0.63	0.58	0.54	0.54	0.53	0.53	0.53	0.53	0.53
8	0.74	0.62	0.55	0.50	0.73	0.62	0.55	0.50	0.71	0.61	0.54	0.50	0.60	0.54	0.50	0.50	0.59	0.53	0.49	0.49	0.58	0.53	0.49	0.49	0.48	0.48	0.48	0.48	0.48
9	0.69	0.57	0.50	0.45	0.68	0.57	0.50	0.45	0.66	0.56	0.49	0.45	0.55	0.49	0.45	0.45	0.54	0.48	0.44	0.44	0.53	0.48	0.44	0.44	0.43	0.43	0.43	0.43	0.43
10	0.64	0.52	0.45	0.41	0.63	0.52	0.45	0.41	0.62	0.51	0.45	0.40	0.50	0.44	0.40	0.40	0.50	0.44	0.40	0.40	0.49	0.44	0.40	0.40	0.38	0.38	0.38	0.38	0.38

INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP
0	498
5	494
10	484
15	465
20	434
25	389
30	333
35	273
40	208
45	139
50	83
55	50
60	30
65	15
70	5
75	1
80	0
85	0
90	0

LUMINACE SUMMARY CD./SQ.M.

ANGLE	MEAN CD/SQ M
45	39696
55	17561
65	7278
75	434
85	58

ZONAL LUMENS & PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	355	51.05
0-40	524	75.34
0-60	678	97.52
0-90	695	100.00
40-90	171	24.66
60-90	17	2.48
90-180	0	0.00
0-180	695	100.00