

DATE

PROJECT

TYPE

RN2RMWD | 2" Warm Dimming LED Trimless Downlight: New Construction and Remodel Housing

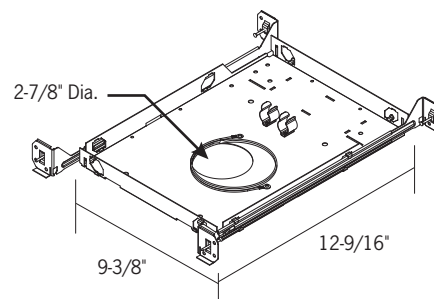
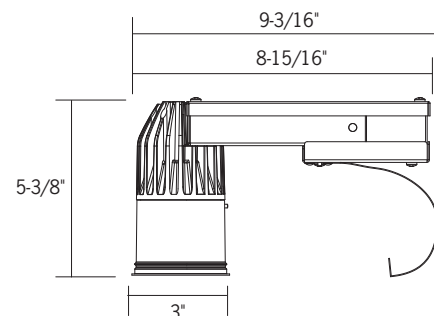
WATTAGE	13W
LUMEN OUTPUT ¹	1000Lm
COLOR TEMPERATURE	3000K – 1800K
CRI	90
BEAM SPREAD	17° Spot/28° Medium/38° Flood 63° Wide Flood/Wall Wash
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance
DRIVER INPUT WATTAGE	13W
DRIVER INPUT CURRENT (A) 120/277	.10/.04
DRIVER INPUT VOLTAGE Dimming (Triac, ELV, 0-10V) Lutron EcoSystem® Dimming	90-305V AC, 50/60Hz 120-277V AC, 50/60Hz
DRIVER Power Factor THD	> 0.90 < 20%
LISTING	cCSAus Certified using U.S. (UL) and Canadian (CSA) Standards The RN2RMWD1 Housing using Triac, ELV, 0-10V or Lutron EcoSystem® Dimming with a Medium or Flood beam is ENERGY STAR® Certified The standard Wall Wash (WW) housing/trim combination is suitable for damp locations; all other options are suitable for wet locations Conforms to Washington State Energy Code for low air infiltration; tested in accordance with ASTM E283 CP Housings are Chicago Plenum CCEA listed Assembled in the USA
WARRANTY	Five (5) year replacement after date of purchase



1. Lumen values are approximate, see photometric test results



Ceiling Thickness: 1/2" - 1"



Optional Mounting Frame: NCF1

For Ordering Information, see page 2

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Ordering Information

Housing + Mud Frame + Trim = Complete System

Example Order Housing: Mud Frame:
Trim:

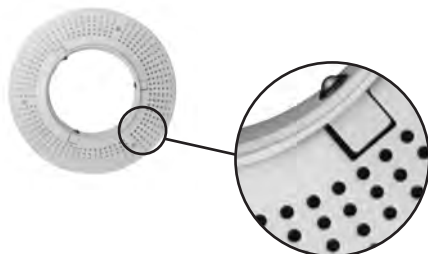
Housing	LED Series	Electrical/Dimming	Beam Distribution	Options
RN2RM - Non-IC, StopAire Remodel Housing	WD1 - 13W/1000Lm 90 CRI	MVD ¹ - 120/277V Triac, ELV and 0-10V Dimming MVD4 - Lutron Hi-Lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black <small>1. Triac and ELV Dimming for 120V only</small>	S - 17° Spot M - 28° Medium F - 38° Flood WF - 63° Wide Flood WW - Wall Wash	CP - Chicago Plenum

Replacement Optics and Accessories

Standard Hanger Bars Supplied with Housing

- 2INOPTIC-S-RA2** - Spot Beam Replacement Optic
- 2INOPTIC-M** - Medium Beam Replacement Optic
- 2INOPTIC-F** - Flood Beam Replacement Optic
- 2INOPTIC-WF** - Wide Flood Beam Replacement Optic
- NCF1** - New Construction Mounting Frame
- RL-KIT** - Commercial Mounting Brackets (When Used with NCF1)
- HB-24** - 27" Flat Hanger Bars for RL-KIT
- HBC-24** - 25" C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction
- HB-30** - T-Bar Hanger Set (When Used with NCF1)

Mud Frame



MF2

2" Mud Frame

Required - Order Separately

OD: 6-1/4"

Die-cast ring with steel mesh frame, painted white.

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Trims

Note: RN2AWD and RN2RMWD Series trims are NOT compatible with each other.



CSTN2322L-CLR
Anodized Clear Trimless Reflector



CSTN2322L-PL
Anodized Platinum Trimless Reflector



CTRN2323L-CLR
Anodized Clear Specular Trimless
Wall Wash



CTRN2323L-PL
Anodized Platinum Trimless Wall Wash



CSTN2322L-BLK
Matte Black Painted Trimless Reflector



CSTN2322L-WHT
Matte White Painted Trimless Reflector




CTRN2323L-BLK
Matte Black Painted Trimless Wall Wash



CTRN2323L-WHT
Matte White Painted Trimless Wall Wash

 **CSTN2322L Series**
Specification Grade Trimless Full Cone Reflector
OD: 2-15/16"; ID 2-1/2"

Trim is wet location certified without the need for lensing. Accepts one (1) FA-16 60MM 2-3/8" Dia. Black Honeycomb Louver or (1) LF16 60MM 2-3/8" Dia. Tempered Glass Lens.

 **CTRN2323L Series**
Trimless Wall Wash Reflector
OD: 2-15/16"; ID 2-5/16"

Angled TIR optic enables precise light control. Cannot be used with lenses or louvers.

2-3/8" Dia. Lenses/Louvers

FA-16 60MM - Honeycomb Louver

LF16- 60MM** - 2-3/8" Diameter Lenses

**Color/Pattern Legend

-A (Amber), -B (Blue), -CL (Clear), -DPE (Dichroic Peach), -G (Green), -LB (Light Blue),
-R (Red), -RO (Rose), -Y (Yellow), -73 (Spread Lens), -LS (Linear Spread Lens),
-SL (Soft Light), -SOL (Solite), -UV (Optivex UV Filter)

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Product Details

Features

- Housing requires minimum 3" clearance from insulation material; thermal protection provided in case of improper insulation use
- Die-cast aluminum collar and heat sink, driver compartment and junction box made from 16-gauge steel. Housing has a black painted finish.
- LED Drivers are fully accessible from below the ceiling
- A metal perforated mud frame is required (MF2 ordered separately). When fastened to the ceiling, mud frame utilizes three spring and ball detent points to securely support housing.
- Minimum plenum clearance required to install housing in ceiling is 6"
- NOTE: Certain regions require the use of a housing mounting frame in conjunction with the RN2RMWD housing. The NCF1 new construction mounting frame should be specified when required (ordered separately).
- Pre-wired junction box with a convenient screwdriver pry-out. (1) 1/2" Pryout. A duplex electrical connector is provided to simplify daisy-chain wiring. Output over voltage, over-current and short circuit protection.
- Many trim options available to complement any design style. See ordering information for details. Note: RN2AWD and RN2RMWD Series trims are NOT compatible with each other.

Performance Summary

- CCT Range from 3000K to 1800K, delivering up to 1000 lumens (3000K at 100%, 1800K at ≤5%)
- Light engine consists of a high output multi-chip LED array arranged into a single LED package, enabling precise optical control without requiring lensing to diffuse multiple LED sources
- Precision TIR Optics produce smooth spot, medium, flood and wide flood beam distributions. Optics are interchangeable and can be field replaced.
- The Wall Wash housing/trim combination utilizes a unique angled TIR optic mounted to the trim to create a smooth, uniform beam distribution. **Wall Wash housing is dedicated for use only with Wall Wash trim**; there is no interchangeability with other housings or optics.
- Excellent fixture to fixture color consistency within a 2-step MacAdam Ellipse tolerance
- Driver with Class 2 output, RoHS Compliant
- All RN2RM adjustable downlights are available for non-dimming and dimming applications. For a list of compatible dimmers, refer to the Dimming Specifications sheet.
- cCSAus Certified using U.S. (UL) and Canadian (CSA) Standards
- RN2RMWD1 Housing using Triac, ELV, 0-10V or Lutron EcoSystem® Dimming with a Medium or Flood beam is ENERGY STAR® Certified:
RN2RMWD1MVDM
RN2RMWD1MVDF
RN2RMWD1MVD4M
RN2RMWD1MVD4F
- The standard Wall Wash (WW) housing/trim combination is suitable for damp locations; all other options are suitable for wet locations
- Conforms to Washington State Energy Code for low air infiltration; tested in accordance with ASTM E283
- CP Housings are Chicago Plenum CCEA listed
- Suitable for damp locations
- Assembled in the USA

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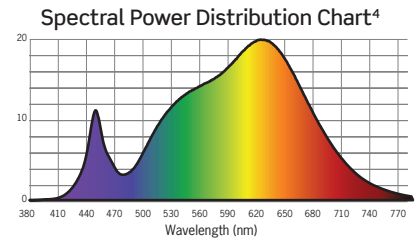
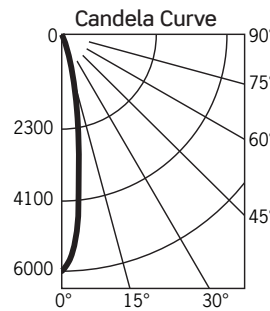
RN2RMWD | 2" Warm Dimming LED Trimless Downlight: New Construction and Remodel Housing

Photometrics

R2RMWD1MVDS/CST2322L-CLR

Fixture Delivered Lumens: 725.9
 Total Watts@120V: 13.5
 Lumens Per Watt: 53.8
 Center Beam Candle Power: 5929
 Beam Distribution: 17°
 Spacing Criterion: 0.31
 Color Rendering Index (CRI)¹: 91
 Color Temperature (CCT)²: 2985K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G20081011
 LM-79 Test No. S20081102

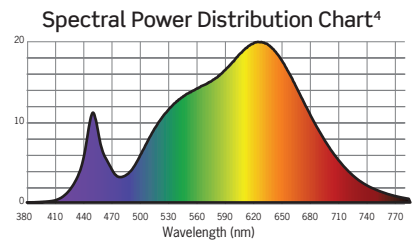
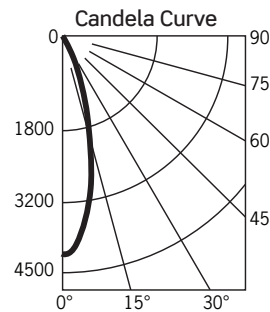
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	164.7	1.8
8'	92.6	2.4
10'	59.3	3.1
12'	41.2	3.7
14'	30.3	4.3
16'	23.2	4.9



R2RMWD1MVDM/CST2322L-CLR

Fixture Delivered Lumens: 1026
 Total Watts@120V: 13.5
 Lumens Per Watt: 76
 Center Beam Candle Power: 4140
 Beam Distribution: 28°
 Spacing Criterion: 0.46
 Color Rendering Index (CRI)¹: 91
 Color Temperature (CCT)²: 2985K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G20081006
 LM-79 Test No. S20081102

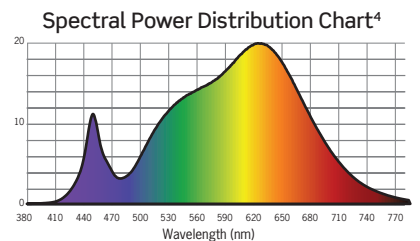
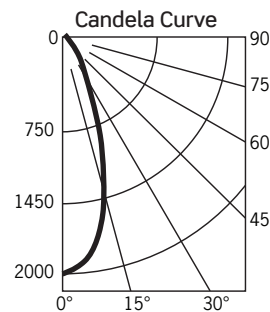
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	115.0	3.0
8'	64.7	4.0
10'	41.4	5.0
12'	28.8	6.0
14'	21.1	7.0
16'	16.2	8.0



R2RMWD1MVDF/CST2322L-CLR

Fixture Delivered Lumens: 939.7
 Total Watts@120V: 13.5
 Lumens Per Watt: 69.6
 Center Beam Candle Power: 1990
 Beam Distribution: 38°
 Spacing Criterion: 0.62
 Color Rendering Index (CRI)¹: 91
 Color Temperature (CCT)²: 2985K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G20081002
 LM-79 Test No. S20081102

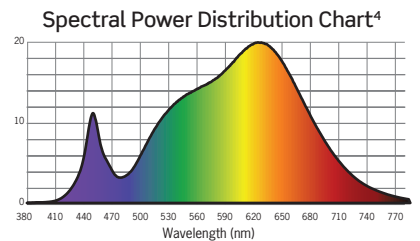
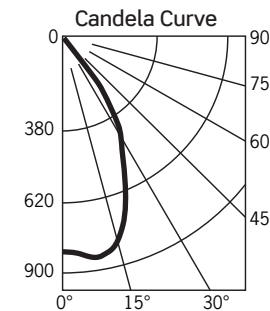
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	55.3	4.2
8'	31.1	5.6
10'	19.9	6.9
12'	13.8	8.3
14'	10.2	9.7
16'	7.8	11.1



R2RMWD1MVDWF/CST2322L-CLR

Fixture Delivered Lumens: 787
 Total Watts@120V: 13.5
 Lumens Per Watt: 58.3
 Center Beam Candle Power: 816
 Beam Distribution: 63°
 Spacing Criterion: 0.94
 Color Rendering Index (CRI)¹: 91
 Color Temperature (CCT)²: 2985K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G20081016
 LM-79 Test No. S20081102

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	22.7	7.3
8'	12.7	9.7
10'	8.2	12.1
12'	5.7	14.5
14'	4.2	16.9
16'	3.2	19.3



1. Accuracy of rendering colors 2. Color appearance of light source 3. Dependent on surrounding temperatures 4. Colors present within the light source