ND22 Modular, Optics-Adjustable Downlights



LED Module



LED Module + Reflector Installed



Round Trim



Square Trim



Wall Wash Trim



New Construction

PROJECT:

DATE:

TYPE:

PREPARED BY:

5 YEAR NO-COMPROMISE WARRANTY | UL CERTIFIED | TITLE 24 PART 6 JA8 HIGH EFFICACY LED LIGHT SOURCE REQUIREMENTS | ENERGY STAR | RoHS | FC COMPLIANT | Lightcloud

WHITE | HAZE | HAZE + WHITE | BLACK

12, 20, 30 & 50W; 1200-4500 lumens; 3, 4, 6, 8 & 10"; Round, square, wall wash; universal dimming

POWER/WATTAGE ADJUSTABLE | CCT ADJUSTABLE | BEAM ANGLE ADJUSTABLE | 90 CRI | 50,000 HOURS | AIR TIGHT | DAMP RATED | TRIAC/ELV 0-10V | 120-277V

KEY FEATURES

- Modular commercial downlight with interchangeable twist-lock trims
- 3 selectable brightness levels & 5 selectable CCTs (2700/3000/3500/4000/5000K)
- Available in 12W (1,000lm), 20W (1,850lm), 30W (2,800lm), and 50W (4,700lm) LED modules
- Adjustable 25° to 45° (12, 20, 30W) beam angle or 30° to 50° (50W) by rotating the lens assembly

  Twist-lock trims are available in:

  12W - 3", 4", & 6" sizes

  20/30W - 4", 6" & 8" sizes

  50W - 6", 8", & 10" sizes
- Trim finishes available in White, Black, Haze, and Haze reflector and White Flange
- Round trims available in open flanged & wall wash. Square trims available in open flanged.
- 120-277V Driver, compatible on TRIAC/ELV & 0-10V dimmers

PERFORMANCE

LED Light Engine	Wattage	Lumens	Efficacy (lm/W)	Beam Angle	Input Voltage	Dimming
ND22-12	7W	641	94	25° to 45°	120-277V	TRIAC/ELV/ 0-10V
	9W	797	93			
	12W	1016	93			
ND22-20	12W	1253	106			
	16W	1576	101			
	20W	1909	98			
ND22-30	18W	1930	109			
	24W	2477	104			
	30W	2901	101			
ND22-50	30W	3192	110	30° to 50°		
	40W	4006	104			
	50W	4708	102			

Reflector Finish Multiplier

Finish	Multiplier	Finish	Multiplier	Finish	Multiplier	Finish	Multiplier
W = White Reflector + Flange	1	HZ = Haze Reflector + Flange	1.027	HW = Haze Reflector + White Flange	1.02	B = Black Reflector + Flange	0.9

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TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type
Modular LED Commercial Downlight

Trim Sizes
12W - 3", 4", 6"
20W/30W - 4", 6", 8"
50W - 6", 8", 10"

Trim Style
Smooth reflector constructed from anodized aluminum with powder coated paint finish

Trim Finishes
White Flange + White Reflector, Haze Flange + Haze Reflector, White Flange + Haze Reflector, Black Flange + Black Reflector

Light Engine
Die-cast aluminum heat sink with integrated driver. 27" flexible MC whip cable for installation onto junction box.

Lens
Rotatable TIR Optic to adjust beam angle with a translucent frosted finish for superior light diffusion.

ELECTRICAL

Dimmable
Yes, dimmable down to 10% on compatible TRIAC/ELV on 120V and 0-10V on 120-277V dimming systems.

Driver
120-277V Universal Voltage Class 2 Driver

Operating Frequency
50/60 Hz

Operating Temperature
-4°F to 104°F

THD
≤25%

Power Factor
≥0.9/120V
≥0.7/277V

Flicker
≤30%

Controls
Compatible with Lightcloud Blue, (LCBAUX[-X]/[W/B] sold separately.
Learn more about Lightcloud Blue.

INSTALLATION

Set up
Step 1: Choose the Light Engine
Step 2: Choose the Trim Style
Step 3: (Optional) Choose a new construction housing
Step 4: (Optional) Choose an EM Battery or Lightcloud Blue Controller

Mounting
Can be used in Retrofit, Remodel, or New Construction Installations. Can accomodate up to 2" ceiling thickness.

COMPLIANCE

Listings
UL Listed, UL Classified

Environment
Suitable for use indoors and outdoors in dry or damp environments.

Air Tight
Housing Certified Air Tight as per ASTM E283.

Energy Star Approved
This product is ENERGY STAR Version 1.0 Certified.

California Title 24 JA8 Compliant
Can be used to conform with the requirements of California Title 24 Part 6.

California Energy Commission (CEC)
Lawful for Sales in California.

IESNA LM-79 & LM80 Testing
RAB LED luminaires and LED components have been tested by an independant labratory in accordance with IESNA LM-79 and LM-80.

RoHS
Mercury and UV free. RoHS-compliant components.

FCC
Complies with Part15 of the FCC Rules.

LED CHARACTERISTICS

Beam Angle
Adjustable 25° to 45° (12,20,30W) beam angle or 30° to 50° (50W) by rotating the lens assembly

Color Temperature
27/30/35/40/50K *4000K Factory Default Setting

Color Accuracy (CRI)
>90

Color Consistency
<7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability
LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity
RAB's range of Correlated Color Temperature folows the guidelines of the American Natrional Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

OTHER

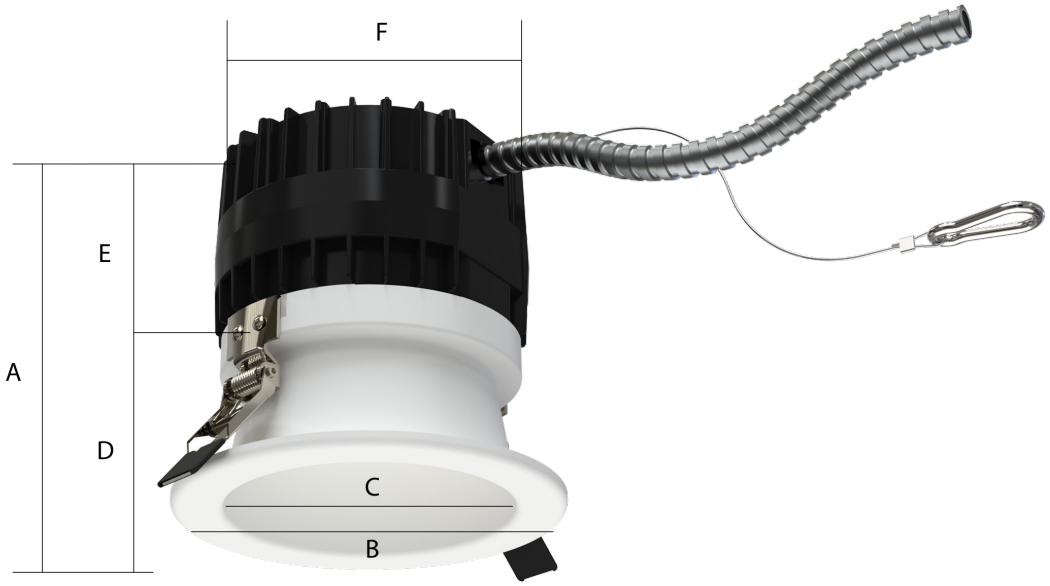
Warranty
The RAB 5-year, no compromise warranty covers light output, driver performance and paint finish.

RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

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DIMENSIONS



LED Module	Reflector Size	Fixture Height	Outer Diameter	Inner Diameter	Reflector Depth	Module Height	Module Diameter	Hole Cutout
		A	B	C	D	E	F	G
12W	3" round/wash	5 1/16"	4 1/4"	3 1/16"	1 1/2"	3 9/16"	3 5/16"	3 7/16"
	4" round/wash	5 3/8"	7 3/4"	4 1/16"	1 3/4"	3 9/16"	3 5/16"	4 15/16"
	6" round/wash	5 11/16"	7 1/16"	5 1/4"	2 1/8"	3 9/16"	3 5/16"	6 5/16"
	3" square	5 1/16"	4 3/4"	2 13/16"	1 1/2"	3 9/16"	3 5/16"	3 7/16"
	4" square	5 5/16"	7 3/4"	4"	1 3/4"	3 9/16"	3 5/16"	4 15/16"
	6" square	5 11/16"	7 1/16"	5 3/16"	2 1/8"	3 9/16"	3 5/16"	6 5/16"
20W/30W	4" round	5 3/8"	5 1/2"	4 1/16"	2"	3 7/16"	4 9/16"	4 15/16"
	6" round/wash	6"	7 1/16"	5 1/14"	2 9/16"	3 7/16"	4 9/16"	6 5/16"
	8" round/wash	6 1/2"	9 1/16"	7 1/16"	3 1/16"	3 7/16"	4 9/16"	7 1/2"
	10" round/wash	7 1/16"	11"	10 3/4"	3 5/8"	3 7/16"	4 9/16"	9 7/16"
	4" square	5 3/8"	7 3/4"	4"	2 3/16"	3 7/16"	4 9/16"	4 15/16"
	6" square	6"	7 1/16"	5 3/16"	2 9/16"	3 7/16"	4 9/16"	6 5/16"
	8" square	6 1/2"	9 1/16"	7 3/16"	3 1/16"	3 7/16"	4 9/16"	7 1/2"
50W	6" round/wash	5 15/16"	7 1/16"	5 1/4"	2 9/16"	3 6/16"	5 11/16"	6 5/16"
	8" round/wash	6 7/16"	9 1/16"	7 1/16"	3 1/16"	3 6/16"	5 11/16"	7 1/2"
	10" round/wash	7"	11"	10 3/4"	3 10/16"	3 6/16"	5 11/16"	9 7/16"
	6" square	6"	7 1/16"	5 3/16"	2 9/16"	3 6/16"	5 11/16"	6 5/16"
	8" square	6 7/16"	9 1/16"	7 3/16"	3 1/16"	3 6/16"	5 11/16"	7 1/2"

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TRIM REFLECTORS



Round



Wall Wash

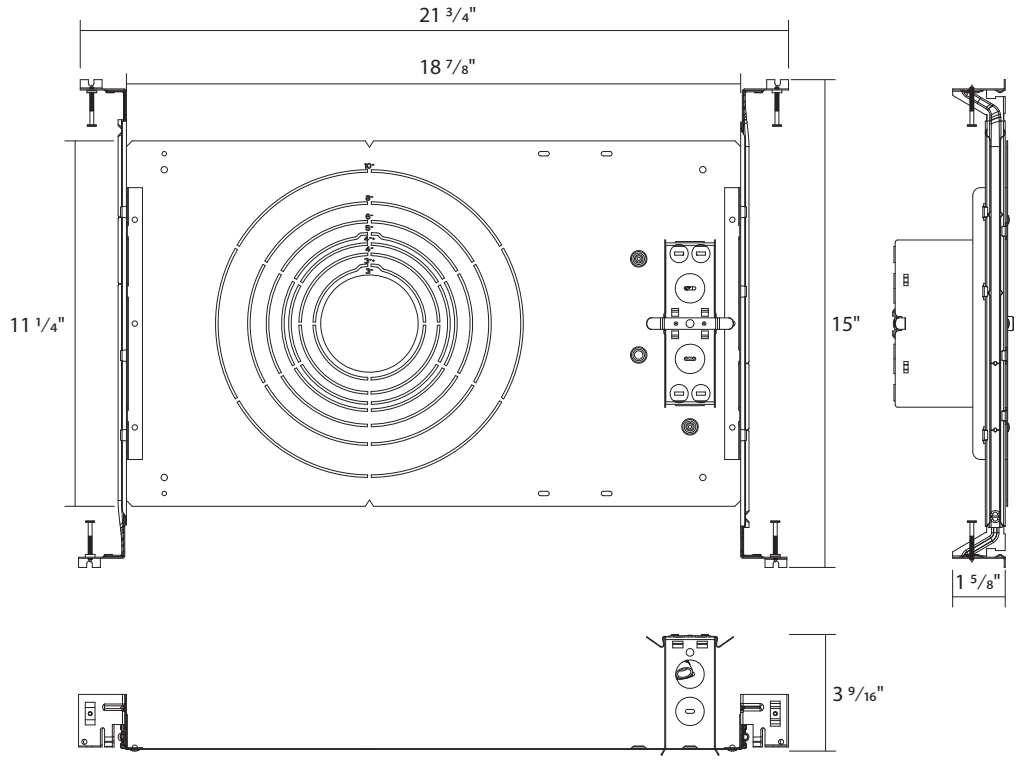


Square

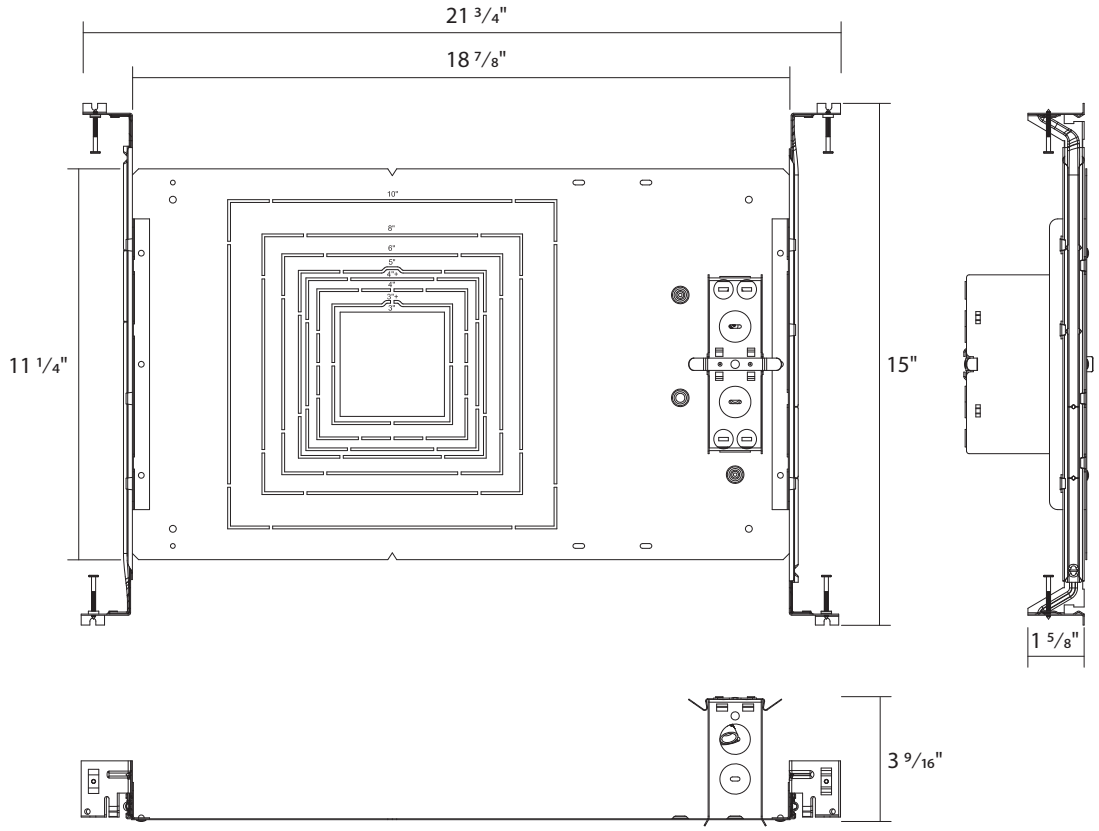
Size	Round Trims	Square Trims	Round Wall Wash Trims	Available Finishes
3"	ND22T-3RX	ND22T-3SX	ND22T-3RX	W = White Flange + Reflector B = Black Flange + Reflector HW = White Flange + Haze Reflector HZ = Haze Flange+ Reflector
4"	ND22T-4RX	ND22T-4SX	ND22T-4RX	
6"	ND22T-6RX	ND22T-6SX	ND22T-6RX	
4"	ND22T-4HRX	ND22T-4HSX	ND22T-4HRX	
6"	ND22T-6HRX	ND22T-6HSX	ND22T-6HRX	
8"	ND22T-8RX	ND22T-8SX	ND22T-8RX	
10"	ND22T-10RX	ND22T-10SX	ND22T-10RX	

NEW CONSTRUCTION HOUSING DIMENSIONS

RFRAME



SFRAME



ORDERING INFO

Preassembled Downlight Kits	Catalog Number	UPC	Description	Case Pack
	ND22-12-3RW	192552048927	3" MODULAR DL 12W 3WATT & 5CCT FA BEAM ANGLE ADJ WHITE ROUND	4
	ND22-20-4HRW	192552048934	4" MODULAR DL 20W 3WATT & 5CCT BEAM ANGLE ADJ WHITE ROUND	4
	ND22-30-6HRW	192552048941	6" MODULAR DL 30W 3WATT & 5CCT BEAM ANGLE ADJ WHITE ROUND	4
	ND22-50-8RW	192552048958	8" MODULAR DL 50W 3WATT & 5CCT BEAM ANGLE ADJ WHITE ROUND	2

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BUILD YOUR OWN DOWNLIGHT

Step 1: Choose Light Engine

	Catalog Number	UPC	Description	Case Pack
	ND22-12	192552048965	3" MODULAR DL 12W 3WATT & 5CCT FA BEAM ANGLE ADJ WHITE ROUND	6
	ND22-20	192552048972	4" MODULAR DL 20W 3WATT & 5CCT BEAM ANGLE ADJ WHITE ROUND	6
	ND22-30	192552048989	6" MODULAR DL 30W 3WATT & 5CCT BEAM ANGLE ADJ WHITE ROUND	6
	ND22-50	192552048996	8" MODULAR DL 50W 3WATT & 5CCT BEAM ANGLE ADJ WHITE ROUND	4

Step 2: Choose Trim

ND22-12 Compatible Trims			
	3"	4"	6"
Round Open Trims			
Haze/White	ND22T-3RHW	ND22T-4RHW	ND22T-6RHW
White	ND22T-3RW	ND22T-4RW	ND22T-6RW
Haze	ND22T-3RHZ	ND22T-4RHZ	ND22T-6RHZ
Black	ND22T-3RB	ND22T-4RB	ND22T-6RB
Square Open Trims			
Haze/White	ND22T-3SHW	ND22T-4SHW	ND22T-6SHW
White	ND22T-3SW	ND22T-4SW	ND22T-6SW
Haze	ND22T-3SHZ	ND22T-4SHZ	ND22T-6SHZ
Black	ND22T-3SB	ND22T-4SB	ND22T-6SB
Round Wall Wash Trims			
Haze/White	ND22T-3RHW-WW	ND22T-4RHW-WW	ND22T-6RHW-WW
White	ND22T-3RW-WW	ND22T-4RW-WW	ND22T-6RW-WW
Haze	ND22T-3RHZ-WW	ND22T-4RHZ-WW	ND22T-6RHZ-WW
Black	ND22T-3RB-WW	ND22T-4RB-WW	ND22T-6RB-WW

Step 2: Choose Trim *(cont'd)*

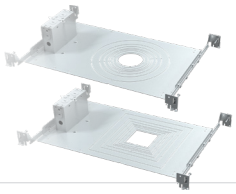
ND22-20, ND22-30 Compatible Trims				
	4"	6"	8"	10"
Round Open Trims				
Haze/White	ND22T-4RHB	ND22T-6HRB	ND22T-8RB	ND22T10RHW
White	ND22T-4HRHW	ND22T-6HRHW	ND22T-8RHW	ND22T-10RW
Haze	ND22T-4HRHZ	ND22T-6HRHZ	ND22T-8RHZ	ND22T-10RHZ
Black	ND22T-4HRW	ND22T-6HRW	ND22T-8RW	ND22T-10RB
Square Open Trims				
Haze/White	ND22T-4HSHW	ND22T-6HSHW	ND22T-8SHW	—
White	ND22T-4HSW	ND22T-6HSW	ND22T-8SW	—
Haze	ND22T-4HSHZ	ND22T-6HSHZ	ND22T-8SHZ	—
Black	ND22T-4HSB	ND22T-6HSB	ND22T-8SB	—
Round Wall Wash Trims				
Haze/White	—	ND22T-6HRHW-WW	ND22T-8RHW-WW	—
White	—	ND22T-6HRW-WW	ND22T-8RW-WW	—
Haze	—	ND22T-6HRHZ-WW	ND22T-8RHZ-WW	—
Black	—	ND22T-6HRB-WW	ND22T-8RB-WW	—

ND22-50 Compatible Trims				
	4"	6"	8"	10"
Round Open Trims				
Haze/White	—	ND22T-6HRHW	ND22T-8RHW	ND22T-10RHW
White	—	ND22T-6HRW	ND22T-8RW	ND22T-10RW
Haze	—	ND22T-6HRHZ	ND22T-8RHZ	ND22T-10RHZ
Black	—	ND22T-6HRB	ND22T-8RB	ND22T-10RB
Square Open Trims				
Haze/White	—	ND22T-6HSHW	ND22T-8SHW	—
White	—	ND22T-6HSW	ND22T-8SW	—
Haze	—	ND22T-6HSHZ	ND22T-8SHZ	—
Black	—	ND22T-6HSB	ND22T-8SB	—
Round Wall Wash Trims				
Haze/White	—	ND22T-6HRHW-WW	ND22T-8RHW-WW	—
White	—	ND22T-6HRW-WW	ND22T-8RW-WW	—
Haze	—	ND22T-6HRHZ-WW	ND22T-8RHZ-WW	—
Black	—	ND22T-6HRB-WW	ND22T-8RB-WW	—

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Step 3: Optional Accessories

OPTIONAL ACCESSORIES

	Accessory	Catalog Number	UPC	Description	Case Pack
	New Construction Housings	ND22-RFRAME	192552049726	ND22 MOUNTING PLATE WITH NAILER BAR-ROUND	2
		ND22-SFRAME	192552049733	ND22 MOUNTING PLATE WITH NAILER BAR-SQUARE	2
	EM Battery Backup	EMB-9	192552051187	EM DRIVER 100-347V 9W 0-10V DIM	15
		EMB-15	192552051194	EM DRIVER 100-347V 15W 0-10V DIM	15
		EMB-25	192552051200	EM DRIVER 100-347V 25W 0-10V DIM	15
	LCB Lightcloud Blue	LCBAUX/W	192552039611	LCB CONTROLLER 12V INDOOR AND OUTDOOR	120
		LCBAUX/B	192552030502	LCB CONTROLLER 12V INDOOR AND OUTDOOR	120

Emergency Photometric Data

Lumen Output for 90 min		EM Driver		
Downlight SKU		EMB-9	EMB15	EMB25
ND22-12	Lumens	966	983	986
	Wattage (EM)	10W	10W	10W
ND22-20	Lumens	1286	1729	2169
	Wattage (EM)	10W	16W	20W
ND22-30	Lumens	1350	1801	2758
	Wattage (EM)	10W	15W	24W
ND22-50	Lumens	1471	1963	2901
	Wattage (EM)	10W	16W	24W

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ORDERING MATRICES

MODULES

Product Family		Wattage†	Color Temp/CRI	Distribution	Driver
ND22	-				
		12 12/9/7W	**Blank** CCT Adjustable	**Blank** 25° to 45° Adjustable (12/20/30W) 30° to 50° Adjustable (50W)	**Blank** 120-277V, TRIAC Dimming
		20 20/16/12W			
		30 30/24/18W			
		50 50/40/30W			

TRIMS

Product Family		Aperature/Size†	Shape	Reflector Finish	Trim Type
ND22T	-				
		3 3"	**R** Round	**W** White Reflector + Flange	**Blank** Open Flange Trim
		4 4"	**S** Square	**HZ** Haze Reflector + Flange	**WW** Wall Wash Trim ***
		4H 4"		**HW** Haze Reflector + White Flange	
		6 6"		**B** Black Reflecor + Flange **	
		6H 6"			
		8 8"			
		10 10"			

* Square not available in 10".

** Black flange for black reflector only.

*** Wall Wash only in 6", 8", and 10".

† ND22-12 fits 3, 4, and 6"; ND22-20 and ND22-30 fit 4H, 6H, and 8" models; ND22-50 fits 6H, 8", and 10" models.

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ND22 Dimmer Compatibility List

Dimmer Brand	Dimmer Series	Dimmer Cat NR	Dimmer Type
Lutron	Maestro C-L	MACL-153M	TRIAC
Lutron	Skylark C-L	SCL-153P	TRIAC
Lutron	Sureslide	Cat.NO.6674	TRIAC
Lutron	Diva C-L	DVCL-153P	TRIAC
Lutron	toggle	TGCL-153PH-WH	TRIAC
Lutron	Radiant	RHCL453PTC	TRIAC
Lutron	Harmony	DCL453PTCCCV6	TRIAC
Lutron	Harmony	HCL453PTCCCV6	TRIAC
Lutron	Skylark	CTCL-153PDH-WH	TRIAC
Lutron	Illumena Tech	R50-IPL06-10M	TRIAC
Lutron	Diva C-L	DVWCL-153PH-WH	TRIAC
Lutron	~	AYCL-153P-BR	TRIAC
RAB	~	XDIM	TRIAC
RAB	~	XDIM/LCB	TRIAC
Lutron	Illumatech for decora	IP710-LFZ	0-10V
Lutron	Diva	DVSTV-WH	0-10V
Lutron	Nova	NFTV	0-10V
Lutron	Nova	NTSTV-DV	0-10V
Legrand	Radiant®	RH4FBL3PW	0-10V
Eaton	LISTED 6B28	DF10P	0-10V
Eaton	LISTED 6B28	SF10P-W	0-10V
RAB	~	XDIM/D10/LCB	0-10V

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